

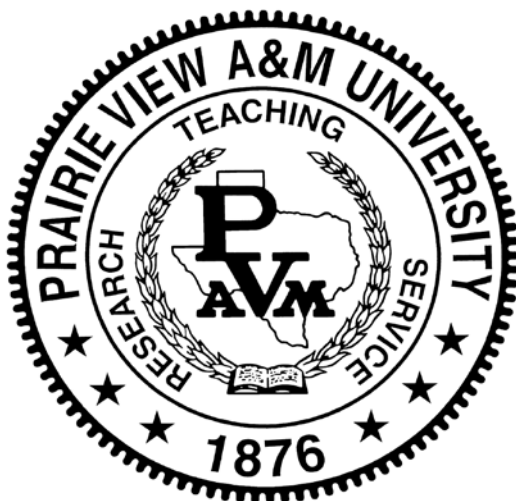
BULLETIN OF  
PRAIRIE VIEW A&M UNIVERSITY  
PRAIRIE VIEW, TEXAS  
Established by the Texas State Legislature in the Year 1876

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VOLUME 86  
NO. 1

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THE ONE HUNDRED AND SEVENTEENTH GENERAL CATALOG  
ISSUED WITH  
ANNOUNCEMENTS FOR THE ACADEMIC YEARS  
2012 - 2013



UNDERGRADUATE CATALOG

PRAIRIE VIEW A&M UNIVERSITY IS A MEMBER OF THE TEXAS A&M  
UNIVERSITY SYSTEM AND IS ACCREDITED BY THE COMMISSION ON  
COLLEGES OF THE SOUTHERN ASSOCIATION OF COLLEGES AND SCHOOLS  
TO AWARD BACHELOR'S, MASTER'S AND DOCTORAL DEGREES

It will be available on the web at [WWW.PVAMU.EDU](http://WWW.PVAMU.EDU)  
EFFECTIVE 08/01/12







## **Provisions of this Catalog**

The provisions of this catalog do not constitute a contract, expressed or implied, between any applicant, student, or faculty member and Prairie View A&M University or The Texas A&M University System. Prairie View A&M University and The Texas A&M University System reserve the right to withdraw courses at any time and to change fees, calendars, curricula, graduation procedures, or other requirements affecting students. Changes will become effective whenever the proper authorities so determine and will apply both to prospective students and those currently enrolled.

While every effort is made to assure that information is accurate, Prairie View A&M University does not assume responsibility for any misrepresentation which might arise through error in the preparation of this or any other of its catalogs or through failure to give notice of changes in its requirements, policies, tuition and fees, course offerings and other matters affecting students or applicants. To be assured of accuracy of information, students must regularly consult current publications and academic advisors.

## Accreditation

<b><u>Area/Program</u></b>	<b><u>Agency</u></b>
<b>University (Regional Accreditation)</b>	Commission on Colleges of the Southern Association of Colleges and Schools, Inc. 1866 Southern Lane Decatur, GA 30033-4097 (404) 679-4501 to award Bachelor's, Master's and Doctoral degrees
<b>Architecture</b>	National Architectural Accrediting Board 1735 New York Ave. N.W. Washington, D.C. 20006
<b>Business</b>	The Association to Advance Collegiate Schools of Business (AACSB) International 777 South Harbor Island Blvd., Suite 750 Tampa, FL 33602 (813) 769-6500
<b>Computer Science</b>	Computing Accreditation Commission of ABET, Inc. 111 Market Place, Suite 1050 Baltimore, MD 21202 (410) 347-7700
<b>Dietetics</b>	Commission on Accreditation of Dietetics Education The American Dietetic Association 216 West Jackson Blvd. Chicago, Illinois 60606-6995 (312) 899-4876
<b>Engineering</b>	Engineering Accreditation Commission of ABET, Inc. 111 Market Place, Suite 1050 Baltimore, MD 21202-4012 (410) 347-7700
<b>Engineering Technology</b>	Engineering Technology Accreditation Commission of ABET, Inc. 111 Market Place, Suite 1050 Baltimore, MD 21202-4012 (410) 347-7700

**Music**

National Association of Schools of Music  
11250 Roger Bacon Drive, Suite 21 Reston, VA  
20190-5218  
<http://nasm-accredit.org>

**Social Work**

Division of Standards and  
Accreditation Council  
on Social Work Education  
1725 Duke Street-Suite 500  
Alexandria, VA 22314-3457

**Teacher Education**

National Council for Accreditation  
of Teacher Education (NCATE)  
2010 Massachusetts Avenue NW, Suite 500  
Washington, D.C. 20036-1023

State Board for Educator Certification  
(SBEC)  
1001 Trinity Street  
Austin, TX 78701

**Nursing**

National League for Nursing Accrediting  
Commission (NLNAC)  
3343 Peachtree Road, NE, Suite 500  
Atlanta, GA 30326  
1-800-669-1656  
[www.nlnac.org/home/htm](http://www.nlnac.org/home/htm)

Commission on Collegiate Nursing  
Education (CCNE)  
Once Dupont Circle, NW  
Suite 530  
Washington, DC 20036-1120  
(202) 463-6930  
[www.aacn.nche.edu](http://www.aacn.nche.edu)

Texas Board of Nursing (BON)  
(Approval: Advanced Practice Nursing – Family  
Nurse Practitioner Program)  
333 Guadalupe, STE, 3-460  
Austin, TX 78701-3944  
[www.bon.state.tx.us](http://www.bon.state.tx.us)

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## Academic Calendars

### Academic Calendar- Fall 2012 -REVISED 08/07/12

#### August 19, Sunday

- Check-In University College (Housing)

#### August 20-23, Monday-Thursday

- Panther Camp

#### August 20, Monday

- Check-In University Village-New Transfer Students
- Check -In University Village-Returning Students
- Meal Plans **Begin**

#### August 24-27, Friday- Monday

- Regular Registration for **ALL Students**

#### August 25, Saturday

- Regular Registration for Graduate Students (UG students **if advised and issued alternate pin**)

#### August 27, Monday

- **LAST DAY** of Regular Registration for **ALL Students**
- Instruction **Begins**

#### August 28, Tuesday

- Late Registration and Drop/Add for ALL Students **Begins**

#### August 31, Friday

- Late Registration, Add Courses, Change Major/Certification or any Matriculation Change **Ends** for Undergraduate Students- **Student Web Access Closes**

-----

#### September 1, Saturday

- Late Registration, Add Courses, Change Major/Certification or any Matriculation Change **Ends** for Graduate Students- **Student Web Access Closes**

#### September 5, Wednesday

- General Student Assembly **All Students to Attend**

#### September 11, Tuesday

- Census Date (12th Class Day)
- **LAST DAY** to Drop Course(s) without Academic Record
- **Late Deadline to apply** for Fall2012 graduation

#### September 14, Wednesday

- Withdrawal from courses with academic record ("W") **Begins**

#### September 21, Friday

- 20<sup>th</sup> Class Day

#### October 18 - 20, Thursday-Saturday

- Mid-Semester Examination Period

#### October 23, Tuesday

- Mid-Semester Grades Due

*The Academic Calendar for Prairie View A&M University is subject to change. 08/07/12*

**Academic Calendar- Fall 2012 continued**

**November 5, Monday**

- Withdrawal from Course(s) with Academic record ("W") **Ends**

**November 13, Tuesday**

- Priority Registration **Begins** for Spring 2013 Semester

**November 16, Friday**

- **Deadline to Apply for Spring 2013** Graduation

**November 22-24, Thursday-Saturday**

- Thanksgiving Holiday (**University Closed**)

**November 26, Monday**

- Instruction Resumes
- 

**December 3- 4, Monday- Tuesday**

- Course Review Day [Classes **must** convene and instructors will prepare students for Final Exams]

**December 4, Tuesday**

- Last Class Day for Fall 2012 Semester
- **Last Day to Withdraw from the University (From All Courses) for the Fall 2012 Semester**

**December 5 - 11, Wednesday- Tuesday**

- Final Examination Period

**December 11, Tuesday**

- Final Grades Due for Graduation Candidates

**December 15, Saturday**

- Commencement

**December 18, Tuesday**

- Final Grades Due for All Other Students

**Academic Calendar - Spring 2013**

**January 9, Wednesday**

- New Student Orientation

**January 10 - 11, Thursday- Friday**

- Regular Registration for Returning Students

**January 12, Saturday**

- Regular Registration for Graduate Students (**UG students if advised and issued alternate pin**)

**January 14, Monday**

- Instruction **Begins**
- Late Registration and Drop/Add **Begins**

*The Academic Calendar for Prairie View A&M University is subject to change. 08/07/12*

***Academic Calendar- Spring 2013 continued***

**January 18, Friday**

- Late Registration, Add Courses, Change Major/Certification or any Matriculation Change **Ends** for Undergraduate Students- **Student Web Registration Access Closed**

**January 19, Saturday**

- Late Registration, Add Courses, Change Major/Certification or any Matriculation Change **Ends** for Graduate Students- **Student Web Registration Access Closed**

**January 21, Monday**

- Dr. Martin Luther King Jr. Day (**University Closed**)

**January 24, Thursday**

- General Student Assembly-**All Students Attend**

**January 30, Wednesday**

- 12th Class Day (Census Date)
- Last Day to Withdraw from Course(s) **without Academic Record**
- **Late Deadline** to apply for Spring 2013 graduation

**January 31, Thursday**

- Withdrawal from courses **with Academic record ("W") Begins**
- 

**February 11, Monday**

- 20<sup>th</sup> Class Day
- 

**March 7- 9, Thursday- Saturday**

- Mid-Semester Examination Period

**March 11 - 16, Monday- Saturday**

- Spring Break

**March 12, Tuesday**

- Mid-Semester Grades Due

**March 15, Friday**

- Spring Break (**University Closed**)

**March 18, Monday**

- Instruction Resumes

**March 27, Wednesday**

- Founders Day/Honors Convocation

**March 29 - 30, Friday - Saturday**

- Good Friday/Easter (**Student Holiday**)
- 

**April 1, Monday**

- Withdrawal from Course(s) **with Academic record ("W") Ends**

**April 9, Tuesday**

- Priority Registration **Begins** for Summer/Fall2013

*The Academic Calendar for Prairie View A&M University is subject to change. 08/07/12*

### ***Academic Calendar- Spring 2013 continued***

#### **April 12, Friday**

- **Graduation Application Deadline for SUMMER 2013 AND FALL 2013**

#### **April 29-30, Monday-Tuesday**

- Course Review Day [Classes **must** convene and instructors will prepare students for Final Exams]

#### **April 30, Tuesday**

- Last Class Day for Spring Semester
- **Last Day to Withdraw from the University (From All Courses)** for the Spring 2013 Semester

-----

#### **May 1-7, Wednesday-Tuesday**

- Final Examination Period

#### **May 7, Tuesday**

- Final Grades due for Graduating Candidates

#### **May 11, Saturday**

- Commencement

#### **May 14, Tuesday**

- Final Grades Due for **All Other Students**

### **Academic Calendar- Summer 2013**

#### **May 27, Monday**

- Memorial Day Holiday (University Closed)

#### **May 30, Thursday**

- Dining Hall and Student Housing Opens
- Regular Registration (First and Second 5 and 10 week sessions)

-----

#### **June 3, Monday**

- Instruction **Begins**, Late Registration, and Add/Drop Period ( First 5 and 10 week sessions)
- **LAST DAY** for Late Registration, Add Courses, Change Major/ Certification or any Matriculation Change (First 5 and 10 week sessions)- **Web Registration Closed**

#### **June 6, Thursday**

- Census Date (4th Class Day: First 5 and 10 week sessions)
- **LAST DAY** to Drop Course(s) **without academic record** (First 5 and 10 week sessions)
- **Late Deadline** to apply for Summer 2013 graduation

#### **June 7, Friday**

- Withdrawal from Courses **with academic record** ("W") **Begins** (First 5 and 10 week sessions)

*The Academic Calendar for Prairie View A&M University is subject to change. 08/07/12*

**Academic Calendar - Summer 2013 continued**

**June 21, Friday**

- 15<sup>th</sup> Class Day

**July 1, Monday**

- Withdrawal from Courses **with academic record** ("W") **Ends** (First 5 week session)

**July 4, Thursday**

- Independence Day (**Observed-University closed**)

**July 5, Friday**

- **LAST DAY** to Withdraw from the University (From **All** Courses) (First 5 week session)
- First Summer Term **Ends** (First 5 week session)

**July 8, Monday**

- Final Examination (First 5 week session)
- **LAST DAY** for Registration, Add Courses, Change Major/Certification or any Matriculation Change (Second 5 week session)- **Web Registration Closed**

**July 9, Tuesday**

- Instruction **Begins** (Second 5 week session)

**July, 11, Thursday**

- Final Grades Due for First 5 week sessions

**July 12, Friday**

- Census Date (4<sup>th</sup> Class Day- Second 5 week sessions)
- **LAST DAY** to Drop Course(s) **without academic record**

**July 15, Monday**

- Withdrawal from Courses **with academic record** ("W") **Begins** (Second 5 week session)

**July 29, Monday**

- 15<sup>th</sup> Class Day- Second 5 week sessions

-----  
**August 6, Tuesday**

- Withdrawal from Courses **with academic record** ("W") **Ends** (Second 5 and 10 week sessions)

**August 12, Monday**

- **LAST DAY** to Withdraw from the University (From **All** Courses) (Second 5 and 10 week sessions)
- Second Summer Term **Ends** (Second 5 and 10 week sessions)

**August 13-14, Tuesday- Wednesday**

- Final Exams for All Students (Second 5 and 10 week sessions)

**August 14, Wednesday**

- Final Grades Due for Graduating Candidates

**August 17, Saturday**

- Commencement

**August 20, Tuesday**

- Final Grades Due for **All Other Students**

*The Academic Calendar for Prairie View A&M University is subject to change. 08/07/12*



## Academic Calendar - Fall 2013

### August 18, Sunday

- Check-In University College (Housing)

### August 19, Monday

- Check-In University Village-New Transfer Students
- Check -In University Village-Returning Students
- Meal Plans **Begin**

### August 19-22, Monday-Thursday

- Panther Camp

### August 22-23, Thursday-Friday

- Regular Registration for Returning Students

### August 24, Saturday

- Regular Registration for Graduate Students (**UG students if advised and issued alternate pin**)

### August 26, Monday

- Late Registration and Drop/Add **Begins**
- Instruction **Begins**

### August 30, Friday

- Late Registration, Add Courses, Change Major/Certification or any Matriculation Change **Ends** for Undergraduate Students- **Student Web Registration Access Closes**

### August 31, Saturday

- Late Registration, Add Courses, Change Major/Certification or any Matriculation Change **Ends** for Graduate Students- **Student Web Registration Access Closes**

-----

### September 4, Wednesday

- General Student Assembly **All Students to Attend**

### September 10, Tuesday

- 12th Class Day (Census Date)
- **LAST DAY** to Drop Course(s) without **Academic Record**
- **Late Deadline to apply for Fall 2013 graduation**

### September 11, Wednesday

- Withdrawal from courses with academic record ("W") **Begins**

### September 20, Friday

- 20<sup>th</sup> Class Day
- 

### October 17-19, Thursday-Saturday

- Mid-Semester Examination Period

### October 22, Tuesday

- Mid-Semester Grades Due

*The Academic Calendar for Prairie View A&M University is subject to change. 08/07/12*

***Academic Calendar- Fall 2013 continued***

**November 4, Monday**

- Withdrawal from Course(s) with Academic record ("W") **Ends**

**November 12, Tuesday**

- Priority Registration **Begins** for Spring 2014 Semester

**November 15, Friday**

- Deadline to Apply for Spring 2014 Graduation

**November 28-29, Thursday-Saturday**

- Thanksgiving Holiday (**University Closed**)

-----  
**December 2, Monday**

- Instruction Resumes

**December 2 - 3, Monday-Tuesday**

- Course Review Day [Classes **must** convene and instructors will prepare students for Final Exams]

**December 3, Tuesday**

- Last Class Day for Fall 2013 Semester
- **Last Day to Withdraw from the University (From All Courses)**

**December 4-10, Wednesday-Tuesday**

- Final Examination Period

**December 10, Tuesday**

- Final Grades Due for Graduation Candidates

**December 14, Saturday**

- Commencement

**December 17, Tuesday**

- Final Grades Due for All Other Students

**Academic Calendar- Spring 2014**

**January 8, Wednesday**

- New Student Orientation

**January 9 - 10, Thursday- Friday**

- Regular Registration for Returning Students

**January 11, Saturday**

- Regular Registration for Graduate Students (**UG students if advised and issued alternate pin**)

**January 13, Monday**

- Instruction **Begins**
- Late Registration and Drop/Add **Begins**

**January 17, Friday**

- Late Registration, Add Courses, Change Major/Certification or any Matriculation Change **Ends** for Undergraduate **Students- Web Registration Access Closed**

*The Academic Calendar for Prairie View A&M University is subject to change. 08/07/12*

***Academic Calendar - Spring 2014 continued***

**January 18, Saturday**

- Late Registration, Add Courses, Change Major/Certification or any Matriculation Change **Ends** for Graduate **Students - Web Registration Access Closed**

**January 20, Monday**

- Dr. Martin Luther King Jr. Day (**University Closed**)

**January 23, Thursday**

- General Student Assembly-**All Students Attend**

**January 29, Wednesday**

- 12th Class Day (Census Date)
- Last Day to Withdraw from Course(s) **without academic record**
- **Late Deadline** to apply for Spring 2014 graduation

**January 30, Thursday**

- Withdrawal from courses **with academic record ("W") Begins**
- 

**February 10, Monday**

- 20<sup>th</sup> Class Day
- 

**March 6 - 8, Thursday - Saturday**

- Mid-Semester Examination Period

**March 10- 15, Monday- Saturday**

- Spring Break

**March 14, Friday**

- Spring Break (**University Closed**)

**March 17, Monday**

- Instruction Resumes

**March 18, Tuesday**

- Mid-Semester Grades Due

**March 26, Wednesday**

- Founders Day/Honors Convocation

**March 31, Monday**

- Withdrawal from Course(s) **with Academic record ("W") Ends**
- 

**April 8, Tuesday**

- Priority Registration **Begins** for Summer/Fall 2014

**April 11, Friday**

- **Graduation Application Deadline for SUMMER 2014 AND FALL 2014**

*The Academic Calendar for Prairie View A&M University is subject to change. 08/07/12*

***Academic Calendar - Spring 2014 continued***

**April 18-19. Friday- Saturday**

- Good Friday/Easter (**Student Holiday**)

**April 28, Monday**

- Course Review Day [Classes **must** convene and instructors will prepare students for Final Exams]

**April 29, Tuesday**

- Course Review Day [Classes **must** convene and instructors will prepare students for Final Exams]
- Last Class Day for Spring Semester
- **Last Day to Withdraw from the University (From All Courses)** for the Spring 2014 Semester

**April 30-May 6, Wednesday-Tuesday**

- Final Examination Period

-----  
**May 6, Tuesday**

- Final Grades due for Graduating Candidates

**May 10, Saturday**

- Commencement

**May 13, Tuesday**

- Final Grades Due for **All Other Students**

## **The Texas A&M University System**

### **Board Of Regents**

Richard A. Box, DDS .....	Chairman.....	Austin
Phil Adams.....	Vice Chairman.....	Bryan/College Station
Morris E. Foster .....		Salado
Elaine Mendoza .....		San Antonio
Judy Morgan .....		Texarkana
Jim Schwertner .....		Austin
Cliff Thomas .....		Victoria
John D. White .....		Houston
James P. Wilson.....		Sugar Land
Quitien Womack .....	Student Regent.....	Del Rio

### **System Administration**

John Sharp .....	Chancellor
Gregory R. Anderson.....	Chief Financial Officer And Treasurer
Frank B. Ashley, III.....	Vice Chancellor of Recruitment and Diversity
James Hallmark.....	Vice Chancellor For Academic Affairs
Stanton C. Calvert .....	Emeritus Vice Chancellor
Pierce Cantrell.....	Chief Information Officer
Steven B. Moore .....	Vice Chancellor Of Marketing And Communications
Guy Diedrich.....	Vice Chancellor for Federal and State Relations
Brett P. Giroir .....	Vice Chancellor for Strategic Initiatives
Chris Meyer .....	Chief Safety Officer
Jeffrey R. Seemann.....	Chief Research Officer
Cathy Smock.....	Chief Auditor
Ray Bonilla .....	General Counsel

Prairie View A&M University

Administrative Officers

George C. Wright..... President  
E. Joahanne Thomas-Smith .....Provost and Senior Vice President for Academic Affairs  
Willie F. Trotty ..... Vice President for Research and Dean Graduate School  
Lauretta F. Byars..... Vice President for Student Affairs and Institutional Advancements  
Corey S. Bradford, Sr.....Senior Vice President for Business Affairs  
Fred E. Washington ..... Vice President for Administration and Auxiliary Services

Academic Deans

College of Agriculture and Human Sciences ..... (Interim)Richard Griffin  
School of Architecture ..... Ikhlas Sabouni  
Marvin D. and June Samuel Brailsford College of Arts and Sciences... Danny R. Kelley  
College of Business ..... Munir Quddus  
Whitlowe R. Green College of Education..... Lucian Yates, III  
Roy G. Perry College of Engineering ..... Kendall T. Harris  
College of Juvenile Justice and Psychology .....Tamara L. Brown  
College of Nursing ..... Betty N. Adams  
Graduate School..... Willie F. Trotty



## **The President's Message to Students**

Prairie View A&M University is more than 135 years old and I continue to be amazed by its past accomplishments and rich history. This institution has not only survived, but it is thriving. Through nine colleges and schools, students can take advantage of more than 50 undergraduate majors, 41 master's degrees and four doctoral programs. Dedicated to fulfilling its land-grant mission of teaching, research and service, the University has awarded nearly 57,700 degrees at all levels, including its first doctorate degrees in both juvenile justice and educational administration.

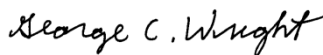
As a student at this University, you can expect:

- *A commitment to academic achievement and opportunities that will offer a real education. That means an education that not only teaches you what your professors know, but provides you with tools for your own exploration, expansion of ideas and attainment of knowledge.*
- *To be provided with outlets and opportunities for student leadership and personal development.*
- *Opportunities for serving others by laying a foundation for a lifetime of giving back and choosing to help others and emphasizing the importance of service to this University and the community.*
- *To be empowered to develop a sense of personal responsibility for your own choices and the resulting successes.*
- *A huge dose of culture regardless of your race, ethnicity, culture or background. As PVAMU becomes more diverse, we will embrace the opportunity to educate a larger population of historically underserved individuals by exposing all students to other cultures.*

What you achieve on your journey through PVAMU is largely a measure of your own hard work and tenacity. An education is an investment in your future. It is an investment of time, talent, energy and money that will continue to pay dividends for years to come. The greater the investment you make today, the greater your rewards will be in the future. Not only will you benefit from your education, but countless others will share in the productivity of your life.

I am very impressed with the quality of students who are affiliated with this University. I see among you a number of truly outstanding leaders, people of character and passion who have so much to offer the world. It is my desire that your time here be filled with memorable experiences. This will include classroom and life lessons. I hope you learn that you are responsible for your life and leave equipped to make your mark on the world.

We are committed to your future and the generations of students who will look to Prairie View A&M University to educate and equip them for life.



George C. Wright, Ph.D.  
President



## **General University Information**

Prairie View A&M University is accredited by the Southern Association of Colleges and Schools (1866 Southern Lane, Decatur, GA 30033-4097) as a comprehensive public institution of higher education authorized to award Bachelor's, Master's and Doctoral degrees, and is a member of the Texas A&M University System. It is a land-grant university authorized under the Morrill Acts of 1862 and 1890. The main campus is located in Waller County approximately 40 miles northwest of Houston and one mile north of US Highway 290 on Farm Road 1098. The College of Nursing is located in the Texas Medical Center at 6437 Fannin Street, Houston, Texas 77030 ([www.tmc.edu](http://www.tmc.edu)). Northwest Houston Center, 9449 Grant Road, Houston, Texas 77070.

The University offers a broad range of academic programs through the following administrative units:

- The College of Agriculture and Human Sciences
- The School of Architecture
- The Marvin D. and June Samuel Brailsford College of Arts and Sciences
- The College of Business
- The Whitlowe R. Green College of Education
- The Roy G. Perry College of Engineering
- The College of Juvenile Justice and Psychology
- The College of Nursing
- The Graduate School

Though the University's service area has generally extended throughout Texas and the world, the University's target service area includes the Texas Gulf Coast Region, i.e., Waller, Harris, Montgomery, Washington, Grimes, Fort Bend, Galveston, Jefferson, Chambers, Liberty, Colorado, Wharton, Brazoria, and Austin Counties; the rapidly growing residential and commercial area known as the Northwest Houston Corridor as noted in the original Texas Plan; and urban Texas centers likely to benefit from Prairie View A&M University's specialized programs and services in juvenile justice, business, architecture, teacher education, social work, and the food, agricultural and natural resource sciences. Prairie View A&M University is authorized to offer a number of undergraduate and graduate degree programs at distant sites.

In addition to Prairie View A&M University, the Texas A&M University System consists of Texas A&M University; Texas A&M University - Corpus Christi; Texas A&M International University; Texas A&M University - Kingsville; West Texas A&M University; Tarleton State University; Texas A&M University - Commerce; Texas A&M University - Texarkana; Texas A&M University Health Science Center; Texas AgriLife Research; Texas AgriLife Extension Service; Texas Engineering Experiment Station; the Texas Engineering Extension Service; Texas Forest Service; Texas Transportation Institute; and the Texas Veterinary Medical Diagnostic Laboratory.

## **History**

Prairie View A&M University, the second oldest public institution of higher education in Texas, originated in the Texas Constitution of 1876. On August 14, 1876, the Texas Legislature established the “Agricultural and Mechanical College of Texas for Colored Youths” and placed responsibility for its management with the Board of Directors of the Agricultural and Mechanical College at Bryan. The A&M College of Texas for Colored Youths opened in Prairie View, Texas on March 11, 1878.

The University’s original curriculum was designated by the Texas Legislature in 1879 to be that of a “Normal School” for the preparation and training of teachers. This curriculum was expanded to include the arts and sciences, home economics, agriculture, mechanical arts and nursing after the University was established as a branch of the Agricultural Experiment Station (Hatch Act, 1887) and as a Land Grant College (Morrill Act, 1890). Thus began the tradition of agricultural research and community service, which continues today.

The four-year senior college program began in 1919 and in 1937, a division of graduate studies was added, offering master’s degrees in agricultural economics, rural education, agricultural education, school administration and supervision, and rural sociology.

In 1945, the name of the institution was changed from Prairie View Normal and Industrial College to Prairie View University, and the school was authorized to offer, “as need arises,” all courses offered at the University of Texas. In 1947, the Texas Legislature changed the name to Prairie View A&M College of Texas and provided that “courses be offered in agriculture, the mechanics arts, engineering, and the natural sciences connected therewith, together with any other courses authorized at Prairie View at the time of passage of this act, all of which shall be equivalent to those offered at the Agricultural and Mechanical College of Texas at Bryan.” On August 27, 1973, the name of the institution was changed to Prairie View A&M University, and its status as an independent unit of the Texas A&M University System was confirmed.

In 1981, the Texas Legislature acknowledged the University’s rich tradition of service and identified various statewide needs which the University should address including the assistance of students of diverse ethnic and socioeconomic backgrounds to realize their full potential, and assistance of small and medium-sized communities and businesses in their growth and development.

In 1983, the Texas Legislature proposed a constitutional amendment to restructure the Permanent University Fund to include Prairie View A&M University as a beneficiary of its proceeds. The Permanent University Fund is a perpetual endowment fund originally established in the Constitution of 1876 for the sole benefit of Texas A&M University and the University of Texas. The 1983 amendment also dedicated the University to enhancement as an “institution of the first class” under the governing board of the Texas A&M University System. The constitutional amendment was approved by the voters on November 6, 1984.

In January 1985, the Board of Regents of the Texas A&M University System responded to the 1984 Constitutional Amendment by stating its intention that Prairie View A&M University become “an institution nationally recognized in its areas of education and research.” The Board also resolved that the University receive its share of the Available University Fund, as previously agreed to by Texas A&M University and the University of Texas.

In October 2000, the Governor of Texas signed the Priority Plan, an agreement with the U.S. Department of Education Office of Civil Rights to make Prairie View A&M University an educational asset accessible by all Texans. The Priority Plan mandates creation of many new educational programs and facilities. It also requires removing language from the Institutional Mission Statement which might give the impression of excluding any Texan from attending Prairie View A&M University .

The University’s enrollment now exceeds 8,350 including more than 2,000 graduate students. Students come from throughout the United States as well as many foreign countries. In the last five years, 5,970 degrees were awarded, including more than 2,400 graduate degrees. During the University’s 135-year history, some 57,700 academic degrees have been awarded.

## **Administrative Organization**

A current organizational chart for Prairie View A&M University is available in the Office of Institutional Effectiveness, Research and Analysis and in the Office of the Chancellor, Texas A&M University System.

## **Mission**

Prairie View A&M University is dedicated to excellence in teaching, research and service. It is committed to achieving relevance in each component of its mission by addressing issues and proposing solutions through programs and services designed to respond to the needs and aspirations of individuals, families, organizations, agencies, schools, and communities--both rural and urban. Prairie View A&M University is a state-assisted institution by legislative designation, serving a diverse ethnic and socioeconomic population, and a land-grant institution by federal statute. Having been designated by the Texas constitution as one of the three “institutions of the first class” (1984), the University is committed to preparing undergraduates in a range of careers including but not limited to engineering, computer science, natural sciences, architecture, business, technology, criminal justice, the humanities, education, agricultural sciences, nursing, mathematics, and the social sciences. It is committed to advanced education through the master’s degree in education, engineering, natural sciences, nursing, selected social sciences, agriculture, business, and human sciences. It is committed to expanding its advanced educational offerings to include multiple doctoral programs.

Though the University’s service area has generally extended throughout Texas and the world, the University’s target service area for offering undergraduate and graduate

programs of study includes the Texas Gulf Coast Region; the rapidly growing residential and commercial area known as the Northwest Houston Corridor; and urban Texas centers likely to benefit from Prairie View A&M University's specialized programs and initiatives in nursing, juvenile justice, architecture, education, and social work. The University's public service programs offered primarily through the Cooperative Extension Program target the State of Texas, both rural and urban counties. The University's research foci include extending knowledge in all disciplines offered and incorporating research-based experiences in both undergraduate and graduate students' academic development.

## **Core Values**

### **Access And Quality**

Prairie View A&M University will provide equal educational opportunity to increasing numbers of persons from unserved and underserved populations residing primarily among the economically and socially bypassed in the society; further, the University will provide educational programs designed to prepare all graduates to compete successfully in the graduate and professional schools as well as in the labor force.

### **Diversity**

Prairie View A&M University will sustain its commitment to recruit, enroll, educate, and graduate students and to employ and advance faculty and staff without regard to age, ethnicity, gender, national origin, socioeconomic background, or educationally unrelated handicap; further, the University will offer challenges to both the academically talented and the under-prepared who arrive in college with ability, but without college-ready achievement.

### **Leadership**

Prairie View A&M University will stimulate, initiate, and implement programs and services to both inspire and guide students, faculty, and staff in developing their self-confidence, self-discipline, and other requisites to becoming successful leaders in their professions and in their communities; further, the University will offer campus-based and distance education programs to enhance the life chances for persons in its service areas.

### **Relevance**

Prairie View A&M University will respond to the need for highly literate, technologically competent graduates educated to excel in the 21st century work force; further, the University will extend the products of its research and service to address concerns and solve problems such as violence, abuse and misuse; drug and alcohol abuse; mental, physical, and psychological neglect; environmental injustice; and other forms of social dissonance that compromise the quality of life for the citizenry.

### **Social Responsibility**

Prairie View A&M University will promote active participation in constructive social change through volunteerism, leadership, and civic action on the part of its faculty, staff, and students; further, the University will utilize channels available for influencing public policy on the local, state, national, and international levels.

## **Commitment To Excellence**

Upon admission to and enrollment at Prairie View A&M University , a student – undergraduate and graduate – becomes a Panther Man or a Panther Woman and agrees to uphold a commitment:

### **To Excellence in Attitude**

Exhibiting a positive desire to accept the challenges of college life, refusing to allow obstacles to impede progress toward future goals and aspirations.

### **To Excellence in Personal Management**

Exhibiting highest respect for self and for the property and rights of others.

### **To Excellence in Work Ethic and Scholarship**

Exhibiting determination that leads to meeting expectations of class attendance, course requirements, work-study position, student organizations, and other commitments; exhibiting dedication and persistence required to realize one's full academic potential.

### **To Excellence in Responsibilities for Peers**

Exhibiting leadership among peers that openly repudiates violence, illicit drug use, possession of weapons, vulgarity, apathy, or any form of destructive, nonproductive behavior.

### **To Excellence in Professional Career Preparation**

Exhibiting deliberate pursuit of professional and career readiness as evidenced by participation in student organizations, academic learning communities, athletics competition, career planning events, leadership training, graduate/professional school orientations, and other career preparation activities.

### **To Excellence in Community Membership**

Exhibiting responsible citizenship; taking social and political positions that advance the common good; contributing skills and talents in a manner that promotes the general welfare of local, state, regional, national, and international communities.

### **To Excellence in Honesty, Integrity and Character**

Exhibiting commitment to being truthful in the conduct of personal and academic matters, resisting any form of deceit, malfeasance, misrepresentation or fraudulence; exhibiting a high standard of moral conduct as evidenced by one's being fair, dependable, and ever mindful of how one's behavior affects the greater good.

## **Rules And Procedures On Discrimination, Harassment, And Privacy**

Prairie View A&M University is a member of the Texas A&M University System. The A&M System is committed to equal employment, educational programs and activities, and a discrimination free workplace and learning environment. As such, the University complies with all applicable state and federal laws and regulations on discrimination, harassment and privacy. These laws and regulations include Title V of the Rehabilitation Act of 1973; Title VI of the Civil Rights Act of 1964; Title VII of the Civil Rights Act of 1964; Title IX of the Education Amendment Act of 1972; and the Family Educational Rights and Privacy Act of 1974. For more details, please consult the Office of Equal Opportunity or the Office of Human Resources, Prairie View A&M University.

***Equal Opportunity Policy Statement***  
**Title VI & VII of the Civil Rights Act of 1964**

Prairie View A&M University is fully committed to and promotes equal opportunity for all. This commitment by the University includes equal employment and educational opportunity, affirmative action, and program accessibility. The Office of Equal Opportunity is responsible for the Equal Opportunity Programs of the University.

***Program Accessibility***  
**Title VI of the Civil Rights Act of 1964**

No otherwise qualified individual shall, on the basis of race, color, sex, religion, national origin, age, disability or veteran status, be excluded from participation in, be denied the benefit of, or be subjected to discrimination under any program or activity provided by the University in accordance with applicable laws and regulations. The University Office of Equal Opportunity is responsible for the Title VI Program of the University.

***Title IX of The Education Amendment Act of 1972***

Prairie View A&M University does not discriminate against persons on the basis of sex. Individuals will not be excluded from participation in, be denied the benefits of, or be subjected to discrimination on the basis of sex under any educational program, service or activity offered by the University. The University Office of Equal Opportunity is responsible for the Title IX Program of the University.

***Title V of the Rehabilitation Act of 1973***

In compliance with Title V of the Rehabilitation Act of 1973 and Sections 501, 502, 503, and 504, Prairie View A&M University prohibits the imposition of rules or restrictions that have the effect of limiting participation of students with disabilities in educational programs or activities. Appropriate academic accommodations and reasonable modifications to policies and practices are made to assure that students with disabilities have the same opportunities as other students to be successful on the basis of their intellectual abilities and academic achievements. The Office of Human Resources is responsible for the Title IX Program of the University. The Office of Student Affairs is responsible for the Disability Services programs for all students.

***Right to Privacy***

Family Educational Rights and Privacy Act of 1974 contained in Public Law 93-380 of the Educational Amendments of 1974, is designed to protect the rights and privacy of students.

Official records are not opened to the public and will not be divulged without the consent of the student. Minors (those under 18 years of age) attending the university have the same right to privacy of their records as adult students.

The Buckley Amendment provides that certain directory-type information may be made public on all students unless an individual student states in writing (within the first twelve class days) to the Office of the Registrar that they do not wish that information to be released. Such directory-type information may include (but is not limited to) name, address, telephone number, date and place of birth, major, participation in activities, dates of attendance, and degrees, and awards received.

Academic information is confidential. However, in order for the University to serve students, academic information is shared with University administrative offices and academic advisers for the purpose of providing services to the student.

### ***Photographs/Videography***

Prairie View A&M University and its representatives on occasion take photographs or shoot video footage for the University's use in print and electronic publications. This serves as public notice of the University's intent to use such images as it deems fit. If you should object to the use of your image please contact the Office of Public Relations.

## Directory of Frequently Called Offices

When seeking information about the University, please visit, call, or write the office most closely associated with the subject of your concern or inquiry. Letters intended for offices other than those contacted will be forwarded.

### **President's Office**

A.I. Thomas Administration Bldg., Ste. 202  
P.O. Box 519; MS 1001  
Prairie View, TX 77446  
(936) 261-2111

### **Academic Affairs**

A.I. Thomas Administration Bldg., Ste. 211  
P.O. Box 519; MS 1023  
Prairie View, TX 77446  
(936) 261-2175

### **Student Affairs**

Evans Hall, Room 305  
P. O. Box 519, MS 1026  
Prairie View, TX 77446  
(936) 261-3550

### **Undergraduate Admissions**

Memorial Student Center, Rm. 322  
P.O. Box 519; MS 1009  
Prairie View, TX 77446  
(877) PVAMU30

### **Office of Recruitment & Marketing**

Memorial Student Center, Rm. 322  
P.O. Box 519; MS 1009  
Prairie View, TX 77446  
(877) PVAMU30

### **Veteran Affairs**

Memorial Student Center, Rm. 326  
P.O. Box 519; MS 1009  
Prairie View, TX 77446  
(936) 261-1067

### **University Village**

Oscar Minor at Pipkin  
P.O. Box 157  
Prairie View, TX 77446  
(936) 261-5950

### **Department of Public Safety**

Central Receiving Bldg., Rm. 102  
P.O. Box 519; MS 1430  
Prairie View, TX 77446  
(936) 261-1375

### **Student Activities**

Memorial Student Center, Rm. 221  
P.O. Box 519; MS 1020  
Prairie View, TX 77446  
(936) 261-1340

### **Academy for Collegiate Excellence and Student Success (ACCESS)**

University College Advisement Center  
P.O. Box 519; MS 3000  
Prairie View, TX 77446  
(936) 261-5900

### **Student and Enrollment Services**

Memorial Student Center, Rm. 315  
P.O. Box 519; MS 1005  
Prairie View, TX 77446  
(936) 261-1056

### **Graduate Admissions**

Wilhelmina Delco Bldg., Ste. 120  
P.O. Box 519; MS 2800  
Prairie View, TX 77446  
(877) PVAMU30

### **Records (Registrar)**

Memorial Student Center, Rm. 302  
P.O. Box 519; MS 1002  
Prairie View, TX 77446  
(877) PVAMU30

### **Counseling Services**

Owens-Franklin Health Center  
P. O. Box 519; MS 1413  
Prairie View, TX 77446  
(936) 261-1410

### **Treasury Services (Bursar)**

W.R. Banks Bldg., Rm. 125  
P.O. Box 519; MS 1329  
Prairie View, TX 77446  
(877) PVAMU30

### **Office of Disability Services**

Evans Hall, Rm. 317  
P.O. Box 519; MS 1037  
Prairie View, TX 77446  
(936) 261-3581



**Office of Equal Opportunity/Title IX**

**Coordinator**

A.I. Thomas Administration Bldg., Ste. 013  
P.O. Box 519, MS 1107  
Prairie View, TX 77446  
(936) 261-2123

**Central Scholarship Office**

Memorial Student Center, Rm. 309  
P.O. Box 519; MS 1005  
Prairie View, TX 77446  
(877) PVAMU30

**Residential Life**

Harrington Science Bldg., Rm. 116  
P.O. Box 519; MS 1440  
Prairie View, TX 77446  
(936) 261-2654

**Student Financial Services**

Memorial Student Center, 3rd Floor  
P.O. Box 2967  
Prairie View, TX 77446  
(936) 857-2422/2424

**Career Services**

Anderson Evans Hall, Ste. 217  
P. O. Box 519; MS 1028  
Prairie View, TX 77446  
(936) 261-3570

**All Faiths Chapel**

Johnson Phillip All Faiths Chapel  
P.O. Box 519; MS 1021  
Prairie View, TX 77446  
(936) 261-3590

**Student Judicial Services**

Evans Hall, Rm. 307  
P. O. Box 519; MS 1036  
Prairie View, TX 77446  
(936) 261-2694

**Honors Program**

Don K. Clark Bldg., Ste. 321  
P.O. Box 519; MS 2600  
Prairie View, TX 77446

**Northwest Houston Center**

N.W. Houston Center  
9449 Grant Rd.  
Houston, TX 77070  
(713) 790-7281

**College of Agriculture & Human Sciences**

E.B. Evans Animal Industries Bldg., Rm. 113  
P.O. Box 519; MS 2004  
Prairie View, TX 77446  
(936) 261-2505

**School of Architecture**

Nathelyne Archie Kennedy Bldg., Room 100  
P.O. Box 519; MS 2100  
Prairie View, TX 77446  
(936) 261-9800

**Marvin D. and June Samuel Brailsford College**

of Arts and Sciences, Bldg., Rm. 230B  
P. O. Box 519; MS 2201  
Prairie View,  
(936) 261-3180

**College of Business**

Hobart Taylor Bldg., Rm. 2A204  
P.O. Box 519; MS 2301  
Prairie View, TX 77446  
(936) 261-9200

**Whitlowe R. Greene College of Education**

Wilhelmina Delco Bldg., Ste. 302  
P. O. Box 519; MS 2400  
Prairie View, TX 77446  
(936) 261-3600

**Roy G. Perry College of Engineering**

S. R. Collins Building, Rm. 338  
P. O. Box 519; MS 2500  
Prairie View, TX 77446  
(936) 261-9890

**College of Juvenile Justice & Psychology**

Col. of Juv. Justice & Psys. Bldg, Ste. 145  
P. O. Box 519; MS 2600  
Prairie View, TX 77446  
(936) 261-5200

**College of Nursing**

6436 Fannin Street Ste. 1224  
Houston, TX 77030  
(713) 797-7000

**Graduate School**

Wilhelmina Declco Bldg., Rm. 120  
P. O. Box 519; MS 2800  
Prairie View, TX 77446  
(936) 261-3500

**University College**

University College Advisement Center  
P. O. Box 519; MS 3000  
Prairie View, TX 77446  
(936) 261-5900

## **Student Services**

Prairie View A&M University believes that the intellectual and moral growth of students occurs both within and outside the formal classroom setting. Residential and social life experiences are regarded as learning opportunities, significant in their own right and complementary to those provided within the academic curriculum. Thus, the University is committed to providing a co-curricular environment that supports individual needs, and actively contributes to the University's residential and community life. A complete listing of the University's student services is provided in the Prairie View A&M University Student Conduct Code and Handbook. Those services that are particularly relevant to academic life at the University are briefly described below.

### **Office of Student Financial Aid**

The Office of Student Financial Aid at Prairie View Agricultural and Mechanical University (PVAMU) is committed to providing a high level of service to support students in achieving their academic goals by helping to remove the financial barriers to college attendance. The office's mission is to offer coordinated delivery of comprehensive student aid programs that are supportive of the recruitment and retention of academically talented and diverse students.

#### **Philosophy of the Student Financial Aid Office**

*We believe that:*

- Our first responsibility is to assist the most economically disadvantaged student.
- Self-help (loan and work study) should be a part of the University aid award.
- Students should make a commitment to their education with both current and future earnings; this means both working and borrowing to pay for their education.
- Student budgets should reflect reasonable allowances for typical student expenses.
- The Federal Need Analysis Methodology is designed to provide an equitable formula for evaluating student need.
- Funding is limited and may not meet your total need. Therefore, the Financial Aid Office will award aid to the students who demonstrate the most need first. Aid continues to be awarded on an ongoing basis until funding is exhausted.
- We have a responsibility to develop information and policies that minimize defaults on student loans.
- The financial aid packaging process ensures effective use of the funds available and fair and equitable treatment of all aid applicants.

**NOTE:** You may view our general consumer information at <http://www.pvamu.edu/aid>.

## **Student Eligibility**

To receive aid from the student aid program at Prairie View A&M University, one must:

- have a financial need, except for some loan programs;
- have a high school diploma or a General Education Development (GED) certificate;
- be enrolled or accepted for enrollment as a regular student working toward a degree or certificate in an eligible program;
- be a U.S. citizen or eligible non-citizen;
- have a valid Social Security Number;
- make satisfactory academic progress;
- sign a statement on the Free Application for Federal Student Aid (FAFSA) certifying that you will use federal student aid only for educational purposes;
- sign a statement on the FAFSA certifying that you are not in default on a federal student loan and that you do not owe money back on a federal student grant;
- register for selective service, if required

If you are a male 18 through 25 years of age and you have not yet registered with Selective Service, you can give Selective Service permission to register you by checking a box on the FAFSA. You can also register through the Internet at: [www.sss.gov](http://www.sss.gov).

A new law suspends aid eligibility for students convicted under federal or state law of sale or possession of drugs. If you have been convicted of drug possession, you will be ineligible for one year from the date of a first conviction, two years after a second conviction and indefinitely after a third conviction. If you have been convicted for selling drugs, you will be ineligible for two years from the date of first conviction and indefinitely after a second conviction. If you lose eligibility, you can regain eligibility early by successfully completing acceptable drug rehabilitation program.

## **Student Rights and Responsibilities**

Current law requires each eligible institution participating in Title IV financial aid programs to provide student financial assistance and other institutional information. Following is information available from the Student Financial Aid Office and other offices on campus.

*You have the right:*

- To know all the federal, state, institutional, and private student financial assistance programs available, including both need-based and non need-based programs.
- To know the procedures, forms, deadlines, and eligibility requirements to apply for assistance; the criteria for selecting aid recipients and determining the amount of aid awarded.
- To know the cost of attending the University, how those costs are determined, and how your student budget is developed.
- To know what resources we have considered in calculating your financial need, how the Expected Family Contribution (EFC) was determined, and how much of your financial need has been met.
- To know the standards required for maintaining satisfactory academic progress for financial aid eligibility.
- To know how and when disbursement of financial aid is made, the University's refund policy for costs paid to the University, and any refund due to Title IV student assistance programs.
- To know the terms and conditions of any loans, employment, scholarships or grant aid you receive.
- To know the policies and procedures used to maintain confidentiality of financial aid records. Only those individuals who directly handle the application have a right to know or access the information. Prairie View A&M University complies with the Family Educational Rights and Privacy Act of 1974.
- To know who to contact and how to contact the financial aid personnel regarding information on student financial assistance.
- To know the academic programs of the University, the facilities available, the faculty, and instructional personnel.
- To know the names of bodies which accredit, approve or license the institution and its programs, and how their documents may be reviewed.
- To know the completion or graduation rate of students.
- To know statistics on the receipt of athletic-related student aid.
- To know campus security policies and crime statistics.
- To know what facilities and services are available to students with disabilities.

*It is your responsibility:*

- To read and consider all information about the University before you enroll.
- To complete all University applications forms thoroughly and accurately, and submit them to the appropriate office(s) by required deadlines.

- To accurately and honestly complete your Free Application for Federal Student Aid (FAFSA). Errors can result in delays. False or misleading information is a criminal offense and is subject to a \$10,000 fine, imprisonment or both.
- To use any federal, state-appropriated or institutional financial aid received during the award year solely for expenses related to attendance at Prairie View A&M University .To comply with Quality Assurance Program requirements (if you are selected as a participant), provide verification or additional information as requested by the University, and submit corrections or new information, as appropriate.
- To read, understand and accept responsibility for all forms or agreements you sign. We recommend you keep copies of your records.
- To report to the Financial Aid Office if you are in default on a student loan or if you owe a refund or repayment on any educational grant received from any school.
- To notify your student loan lender of changes in your name, address, and school status.
- To perform the work agreed upon when you accept a Federal Work-Study award.
- To know and to comply with the following University policies and procedures as they relate to financial aid: withdrawal, refund/repayment, satisfactory academic progress, debt management, and enrollment status for aid disbursement.
- To keep your address and phone number current with the Office of Admissions and Records and the Office of Student Financial Aid.

### **Utilizing the PVAMU Financial Aid Web Page**

The University is moving toward using more electronic means of communication. Thus, the Prairie View A&M University Office of Student Financial Aid would like to announce its new and improved web page at [www.pvamu.edu/faid](http://www.pvamu.edu/faid). The Financial Aid web page provides a plethora of information regarding financial aid opportunities.

### **Getting Started...Applying for Financial Aid**

1. Complete the Free Application for Federal Student Aid (FAFSA) online at [www.fafsa.ed.gov](http://www.fafsa.ed.gov). Be sure to follow all web instructions thoroughly and using your Federal PIN number, e-sign your FAFSA. If you need assistance with the application process, you may call 1-800-FED-AID (1-800-433-3243) or the Office of Student Financial Aid at (936) 261-1000.
2. You will receive a Student Aid Report (SAR) from the US Department of Education within 2 to 3 days of completing your FAFSA online. Once you receive your SAR, review it for accuracy. If corrections are necessary, you should first contact the Office of Student Financial Aid for assistance. If the SAR is accurate, keep it for your personal records. The Office of Student Financial Aid also receives the SAR

information and will contact you via your PVAMU student email or Panthertracks account should you need to submit any additional information.

3. Respond immediately to any request for information. Delays in submitting required documentation will delay the determination of your financial aid eligibility.
4. Institutional documents are located on the Prairie View A&M University website at [www.pvamu.edu/faid](http://www.pvamu.edu/faid). Select "Forms Library" to retrieve required documents.

### **When Do I Apply?**

Apply as soon as possible AFTER January 1 (you can't apply before this date). It is easier to complete the application when you already have your current tax year's return. So you may want to complete your tax return as early as possible. Do not sign, date or send your application before January 1. You need to apply only once each school year at [www.fafsa.ed.gov](http://www.fafsa.ed.gov).

### **What Happens After I Apply?**

A paper FAFSA may be obtained by contacting the Central Processing System (COS) at 1-800-4FEDAID, 1-800-433-3243 or 319-337-5665. If you are hearing impaired, please contact the TTY at 1-800-730-8913. If you apply by paper application, it will take about six to eight weeks for your application to be processed for you to receive a SAR in the mail.

If it's been more than six to eight weeks since you submitted your application and you have not heard anything, you can check on your application through the FAFSA on the Web, even if you don't apply using FAFSA on the Web. The URL for the webpage is <http://www.fafsa.ed.gov>.

### **Office of Student Financial Aid Important Deadlines and Priority Dates:**

**January 2, 2012**– [FAFSA on the Web](#), [Renewal FAFSA on the Web](#), and [Corrections on the Web](#) will be available for students. The Central Processor's application processing system will begin processing new 2012-2013 Free Application for Federal Student Aid Applications. If you have not done so already, make sure that both you and your parents [Apply for a PIN](#) at [www.pin.ed.gov](http://www.pin.ed.gov). The Federal PIN will allow you and your parents (if applicable) to e-sign your FAFSA/Renewal FAFSA and allow you to submit corrections to your FAFSA. If you have forgotten your Federal PIN Number, you can always [Request a Duplicate PIN](#).

**March 15, 2012** – Fall 2012 priority submission date for a complete financial aid application file. A complete application file includes: (1) Federal Student Aid; (2) all required documents has been received and processed (i.e. verification) (3) University Scholarship Application has been mailed to the Office of Admissions; and (4) the student has been accepted for admission.

**April 15, 2012** – Financial aid award notification letters will be sent to the mailing address of first-time freshmen and transfer students.

**May 15, 2012**– Final date for processing financial aid awards in advance of 2009 summer registration with the assurance that awarded funds will be available for fee payment.

**June 1, 2012** – After final spring grades are posted and Satisfactory Academic Progress calculated, financial aid notifications will be sent to Prairie View email address of current students. The email will direct you to check your award status using [Panther Tracks](#). Those students identified as not making Satisfactory Academic Progress will be notified via their University email address and provided instructions on how to appeal.

**July 15, 2012** – Summer 2012 verification deadline.

**August 1, 2012** – Final date for processing financial aid awards in advance of Fall 2012 registration with the assurance that awarded funds will be available for fee payment in August.

**October 15, 2012** – Spring 2013 priority submission date for a complete financial aid application file. A complete application file includes: (1) the Federal Student Aid Report; (2) all required documents has been received and processed (i.e. verification) (3) University Scholarship Application has been mailed to the Office of Admissions; and (4) the student has been accepted for admission.

**August 01, 2012** – Fall 2012 verification deadline.

**December 15, 2012** - Final date for processing financial aid awards in advance of 2008 spring registration with the assurance that awarded funds will be available for fee payment in January.

**December 15, 2012** – Spring 2013 verification deadline.

### **Quality Assurance Program**

The U.S. Department of Education requires each university to conduct activities that will verify financial aid information provided by its students. This process may be done by verifying applicants selected by the Department of Education or through the Quality Assurance Program.

Prairie View A&M University participates in the Quality Assurance Program. This program is governed by federal regulations and the results of our findings are reported to the federal government.

The process begins in late September. Approximately 300 financial aid recipients are randomly selected. If selected students must submit documentation to verify the

information provided on the application. Errors may result in reductions or increases in financial aid eligibility. Participation is mandatory for selected students and non-compliance can result in cancellation of fall and spring aid.

### **Students Receiving Financial Assistance**

If you have been offered financial assistance by the Office of Student Financial Aid to prevent your registration from being canceled, prior to the due date on your statement you must submit your acceptance of financial assistance offered in amounts sufficient to pay your current balance due. Your registration will not be canceled, even if that aid is not yet reflected on our statement; however, there are exceptions to this rule. Financial assistance that will NOT prevent cancellation of classes include: non PVAMU scholarships, Federal Parent Loan for Undergraduate Students (Federal PLUS Loan), state or Federal Work-Study, and miscellaneous student loans or other funds that pay directly to the student. These forms of financial assistance do not count toward payment until the funds are credited to your account. You must pay whatever your financial assistance does not cover prior to the due date on your statement to avoid late penalties.

Most assistance will be automatically credited to your account and applied against outstanding charges. This includes additional charges for classes added after you received your billing. A refund check will be mailed to you if there is a remaining balance.

**Important:** If you have accepted financial assistance, but have decided not to attend, you **MUST** advise the Registrar's Office and the Office of Student Financial Aid. In most cases, your assistance could be enough to hold your registration from the automatic cancellation process. If you fail to contact the University about your intentions, it can result in severe financial and academic penalties.

Students making partial payments will automatically be placed on the installment plan. If doing so reduces the current balance due to an amount less than or equal to the amount of payments made, the student's registration will not be canceled. However, these students will be required to pay the \$50 installment payment service fee.

### **Enrollment Requirements for Receiving Financial Assistance**

In order to receive financial assistance the minimum semester credit hour enrollment requirements must be met. Refer to the following table to determine the number of hours required for you to receive financial assistance. You are responsible for meeting the minimum enrollment requirements. Receiving assistance to which you are not entitled or receiving assistance and then dropping to below the required number of semester credit hours may constitute a violation of University policy and state and/or federal law. As a result, you may be required to repay financial assistance received.



## Minimum Semester Credit Hour Requirements for Receiving Financial Assistance

*Semester Credit Hours Required for:*

Full-Time    Half-Time

**Undergraduate    12 SCH    6 SCH**

**Graduate    9 SCH    6 SCH**

**NOTE:** You must be enrolled in at least six hours within your degree plan to receive financial aid. Repeated courses are excluded from the calculation of minimum hour requirements.

Type	Minimum Requirements
Institutional Scholarships	Full-time
Federal SEOG	Half-time
Federal Perkins Loans	Half-Time
Grants (other than Pell)	Full-Time
Federal Stafford Loans	Half-Time
Federal Pell Grants	Less Than Half-Time*
Texas Grant	Three-Fourths
Texas Public Educational Grant (TPEG)	Half-Time
B-On Time Loan	Full-Time

\*Undergraduates may be eligible to receive a Federal Pell Grant if enrolled in at least 3 semester credit hours.

### Types of Financial Aid

Prairie View A&M University has the following major student financial assistance programs:

- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li>• Scholarships</li> <li>• TEXAS Grant</li> <li>• Texas Public Educational Grant (TPEG)</li> <li>• Texas B-On-Time Loan Program (BOT) (Renewal Students Only)</li> <li>• Federal Pell Grants</li> <li>• Federal Supplemental Educational Opportunity Grants (FSEOG)</li> </ul> | <ul style="list-style-type: none"> <li>• Federal TEACH Grant</li> <li>• Academic Competitiveness Grants (ACG)</li> <li>• National SMART Grants</li> <li>• Federal Work-Study</li> <li>• Federal Direct Loans</li> <li>• Federal Direct PLUS Loans</li> <li>• Private Educational Loan</li> <li>• (Alternative Loans)</li> </ul> |
|--|---|

*Grants* are financial aid you don't have to pay back.

*Work-Study* lets you work and earn money to help pay for school.

*Loans* are borrowed money that you must repay with interest.

- Undergraduate students may receive grants, loans and Federal Work-Study.
- Graduate students may receive loans and Federal Work-Study, but not Federal Pell Grants or FSEOG.

NOTE: For a detailed description of the above mentioned financial assistance programs, please visit our website: <http://www.pvamu.edu/faid>.

## **University Scholarships**

The Scholarship Office at the Prairie View A&M University offers a number of scholarships designed for undergraduate, transfer and continuing students that show promise through academics, leadership, and/or community involvement. The scholarship may be awarded based on merit, financial need, diversity, or other circumstantial and academic major considerations. Scholarships will be awarded as long as funding is available.

Although a student's financial need may be considered in making the award decision, these scholarships are generally awarded for academic or talent achievement indicated by grades earned in high school and college course work, test score such as ACT or SAT Reasoning Test, participating in extracurricular activities and other criteria defined by the specific scholarship programs.

### **Institutional Scholarships**

The University awards a number of academic scholarships through university funds and donations made available by friends and supporters. A student's financial need will be considered in making an award decision. These scholarships are generally awarded for academic achievement indicated by grades earned in college or high school. Students must meet the criteria to apply for the various scholarships that are offered.

### **Competitive Scholarships for Non-Resident Fee Waivers**

The recipient of a competitive institutional scholarship of at least \$1,000.00 for the academic year and/or summer for which the student is enrolled may be entitled to pay in-state tuition rates. That means non-resident students may receive the benefit of resident tuition. An official academic college/departments scholarship committee must award the scholarship and the recipient must compete with other students, including Texas residents. The scholarship award must total \$1,000.00 or more.

Students participating in the University Academic Scholarship Program may receive an out-of-state tuition waiver as long as they are in good standing and there are no mandated changes by Prairie View A&M University or the Texas Legislature.

### **College and Departmental Scholarships**

For information on specific college and departmental scholarships, contact those offices directly.

### **Academic Scholarships**

The scholarship office is dedicated to helping undergraduate students with scholarship needs. The scholarship office awards undergraduate students with academic scholarships through university funds and through funds made available by friends and supporters. The scholarship office processes all scholarships for the university and hosts a list of outside scholarships that are available. All scholarship awards are based on available funds.

Prairie View A&M University scholarships are awarded on the basis of academic achievement and/or financial need. Academic achievement is indicated by grades earned in high school and college course work, test scores, such as SAT Reasoning Test or ACT, participation in extracurricular activities, and other criteria defined by the specific scholarship programs.

*Please remember the following information:*

- Admission to the University is required for scholarship consideration.
- Scholarships are awarded by the University's Banner Financial Aid Management System. However, a signed Scholarship Agreement is required for disbursement.
- University Admissions application will serve as the official scholarship application.
- There is not a deadline for University Scholarships. Awards will be made based on available funding.
- Students may not receive more than one University Academic scholarship.

### ***Regents' Student Merit Scholarship***

The Regents' Student Merit Scholarship is the University's most prestigious award. The Regents' scholarship is \$10,000 per academic year (\$40,000.00 over eight semesters.) The Regents' scholars will also receive additional funding up to the cost for 15 semester credit hours, housing, and books (\$600 per semester), constituting a full scholarship to the University. Scholars are also eligible for University out of state waivers. The criteria for the scholarship are as follows:

- Must have graduated from a high school within 12 months of enrolling at
- Student cannot be considered a transfer student from another college or university.

- Must have a minimum 3.50 cumulative high school GPA. (3.50 on a 4.0 scale)
- Must have a minimum 1760 SAT Reasoning Test or 26 composite ACT score. Please note, the SAT Reasoning Test and ACT writing component (essay) is required.
- The Regents' Student Merit Scholarships are renewable up to four years (eight semesters) provided the student maintains a 15 Hour Semester Load and minimum 2.0 cumulative GPA.

### ***Presidential Academic Scholarship***

The Presidential Academic Scholarship is \$9,200.00 per year (\$36,800.00 over eight semesters). The criteria for the Presidential scholarship are as follows:

- Must have graduated from a high school within 12 months of enrolling at
- Student cannot be considered a transfer student from another college or university.
- Must have a minimum 3.25 cumulative high school GPA. (3.25 on a 4.0 scale)
- Must have a minimum 1650 SAT Reasoning Test or 24 composite ACT score. Please note, the SAT Reasoning Test and ACT writing component (essay) is required.
- The Distinguished Achievement Academic Scholarships are renewable up to four years (eight semesters) provided the student maintains a 15 Hour Semester Load and minimum 3.0 cumulative GPA.

### **Distinguished Achievement Academic Scholarship**

The Distinguished Achievement Scholarship is \$6,400.00 per year (\$25,600.00 over eight semesters). The criteria for the Distinguished Achievement scholarship are as follows:

- Must have graduated from a high school within 12 months of enrolling at Prairie View A&M University .
- Student cannot be considered a transfer student from another college or university.
- Must have a minimum 3.00 cumulative high school GPA. (3.00 on a 4.0 scale)
- Must have a minimum 1500 SAT Reasoning Test or 21 composite ACT score. Please note, the SAT Reasoning Test or ACT writing component (essay) is required.
- The Presidential Academic Scholarships are renewable up to four years (eight semesters) provided the student maintains a 15 Hour Semester Load and minimum 3.0 cumulative GPA.

### **Transfer Scholarships**

The transfer scholarship criteria are as follows:

- Degree Distinguished Transfer Scholarship: Cumulative transfer GPA of 3.50 with an AA, AS or AAS. Award: \$3,600.00 per year.
- Degree Transfer Recognition Scholarship: Cumulative transfer GPA of 3.25 with an AA, AS or AAS. Award: \$3,000.00 per year.

- Degree Transfer Achievement Scholarship: Cumulative transfer GPA of 3.00 with an AA, AS or AAS. Award: \$2,400.00 per year.
- Distinguished Transfer Scholarship: Cumulative transfer GPA of 3.50 with a minimum of 24 non-PVAMU college hours completed. Award: \$2,400.00 per year.
- Transfer Recognition Scholarship: Cumulative transfer GPA of 3.25 with a minimum of 24 non-PVAMU college hours completed. Award: \$1,800.00 per year.
- Transfer Achievement Scholarship: Cumulative transfer GPA of 3.00 with a minimum of 24 non-PVAMU college hours completed. Award: \$1,200.00 per year.
- Transfer Incentive Award: Cumulative transfer GPA of 2.50 – 2.99 with 15 transferable semester credit hours; THEA exempt or all sections passed. Award: \$1,000.00 per year.

### **Private Scholarships**

Private scholarships are scholarships that are not controlled by the University. These scholarships are awarded through the individual donors themselves and the money is sent to Prairie View A&M University to be disbursed.

### **Enrollment Verification**

If a scholarship donor needs proof that you are enrolled for a particular semester, contact the Scholarship Office, (936) 261-1000, with the address of the donor and your name and social security number or utilize Panthertracks for enrollment verification.

### **How Are They Disbursed?**

Scholarships are applied to your tuition each semester. The University must confirm that you have been accepted and have enrolled full time in courses before payment will be made. If you know that you will be enrolled less than full time, you will need to have your donor or department contact the scholarship office to approve payment of your scholarship(s).

If you receive the scholarship in cash and you are receiving any other type of financial aid, you are still obligated to notify us. We may be required to adjust your financial aid package.

Occasionally, a donor will send the scholarship check directly to you. Please forward the scholarship check to the Office of Student Financial Aid/Scholarship Office, and it will be processed accordingly (endorse checks made payable to you or both you and Prairie View A&M University before forwarding).

### **Outside Scholarships**

The donor should send your scholarship check, made payable to Prairie View A&M University, and a cover letter to:

Prairie View A&M University  
Office of Student Financial Aid & Scholarships  
Attn: Director of Student Financial Aid  
P. O. Box 519; MS 1005  
Prairie View, Texas 77446

The cover letter should include your name and student identification number and directions for disbursement. It is also helpful to have your name and student identification number on the check in the memo section of the check as well. Some donors send checks co-payable to you and the University. This means you must go to the Office of Student Financial Aid Services on or after the first day of class and sign the check before it can be applied to your tuition. This can cause unnecessary delays and may be an inconvenience to you. Checks made payable to Prairie View A&M University on your behalf will enhance our ability to credit your account quickly.

### **How to Apply**

Applications are due every year on or before March 15th for the following academic year. Applicants for scholarships must apply for admission to the University and must complete the application for financial aid commonly called the Free Application for Federal Student Aid (FAFSA). For more information, see sections on Admissions and Financial Aid.

### **Grants**

Grants are gift funds which do not have to be repaid and are awarded only on the basis of financial need. A student's Award Letter will contain grants whenever guidelines and funding levels permit. Grants, other than the Federal Pell Grant, are offered to students with a low Expected Family Contributions (EFC).

### **Federal Pell Grant**

A Federal Pell Grant, unlike a loan, does not have to be repaid. Generally, Pell Grants are awarded only to undergraduate students who have not earned a Bachelor's or professional degree. For many students, Pell Grants provide a foundation of financial aid to which other aid may be added.

To determine if you're eligible financially, the U.S. Department of Education uses a standard formula, established by Congress, to evaluate the information you report when you apply. The formula produces an EFC number. Your Student Aid Report (SAR) contains this number and will tell you if you're eligible.

How much you get will depend not only on your EFC, but also on the cost of attendance, whether you're a full-time or part-time student, whether you attend Prairie View A&M University for a full academic year or less.

Prairie View A&M University will credit the Pell Grant funds to your account. Prairie View A&M University will pay you at least once per semester.

## **Teacher Education Assistance for College and Higher Education (TEACH) Grant Program**

Through the College Cost Reduction and Access Act of 2007, Congress created the Teacher Education Assistance for College and Higher Education (TEACH) Grant Program that provides grants of up to \$4,000 per year to students who intend to teach in a public or private elementary or secondary school that serves students from low-income families. If you are interested in learning more about the TEACH Grant Program, you should contact the financial aid office.

### ***Effective Dates***

The first TEACH Grants will be awarded to eligible students for the 2008-2012 school year.

### ***Conditions***

In exchange for receiving a TEACH Grant, you must agree to serve as a full-time teacher in a high-need field in a public or private elementary or secondary school that serves low-income students (see below for more information on high-need fields and schools serving low-income students). As a recipient of a TEACH Grant, you must teach for at least four academic years within eight calendar years of completing the program of study for which you received a TEACH Grant. **IMPORTANT:** If you fail to complete this service obligation, all amounts of the TEACH Grants that you received will be converted to a Federal Direct Unsubsidized Stafford Loan. You must then repay this loan to the U.S. Department of Education. You will be charged interest from the date the grant(s) was disbursed. Note: TEACH Grant recipients will be given a 6-month grace period prior to entering repayment if a TEACH Grant is converted to a Direct Unsubsidized loan.

### ***Student Eligibility Requirements***

To receive a TEACH Grant you must meet the following criteria –

1. Complete the Free Application for Federal Student Aid (FAFSA), although you do not have to demonstrate financial need.
2. Be a U.S. Citizen or eligible non-citizen.
3. Be enrolled as an undergraduate, post-baccalaureate, or graduate student in a postsecondary educational institution that has chosen to participate in the TEACH Grant Program.
4. Be enrolled in coursework that is necessary to begin a career in teaching or plan to complete such coursework. Such coursework may include subject area courses (e.g., math courses for a student who intends to be a math teacher).
5. Meet certain academic achievement requirements (generally, scoring above the 75th percentile on a college admissions test or maintaining a cumulative GPA of at least 3.25).
6. Sign a TEACH Grant Agreement to Serve (see below for more information on the TEACH Grant Agreement to Serve).

### ***High-Need Field***

High-need fields are the specific subject areas identified below:

1. Bilingual Education and English Language Acquisition.
2. Foreign Language.
3. Mathematics.
4. Reading Specialist.
5. Science.
6. Special Education.
7. Other identified teacher shortage areas as of the time you begin teaching in that field. These are teacher subject shortage areas (not geographic areas) that are listed in the Department of Education's Annual Teacher Shortage Area Nationwide Listing at <http://www.ed.gov/about/offices/list/oep/pol/tsa.doc>.

As of July 2, 2010, a recipient of an initial TEACH Grant who has received an academic degree, or expertise, in a field that was, at the time the recipients signed the TEACH Grant Agreement to Serve, designated as high-need, but no longer has that designation, can fulfill the service obligation associated with TEACH Grant by teaching in the high-need field.

### ***Schools Serving Low-Income Students***

Schools serving low-income students include any elementary or secondary school that is listed in the Department of Education's Annual Directory of Designated Low-Income Schools for Teacher Cancellation Benefits

<https://www.tcli.ed.gov/CBSWebApp/tcli/TCLIPubSchoolSearch.jsp>.

***TEACH Grant Agreement to Serve***-- Each year you receive a TEACH Grant, you must sign a TEACH Grant Agreement to Serve that will be available electronically on a Department of Education Web site. The TEACH Grant Agreement to Serve specifies the conditions under which the grant will be awarded, the teaching service requirements, and includes an acknowledgment by you that you understand that if you do not meet the teaching service requirements you must repay the grant as a Federal Direct Unsubsidized Loan, with interest accrued from the date the grant funds were disbursed. Specifically, the TEACH Grant Agreement to Serve will provide that –

- For each TEACH Grant-eligible program for which you received TEACH Grant funds, you must serve as a full-time teacher for a total of at least four academic years within eight calendar years after you completed or withdrew from the academic program for which you received the TEACH Grant.
- You must perform the teaching service as a highly-qualified teacher at a low-income school. The term highly-qualified teacher is defined in section 9101(23) of the Elementary and Secondary Education Act of 1965 or in section 602(10) of the Individuals With Disabilities Education Act. Your teaching service must be in a high-need field.
- You must comply with any other requirements that the Department of Education determines to be necessary.
- If you do not complete the required teaching service obligation, TEACH Grant funds you received will be converted to a Federal Direct Unsubsidized Stafford Loan that you must repay, with interest charged from the date of each TEACH Grant disbursement.
- Your teaching service must in a high-need field.



## IMPORTANT REMINDER

***If you receive a TEACH Grant but do not complete the required teaching service, as explained above, you will be required to repay the grants as a Federal Direct Unsubsidized Stafford Loan, with interest charged from the date of each TEACH Grant disbursement.***

### **Toward Excellence, Access and Success (TEXAS) Grant Program**

The purpose of the program is to provide a grant of money to enable well-prepared eligible students to attend public and private nonprofit institutions of higher education in Texas.

#### ***Who can compete for an award?***

A student who:

- is a Texas resident;
- graduated from a public or accredited private high school in Texas no earlier than fall 1998;
- has completed the recommended or advanced high school curriculum or its equivalent;
- has a financial need;
- has applied for any available financial aid or assistance;
- enrolls at least 3/4 time in an undergraduate degree or certificate program; and
- has not been convicted of a felony or a crime involving a controlled substance.

Students who continue at Prairie View A&M University and who meet program academic standards can receive awards for up to 150 semester credit hours or for six years, whichever occurs first. In the first year of college, the academic standards are set by Prairie View A&M University. In subsequent years, the requirements are completion of at least 75% of the hours taken in the prior semester, plus an overall grade point average in college of at least 2.5 on a 4.0 scale.

### ***Federal Supplemental Educational Opportunity Grant***

A Federal Supplemental Educational Opportunity Grant (FSEOG) is for undergraduates with exceptional financial need - that is, students with the lowest EFC and gives priority to students who receive Federal Pell Grants. An FSEOG does not have to be paid back.

The U.S. Department of Education guarantees that Prairie View A&M University will receive enough money to pay the Federal Pell Grants of its eligible students. There is no guarantee that every eligible student will be able to receive an FSEOG; students at Prairie View A&M University may be awarded an FSEOG based on the availability of funds.

You can receive between \$100 and \$4,000 a year, depending on when you apply, your level of need, the funding level of Prairie View A&M University and the policies of the

University. Prairie View A&M University will directly credit your account. Prairie View A&M University pays students at least once per semester.

### ***Texas Tuition Assistance Grant Program***

This program provides a grant equal to the tuition and mandatory fees for selected eligible students attending Prairie View A&M University.

To be eligible to apply, a student must:

- be a Texas resident;
- be enrolled full-time;
- meet academic progress requirements of Prairie View A&M University ;
- not have a baccalaureate degree;
- show financial need;
- have graduated from a secondary school within the past 24 months;
- have a cumulative high school grade point average equal to 80/100;
- not have ever been convicted of a felony;
- for continuation awards, maintain a cumulative college grade point average which exceeds or equals 2.5 on a 4.0 scale.

The maximum grant available is the lesser of the student's financial need the tuition and fee allowance available to him or her. The tuition and fee allowance is equal to:

- a) at public community colleges: actual tuition and mandatory fees to be paid.
- b) at all other institutions: the amount of tuition and mandatory fees which would be paid if the student attended a public university.

### **Federal Work-Study**

#### ***What Is Federal Work-Study?***

The Federal Work-Study Program provides jobs for undergraduate and graduate students with financial need, allowing them to earn money to help pay for their education expenses. The program encourages community service work and work related to the student's course of study.

#### ***How Much Will I Make?***

Your Federal Work-Study wages will be at least the current federal minimum wage, but it may be higher, depending on the type of work you do and the skills required. Your total Federal Work-Study award depends on when you apply, your level of need and the funding level of your school.

#### ***How Will I Be Paid?***

If you're an undergraduate or a graduate student, you'll be paid by the hour. No Federal Work-Study student may be paid by commission or fee. Your school must pay you at least once a month. Your school must pay you directly, unless you request that the school

make payments to your bank account, or use the money to pay for your institutional charges such as tuition, fees, room and board.

### ***Are Federal Work-Study Jobs On-Campus Or Off-Campus?***

Both. If you work on campus, you'll usually work for your school. If you work off campus, your employer will usually be a private nonprofit organization or a public agency, and the work performed must be in the public interest.

### ***Can I Work As Many Hours As I Want?***

No. The amount you can earn cannot exceed your total Federal Work-Study award. When assigning work hours, your employer or financial aid administrator will consider your class schedule and your academic process.

### ***Texas B-On-Time Loan Program***

The purpose of the Texas B-On-Time Loan program is to provide eligible Texas students no-interest loans to attend colleges and universities in Texas. If the student meets specified goals, the entire loan amount can be forgiven upon graduation.

Your institution's financial aid office will determine if you are eligible. In many cases the amount of federal aid for which the student is eligible must be deducted from the cost of attendance in determining the BOT loan amount. If this loan is offered to you, the financial aid office will instruct you to complete an application/promissory note on-line.

### ***Eligibility Requirements – Applicants must:***

- Have completed a FAFSA and be eligible to receive federal financial aid;
- Be enrolled full time in an undergraduate degree or certificate program at an eligible institution, and;
- Be a Texas resident or be entitled to pay resident tuition rates as a dependent child of a member of the U.S. armed forces, and;
- Have graduated in the 2002-2003 academic year or later from a high school operated by the U.S. Department of Defense or under the recommended high school program from a public or accredited private high school in Texas, or;
- Have earned an associate's degree from an eligible institution no earlier than May 1, 2005

### ***Persons who have earned a bachelor's degree are not eligible for B-On-Time loans.***

- Annual Loan Amounts for 2011-2012
- 4-year public and private institutions: \$3,550/semester (\$7,100/year)
- 2-year public and private junior colleges: \$945/semester (\$1,890/year)
- Public technical colleges: \$1,770/semester (\$3,540/year) a 3% origination fee will be deducted from the loan proceeds

### ***Renewal Eligibility***

To maintain eligibility for future disbursements, the student must:

- In the first academic year – make satisfactory academic progress toward a degree or certificate as determined by the institution.
- In the second and subsequent academic years – complete at least 75% of the semester credit hours attempted in the most recent academic year and have a cumulative GPA of at least a 2.5 on a 4.0 scale (or the equivalent) on all course work previously attempted at institutions of higher education.

A student may not receive B-On-Time loans for more than 150 hours.

### ***FORGIVENESS REQUIREMENTS***

A Texas B-On-Time Loan shall be forgiven if the student receives an undergraduate degree or certificate from an eligible institution and the student either:

- A. Graduated with a cumulative GPA of at least a 3.0 on a four-point scale, within:
  - Four calendar years after the date the student initially enrolled in an eligible institution;
  - Five calendar years after the date the student initially enrolled in an eligible institution; if the degree is in architecture, engineering, or any other program determined by the board to require more than 4 years to complete
  - Two calendar years after the date the student initially enrolled in a public or private two-year institution; or,
- B. Graduated with a cumulative GPA of at least 3.0 on a 4.0 scale, with a total number of credit hours (including transfer hours and hours earned exclusively by examination) that is more than six hours beyond what is required to complete the degree or certificate. Hours earned exclusively by examination and dual credit hours should not be included in the total credit hours.

Forgiven BOTH loans must be reported to the IRS as taxable income.

### ***Federal Student Loans***

Prairie View A&M University administers loan programs for students who need financial assistance. Loans are often a part of a financial aid package and they provide students with an opportunity to invest in their future. Loans are available to students attending school at least halftime. Payment on the loan may be deferred until after graduation or termination of half-time or full-time enrollment. The student is responsible for repaying their loans.

All students borrowing under the William D. Ford Federal Direct Loan Program (subsidized or unsubsidized) for the first time at Prairie View A&M must complete Direct Loan entrance counseling. This requirement applies even if a student has borrowed at another school. Loan checks will not be disbursed until entrance counseling and a loan

test have been completed. Students can complete Direct Loan Entrance Counseling via our web page at <https://studentloans.gov/myDirectLoan/index.action> in advance of the date their check is to be disbursed.

All loan funds will be disbursed in two payments. The first check will be disbursed at the beginning of the enrollment period or when funds arrive, the second will be disbursed mid-way through the enrollment period.

**All first time, first year, freshmen undergraduate borrowers will have a 30 day delay on the disbursement of their initial Federal Stafford (subsidized or unsubsidized) Loan checks.**

### ***William D. Ford Federal Direct Loan Program***

**The Federal Direct Subsidized Loan** is a need-based loan whereby a student borrows money directly from the federal government. Students must be enrolled at least half-time and have a financial need to borrow in this program. Students should not submit a loan application to a lender until their financial need has been determined by Prairie View A&M University.

The federal government will pay the interest on these loans until the time repayment begins, which is six months after the student graduates or ceases to be enrolled at least one-half of the normal course load, or when a student withdraws from an institution. A minimum payment of \$50 must be made monthly (but may be higher depending on the total amount borrowed). The loan funds generally must be repaid within 10 years from the date repayment begins.

**Federal Direct Unsubsidized Loans:** The unsubsidized loan terms and conditions are the same as subsidized, such as loan limits, deferments and interest rates with a few exceptions. However, students are responsible for any accruing interest during in-school, grace and authorized deferment periods. Interest accruing during those periods may be paid or capitalized as agreed by the borrower and lender.

### **Federal Direct Parent Loan for Undergraduate Students (Federal PLUS) Program**

The Federal Direct PLUS Loan is available to the parents of a dependent undergraduate student to help pay educational costs. Parents borrow directly from the federal government. In order to apply, the pre-application must be sent to the Department of Student Financial Aid. Since a family must submit the FAFSA to the Federal Central Processor before a student can borrow a Federal Stafford Loan, Prairie View A&M University strongly advises families to file the FAFSA early to establish eligibility. This will help avoid delays in receiving the maximum loan eligibility early in a semester when cash flow is critical.

The annual Federal Direct PLUS Loan limit is the cost of attendance minus other financial aid the student is receiving. All Federal Direct PLUS loans are made co-payable

to the institution and parent borrower or be electronically transferred from the Department of Education to the institution.

*Please Note: To ensure timely processing, parents should complete both the pre-application and the U.S. Department of Education's online promissory note via our web page at <https://studentloans.gov/myDirectLoan/index.action>.*

## **Private Educational Loans (Alternative Loans)**

### **What is a Private Educational Loan?**

These are private lender loans and are not part of the Federal Family Education Loan Program (Stafford and PLUS). These loans have different eligibility requirements and loan terms (repayment, interest rate, etc.). You should always follow the three steps of Financial Aid. International students do not qualify for Federal Loans and can therefore skip to the “What questions should I ask” section below.

### **The 1,2,3 Steps of Financial Aid**

1. First, always seek free aid such as Grants, Scholarships, Work Study, or any funds that you do not have to repay. This often requires the completion of the [FAFSA](#).
2. Next, seek Federal Education Loans with interest rate caps, generous repayment terms and various repayment options. These include the Federal Direct, Perkins, Parent PLUS, and Grad-PLUS loans.
3. Last, if you must, apply for Private Education loans.

### **Types of Private Loans**

Lenders often have two types of private loans. One that requires schools to certify (or approve) the loan and one that does not require school certification. Normally, students get a better interest rate on the private loans that the school certifies. Regardless of which loan you select, we are required to coordinate your private loan with your other financial aid when we become aware of the loan even if we were not required to certify the private loan.

### **What does a Private Educational Loan do?**

Private loans make up the difference between the cost of attendance and available financial aid.

## **What questions should I ask?**

Do you offer any discounts in repayment?

What are the interest rates?

Is the interest rate based on Prime or

LIBOR? LIBOR tends to be a more stable interest rate over time.

How often will the interest rates change?

How much above the base rate are you willing to pay?

Is a co-signer required?

Is there a co-signer release option?

Is there a lower interest rate with a co-signer?

Are there any loan origination fees?

Are there any repayment fees?

Are there any pre-payment fees?

Are there late payment fees? If so, when are the late fee accessed?

How are my payments applied to my balance?

Can I defer payments while in school?

Is there a grace period after I leave school before I began repayment?

What are the repayment options?

Can I have combined billing with my Stafford loans?

## **Know Your Interest Rates**

Lenders will use the US Prime rate, 91-day T-Bill or the 3 month London LIBOR rate as their base rate for the interest rate they charge. For example, the lender may say that for “excellent credit” they offer of LIBOR plus 1%. See the latest key market rates at <http://www.bloomberg.com/markets/rates/keyrates.html>.

## **How do I apply?**

You may apply for a Private Educational (Alternative) Loan via our web page at <http://www.pvamu.edu/pages/1630.asp>. Select the “Apply for an Alternative Loan” option then go to the Loan Application tab.

## **Loan Borrower Responsibilities**

When you take out a student loan, you have certain responsibilities. Here are a few of them:

When you sign a promissory note, you're agreeing to repay the loan according to the terms of the note. The note is a binding legal document and states that you must repay the loan - even if you don't complete your education, aren't able to get a job after you complete the program, are dissatisfied with, or don't receive the education you paid for. Think about what this obligation means before you take out a loan. If you don't repay your loan on time according to the terms in your promissory note, you may go into default, which has very serious consequences.

You must make payments on your loan even if you don't receive a bill or repayment notice. Billing statements (or coupon books) are sent to you as a convenience, but you are obligated to make payments even if you don't receive any reminders.

If you apply for a deferment or forbearance, you must continue to make payments until you are notified that the request has been granted. If you do not do this, you may end up in default. You should keep a copy of any request form you submit, and you should

document all contacts with the organization that holds your loan. You must notify the appropriate representative (school, agency, lender, or the Direct Loan Servicing Center) that manages your loan when you graduate, withdraw from school, drop below half-time status, change your name, address, Social Security Number or transfer to another school. If you borrow a Perkins Loan, your loan will be managed by the school that lends you the money or by an agency that the school assigns to service the loan. If you borrow a Direct Loan, it will be managed by the Direct Loan Servicing Center. During your entrance counseling session, you'll be given the name of the representative that manages your loan.

Regardless of the type of loan you borrow, you must receive entrance counseling before you are given your first loan disbursement, and you must receive exit counseling before you leave school. These counseling sessions will be administered by your school and will provide you with important information about your loan. Your lender or the Direct Loan Servicing Center will provide you with additional information about your loan.

If you default on your loan, your school, the lender or agency that holds your loan, the state and the federal government may all take action to recover the money, including notifying national credit bureaus of your default. This may affect your credit rating for a long time. For example, you may find it very difficult to borrow from a bank to buy a car or a house.

In addition, if you default, the agency holding your loan may ask your employer to deduct payments from your paycheck. Also, you may be liable for expenses incurred in collecting the loan. If you decide to return to school, you are not entitled to receive any more federal student aid. The U.S. Department of Education may ask the Internal Revenue Service to withhold your income tax refund and apply it toward the amount you owe.

### **Revised Satisfactory Academic Progress Policy (effective May 15 2008)**

#### **Introduction**

Prairie View A&M University is required by federal law (34 CFR 668.16 (e)) to define and enforce the standards of Satisfactory Academic Progress (SAP). All students receiving financial aid from federal, state and/or Prairie View A&M University sources must be making Satisfactory Academic Progress at Prairie View A&M University to establish and retain eligibility for student financial aid. Enrolled students applying for financial aid for the first time must demonstrate Satisfactory Academic Progress prior to applying for financial aid and must continue to meet Satisfactory Academic Progress standards.

SAP is measured at the end of every financial aid academic year (May). Once the Financial Aid Office receives the student's financial aid application for processing, the student's academic progress is measured using two components: Qualitative and Quantitative Measures of Academic Progress. If the student does not meet the minimum requirements for the two components, the student is not eligible for federal assistance. Students who have not improved their academic standing are placed on financial aid suspension and notified by letter and/or email that their aid has been cancelled for the



subsequent terms. Hence, students who are identified as making insufficient academic progress and continue to seek financial assistance, have the option to appeal.

### **Qualitative Measures of Academic Progress**

The qualitative measure of academic progress is based on a grading scale of 0.00 to 4.00 and the students' enrollment classification.

<b>Classification</b>	<b>Grade Point Average Requirement</b>
Undergraduate Students	Minimum 2.00 GPA
Nursing Students	Minimum 2.00 GPA
Graduate Students	Minimum 3.00 GPA
Incoming freshmen, graduate and transfer students	Eligible for financial aid upon admission to the University

*Once undergraduate students have attempted 24 hours, they must have achieved at least a minimum 2.00 cumulative grade point average. After attempting 12 hours, graduate students, must have a minimum cumulative 3.00 GPA.*

Students must successfully complete at least 75% of their credit hours at Prairie View A&M University. The following table provides an example of the number of credits a full-time student may attempt and successfully complete each semester:

<b>Undergraduates</b>		
<b>Semester</b>	<b>Credits Attempted</b>	<b>Minimum Credits Completed</b>
1	12	9
2	24	18
3	36	27
4	48	36
5	60	45
6	72	54
7	84	63
8	96	72
9	108	81
10	120	90

Semester	Credits Attempted	Minimum Credits Completed
11	132	99
12	144	108
13	156	117
14	168	126
15	180	135

**Graduates**

Semester	Credits Attempted	Minimum Credits Completed
1	9	7
2	18	14
3	27	20
4	36	27
5	45	34
6	54	41

Hours completed do not include the following grades; however, these hours are included in hours attempted:

Grade	Description
U	Unsatisfactory
I	Incomplete
W	Withdrawal from a course
WV	Withdrawal from the University Voluntarily
MW	Military Withdrawal

If a grade other than U, I, W, WV, and MW is received, courses that have been repeated will be counted for each enrollment as hours attempted, as well as, hours completed.

**REMEDIAL COURSEWORK**

If acceptance to a program has been confirmed, and the remedial coursework is necessary to complete the program, students may receive financial assistance for remedial coursework. Students cannot receive financial assistance for remedial coursework if their acceptance to a program is based on the completion of the remedial work.

## Maximum Time Frame

Federal regulations specify that the maximum time frame during which a student is expected to finish an undergraduate program and receive Title IV funds may not exceed 150 percent of the published length of the program. Thus, an undergraduate is allowed a maximum of 180 credit hours to complete degree requirements. Unless the student can provide documentation of a graduation date of two semesters or less at the time of the appeal, federal financial assistance for undergraduate work will not be extended beyond this time frame.

Transfer students who are considered in good academic standing from the previous schools attended will be eligible for federal Title IV funds. Transfer credits will also be included in the maximum time frame.

Graduate students will be ineligible for aid if they do not meet their degree objectives after carrying the maximum number of credit hours listed below (whether or not they have received aid for all terms):

Classification	Total Attempted Hours Including Transfer Credit	Ratio of Completed Hours to Attempted Hours
<b>Undergraduate</b> (Students working on their first baccalaureate degree)	180	75%
<b>Masters degree</b>	54	75%
<b>Doctoral Degree</b>	94	75%

## Financial Aid Probation

***Prairie View A&M students that meet the criteria outlined below will automatically be placed on financial aid probation and will continue to be eligible for federal student aid:***

### *Deficient Student Grade Point Average*

1. If undergraduate student has less than a cumulative 2.00 GPA, but has a 75% or greater completion rate;
2. If graduate student has less than a cumulative 3.00 GPA, but has a 75% or greater completion rate.

### *Deficient Student Completion Rate*

1. If undergraduate student has a 2.00 GPA or greater, but student course completion rate is less than 75%;

If graduate student has a 3.00 GPA or greater, but student course completion rate is less than 75%.

### **Financial Aid Suspension**

*Students that meet one or more of the criteria below are no longer eligible for financial aid:*

1. Graduate students that have attempted 54 hours or more;
2. Doctoral students that have attempted 94 hours or more;
3. Graduate students that are attempting a second degree (i.e. third, etc.);
4. Undergraduate student has attempted 180 hours;
5. Student currently does not meet the required Satisfactory Academic Progress Grade Point Average and completion rate;
6. Student has taken greater than 12 hours as a Conditional Graduate Student;
7. Students participating in a graduate certification program that is not ATCP.

### **Appeal Process**

#### **Financial Aid Suspension Notification**

Financial Aid counselors typically assess satisfactory academic progress for each student at the end of each financial aid academic year. However, student academic records for mid-year transfer or reinstatement cases are reviewed to determine eligibility for federal assistance. If students are not making satisfactory academic progress, notifications are sent via email or letter informing students of their noncompliance. A student may apply for financial aid reinstatement by requesting a financial aid appeal. The financial aid appeal process allows the student to explain extenuating or unforeseeable circumstances that may have hindered the student's academic progress.

Step 1: Student must begin the financial aid reinstatement process by downloading the Financial Aid Appeal form from the [Financial Aid web page](#). Extenuating circumstances (i.e. student injury or illness, death of student's relative, and/or other circumstances resulting in undue hardship to student) should be clearly documented.

Decision	Description
<b>Pending</b>	Additional information is needed to render a decision.
<b>Financial Aid Probation</b>	Student may continue to receive student financial aid. Student must have the minimum financial aid required GPA at the conclusion of the financial aid academic year.
<b>Financial Aid Probation – Reduction or Suspension of Loan Eligibility</b>	Student may continue to receive student financial aid. Student loans will be reduced or suspended for one year. Student loan reinstatement is contingent upon the student showing evidence that their academic standing improved even though they were noncompliant.
<b>Financial Aid Suspension</b>	Student no longer eligible for the period of one year. Student must enroll and pay for classes out of pocket. Reinstatement is contingent upon the students showing evidence that their academic status has improved and in compliance with the University's Satisfactory Academic Progress Policy.

Step 2: Your Financial Aid Counselor will review the appeal. The Counselor may render one of the following decisions:

Step 3: Financial Aid Counselor will communicate the decision to the student via a letter and/or University email.

## Withdrawal Policy and Procedures

*If you withdraw from the University, keep the following points in mind:*

1. To officially withdraw, undergraduate and graduate students should contact the Registrar's Office and Student Financial Services Office. If you leave the University and do not formally withdraw, you will be assigned a grade of "F" (failure) in enrolled courses.
2. Withdrawal does not eliminate your financial obligation to the University. You are still responsible for any charges owed to the University at the time you withdraw, based on the University's tuition and housing refund policies.
3. There are specific federal, state, and University withdrawal policies regarding tuition and fees, housing charges, refunds to financial aid programs and repayment resulting from withdrawal.
4. When withdrawing, there are three situations which may require an immediate repayment of financial aid funds:
  - a. If your University charges are reduced as a result of withdrawal, and it creates a credit balance on your student account, these funds may be used to repay the financial aid programs. This will depend on the amount of your financial aid and the date of your withdrawal.
  - b. If you withdrew a credit balance from your student account to use for living expenses, you may have to repay financial aid funds which are in excess of an amount determined to be reasonable for the length of your enrollment.

- c. If you withdraw during free add/drop, you are not eligible to receive any financial aid for that term, and any credit balance you withdrew from your student account must be repaid.
5. Information regarding the federal regulations for calculating refunds and repayments, and the order of programs to which we restore aid, is available at the time of withdrawal or upon request.
6. If you were eligible to receive a Federal Pell Grant while enrolled in school, your Federal Pell Grant may cover educational costs incurred prior to withdrawal, which could include housing costs, tuition and fees, and reasonable living expenses.
7. Financial aid is for enrolled students only. Federal Stafford Loans, Federal Supplemental Educational Opportunity Grant, Federal Perkins Loan, State Student Incentive Grant, and Texas State Grants cannot be disbursed after your withdrawal. Work-Study money earned prior to withdrawal will be paid. Students may not work on Work-Study after withdrawing from the University.
8. Students who receive financial aid and withdraw multiple times will be placed on financial aid suspension.

## **RETURN TO TITLE IV POLICY (R2T4)**

### **Repayment of Unearned Federal Financial Aid**

If you withdraw from school prior to completing over 60% of a term, you may be required to repay a portion of the federal financial aid that you received for that term. A pro rata schedule is used to determine the amount of federal student aid funds you will have earned at the time of withdrawal. Federal aid includes Federal Stafford Loan, Federal Perkins Loan, Federal PLUS Loan, Federal Pell Grant, and Federal Supplemental Educational Opportunity Grant.

*We recommend that you complete one class, if possible, to avoid any financial hardship imposed by this regulation. However, if you have to withdraw, it is important that you understand your financial obligations.*

### **How much will I have to repay when I withdraw from school?**

The amount of repayment depends upon the number of days that you attend school in the term, the type of financial aid that you received, and whether or not Prairie View A&M University (PVAMU) refunds your tuition and fees. The portion of the term that you do not attend represents the portion of aid that is determined to be unearned. If you are receiving loans only and PVAMU refunds the full amount of your tuition and fees, you will only be required to repay your loans in accordance with the regular repayment schedule. All other students who withdraw prior to completing over 60% of a term must repay a portion of their federal financial aid.

### **When will I have earned 100% of my federal financial aid?**

If you initiate withdrawal procedures after completing over 60% of the enrollment term, you will have earned 100% of your federal financial aid for that term and no repayment is required. The following examples refer to students who are enrolled in at least one course that meets the full length of the standard term. For 2012-13, you will have earned 100% of your federal aid if you withdraw on or after: November 05, 2012, for Fall 2012; April 1, 2012, for Spring 2013 and June 24, 2012, for Summer I 2013; July 25, 2013, for Summer II 2013 and July 10, 2013 for summer (Full 10 week) 2013. If you are only enrolled in courses that are shorter than the full length of the standard term, the date that you have earned 100% of your federal aid will vary.

### **When does the PVAMU Treasury Services Office refund tuition and fees?**

If you withdraw from PVAMU prior to the drop/add deadline for a term, then a full tuition refund will automatically be processed for you. Contact the University Cashiers at 936-261-1903.

### **How is the amount of the federal aid repayment calculated?**

1. Earned federal financial aid is prorated according to the percentage of the semester completed. The amount of unearned federal aid is the total amount of federal aid less the portion of earned federal aid.
2. The amount of unearned federal aid is divided into the following two categories:
  - A. Unearned Federal Aid Attributed to School Charges: (Regardless of the order and method in which tuition and fees are paid, unearned federal aid is attributed to school charges first, then to non-school expenses.)
    - PVAMU is required to return all unearned federal aid attributed to school charges. This means that a portion of your tuition and fees is no longer covered by financial aid, and you are liable for paying the balance of your school charges.
    - All unearned federal aid attributed to school charges is subject to immediate repayment by you unless you are eligible for a tuition and fee refund.
  - B. Unearned Federal Aid Attributed to Non-School Expenses:
    - For unearned aid allocated to the federal loan programs that is attributed to non-school expenses, you are not required to make immediate repayment. The regulation allows repayment to be made in accordance with the regular repayment schedule of the loan.
    - Federal grant repayment is limited to 50% of the initial unearned aid allocation.

## **The John B. Coleman Library**

The John B. Coleman Library, a five-story building constructed in 1988, holds over 390,000 volumes, including over 800 print periodicals. The Library has access to several thousand electronic journals and online resources, many of which are full-text. The Library serves as a partial Federal Document Depository and holds close to 10,000 government documents with electronic access to 30,000 electronic additional titles. The Library is a member of Amigos (A Regional Library Consortium) and TexShare (A Statewide Cooperative), which provide access to resources at all State supported institutions, both online and through reciprocal on-site borrowing privileges.

Information is provided at several public service points in the Library, including the General Information Desk, the Reference Desk, the Circulation Desk, the Periodicals Room, and the Government Documents Center, which are all located on the first floor. The Periodicals Service Center houses periodicals, reports, and newspapers in hard copy and microform. The Reference Department provides library orientation, information literacy instruction and research assistance for students, faculty and community patrons. Interlibrary loan service is available in the Circulation Department for obtaining materials not held by Prairie View A&M University. The library is fully automated with computer terminals available for public use and access to the Internet, and a fully integrated library technology system to support all library operations and technical services.

Online access to the library collection is available through the Voyager Online Public Access Catalog. The Library subscribes to close to 80 online databases that provide access to over 55,000 research journals that are available campus-wide and from off-campus locations. Reserve materials, and audio-visual media and equipment are available at the Circulation Desk. The Special Collections Department on the 5th floor houses a number of unique collections, including the University Archives, and a rare book collection. The Delco Exhibit and an African American Art Collection are displayed in the 4th floor Art Exhibit Space. The Library provides Distance Library Services for students who attend classes at the following distant learning sites: The College of Nursing, located in the Texas Medical Center in Houston, Texas; and the Northwest Graduate Center in Spring, Texas.

For a full description of Library Resources and Services, see the John B. Coleman Library web-site at <http://www.pvamu.edu/library>.



## **University Identification Card**

A Panther card has many purposes. Primarily, your Panther Card is your official university ID. Your Panther card is also a debit account that is accepted as a form of payment at many locations on and off campus if the student has funds available. Student must have a university student identification number or UIN and must be registered for the current school term.

There is no fee for the initial ID card received upon entry to the University. The replacement cost for a University Identification Card is \$35.00 and is subject to change without notice. In order to receive a replacement card the student must present a valid photo ID (i.e. state issued driver's license or identification card, a passport, a military identification card, or a school identification card) and must be enrolled in the current school term. There are no exceptions to this requirement. The University Identification Card Office is Located in The Willie A. Tempton Memorial Student Center (MSC) room 107. Office hours are 8:00 am to 5:00 pm. The office contact number is (936) 261-1700.

## **Information Technology Services**

The Information Technology Services (ITS) department's vision is to build and support a campus that never closes. The IT department provides educational and administrative computing services to students, faculty, and staff.

The services include: Internet, Internet 2, Web, Email, Distance Education, Virus Protection, and Virtual Private Network, FTP, Wireless, Campus Web Calendar, Electronic Document Management, Student Information System, and Helpdesk operations. A team of professionals are also available for strategic planning, problem solving, grant and proposal writing and partnering, computer lab designs, custom reporting, disaster recovery planning, technology consulting, seminars and training.

Currently, there are over 4500 computers available to students campus-wide. The IT department manages five (5) Student Computer Centers (J.B. Coleman Library – Room 210; Farrell Hall; Willie A. Tempton Memorial Student Center – Internet Café; College of Nursing – Houston, TX; Graduate School – Houston Northwest Center) with over 450 State-of-the-Art computers and printers. These Student Computer Centers are designed to support general-purpose educational computing needs and are funded by and available to all enrolled Prairie View A&M University students.

Additionally, the ITS department provides technical resources and support to various specialized departmental labs that are designed to enhance the academic skills of targeted groups of students. These specialized labs are in general managed and funded by the appropriate departments/colleges.

The Student Computer Centers provide flexible hours of operation that include extended week-day hours and support for weekend access. Computing resources are available for applications such as e-mail, Internet browsing, word processing, data/statistical analysis

and multimedia presentations. Enrolled students are able to view their personal information, class schedules, available class courses and sections, grades, financial records, library resources, University catalogues, financial aid information, and more online.

Upon admittance to the University, the ITS department creates a Computer User ID and a Password that allows students to access their personal email and other authorized computer services.

The IT department also provides and supports wireless computer technology throughout the main and remote campuses. This technology is currently available in the Library and all educational buildings to facilitate anywhere, anytime access to University-sponsored computing resources with the goal of enhancing the student learning experience.

For additional information regarding ITS department's services or to reach the ITS Helpdesk, please call (936) 261-2525, E-mail [its@pvamu.edu](mailto:its@pvamu.edu), or visit <http://www.pvamu.edu/its>

## **Career and Outreach Services**

Evans Hall (936) 261-3570

The Department of Career and Outreach Services has the unique role of providing programs and services that assist both graduating and continuing students in obtaining professional employment. The department provides services for employment, and combinations of recruitment, cooperative education (co-op), and summer intern employment opportunities in the various academic fields offered at the University. In collaboration with each University department and college, Career Services works to inform students about career opportunities available in the marketplace. Career Services offers a variety of seminars and workshops on resume writing, interviewing skills, dressing for success, on-the-job survival, salary negotiation and more.

The Career Services hosts several hundred business and industry recruiters annually. The Career Center's primary responsibility is to establish relationships with recruiters throughout the United States and abroad. During each academic year, two University career fairs are sponsored to bring employers and students together to discuss full-time, internship and co-op opportunities. The Career Center also provides assistance for current and former students seeking information on graduate and professional schools and various fellows programs.

Cooperative education (co-op) and internship programs are provided to combine students' academic education with on-the-job training. The primary focus of each is to enhance a student's placement opportunities by offering paid (or in some cases, unpaid) temporary employment within their particular field of study. Co-op programs involve alternating semesters of on-campus instruction with off-campus employment resulting in a meaningful professional and educational experience. Internships provide employment opportunities for students during the summer months. The objectives are to better prepare students for immediate employment upon graduation, and assist students in the

development of attitudes and skills conducive to effective performance in professional positions.

Students who are in good standing are eligible to participate in a co-op and internship program after a successful completion of 30 hours of college course work, with a minimum 2.5 grade point average. Students must apply at least one semester in advance of the semester they wish to be employed. Applications are available in Career Services. Most departments have established a number of elective semester hours that may be satisfied through approved Co-op or internship program participation. To receive academic credit for the co-op or intern experience, a student must formally apply with Career Services and register for a co-op or internship course through their academic department.

For more information visit the Career Services website at [www.pvamu.edu/careerservices](http://www.pvamu.edu/careerservices) or stop by Evans Hall, Room 210.

### **Student Counseling Services**

Owens-Franklin Health Center (936) 261-3564

Student Counseling Services (SCS) is a department within the Division of Student Affairs. Our mission is to assist students in overcoming obstacles to their personal and academic goals that may impede their development. This mission is accomplished by offering individual, couples, marital, academic skills, and group counseling for students and through outreach presentations, referrals, crisis intervention training and consultation to the campus community. Our global efforts are in the areas of retention, prevention, and intervention. Therefore, the SCS staff wholeheartedly commits to create a learning environment where students feel safe, respected and valued as they address difficult concerns and learn alternative ways of coping that will be beneficial beyond their collegiate years. These confidential services are free to currently enrolled students at PVAMU. SCS also provides referral services for those students who may benefit from counseling services that extend beyond the 10-session limit for personal counseling or from services not offered at SCS. A counselor will explain the referral process with the student on an individual basis. In addition, Student Counseling Services offer 24 hours on-call crisis counseling. Our hours operation are below:

#### **Office Hours**

##### **(Fall/Spring):**

Monday – Wednesday	8:00 a.m. – 7:00 p.m.
Thursday – Friday	8:00 a.m. – 5:00 p.m.
Saturday	9:00 a.m. – 2:00 p.m.

##### **(Summer):**

Monday – Thursday	7:30 a.m. – 5:00 p.m.
Friday	8:00 a.m. – 12 Noon

For more information visit the Student Counseling Services website at [www.pvamu.edu/studentcounselingservices](http://www.pvamu.edu/studentcounselingservices), stop by Owens-Franklin Health Center in Suite 226, or call 936-261-3564.

## **Disability Services**

The Office of Diagnostic Testing and Disability Services ensures equal access for students with disabilities to all curricular opportunities offered by the University. The office provides leadership in advocating for the removal of attitudinal and physical barriers that may impede progression toward achievement of the student's educational objectives.

Students requesting services must self-identify and meet relevant legal requirements each semester. Guided by the medical and psycho-educational documentation, academic accommodations that support student success are recommended to faculty and staff.

### **ADA Resources**

In addition, the Office provides leadership to the campus community to ensure compliance with ADA legal requirements for access. It is the role of the Office to establish a clear set of policies and procedures that define the responsibilities of the University and the person eligible for accommodations. Accommodations may include: extended time for testing and or assignments, interpreter services, note taker assistance, use of tape recorder, books on tape membership and other accommodations as needed. Assistive technology services include loaner wheel chairs, adapted computers, accessible housing and parking, as well as colored overlays for dyslexic readers. Also, as appropriate, the Office makes referrals to other campus support services and external agencies.

Students who suspect they may have a learning disability may contact the Office to arrange pre-assessment screening interview and possible subsequent individualized psycho-ed testing. For information about eligibility, academic accommodations, diagnostic testing, support services and referrals, visit Evans Hall, Room 317.

#### **Grievance Procedure – Steps to Resolution**

**Informal Grievance:** Students who wish to raise a specific grievance regarding the University's compliance with the Americans with Disabilities Act (ADA) may request assistance from the Office of Diagnostic Testing and Disability Services to informally resolve the issue with faculty or staff.

**Formal Grievance:** Students electing to file a formal grievance must complete the Complaint Form in the Office of Diagnostic Testing and Disability Services. The grievance should be submitted within 30 business days of the incident.

Graduate disputes should follow the procedure outlined in the Division of Academic Affairs.

The Director of Diagnostic Testing and Disability Services will conduct an impartial investigation and attempt to resolve the grievance, as appropriate, using the following steps:

1. Review the grievance Complaint Form from the student
2. Interview witnesses
3. Obtain additional information from the student, as needed
4. Obtain a response and any additional information deemed necessary from the Respondent
5. Document and assess the finding of facts, including those agreed upon and those disputed
6. Attempt a resolution of the grievance between the student and the Respondent as deemed necessary
7. Make a determination based on the substantiated facts provided

A Determination Letter of the findings will be provided to the student and the Associate Vice President for Student Affairs. If the complaint is substantiated, the Determination Letter will outline how the student accommodations should be addressed. The student, the Respondent, and, as appropriate, the department head, and dean will be notified in writing of the outcome of the complaint.

The Director of Diagnostic Testing and Disability Services will complete the investigation and report within 30 days unless mitigating circumstances occur and it is approved by the Vice President for Student Affairs and Institutional Relations. If the grievance is against the Office of Diagnostic Testing and Disability Services, the Complaint Form should be submitted to the Associate Vice President for Student Affairs who will then determine the appropriate person for conducting the investigation.

## **Appeals**

The student may appeal in writing the determination made by the Director of Diagnostic Testing and Disability Services to the Vice President for Student Affairs and Institutional Advancement by filing a written appeal within five (5) business days of receipt of the Determination Letter.

The Vice President for Student Affairs and Institutional Advancement will conduct a review with advice from the Office of General Counsel of the student's appeal within 15 business days of receipt. The review will determine if the appeal:

1. Alleges “new” facts, which if true, would demonstrate a violation of an anti-discrimination statute or regulation;
2. Contains “new” allegations that appear to be substantially credible;
3. Addresses a violation, which if true, results in a personal wrong to the grievant; and
4. Is not frivolous.

If the Vice President for Student Affairs and Institutional Advancement finds that the appeal does not meet all of the above criteria, he/she will terminate the appeal and notify the student.

If the Vice President for Student Affairs and Institutional Advancement finds that the complaint meets all of the above criteria, he/she will conduct a complete review of the “new” information and make a determination. The Vice President for Student Affairs and Institutional Advancement will conduct interviews and obtain information, as deemed appropriate and necessary, and will draw a conclusion to uphold, modify, or reverse the original determination by the Director of Diagnostic Testing and Disability Services.

The Vice President for Student Affairs and Institutional Advancement will issue his/her final report in response to the appeal. The report will summarize actions taken and determination made. The determination of the Vice President is final.

## **Safety and Security Services**

Prairie View A&M University is dedicated to ensuring the physical security and personal safety of its community members. The University strives to provide all students, faculty, and employees with a safe environment in which to learn and work. Achieving and maintaining this environment requires that all persons commit themselves to being responsible, active participants in the exercise of safety and security. Members of the University community must be knowledgeable of the rules and procedures governing the maintenance of a safe, secure environment.

To promote the safety and security of the campus and its community members, Prairie View A&M University has established both the Department of Environmental Health and Safety and the University Department of Public Safety. For information on safety training or to report unsafe conditions please call (936) 261-1745, 1746 or 1743, visit [www.pvamu.edu/ehs](http://www.pvamu.edu/ehs) or email [EHS@pvamu.edu](mailto:EHS@pvamu.edu).

The Prairie View A&M University Department of Public Safety operates 24 hours daily and provides police, fire, civil defense, and other emergency services to the University. Officers enforce University regulations as well as county and municipal ordinances, and state and federal laws. As peace officers, they are vested with all powers, privileges and immunities of peace officers while in the performance of their duties.

To request non-emergency responses to fire, medical or police situations call (936) 261-1375 on campus. In emergency situations, call (936) 857-4911 or 4911 directly from any University extension.

## **Residential Life and Housing Services**

### **General**

Five modern day residential communities provide living and learning centers for enrolled University students. Each facility is staffed with personnel charged with the general responsibility for the welfare of the student occupants and care of the facility. Students assist in planning residence life programs and related activities. They also help develop

standards of conduct, determine social regulations and create an atmosphere that promotes wholesome living and productive study in the living and learning communities.

Services provided in the residential communities include full kitchens (in University Village), study areas, meeting areas, telephones, cable TV, exercise rooms, computer rooms, lounge areas, microwave ovens and micro fridge units (in University College), vending areas and parking. The University reserves the right to conduct unannounced inspections of rooms for health, welfare, safety and security of assigned residents.

Because Prairie View A&M University is a residential campus, undergraduate students are encouraged to live in on-campus, university housing where they can benefit from the living and learning environment experience. Regularly enrolled students who do not live in university housing are classified as commuter students. Undergraduate students who fall into one or more of the following categories are eligible to apply for commuter student status:

1. Students living at home with their parents or legal guardians (within 50 miles)
2. Married students
3. Veterans of military service
4. Graduate students
5. Students engaged in off-campus assignments or affiliations
6. Students enrolled for less than 12 hours for the semester

### **Availability**

Due to the ever increasing desire of our growing student population to live in on-campus housing, it is not possible to provide housing to all students that enroll in the fall semester. Because of this fact, we strongly encourage students to complete the application process and all of its requirements prior to July each year.

### **Parking**

All students who operate vehicles on campus must register their vehicles and obtain a parking hangtag. This fee for the hangtag is not automatically assessed to the students' accounts. It is solely the student's responsibility to ensure that this is done. This fee covers the cost of operating the parking department and upgrades to parking facilities. All students who fail to register their vehicles will be ticketed and/or towed at the owner's expense. This fee is non-refundable after the 12th class day of each semester. The University's Parking Office is located in the Harrington Science Building, Room 117. Please call (936) 261-1701 for more details.

Persons with Physical disabilities may request a handicap permit and will be issued a special parking permit. Sufficient documentation of disability must be provided by a physician.

All visitors are required to stop at the Information Center located at the main entrance to the campus to obtain a parking permit. The hours of operation for the Information Center are Monday-Friday from 7:00 a.m. to 4:00 p.m.

### **Dining Services**

All students residing in University Village and University College are required to participate in the Residence Dining meal plan. The University's campus dining services are offered in the Memorial Student Center and present students, faculty, staff, and guests with a complete commercial food service operation. Located on the first floor, the dining facility has the capacity to feed over 2,000 customers at any given meal period. This facility is equipped with five serving stations that offer customers unlimited servings and a wide variety of food selections.

The Classic Station (main line) offers a premium entree, a starch and a choice of two vegetables. The Grill Station has a changing menu selection of all-time favorites that include hamburgers, grilled cheese, french fries, and other grill favorites. The Deli Station is a special treat for customers who enjoy tasty sandwiches with a variety of breads that are made to order, the Pizza Station which offers cheese, pepperoni and a specialty pizza daily, and finally the International Station which changes lunch and dinner to different cultural cuisines. In addition, our Residence Dining customers can enjoy unlimited servings from the salad bar, dessert station, waffle station (during breakfast), beverage bar, and soup station.

The dining services are extended to faculty, staff and guests. The University also offers Ala Carte services in Pardus, the faculty and staff dining facility. Three entrees are served daily, including a selection of vegetables, soup and salad, flavored iced tea and a variety of desserts. The retail dining facility offers a made-to-order deli, the grill that serves a variety of foods that include specialty burgers, fish, limited time only specials (McRib's, Sliders), a made to order stir-fry station, and Chick-fil-A. This area also serves ice cream, juices, salads, gourmet cookies and many more favorites to please the palate. Also offered are Jazzman's Café located in the John B. Coleman Library and The Purple Zone located in Ferrell Hall. Jazzman's Café has all your special coffee delights along with smoothies, fresh homemade pastries, cookies, soup and specialty sandwiches. The Purple Zone is the place to visit to satisfy your late night dining needs opening at 4:00 P.M. with a menu of late night staples such as hot wings, fried chicken, hamburgers and quesadillas all cooked to order.

All students who reside in University College and University Village are required to participate in the University Board Program. If a meal plan preference is not selected, the 17 meal plan will automatically be assigned. In addition, points associated with meals are not refundable at the end of the term if unused.

All pre-registered students may change their previous selection (prior to the 5th class day) through Auxiliary Enterprises office located in the Memorial Student Center, room 107(936)261-1700



## **Laundry Services**

The University Laundry & Dry Cleaners, located in Farrell Hall, offers premium-quality laundry and dry-cleaning services to students, employees. The service is included with the meal-plan program and can also be deducted from the student University ID card. Laundry supplies are available for sale on-site, and there is always an attendant on-duty to ensure the best possible services. Please call for more detail (936)261-1328.

## **Shuttle Services**

There is no charge to get onto the shuttle bus for students, faculty and staff. You must obtain your University ID to ride the shuttle. Both shuttles are equipped with ADA seating package. We can aim to make your experience as enjoyable and as comfortable as possible. Shuttle stops are located throughout the campus. Choose the route and the stop that best serves your needs. The drivers are only allowed to stop at the designated stops. No standing, sitting in aisles, eating, drinking, animals, weapons, smoking allowed on the shuttle. Shuttle Service is located in Farrell Hall room 104. (936)261-1140

## **Summer and International Enrichment Programs**

### **Pre-College Success Programs**

#### ***Academy for Collegiate Excellence and Student Success (ACCESS)***

The Academy for Collegiate Excellence and Student Success (ACCESS) is a “bridge to college” program that provides intensive preparation and support for students who want to be successful in college. ACCESS has three key strategies: intensive academic enhancement, effective advisement coupled with centralized support services and a structured, academically-focused residential environment. The curriculum for the “academic boot camp” concentrates on learning strategies which address the skill areas of Problem Solving and Critical Thinking. The students attend daily classes in Composition, Critical Thinking, Math, Reading, Problem Solving and nightly study halls and specialized workshops. ACCESS students participate in leadership training, social/personal development activities and cultural enrichment experiences. These activities broaden students’ horizons and require them to utilize the critical thinking and problem solving skills they are developing in the classroom. Since 2006 ACCESS has included service learning in its pedagogy. The students participate in common reading/writing assignments that center around social problems in America today and perform services related to these areas. Student reflection is a critical piece. ACCESS promotes the concept that “A good college affirms that service to others is a central part of education.” (The Carnegie Foundation) ACCESS students continue to surpass the average retention and graduation rates of their peers at PVAMU.

Participants must be residents of the state of Texas and recent high school graduates or GEDs. Participation is competitive. Students must complete an entrance survey and participate in an interview process.

**Application Deadline:** April 30, but students are accepted beginning in December.

**Cost:** \$500.00; a small number of fee waivers are available.

**Contact:**

Mrs. Lettie Raab

ACCESS

P.O. Box 519: M.S. 3000

University College

Prairie View, Texas 77446

Office: (936) 261-5900

Fax: (936) 857-1079

Email: [lmraab@pvamu.edu](mailto:lmraab@pvamu.edu)

### **Pre-College Enrichment**

Since the summer of 1984, Prairie View A&M University has sponsored the Institute for Pre-College Enrichment (PCI), a two-week residential summer program, for talented high school students. The mission for PCI is to help prepare students for the new school year and assist them in making early plans to pursue a college education in an area that interest them most. Many of the former participants have enrolled at Prairie View A&M University or other universities upon graduation from high school. Currently, PCI and selected academic units co-sponsor the program with 6 workshops to help the students plan and prepare for college and future careers. Students entering the twelfth grade are assigned to a senior's on Track Group and receive emphasis on essay writing, college application, funding for college, scholarship awareness and leadership. In the workshops, the students are:

- Assessed in reading, counseled and encouraged to read as much as possible, expand vocabulary and sharpen critical thinking skills;
- Assessed in math, review math concepts required for success in high school and college;
- Assessed in writing, encouraged to write frequently, improve skills and to gain an appreciation for written communication by composing letters, e-mail, course assignments, also notes and journal entries;
- Exposed to test taking skills and techniques to help prepare them for various academic skills test, TAKS, SAT Reasoning Test, ACT, etc.
- Challenged to return to school and take rigorous academic courses that encourage one to read critically, develop math skills and write effectively.

In addition, students will learn about careers through participation in professional skills symposia and workshops listed below:

#### **The Pre College Enrichment Institute (PCI) Workshops:**

***ARTEC - Architecture Enrichment Concepts*** - offered to students interested in art, architecture, computer aided design, digital media, and construction science. ARTEC is co-sponsored by the School of Architecture.

***BASIS - Business for Academic and Scholarly Inclined Students*** - offered to students interested in the business professions with emphasis on accounting, finance, information systems, management and marketing. BASIS is co-sponsored by the College of Business.

***HELP - Helping Establish Leadership in the Professions*** - offered to individuals interested in teacher education, agriculture, criminal justice, law, psychology, sociology, social work, human science, and communications. HELP is co-sponsored by the Colleges of Agriculture & Human Sciences, and Education.

***MITES - Minority Introduction to Engineering and Science*** - offered to highly competitive students interested in engineering, engineering technology, computer

science, physics, chemistry and mathematics. MITES is open to all ethnic groups and is co-sponsored by the Roy G. Perry College of Engineering.

***SCOPE - Science Careers Opportunities Enhancement*** - offered to highly competitive students interested in becoming a medical doctor, dentist, veterinarian, nurse, physical therapists, physician's assistant or other allied health professional. SCOPE is co-sponsored by the College of Arts and Sciences and the Department of Biology.

***TAME – Theatre Arts and Music Enrichment*** - offered to students interested in acting and musical theatre, singing, band and directing, and those interested in careers teaching music and drama and in the entertainment business. TAME is cosponsored by the College of Arts and Sciences and Department of Music and Drama.

**Qualifications:** Students who are completing grades 9, 10, and 11 with a minimum 2.50 GPA are eligible to apply. Admission is competitive and is based on the student's academic record; achievement tests scores, and essay and counselor recommendation. The PSAT, SAT Reasoning Test and or ACT scores are considered, if available. Texas students TAAS/TAKS scores will be considered and may be a factor in the selection process.

**Cost:** \$450.00 per student. Deadline to apply is April.

**Contact:**

Career & Outreach Services  
P.O. Box 519, Mail Stop 1028  
Prairie View, Texas 77446  
Office: (936) 261-3570 Fax: (936) 261-3580

***Office of Student Engagement (Formally Student Activities and Leadership)***  
Suite 221, Memorial Student Center, (936) 261- 1340

The Office of Student Engagement is charged with offering programs and services that enhance student development through exposure to and participation in diverse and relevant social, cultural, intellectual, recreational, community service, leadership development, and campus governance programs.

The wide array of student organizations offered at the University include: the Student Government Association, Campus Activities Board, Panther Advisor Leaders (PALS), Gold Members Club, the Council of Student Organizations (CSO), Student Publications, and the National Pan-Hellenic Council.

Additionally, the Cheerleaders, the Panther Dolls, Back to Basics Life Skills Enhancement Program and Mr. and Miss Prairie View A&M University are advised by staff members in Student Engagement.

### **Johnson-Phillip All Faiths Chapel**

The Chapel (936) 261-3590

If students are looking for a place to develop and nurture their spiritual relationship with their Creator, the Johnson-Phillip Chapel provides a space for all faiths to exercise their participation in campus ministry. Through the Chapel, student development is enhanced through exposure to various faith seminars, cultural exchange, intellectual and spiritual dialogue and service.

Regular, special, and community services sponsored by the Chapel include: Ash Wednesday service, Tuesday Noonday Meditation/Prayer service, Outreach through Fellowship and Faith (O.F.F.) and weekly Bible study.

### **Veterans Services**

Evans Hall (936) 261-3563

The Office of Veterans Affairs partners with on- and off- campus units to deliver services and support to veteran students in achieving their educational goals. The unique experiences of veteran students require that this office collaborate with all elements of campus life: counseling services, disability services, career services, and other entities to bring a full array of support services in play to assist veterans to persist and achieve their academic goal. This Office serves as a resource and advocate for the needs of veterans and on issues that pertain to equal access, affordability, recruitment, and retention.

### **Recreational Sports**

Leroy Moore Gymnasium, (936) 261- 9368

Recreational sports programs are viewed as essential components of higher education, supplementing the educational process through enhancement of students' physical, mental, and emotional development. Students who participate in recreational sports tend to develop positive self-images, awareness of strengths, increased tolerance and self-control, and maturity – all gleaned from recreational sports experiences and their mantra Play it for life!

The University joins this view and will begin construction of a new state of the art recreation and wellness center that will host a variety of activities that satisfy the diverse needs of students, faculty, staff members, and where appropriate, guests, alumni, and public participants. This office urges students to get involved.

### **Office of Student Conduct**

Evans Hall, (936) 261-3560

Civility inside and outside of the classroom is a University priority and when students cannot abide by the rules, they usually receive a communication from the Office of Student Conduct. This Office develops and enforces standards of conduct for students as an educational endeavor with benefits in social and personal development. Standards of

conduct form the basis for behavioral expectations in the living/learning environment and prepare students for the responsibilities of citizenship.

Integrity, wisdom, and empathy are among the characteristics most important to the administration of student conduct standards and the University charges the Office of Student Conduct to utilize these characteristics to discharge their duties in a fair and consistent manner.

### **Office of Equal Opportunity/Title IX Coordinator**

A.I. Thomas Administration Bldg., Ste. 013, (936) 261-2123

*No person in the United States shall, on the basis of sex, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any education program or activity receiving Federal financial assistance."Legal Citation: Title IX of the Education Amendments of 1972, and its implementing regulation at 34 C.F.R. Part 106 (Title IX)*

Each university receiving Federal financial assistance must designate at least one professional employee as the Title IX Coordinator to oversee compliance efforts and investigate any complaint of sex discrimination.

The Title IX Coordinator is responsible for monitoring the overall implementation of Title IX for the university and coordinating compliance with Title IX in all areas covered by the implementing regulations.

Adoption of procedures to provide prompt and equitable resolution of complaints is a critical function of the Title IX Coordinator. The Coordinator can assist persons alleging sexual harassment or discrimination in filing their grievance(s) and/or oversee the step-by-step procedure to be sure that appropriate time frames are met.

In carrying out this responsibility, the Coordinator may work in concert with other university officials, including the Associate Vice President of Student Affairs and the Student Conduct Officer. If the Title IX Coordinator does not conduct the investigation of complaints, the Coordinator should receive information about any grievances filed related to Title IX compliance. This procedure allows the institution to identify any patterns or repeat offenders that may be missed otherwise. The Coordinator should also receive sufficient information throughout the process so that the Coordinator can provide necessary guidance or information to ensure that the institution carries out its responsibilities under Title IX.

The Title IX Coordinator at Prairie View A&M University is Ms. Renee R. Williams, who also serves as Equal Opportunity Compliance Officer.

## **Special Programs and Cultural Series**

While the bulk of learning goes on in the University classrooms and research labs, the Office of Special Programs and Cultural Series works to keep the learning going. Students are able to explore many intellectual topics presented by guest lectures and national figures in the Students Participating in Transcendent (S.P.I.T.) Knowledge lecture series. Other initiatives with an aim to assist students to develop include health and wellness programs, a domestic violence self-defense mini-course, and Relay for Life.

As the University increase in the number and diversity of students, the Office of Special Programs and Cultural Series provides programs that respond to a changing demographics and changing social agenda across the nation. This program seeks to provide a clear and cogent introduction to a multitude of important issues while responding to the need to enhance and dovetail the overall classroom experience.

### ***Research Apprentice Program (RAP)***

The RAP is a six-week summer enrichment program for high school students entering the junior or senior year. The program is designed to offer “hands-on” educational and research experiences in academic disciplines in the food and agricultural sciences. Projects and activities are designed to help participants gain insight about the scientific base of food and agriculture sciences research through classroom lectures and laboratory experiments, field trips, workshops and seminars, and work with scientists in various research projects. Students gain new information, enhance critical and analytical thinking, improve Math, English, Science and Computer Skills, and receive guidance about college majors and future career choices within the food and agriculture sciences. Program outcomes include improved knowledge, skills, understanding, awareness, and appreciation for the opportunities and career choices in the food and agricultural sciences.

### **Qualifications:**

The high school students who are:

- A US citizen or US Permanent Resident
- In the upper 1/3 of their class
- Entering the junior or senior year when returning to school
- Interested in pursuing a college degree program in the food and/or agricultural sciences

### **Contact:**

Alfred L. Parks  
Research Director  
Cooperative Agricultural Research Center  
P. O. Box 519, MS 2008  
Prairie View, Texas 77446  
Office: (936) 261-5000  
Fax: (936) 261-9975  
Email: [alparks@pvamu.edu](mailto:alparks@pvamu.edu)

## **College Level Success Programs**

### ***Architectural Concepts Institute (ACI)***

The ACI program is designed for academically well-prepared entering and transfer students. It is structured to accelerate their entry into the study of architecture by completing some of the freshman courses during the summer prior to their regular admission in the fall. Each student may complete up to twelve semester hours of architecture courses in the design sequence during a very intensive ten-week summer session. These sessions will allow each student to test his or her capabilities and interests in architecture while earning credit toward the Bachelor of Science in Architecture degree. Upon successful completion of these courses, coupled with careful selection and scheduling of other courses, the student may complete the five year professional architecture program early.

Admission to the program requires application to the university and receipt of either an honors admission or regular admission. Space is limited. Prospective participants should contact the School of Architecture during fall or spring semester of their senior year in high school to request additional information and materials.

#### **Contact:**

Dr. Ikhlas Sabouni, Dean  
School of Architecture  
P.O. Box 519, MS 2100  
Prairie View, TX 77446  
Office: (936) 261-9800  
Fax: (936) 261-9826

### ***The Roy G. Perry College of Engineering Enhancement Institute (CE2I)***

The Roy G. Perry College of Engineering Enhancement Institute (CE2I) is an innovative and intensive summer bridge-to-college program designed to prepare students for the rigors of an Engineering, Computer Science, or Technology Curriculum and to aid with the transition between high school and college. The Institute is a five-week residential program, where participants will complete coursework in Math, Science, Technology, and Professional Development Activities. The Institute is math intensive. A math assessment test will be administered initially to determine the appropriate math placement. The program goal is to achieve a mastery of one math level higher than the student placed when he/she entered the program. The program will also introduce students to basic concepts in chemistry, physics, and computing. Students will experience professional development activities including field trips to area engineering and technology industries; personal and professional development seminars and workshops (i.e. time management, study skills, learning style inventories, effective use of study groups and seven (7) habits of successful people).



Exceptional opportunities for summer internships and scholarships result from the CE2I experience.

**Contact:**

Dr. Kendall T. Harris

Dean

Roy G. Perry College of Engineering

P.O. Box 519, MS 2500

Prairie View, TX 77446

Office: (936) 261-9890

Fax: (936) 261-9868

Email: [ktharris@pvamu.edu](mailto:ktharris@pvamu.edu)

### ***The International Study Abroad Program***

International experiences expand students' understanding and deepen their knowledge of the world, thus better preparing them for a life of service and professional productivity in the ever increasing global marketplace.

Students participating in the study abroad programs must be approved by an advisor, department or division head, and dean. In selecting programs abroad, they should assess at the outset whether proficiency in a language other than English is required or preferred.

Applicants for the study abroad programs are to present evidence of the following:

- Completion of a minimum of 30 semester credit hours of college level work;
- Enrollment in the University during the semester of application for study abroad plans to enroll in the University during the semester or summer terms that the student expects to be abroad;
- Attainment of a minimum undergraduate GPA of 2.50;
- Attainment of a minimum graduate GPA of 3.0;
- Agreement to participate in all applicable orientations to the study abroad program;
- Coverage by health insurance that is acceptable by medical providers in the countries of destination;
- Commitment to complete the study abroad assignments;

Applications for Study Abroad Programs should be directed to the Center for International Studies and Research, Room 102, Woolfolk Building, or call (936) 261-3200.

## Tuition and Fees

Registration at the University consists of enrolling in classes and paying required fees and charges. Registration cannot be completed and no student can be formally in a class until all required fees and charges, including any prior balances, are paid to the Office of Treasury Services.

### Fee Payment Plans

Prairie View A&M University offers the following fee payment plans for the payment of tuition and fees:

1. Full Payment In Advance  
Full payment of tuition and fees is made in advance of the beginning of the semester (by the last business day prior to the 1<sup>st</sup> class day).
2. Installment Payment Plan (Fall/Spring semesters only)  
Payment of thirty-four percent (34%) of tuition and fees in advance (by the last business day prior to the 1<sup>st</sup> class day) of the beginning of the semester, payment of thirty-three percent (33%) on or prior to the first Friday in October for Fall and prior to the first Friday in March for Spring ; and payment of the final thirty-three percent (33%) on or prior to the first Friday in November for Fall and the first Friday in April for Spring.

\*Payment plan options are subject to change in the future.

**If you elect the installment payment plan option, you must consent to an agreement that states the following:**

*"I accept and agree to pay all tuition, fees, and charges associated with my attendance to Prairie View A&M University in accordance with the authorized payment plans. I understand I am responsible for maintaining my correct address and telephone contact information in PANTHERTRACKS. It is my responsibility to follow the degree plan as provided by my advisor. I am responsible for reading all e-mail sent to my pvamu.edu address."*

*I agree that if I have not paid 100% of my current tuition, fees, and charges by the last business day before the first class day, that PVAMU has my permission to automatically enroll me in the installment method for payment of my current tuition, fees, and charges. I understand there will be a fee assessed for enrolling in the installment method and I agree to the assessment. I understand that if I fail to make the installment payments on the date due. I will be assessed a late charge for each time I fail to meet the due date. I understand the terms for the installment method for payment of my current tuition, fees, and charges as listed on the Treasury Services web site Fee Payment Plan <http://www.pvamu.edu/pages/3526.asp> . If I should be able to pay all current tuition, fees, and charges in full prior to the first day of class, the installment payment plan fee will be reversed"....etc*

**If the above agreement has not been made by the student, full payment of total tuition & fees will be due the last business day prior to the 1<sup>st</sup> class day or on the same day the student initially registers for the term whichever comes first. The agreement can be obtained by the student on-line through Panthertracks by logging into their student account and selecting add/drop class from the Registration tab.**

## **Unpaid Obligations**

Students who do not fulfill their financial obligations when due are subject to the following actions by the University:

1. **First Installment:** Students failing to make a minimum payment of 34% (100% due for Summer sessions) of their tuition and fees at the beginning of the semester for Fall and Spring will be dropped from enrollment on the last business day prior to the 1<sup>st</sup> class day for Fall/Spring semesters. Students who are dropped will have all of their tuition and fees dropped, except that On-campus students will be required to pay a prorated portion of the board and laundry charges, if dropped from enrollment for non-payment of fees. If a student is dropped from enrollment or if the student does not plan to attend the University after registering for classes, the student **must officially withdraw from the University with the Registrar's Office by the last business day prior to the 1<sup>st</sup> class day or be held responsible for any charges or Financial Aid posted to their account.**
2. **Second and Third Installments:** Students failing to make the second and third installment payments by the required due dates will be subject to the following penalties:
  - a. Assessed \$50 installment late fee per late payment
  - b. Blocked from future registrations
  - c. Blocked from receiving official transcripts

## **Payment Options ~**

**PAYMENT BY WEB** – Pay on-line at [www.pvamu.edu](http://www.pvamu.edu). To access your account, click on “on-line services” then select “panthertracks for students” and click on “current student”. We accept Visa, MasterCard, American Express and Discover.

**CASHIER'S WINDOW** – W.R. Banks Bldg. Suite 140 from 8:30 a.m. until 3:00 p.m. Monday thru Friday. Operating hours are subject to change during the summer months.

**PAYMENT DROP BOX** – W.R. Banks Northeast corner (outside). Please drop payments in sufficient time to meet deadline dates/times.

**CREDIT CARD CALL-IN** – Treasury Service Office, (936) 261-1895 between the hours of 8:30 a.m. and 3:00 p.m. CST for Visa, MasterCard, American Express and Discover payments. Operating hours are subject to change during the summer months.

**MAIL-IN** – Prairie View A&M University (Attention: Treasury Services), P.O. Box 519, Mail Stop 1329, Prairie View, Texas 77446. Please mail in sufficient time for payments to be received in the Treasury Service Office by the deadline dates. Please indicate student's name and identification number on payment. Checks should be made payable to Prairie View A&M University. No personal checks will be accepted for past due balances.

Should you have questions about your bill, please call (936) 261-1890 .

\*Note: Please do not wait to receive a billing notice via e-mail to pay your bill. Your statement can be accessed on-line through PANTHERTRACKS for students at <http://panthertracks.pvamu.edu/>. If you register after the pre-registration period, you may not receive a billing notice via e-mail or regular mail.

## **FEES ARE DUE THE DAY COURSES ARE SELECTED**

### **Fee and Financial Aid Refunds**

Fee refunds will be given for withdrawal from the University within the time constraints described in the refund schedule sections below. A full refund of applicable tuition and fees will be given for courses dropped prior to the 1<sup>st</sup> class day.

Students who wish to withdraw from the University after registering must follow prescribed procedures for withdrawal or assume liability for all fees assessed. Withdrawal forms are available in the Registrar's Office. Students who have questions or concerns regarding the calculation of their refund may appeal by letter to the addresses below and should state in their letter the portion of the refund that is being questioned. Allow 30 days for response.

#### **Financial Aid Calculation of Fee Refunds**

Director of Student Financial Aid  
Prairie View A&M University  
P.O. Box 519, Mail Stop 1005  
Prairie View, TX 77446-0519

#### **Fee Refund Schedule**

Manager of Treasury Services  
Prairie View A&M University  
P.O. Box 519, Mail Stop 1329  
Prairie View, TX 77446-0519

### **Fee Refund Schedule**

According to Texas Education Code §54.006, the following schedule applies without exception, to tuition & required fees (excluding room, board and laundry) if a student withdraws from the University: This also means if you drop a class after classes begin you will owe the University for tuition and required fees for the course(s) dropped.

### **Tuition and Fees**

#### **Fall, Spring or 10 Week Summer Semester**

Prior to the first class day	100%
During the first five class days	80%
During the second five class days	70%
During the third five class days	50%
During the fourth five class days	25%
After the fourth five class days	None

#### **5 Week Summer Sessions**

Prior to the first class day	100%
During the first class day	80%
During the second class day	50%
Third class day and thereafter	None

Board and Laundry charge refunds will be handled as follows:

**Board Plan.** Payments made for board will be refunded in full to students who officially withdraw before the first day of official registration for that term. Refunds of actual payments on or after the first day of official registration for actual payments will be prorated on a daily basis less an early withdrawal fee of ten (10) percent of the semester rate.

**Laundry Fee.** Laundry fee refunds will be prorated on a weekly basis.

### **Financial Aid Refund Schedule**

The University is required to reimburse the Title IV (Federal Financial Aid) programs based on the percentage of these funds applied to the total charges for the first time students receiving aid from these programs according to the following schedule.

#### **Fall or Spring Semester**

Prior to registration	100%
Within week 1	90%
Within week 2	80%
Within week 3	80%
Within week 4	70%
Within week 5	60%
Within week 6	60%
Within week 7	50%
Within week 8	50%
Within week 9	40%
Within week 10	40%
After week 10	None

#### **Summer Term**

Week 1	80%
Week 2	60%
Week 3	40%
Week 4 and after	None

## **Tuition and Fees**

### **Schedule of Tuition and Fees**

**Changes to fee schedule will occur if legislature passes bills**

<i><b>Fee Name</b></i>	<i><b>Fee Description</b></i>	<i><b>Fee Rate</b></i>
<b>Tuition</b>	<p>All students are required to pay tuition to help defray the cost of instruction and general operation of the University. Tuition rates are as follows.</p> <p>Resident - Undergraduate Resident - Graduate Non-Resident -Undergraduate Non-Resident - Graduate Resident -Graduate College of Business and College of Nursing Non-resident - Graduate College of Business and College of Nursing Executive MBA</p>	<p>\$179.77 \$209.77 \$530.77 \$562.77 \$229.77 \$582.77 <i>per semester credit hour</i> <i>\$1,007.00 per S.C.H.</i></p>
<b>Lab</b>	<p>Students who register for lab courses are required to pay a Laboratory fee for each lab course to help defray the cost for lab equipment, supplies etc.</p>	<p><i>\$5.00 - \$30.00 per course</i></p>
<b>**Student Services</b>	<p>All students are required to pay a student service fee, which is used to provide recreational activities, intercollegiate athletics, student publications, and other student programs, services and activities. Maximum fee is \$160 per fall/spring semester.</p>	<p><i>\$14.00 per semester hour</i></p>
<b>**Student Center</b>	<p>All students are required to pay a student center fee, which is used to support the construction, operation and maintenance of the Memorial Student Center.</p>	<p><i>\$40.00 (fall/spring) per semester</i> <i>\$20.00 (summer) per session</i></p>
<b>*** Univ. Info. &amp; Tech. Fee</b>	<p>All students are required to pay a University Information &amp; Technology Fee to help defray the cost of "technology" equipping new buildings, implementing new student information system, and the development of a long term plan to integrate the computing technology into PVAMU classrooms.</p>	<p><i>\$16.50 per semester credit hour</i></p>
<b>**Student Health</b>	<p>All students are required to pay a student health fee to cover the cost of providing basic health care and urgent care services in the University's Health Center. Students are entitled to unlimited office visits in the University's Health Center and a 15% discount on lab, x-ray and pharmacy services.</p>	<p><i>\$105.00 per fall/spring semester</i> <i>\$37.50 per summer session</i></p>

<i>Fee Name</i>	<i>Fee Description</i>	<i>Fee Rate</i>
<b>Registration</b>	If applicable students are required to pay a fee to cover: Late Registration (fall/spring) Late Registration (summer) Registration in Absentia (resident) Registration in Absentia (non-resident)	 \$50.00 \$25.00 \$15.00 \$17.50 <i>Per semester</i>
<b>International Education</b>	All students are required to pay a fee to provide funding to assist students participating in international student exchange or study programs.	\$3.00 <i>per semester</i>
<b>***Library Access Fee</b>	All students are required to pay a Library Access Fee to help defray the cost of providing library resources.	\$16.00 <i>per semester credit hour</i>
<b>Room Rent</b>  <b>Phase I and II</b> <b>Phase II</b> <b>Phase III</b> <b>Phase III</b>	A charge assessed to students living on campus to cover the cost of operating the privately operated housing facilities.  <b>Fall/Spring Semester</b> University Village 4 bedroom-Phase I & II 2 bedroom-Phase II 4 bedroom-Phase III 2 bedroom-Phase III 4 bedroom-Phase VI University College  <b>Summer Session 2012</b> University Village 4 bedroom-Univ Vill 10 week session 5 week session 2 bedroom-Univ Vill 10 week session 5 week session  University College 5 week session  On-campus housing is not assessed automatically. It is the student's responsibility to ensure that housing is paid in full. Room rent fee will only be assessed to the student's PVAMU tuition and fee bill if the student has indicated to Housing that their financial aid will pay for their room rent. If the student's financial aid should not be enough to pay the full room rent fee or has financial aid returned, the student is responsible for paying the balance of the room rent due.	   \$2,254.50 \$2,538.00 \$2,583.00 \$2,902.50 \$2,704.50 \$2,448.00   \$1,052.00 \$ 526.00  \$1,104.00 \$ 552.00 <i>per semester</i>  \$ 550.00

## Tuition and Fees

<b>Board Plan</b>	<p>A charge assessed to all students living on campus to cover the cost of providing the following required meal plans:</p> <p><b>Fall/Spring Semester</b>  17 Meals per week, 100 points \$1,202.53  14 Meals per week, 75 points \$1,140.57  10 Meals per week, 125 points \$1,065.98  7 Meals per week, 115 points \$ 977.63</p> <p><b>Summer Session 2012</b>  17 Meals per week \$925.55  10 week session \$462.77  5 week session</p> <p>These charges are subject to State Sales Tax.</p>	
<b>***Athletic Fee</b>	<p>Fee charged to all students to help increase scholarships, help defray the cost of upgrades to facilities and equipment, and assist in salaries of coaches.</p> <p>Maximum fee is \$150 per semester.</p>	\$10.00 per credit hour
<b>Laundry Plan</b>	<p>A charge assessed to students living on campus to cover the cost of providing a centralized Laundromat. The charges assessed are:</p> <p><b>Fall/Spring Semester</b></p> <p>Summer Session  10 week session  5 week session</p> <p>These charges are subject to State Sales Tax.</p>	\$65.00 per semester      \$50.00 \$25.00
<b>I.D. Card</b>	<p>A fee assessed to all students to cover the cost of issuing identification cards and maintaining the University's card access system.</p>	\$5.00 per semester \$35.00 duplicate-per card
<b>Application</b>	<p>A fee assessed to all students applying for admission to the University. The fee helps to defray the costs associated with the admissions function.</p> <p>Application \$25.00  Late Fee \$15.00  International Student \$50.00  Graduate Student \$50.00  Doctoral Student \$50.00  Nursing Student \$60.00  Executive MBA Student \$50.00  Online MBA Student \$1,800.00  per application</p>	
<b>Auditing</b>	<p>A fee assessed to students desiring to audit a course. The fee is used to defray the administrative cost associated with providing the</p>	\$10.00 per course



	services.	
<b>Returned Check</b>	A fee assessed to students whose check for payment of their fees does not clear their bank. The fee is used to defray the costs associated with handling/collecting returned checks.	\$25.00 <i>per check</i>
<b>Certificate</b>	A fee assessed to students receiving a certificate for completing a non-degree program at the University	\$6.00 <i>per certificate</i>
<b>Diploma/Graduation</b>	A fee assessed to graduating students to help defray the costs associated with performing a degree audit and issuing a diploma to student. The fee is as follows:  <div style="display: flex; justify-content: space-between;"> <div>                     Doctoral                      Graduate (Masters)                      Undergraduate                      Late Fee                 </div> <div>                     \$55.00                      \$35.00                      \$25.00                      \$25.00  <i>per degree</i> </div> </div>	
<b>Installment Carrying</b>	A fee assessed to all students electing to pay by the installment plan. The fee is used to help defray the cost associated with record keeping and collections.	\$50.00 <i>per semester</i>
<b>Distance Learning Fee</b>	A fee assessed to all students who take only electronically-delivered courses.	\$35.00 <i>Per semester credit hour</i>
<b>Business Course Fee</b>	Fee charged to all students enrolling in Business Professional Development courses to help offset some of the expenses related to providing enhancements, speakers and support to the Professional Development Courses.	\$300.00 per course
<b>Music Applied Course Fee</b>	Fee charged to all students enrolling in Music courses involved in private instruction to help defray the cost of equipment repairs, departmental operations, equipment maintenance and purchase of new equipment.	\$45.00 - \$115.00 per course
<b>Physics Equipment Fee</b>	Fee charged to all students enrolling in Physics courses to help defray the cost of equipment, equipment repair, replacement, and necessary upgrades and modernizations.	\$50.00 per course  Maximum \$150.00
<b>Social Work Course Fee</b>	Fee charged to students enrolling in Social Work Professional Foundation related courses to help offset some of the expenses incurred by the Program.	\$25.00 - \$70.00 per course
<b>Biology Equipment Access Fee</b>	A fee assessed to students enrolling in Biology courses to help defray the cost of providing and maintaining instructional equipment.	\$60.00 <i>per course</i>
<b>College of Business Equipment Access Fee</b>	A fee assessed to students enrolled in Business courses to help defray the cost of providing and maintaining instructional equipment.	\$40.00 <i>per course</i>

## Tuition and Fees

<b>Business Advisement Fee</b>	Fee charges to all Business students to help offset the cost of Academic Advising to all business students.	\$3.00 per semester hour
<b>Engineering Instructional Enhancement/Equip Access Fee</b>	A fee assessed to all undergraduate students enrolled in Engineering courses to help defray the cost of providing and maintaining instructional equipment.	\$50.00 <i>per course</i>
<b>Engineering Graduate Course Fee</b>	A fee assessed to all graduate students enrolled in Engineering courses to help defray the cost of providing and maintaining instructional equipment.	\$100.00 per course
<b>Installment Late</b>	A fee assessed to all students who have not paid their installment payments by the due date. The fee is used to help defray the cost associated with record keeping and collections.	\$50.00 <i>per occurrence</i>
<b>Records Processing Fee</b>	Fee charged to all students to help defray the cost of producing, distributing, processing and filing printed materials handled in the Registrar's Office	\$17.00 <i>per semester</i>
<b>Vehicle Registration</b>	A fee assessed to all students operating vehicles on campus to cover the cost of providing and maintaining parking facilities.	\$46.00 (fall/spring) \$23.00 (summer ) 5 week sessions) \$46.00 (summer) 10 week sessions) \$145.00 per year-Tx Med Ctr <i>per semester</i>
<b>Language &amp; Communications Instructional Enhancement/ Equip Fee</b>	A fee assessed to students enrolled in Language & Communication courses to help defray the cost of providing and maintaining instructional equipment.	\$40.00 <i>per course</i>
<b>New Student Orientation Fee</b>	A fee assessed to all freshman and transfer students to help defray the cost of printing, mailings, auxiliary/custodial & maintenance services, Sodexo food services and the Challenge Work Course when preparing for the required New Student Orientation given to new students.	\$75.00 per freshman student \$25.00 per transfer student One Time Fee
<b>University College Course Fee</b>	A fee assessed to student enrolled in non-course based remediation to help defray the cost of administering the remediation program.	\$100.00 per course (credit hr course) \$400.00 per course (zero credit hr course)

<b>Library Fines</b>	Students who return late or lose library books will be subject to library fines.	Over-due books: \$0.25 <i>per day</i> Reserved Materials: \$0.02 <i>per day</i> minimum \$50.00 maximum Lost Book: Replacement Cost + \$15.00
<b>Nursing Undergraduate Course Fee/Laboratory &amp; Evaluation Fee</b>	A fee assessed to all undergraduate nursing majors and all undergraduate nursing majors taking specific nursing courses to pay for testing fees, clinical course fees and liability insurance required of undergraduate nursing students.	\$105.00 per course
<b>Nursing Undergrad. Course Fee/Didactic</b>		\$85.00 per course
<b>Nursing Liability Insurance Fee-Undergraduate</b>		\$8.50 per semester(fall/spr)
<b>Nursing Course Test Fee</b>	A fee assessed to all graduate nursing majors taking specific nursing courses to pay for testing fees, clinical course fees, standardized patient testing, course packets and liability insurance required of graduate nursing students.	\$97.00 - \$309.00 per course
<b>Nursing Graduate Course Fee/Didactic</b>		\$125.00 per course
<b>Nursing Graduate Course Fee/ Laboratory</b>		\$172.50-203.00 per course
<b>Nursing Liability Insurance Fee-Graduate</b>		\$35.50 per semester(fall/Spr)
<b>Student Scholarship and Endowment Fee</b>	A fee assessed to all students to create an endowment fund to be used for student scholarships and internships	\$10.00 per semester
<b>Excess Course Repeat Fee</b>	A fee assessed to all students repeating a particular course for the 3 <sup>rd</sup> time. This fee will help off-set the reduction in General Revenue appropriations.	\$351.00 per S.C.H. for the course that is repeated a third time.
<b>Academic Affairs Instr/Enhanc Fee</b>	A fee assessed to all students enrolled to help defray the cost of supporting the expansion of key academic areas and faculty and staff related services.	\$7.50 per course
<b>College of</b>	A fee assessed to all college of business courses	\$5.00 per course

## *Tuition and Fees*

<b>Business Student Support Fee</b>	to help defray the cost of tutoring services, student travel, scholarships and image building activities to promote PVAMU students to potential employers.	
<b>Agriculture &amp; Human Resources Course Fee</b>	A fee assessed to all agriculture and human resources courses to help defray the cost to provide instruction and materials for the course.	\$15.00 per course
<b>Chemistry Instructional Enhancement Fee</b>	A fee assessed to all chemistry courses to help defray the cost of instructional assistance; purchase and maintain equipment for instructional laboratories, supplemental teaching materials, and educational supplies all to provide the student with a better learning environment.	\$50.00 per course
<b>Engineering Advisement Fee</b>	A fee assessed to all engineering students to help defray the cost of specialized advising staff, student learning activities and speakers, learning rewards in limited circumstances, supplies and equipment for the center, and professional development for the advisors.	\$25.00 per semester
<b>Juvenile Justice &amp; Psychology Instructional Enhancement/Equipment Fee</b>	A fee assessed to all juvenile justice and psychology courses to help defray the cost of instructional assistance; purchase and maintain equipment for instructional laboratories, supplemental teaching materials, and educational supplies all to provide the student with a better learning environment.	\$30.00 per course
<b>University College Advisement Fee</b>	A fee assessed to all freshman students to help defray the cost of specialized advising staff, student learning activities and speakers, learning rewards in limited circumstances, supplies and equipment for the center, and professional development for the advisors.	\$100.00 (one-time fee) per freshman student
<b>Biology Experiment Fee</b>	A fee assessed to biology lab courses to help defray the cost of maintenance and repair of lab equipment and supplies.	\$20.00 per course
<b>University Band Fee</b>	A fee assessed to participants in the band to help defray the cost of expenses related to participation in the band.	\$50.00 per semester
<b>**Transportation Fee</b>	A fee assessed to all student to help defray the cost of expansion of the shuttle service in the local community and to and from the PVAMU Northwest Houston Center	\$20.00 per semester
<b>**Recreational Fee</b>	A fee assessed to all students enrolled to help defray the cost of providing a game room, classes, swimming pool, indoor track, small dining hall, workout facilities, and entertainment system/movie room.	\$175.00 per semester
<b>Loan Processing Fee</b>	A fee assessed to all students that complete a short-term loan application to help defray the	\$100 per semester per application

	cost of processing the loan application.	
<b>Architecture Studio/Lab Course Fee</b>	A fee assessed to all students enrolled in certain Architecture Lab courses to help defray the cost of supporting student's plotting and printing expenses in their education and development	\$116.00 per course
<b>Business Instr/Enhanc Fee-Undergrad</b>	A fee assessed to all college of business undergraduate students to help defray the cost of improving retaining quality faculty.	\$30.00 per course
<b>Business Instr/Enhanc Fee-Grad</b>	A fee assessed to all college of business graduate students to help defray the cost of improving retaining quality faculty.	\$150.00 per course
<b>Education Clinical Practice Course Fee</b>	A fee assessed to all college of education students enrolled in certain courses to help defray the cost of facilitating the state mandated visits and weekly seminars focusing on mentoring as support for rigorous clinical practice affecting student teachers, aspiring principals, counselors, superintendents and doctoral internships as required by state law	\$375.00 per course
<b>Education Equipment Fee</b>	A fee assessed to all college of education students enrolled in certain courses to help defray the cost of maintaining an upgraded dedicated computer lab with access for all students.	\$40.00 per course
<b>Education Test Preparation Fee</b>	A fee assessed to all college of business students enrolled in certain courses to help defray the cost of purchasing consumables for on-going assessment and computers for assessment and advising of all college students.	\$75.00 per course
<b>Language &amp; Communications Multi Media Lab Fee</b>	A fee assessed to all students enrolled in certain language and communication courses to help defray the cost of replacement of student computers and LAN hardware in the Multimedia Language Lab and the cost to maintain supervision of the lab.	\$17.00 per course
<b>Education Belize Study Tour</b>	A fee assessed to all students who participate in the Belize Study Tour	\$2,610.00 per person
<b>Education Jamaica Study Tour</b>	A fee assessed to all students who participate in the Jamaica Study Tour	\$1,925.00 per person
<b>Education Nairobi Study Tour</b>	A fee assessed to all students who participate in the Nairobi Study Tour	\$5,895.00 per person
<b>University College Access Participation Fee</b>	A fee assessed to all participants in the University College Access Program	\$500.00 per person
<b>Architecture Course Incidental Fee</b>	A fee assessed to all students enrolled in ARCH, CODE, And CONS courses to help the support student enrichment program.	\$10.00 per course

- \* Fee rates are subject to change. The most current fee rates will be published on the university web page at <http://www.pvamu.edu/pages/4174.asp> for each semester.
- \*\* Fee waived for students who take only distance learning courses and who do not reside on campus; and students who are full-time employees of the University and meet the following eligibility requirements.

The employee must be considered a full-time employee at the time he/she registers for the course and the employee must then remain a full-time employee during the entire semester in order to qualify.

The employee must complete the course satisfactorily with at least a C or above grade.

Fees must be paid when registering at the beginning of each semester in accordance with applicable regulations and procedures, including installment payments.

To receive the refund, the employee must apply within 30 days following the end of a Fall or Spring semester and within 15 days following the end of the Summer semester. Refunds will be issued only after the employee's qualifications for the waiver has been verified, including verification of full-time employee status at the time the course(s) were taken, and being enrolled in courses identified in an approved degree plan.

- \*\*\* Fee waived for students who are full-time employees of the University.

Students desiring more information about tuition and fee exemptions should contact the Office of Student Financial Aid/Scholarships Office or go to [http://www.pvamu.edu/Include/Treasury\\_Services/Forms/Exemptions%20and%20waivers.pdf](http://www.pvamu.edu/Include/Treasury_Services/Forms/Exemptions%20and%20waivers.pdf) for a list and description of exemptions and waivers provided at PVAMU.

## **Tuition and Fee Exemptions**

Tuition and fee exemptions are provided by the University to students who fall within one of the following categories and meet the criteria established by the State of Texas:

1. Highest Ranking High School Graduate (Texas Education Code §54.201)
2. Children of Deceased Texas Veterans (Texas Education Code §54.203) (b))
3. Veterans of Texas (Texas Education Code §54.203) (a)) (Hazelwood)
4. Children of Disabled Firemen and Peace Officers (Texas Education Code §54.204)
5. Blind and Deaf Students (Texas Education Code §54.205)
6. Children of Prisoners of War or Persons Missing in Action (Texas Education Code §54.209)
7. Students in Foster or Other Residential Care (Texas Education Code §54.211)
8. Texas National Guard (Tuition Assistance Program) (Texas Government Code §431.090)
9. Students Enrolled in Fully Funded Courses (Texas Education Code §54.217)
10. Concurrent Enrollment Exemption (For Students Enrolled in more than one Higher Education Institution (Texas Education Code §54.062)
11. Senior Citizens Aged 65 and older who are taking up to six (6) Semester Credit Hours (Texas Education Code §54.210 (c))
12. Spouse and Children of Certain Deceased Public Servants (Texas Education Code §615.0225)
13. Adopted Students former in Foster or Other Residential Care (Texas Education Code §54.2111)
14. Children of Professional Nursing Program Faculty & Staff (Texas Education Code §54.221 and Coordinating Board Rule, Ch. 22, Subchapter O)
15. Combat Exemption for Children of Military Service Members (Texas Education Code §54.203)
16. Exemption for Peace Officers Enrolled in Law Enforcement or Criminal Justice Courses( Texas Education Code §54.208)

Students desiring more information about tuition and fee exemptions should contact the Office of Student Financial Aid/Scholarships Office or go to [http://www.pvamu.edu/Include/Treasury\\_Services/Forms/Exemptions%20and%20waivers.pdf](http://www.pvamu.edu/Include/Treasury_Services/Forms/Exemptions%20and%20waivers.pdf) for a list and description of exemptions and waivers provided at PVAMU.

## **Tuition Waivers**

Tuition waivers are provided by the University to students who fall within one of the following categories and meet the criteria established by the State of Texas:

1. Military Personnel and Dependents Stationed in Texas (Texas Education Code §54.058 (b))
2. Teaching or Research Assistant (Texas Education Code §54.063)
3. Competitive Scholarship Waiver (Texas Education Code §54.064)
4. Students from Other Nations of the American Hemisphere (Good Neighbor) (Texas Education Code §54.207)
5. Distance Learning or Off-Campus Courses (Texas Education Code §54.218)

6. Faculty and Dependents (Texas Education Code §54.059)
7. Academic Common Market (Texas Education Code §160.07)
8. Participant in Student Exchange Program Tuition (Texas Ed Code §54.060)
9. United States Foreign Service Officers (Texas Education Code §54.070)
10. Full-time employee waiver (Texas Education Code §54.5035)

Students desiring more information about tuition waivers should contact the Admissions Office.

### **Tuition Rebate**

First-time freshmen beginning with fall 1997 may earn a \$1,000 rebate. See Texas Education code, Section 54.0065 for full disclosure. Briefly, a \$1,000 rebate will be given to students who complete their degree programs with no more than three attempted hours in excess of the minimum number of semester credit hours required for the degree.

#### *Eligible Students:*

1. First-time Freshmen entering Fall 1997 semester or later.
2. Rebate for the first baccalaureate degree from a Texas public university.
3. Only Texas residents with all attempted coursework at Texas public institutions of higher education, who paid resident tuition.
4. Have no more than three, attempted hours in excess of their catalog's required hours to graduate. Hours attempted include transfer credits, course credit earned or specific sections, and
5. Make a formal request for the rebate at the same time application for graduation is made.

### **Undergraduate Semester Credit Hour Limit**

Effective fall 1999, all resident students enrolling for the first time at a state institution of higher education in Texas will be subject to paying non-resident tuition rates for excessive undergraduate credit hours. The state has defined excessive undergraduate credit hours as attempted credit hours that exceed by at least 45 hours the number of hours required for completion of a student's declared degree plan. For students with undeclared majors, their degree plan is assumed to be 120 hours. We urge students to seek academic advisement throughout their college career, to minimize the number of excessive undergraduate hours and to avoid the higher tuition rates.

### **Webpage**

For additional information regarding tuition & fees and services provided by Treasury Services please visit our web page at [www.pvamu.edu/cashiers](http://www.pvamu.edu/cashiers)



## **Admissions Information and Requirements**

Admission to Prairie View A&M University is open to qualified individuals, regardless of race, color, religion, gender, national origin, or educationally unrelated disability. Academic preparation and commitment to succeed are major criteria for admission to the University. All inquiries about admission, application for admission, and transcripts of credit should be addressed to the Office of Undergraduate Admissions, Prairie View A&M University, P.O. Box 519, Mail Stop 1009, Prairie View, Texas 77446.

### **How Do I apply?**

Freshman applicants for college admission are those who have graduated from high school, are nearing completion of high school, have earned a General Equivalency Diploma (GED), or have satisfactorily completed fewer than 15 transferable semester credit hours. Applicants must satisfy the freshman admission requirements. All freshman applicants must submit test results from either the American College Testing (ACT) Examination or the Scholastic Aptitude Test (SAT-I).

### **Freshman Admission**

Applicants for admission to the freshman class should submit their application materials as early as possible in their senior year of high school. All students are required to submit the ApplyTexas Application for admission (available at [www.pvamu.edu/www.applytexas.org](http://www.pvamu.edu/www.applytexas.org)) and a nonrefundable \$25.00 processing fee. Transcripts submitted should include all semesters of high school credits as soon as grades are available. Applicants are requested to furnish final records immediately following graduation from high school. All students are required to have THEA (TASP) scores on file prior to registration.

### **Application**

Eligibility for admission is determined by evaluation of the completed application and supporting documents. All first time college freshmen must submit the following items to the Office of Undergraduate Admissions:

#### **Completed ApplyTexas application for admission.**

A \$25 nonrefundable processing fee which is due for each semester an applicant applies. A fee waiver may be submitted in lieu of the \$25 fee by first time freshmen students only. The university accepts only ACT or SAT Reasoning Test waivers which are obtained from the high school counselor.

Official high school transcript for all previous work showing completion, or GED certificate showing that the equivalent of a diploma has been earned.

An official SAT Reasoning Test or ACT score report. Scores must be sent directly from the testing agency. Faxed, e-mailed or scanned reports will not be accepted.

For a freshman to complete the application file and finalize the admission process, a final transcript must be sent directly from the applicant's high school. It is the responsibility of the student to request that the transcript be sent. The high school transcript must include the graduation date and rank in class. If the transcript(s) submitted as part of the application procedure are final and official, additional transcripts are not required. Faxed, emailed or scanned transcripts will not be accepted.

## **Types of Undergraduate Admission**

***Honors Admission*** (Apply separately for scholarship assistance.)

1. An official high school transcript including the following:

English:	4 credits
Mathematics:	4 credits (Algebra I and above)
Science:	3 credits (Biology, Chemistry and Physical Science)
Social Studies:	4 credits (World Hist-1, World Geography 1, U.S. Hist-1, U.S. Government- 1/2, Economics-1/2)
Foreign Language:	2 credits in a single language
Computer Science:	1 credit
2. A high school GPA of 3.5 or higher on a 4.0 scale
3. SAT Reasoning Test-I score of 1200 (Critical Reading/Verbal & Math) and ACT score of 25
4. Passage of any state mandated examination used as a high school exit examination.

## ***Automatic Unconditional Admission***

Graduate in the top 10% of high school graduating class in Texas in one of the two school years preceding the academic year for which applicant is applying for admission (TEC 51.803) as determined by high school GPA.

## ***Unconditional Admission***

1. An official high school transcript or GED
2. Passage of any state mandated examination used as a high school exit examination
3. High school grade point average that is equal to or greater than a 2.50 on a 4.00 scale
4. SAT Reasoning Test-I total score of 820 (Critical Reading & Math) or an ACT score of 17

## ***Conditional Admission***

1. An official high school transcript or GED
2. Passage of any state mandated examination used as a high school exit examination
3. High School grade point average 2.50 on a 4.00 scale
4. SAT Reasoning Test-I total score of 710-819 (Critical Reading/Verbal & Math) or an ACT composite score of 15-16.

Conditionally admitted students have one calendar year to successfully remedy academic deficiencies and demonstrate their ability to be successful in college level courses. Failure to exit within one year may result in denial of future enrollment. Release to regular admission status will be granted to students who, within a calendar year of admission or initial enrollment, must complete a minimum of 24 semester credit hours with a 2.00 cumulative GPA. Students who successfully satisfy THEA requirements may be considered for release to regular admission prior to completion of the 24 credit hours of coursework.

### ***Admission to the Roy G. Perry College of Engineering***

Admission to the Roy G. Perry College of Engineering is based on the University's undergraduate admissions requirements plus the following additional admissions criteria for the Roy G. Perry College of Engineering. For more detailed information and the categories, proceed to the Roy G. Perry College of Engineering General Information section.

### **Updating of Admissions Application for a New Term**

Students who do not enroll for the semester, for which they are accepted, must complete a new application and pay the application fee for the new semester they intend to enroll. Official documents received for a previous term may be added to their new file provided the documents were received within the prior twelve months. This must be done prior to the listed application processing deadlines in this chart.

<b>Application Area</b>	<b>Summer</b>	<b>Fall</b>	<b>Spring</b>
Undergraduate Admissions Priority Dates	April 1	June 1	November 1
International Admissions	March 1	June 1	October 1
University Village (Housing)* Upperclassman	N/A	July 1	December 1
Financial Aid	March 1	March 1	November 1
Freshmen Scholarships	N/A	March 1	N/A
Transfer Scholarships	N/A	June 1	N/A
University College (Freshman)	NA	July 1	December 1
Freshmen Scholarships	N/A	March 1	N/A

\*Assignments are on a first-come, first-served basis and are not guaranteed until the signing of the lease by all parties.

All materials required to complete the undergraduate admissions application process are due in the Office of Undergraduate Admissions according to the schedule listed above.

## **Admission Appeal Procedure**

A student who is denied admission but who has successfully completed a bridge to college enrichment program such as the Academy for Collegiate Excellence and Student Success (ACCESS), who has outstanding scores on state or national examinations that are at or above the norm for test takers in Texas or who have won awards/recognition for academic achievement, creative or scholarly performance as evidenced by an audition, portfolio, or other original product may appeal their admissions decision thirty days after the admission deadline in writing to the Admissions and Academic Standards Committee, P. O. Box 519, Mail Stop 2102, Prairie View A&M University, Prairie View, Texas 77446.

## **Special Admissions**

### ***Concurrent Enrollment for High School Students***

The Concurrent Admission Program is designed to provide a university-supervised program offering college credit to outstanding high school students. Students must meet the following requirements to be admitted to the program:

1. Complete the eleventh grade by the date of expected enrollment in college classes.
2. Cumulative high school grade point average of 2.50 on a 4.0 scale by the end of the first semester of the junior year.
3. ACT composite score of 17 or an SAT Reasoning Test-I total score of 820 (Combined Critical Reading & Math) or more.
4. Written permission from parent(s) or legal guardian(s).
5. Letter of recommendation from the high school counselor.
6. Complete all THEA sections satisfactorily or have obtained a THEA exemption prior to course registration.

A permanent college record is established once a student has completed a full term and is enrolled. The University will release the banked college credit(s) when an official transcript identifies successful completion of the high school graduation requirements. A maximum of two academic courses may be taken during the Fall, Spring or Summer semester. Courses a student may take include English, History, Mathematics, Political Science (Government), or other's approved by the dean of the school or college where the student is enrolled.

### ***Home Schooled***

Students who graduate from high schools not accredited by the Texas Education Agency or who are home schooled may be considered if they have a score of 820 (Critical Reading & Math) or above on the SAT Reasoning Test-I, or 17 or above on the ACT.

### ***Dual Credit Programs***

High-achieving seniors from local schools are offered the opportunity to enroll in selected collegiate level classes to earn credit. These banked college credits will not be issued until the student has graduated from high school and met the admission requirements. Students interested in this program should contact the Office of Undergraduate Admissions.

### ***Former Students***

Students who have previously attended Prairie View A&M University and do not enroll for courses during one or more semesters, but who wish to return, must submit an application for admission and pay an application processing fee. If a student has attended any other institution while away from Prairie View A&M University, the student will be classified as a readmitted student. Transfer credits will be evaluated and applied as appropriate.

### ***Transient Students***

A transient student is one who is currently enrolled in another college or university, is in good standing, and desires admission to Prairie View A&M University for a limited period, usually one semester or summer term. Admission as a transient student is determined after the completed application has been reviewed and approved and the application processing fee has been paid.

### ***Academic Fresh Start Admission***

According to Section 51.931 of the Texas Education Code, a Texas resident may apply for admission to the University as an undergraduate student and request that course credit or grades earned ten or more years prior to the semester the applicant plans to enroll not be considered. The applicant must meet the standards for one of the other types of admission. Students admitted under the “fresh start” option may not receive credit for any course work taken ten/or more years prior to enrollment. A student who elects the fresh start will forfeit TASP exemption normally awarded to a student who had earned 3 SCH of transferable college work before 1989.

Admitted Fresh Start applicants have “Academic Fresh Start” indicated on their official Prairie View A&M University transcript. Forfeited course work cannot be considered as prerequisites, but placement examinations are allowed for courses that were not considered for admission because of the Fresh Start. Once admitted on Academic Fresh

Start, the enrolled student cannot subsequently request that the Fresh Start policy restrictions be removed.

Students must submit a written request to the Office of Undergraduate Admission to enter under the Academic Fresh Start admission option. The Fresh Start Program provisions can be used only once at Prairie View A&M University. If an applicant has used the Academic Fresh Start Policy at a previous school, the Academic Fresh Start will remain in effect at Prairie View A&M University upon transfer.

There may be implications for financial aid and veteran's benefits for students admitted under Academic Fresh Start.

## **Admission of International Students**

All International students must comply with INS rules and regulations. Undergraduate international students must complete the application and pay the non-refundable \$50.00 application processing fee in U.S. currency. All International students must submit the following in addition to the above listed items:

1. Evidence of ability to Finance Education – Affidavit of financial support as well as certification of ability to finance study while attending Prairie View A&M University. No student should depend upon receiving an out-of-state fee waiver. Applications for such waivers must be made as part of the competitive scholarship process and is separate from the admissions process.
2. Evidence of ability to speak, write, and comprehend written and oral English language. All students must present a score of 500 on the Test of English as a Foreign Language (TOEFL) administered by the Educational Testing Service in Princeton, NJ as a part of the application process for admission to the university. Any student who graduated from a secondary education institution in the United States or who earned a score of 18 on the English Section of the ACT or a 400 on the Verbal component of the SAT Reasoning Test exempt from the TOEFL.
3. Confirmation of Immigration Status International students seeking I-20AB (Certification of Eligibility for Nonimmigrant [F-1] Student Status) must secure certification forms in person. If the form is not picked up in person, it will be forwarded by U.S. mail only.
4. Evaluation of foreign transcripts. Applicants must submit official transcripts for all high school and college work completed up to the time of expected enrollment. An evaluation of all foreign college transcripts must be completed by: Educational Credential Evaluators, Inc., P.O. Box 514070, Milwaukee, WI 53203-3470, (414) 289-3400, Span Tran Educational Services, P.O. Box 7211 Regency Square Blvd. Suite #205, Houston, Texas 77036, (713) 266-8805 or World Education Services ([www.wes.org](http://www.wes.org)), Bowling Green Station, P. O. Box 5087, New York, NY 10274-5087, (212) 966-6311

All international students admitted to the University must first report to the Immigration Services Coordinator, Harrington Science Building, Room 107D and present all

immigration documents for inspection and entry into the record. All immunization records are to be presented directly to the Owens-Franklin Health Center by the student.

All items on the application must be fully answered. All communications regarding admission to the University should be sent to: Office of Undergraduate Admissions, Prairie View A&M University, P.O. Box 519, Mail Stop 1009, Prairie View, Texas 77446.

## **General Transfer Admission**

Transfer applicants who have earned fewer than 15 semester credit hours must satisfy the regular requirements for freshman admissions. (See Freshman Admissions).

A student transferring from community/junior college or another university with 15 or more transferable semester credit hours will be admitted with a cumulative grade point average of 2.00 or higher on a 4.0 scale from the last school attended. Official transcripts of all coursework completed at each institution must be submitted. Remedial and some technical courses in which grades of “D” or “F” were earned will not be accepted. A student on academic probation or suspension from another institution is not in good academic standing and is not eligible for admission. Transfer students must satisfy all Prairie View A&M University requirements for graduation. All courses and grades transferred from other colleges and/or universities are recorded as received on the student’s academic record at Prairie View A&M University. Changes in the evaluation of transfer credit will not be permitted after one (1) year from the student’s initial evaluation at Prairie View A&M University. Grades earned at other institutions may not be used to remove a grade point deficiency acquired in residence at Prairie View A&M University.

Students wishing to transfer must submit the following items to the Office of Undergraduate Admissions:

1. Completed ApplyTexas application for admission.
2. The \$25.00 non-refundable application processing fee which is due for each semester an applicant applies. .
3. Official college/university transcript(s) from all institutions attended. Faxed, emailed or scanned transcripts will not be accepted.
4. If applicable, a written request to use the Academic Fresh Start Program, prior to admission.

If a student has successfully completed the 42-semester credit hour core mandated by the state of Texas, the student will have fulfilled the core curriculum requirements for Prairie View A&M University. A student who has not completed the core curriculum elsewhere will be required to complete the University core. A student must meet special program requirements in addition to general core curriculum requirements.

### ***Admission to the Roy G. Perry College of Engineering***

Transfer students include those from other units within Prairie View A&M University as well as those from other educational institutions. Transfer students external to Prairie View A&M University must furnish an official transcript to the Office of Undergraduate Admission for evaluation of all college level work completed. Transfer students with less than 30 semester hours of transferable credits are admitted under the criteria for first time freshmen. (See Freshman Admission).

Students with 30 semester hours or more of transferable credit must meet the following requirements:

1. Students must meet the Prairie View A&M University and the Roy G. Perry College of Engineering admission requirements.
2. Must have "C" or higher in all transfer courses.
3. Must have a minimum cumulative grade point average of 2.50 on a 4.00 scale in all math, science and engineering courses.

Students who meet these criteria will be admitted directly into a major. Those students who do not meet the criteria will need to have their records reviewed and be considered on individual merits for conditional admission by the Roy G. Perry College of Engineering.

### **Penalties**

Any applicant who provides false or misleading information for proper determination of admission and residency is subject to any or all of the following penalties:

1. Withdrawal from all classes with no refund
2. Dismissal from the institution
3. Loss of credit earned while under incorrect admission or residency status

A written appeal must be submitted to the Office of Undergraduate Admission Advisory Committee, P. O. Box 519, Mail Stop 1009, Prairie View, Texas 77446

### **Resolution of Transfer Disputes for Lower-Division Courses**

To assist students who transfer to Prairie View A&M University from other public colleges and universities in Texas, the University carefully evaluates course credits presented of acceptance toward fulfillment of degree requirements. In the event the University denies credit for a course a student has taken at another institution, notification of that denial will be transmitted to the student.

- a. The following procedures shall be followed by institutions of higher education in the resolution of credit transfer disputes involving lower-division courses:
  1. If an institution of higher education does not accept course credit earned by a student at another institution of higher education, the receiving institution shall



give written notice to the student and to the sending institution that transfer of the course credit is denied, and shall include in that notice the reasons for denying the credit. Attached to the written notice shall be the procedures for resolution of transfer disputes for lower-division courses as outlined in this section, accompanied by clear instructions outlining the procedure for appealing the decision to the Commissioner.

2. A student who receives notice as specified in paragraph (1) of this subsection may dispute the denial of credit by contacting a designated official at either the sending or the receiving institution.
  3. The two institutions and the student shall attempt to resolve the transfer of the course credit in accordance with Board rules and guidelines.
- b. If the transfer dispute is not resolved to the satisfaction of the student or the sending institution within 45 days after the date the student received written notice of denial, the sending institution may notify the Commissioner in writing of the request for transfer dispute resolution, and the institution that denies the course credit for transfer shall notify the Commissioner in writing of its denial and the reasons for the denial. The Commissioner or the Commissioner's designee shall make the final determination about a dispute concerning the transfer of course credit and give written notice of the determination to the involved student and institutions.
  - c. The Board shall collect data on the types of transfer disputes that are reported and the disposition of each case that is considered by the Commissioner or the Commissioner's designee.
  - d. If a receiving institution has cause to believe that a course being presented by a student for transfer from another school is not of an acceptable level of quality, it should first contact the sending institution and attempt to resolve the problem. In the event that the two institutions are unable to come to a satisfactory resolution, the receiving institution may notify the Commissioner, who may investigate the course. If its quality is found to be unacceptable, the Board may discontinue funding for the course.

**Source Note:** The provisions of this §4.27 adopted to be effective May 27, 2003, 28 TexReg410.

## **Academic Information and Regulations**

### **Credit from Sources Other Than Prairie View A&M University Courses**

Courses accepted for transfer credit must be from a college or university accredited by one of the regional accrediting agencies for higher education and must be similar in character and content to courses offered at Prairie View A&M University. Some credits accepted as transfer credits may not apply to a degree program. Duplicate, developmental, remedial, and study skills courses are not transferable credits. A maximum of 90 credit hours of course work transferred from an upper division institution may be applied toward a degree. A maximum of 66 credit hours of course work may be transferred from a lower division institution may be applied toward a degree. A maximum of 30 credit hours may include Advanced Placement, CLEP, Correspondence, Military Training, or Extension Courses.

Only courses with grades of “C” or above will be accepted for transfer, except in the case of sequential courses in which a “D” was earned in the first course and a “B” or better grade was earned in the second course at the same institution. No credit is allowed for work experience or work completed at non accredited institutions except by AP or CLEP examination. If a transfer course has been graded on a pass/fail basis, the college/university at which the course was taken must provide written documentation to the Registrar that the course was passed at a grade level equivalent of “A”, “B”, or “C”. Additionally, only courses with a grade of “C” or better may be accepted towards credit in either the major or the minor. Courses taken at community/junior colleges will not be accepted for transfer at the upper division (junior/senior) level.

Courses being transferred from an institution outside the territorial United States must be evaluated. Students are required to have their course work evaluated by one of the following or an equivalent recognized service and are to submit the evaluation to the Office of Admissions, Articulation and Transfer Services at least thirty (30) days before the beginning of the semester for which the student wishes to enroll.

**The Educational Credential Evaluators, Inc.**  
P.O. Box 514070  
Milwaukee, Wisconsin 53203-3470  
414-289-3400

**Span Tran Educational Services**  
7211 Regency Square Blvd. Ste. #205  
Houston, Texas 77036  
713-266-8805

For a transfer student to complete the application file and finalize the admission process, a final transcript must be sent directly from the community/junior college or university. It is the responsibility of the student to request that the transcript be sent. If the transcripts submitted as part of the application procedure are final and official, additional transcripts are not required.

## ***Correspondence and Extension Courses***

Correspondence or extension courses will be treated as transfer courses and not included in the cumulative GPA. All such courses must be approved by the dean of the respective college before they are accepted as transfer credit in a degree program.

## ***Military School Credit***

Credit for courses taken at military schools or by correspondence will be evaluated for acceptance by the Office of the Registrar in accordance with American Council on Education guidelines. Credit will be awarded upon a military student's matriculation as a student at the University's main campus or approved off-campus sites.

## ***Credit Available Through Testing***

**Advanced Placement (AP)** examinations, **College-Level Examination Program (CLEP)** and **International Baccalaureate Organization (IBO)** tests should be presented for evaluation prior to the semester in which graduation is planned and/or during the last eighteen (18) hours required for graduation. Total hours of AP/CLEP/IBO allowed are thirty (30) semester credit hours.

Students wishing to inquire about advanced placement must inquire at the Academic Enrichment Office in Room 141 of the Delco Building at 936-261-3699. Letter grades will not be awarded for advanced placement achievement, and the AP or CLEP credits will not be counted in the student's cumulative GPA. Students receive only applicable credit hours for satisfactory achievement on Advanced Placement or CLEP tests. Applicable Advanced Placement credits received at other institutions may be applied toward degree plan requirements at PVAMU provided they were awarded as letter grades at the other institution or an official College Board transcript is sent to PVAMU designating the grade or score received on the AP or CLEP test. Advanced placement scores or transfer credits cannot be taken from other University or College transcripts, and PVAMU does not accept scores submitted from students. Scores must be received from the College Board on an official CLEP Transcript or AP Student Grade Report. If a course has been taken and failed at Prairie View A&M University, it may not be replaced by a subsequent **Credit Available Through Testing**. A student may take a CLEP test to receive credit for a course previously failed at the University; however, the CLEP credit will not *replace* the failed grade on the student's official transcript.

Documentation of THEA exemption or passage of all sections of the THEA, or a THEA alternative, is required prior to receiving credit for Advanced Placement, College Level Examination Program or Correspondence and Extension Courses which will be applied toward degree requirements.

## ***Advanced Placement Testing (AP)***

Advanced Placement Tests are developed by the College Board and administered nationally at approved test sites where the Scholastic Aptitude Test is administered.

Scores on the *national* Advanced Placement Test between the levels of 3 and 5 will be acceptable for credit. Credit for advanced placement is subject to the total hour limitation of 30 semester credit hours.

### **College Level Examination Program (CLEP)**

The CLEP is a national testing program offering students the opportunity to earn college credit by examination. The University will accept credit by examination in American Literature, General Biology, General Chemistry, College Composition, English Literature, Foreign Languages, American Government, American History, and Mathematics. The acceptance of credit by the University does not assure the application of this credit to a specific degree or other program.

CLEP tests taken at Prairie View A&M University will normally be counted in the student's cumulative grade point average (GPA). If a course has been taken and failed at Prairie View A&M University and a CLEP test for that course is subsequently taken and passed, the CLEP grade will not be counted in the cumulative GPA and will not replace the failed grade on the official transcript. It will satisfy the degree requirement. CLEP tests taken through other institutions will not be included in the cumulative GPA. Scores from the general knowledge tests will not be accepted. Only scores from the subject tests will be accepted.

### **International Baccalaureate Organization (IBO)**

Prairie View A&M University (PVAMU) recognizes the International Baccalaureate program for those students who earn the IB diploma, or a specific grade in the IB course. Presently, PVAMU awards credits for IB courses taken at the both the Higher Level (HL), and Standard Level (SL).

#### IB Limitation

Students who earn an IB diploma may be given credit for at least 24 Semester Credit Hours (SCH) at PVAMU provided that they score at least a 4 on each subject exam. However, it will be the student's responsibility to request such credit. PVAMU strongly encourages students to meet with their academic advisor to determine how much credit will best serve their degree matriculation. Students who score less than a 4 will not be granted credit for that particular exam. No grade will be awarded; only SCH for specific courses. Credit will not be awarded for an exam if the student is enrolled in the course of has already taken the course.

#### IB Acceptable Scores and Credit

An official score report must be received from a first-time freshman (or any student who has not received college credit for these exams at another institution) before credit will be awarded. A transfer student, who has received credit for one or more IB exams at another institution, may be granted SCH at PVAMU upon receipt of an official transcript from the other institution as long as the credit awarded at the other institution is transferable to PVAMU.

A student must earn the International Baccalaureate diploma and receive a score of at least a 4 to receive and SCH for the IB exam. Students who take the IB exam without achieving the IB diploma will be evaluated on an individual basis.

<b>IB Higher Level Examination</b>	<b>Min. score</b>	<b>PVAMU course</b>	<b>SCH</b>
Biology SL	4 w/ diploma	BIOL 1015	5
Biology HL	5	BIOL 1025	5
Business & Management SL	4 w/ diploma	MGMT 1013	3
Business & Management HL	4 w/ diploma	MGMT 1013	3
Chemistry SL	4 w/ diploma	CHEM 1033	3
Chemistry HL	4	CHEM 1033	3
Computer Science SL	4 w/ diploma	COMP 1013	3
Computer Science HL	4	COMP 1013	3
Economics SL	4 w/ diploma	ECON 2113	3
Economics HL	4	ECON 2113	3
English Language A SL	4 w/ diploma	ENGL 1123	3
English Language A HL	4	ENGL 1123	3
English Language A HL	5	ENGL 1123, 1133	6
Geography SL	4 w/ diploma	GEOG 1113	3
Geography HL	4	GEOG 1113	3
History (Americas) SL	4 w/ diploma	HIST 1313	3
History (Americas) HL	4	HIST 1313	3
Mathematics HL	4	MATH 1113	3
Music SL	4 w/ diploma	MUSC 1313	3
Music HL	5	MUSC 1313	3
Philosophy SL	4 w/ diploma	PHIL 2013	3
Philosophy HL	4	PHIL 2013	3
Physics SL	4 w/ diploma	PHYS 2113	3
Physics HL	4	PHYS 2113	3
Psychology SL	4 w/ diploma	PYSC 1113	3
Psychology HL	4	PSYC 1113	3
Spanish Language A or B SL	4 w/ diploma	SPAN 1013	3
Spanish Language A or B SL	5	SPAN 1013, 1023	6
Spanish Language A or B HL	4 w/ diploma	SPAN 1013, 1023	3
Spanish Language A or B HL	5	SPAN 1013, 2023	12
Theater Arts SL	4 w/ diploma	DRAM 1103	3
Theater Arts HL	4	DRAM 1103	3
Visual Arts SL	4 w/ diploma	ARTS 1203	3
Visual Arts HL	4	ARTS 1203	3

### Advanced Placement Examinations Course Equivalency Table

<i>Examination</i>	<i>Score</i>	<i>Semester Credit Hours</i>	<i>University Course Name</i>	<i>University Course Number</i>
Art History	3	6	ARTS	2223 and 2233
Biology	3	8	BIOL	1015 and 1025
Calculus AB	3	4	MATH	1124
Calculus BC	4	8	MATH	1124 and 2024
Calculus BC	3	4	MATH	1124 and wave MATH 2024
Chemistry	3	6	CHEM	1033 and 1043
Computer Science A	3	6	COMP	1013 and 1213
Computer Science AB	3	6	COMP	1223 and 2013
English – Language and Composition	3	6	ENGL	1123 and 1133
English – Literature	3	3	ENGL	2153
French – Language	3	6	FREN	1013 and 1023
French – Literature	3	6	FREN	2013 and 2023
Government and Politics – U.S.	3	3	POSC	1113
History – U.S.	3	6	HIST	1313 and 1323
Human Geography	3	3	GEOG	1223
Music Theory	3	3	MUSC	1233
Physics B	3	8	PHYS	2014 and 2024
Psychology	3	3	PSYC	1113
Spanish – Language	3	6	SPAN	1013 and 1023
Spanish – Literature	3	6	SPAN	3023 and 3033
Statistics	3	3	MATH	2003

### Courses For Which Clep Credit Can Be Earned

<b>NAME OF EXAMINATION</b>	<b>REQUIRED SCORE</b>	<b>COURSE CREDIT</b>
Composition and Literature		
American Literature	50	ENGL 3233 & ENGL 3243
Analyzing and Interpreting Literature	50	ENGL 3153
College Composition	53	ENGL 1123 & ENGL 1133
College Composition Modular Writing <sup>1</sup>	55, 3/4	ENGL 1123
English Literature	50	ENGL 2263 & ENGL 2273
Foreign Languages		
French Level I	50	FREN 1013 & FREN 1023
French Level II	62	FREN 2013 & FREN 2023

German Level I	50	GERM 1013 & GERM 1023
German Level II	63	GERM 2013 & GERM 2023
Spanish Level I	50	SPAN 1013 & SPAN 1023
Spanish Level II	63	SPAN 2013 & SPAN 2023
History & Social Sciences		
American Government I <sup>2</sup>	52	POSC 1113
American Government II	55	POSC 1123
American History I...1877	50	HIST 1313
American History II...1865	50	HIST 1323
Science & Mathematics		
Calculus w/Elementary Functions	50	MATH 1124 & MATH 2024
Algebra	50	MATH 1113
Trigonometry	50	MATH 1115
Algebra-Trigonometry	53	MATH 1115
General Biology	50	BIOL 1113 & BIOL 1111
General Chemistry	52	CHEM 1013 & CHEM 1023
		CHEM 1011 & CHEM 1021
Business Information Systems & Computer Applications <sup>3</sup>	50	MISY 1013 or COMP 1003

<sup>1</sup> Student must score at least 3 out of 4 on a departmental writing component scored by the faculty.

<sup>2</sup> Students may get credit for either POSC 1113 or POSC 1123 but **not** both.

<sup>3</sup> Major Driven.

Information can be obtained by contacting the following office:

**Division of Academic Enhancement**

Prairie View A&M University

Mail Stop #3002

P. O. Box 519

Prairie View, TX 77446-0519

Phone: (936) 261-3635

FAX: (936) 261-3612

For additional information:

**College-Level Examination Program**

The College Board

P.O. Box 6601

Princeton, NJ 08541-6601

Phone: (609) 771-7865

FAX: (609) 771-7088

E-Mail: [clep@collegeboard.org](mailto:clep@collegeboard.org)

## Texas Success Initiative (TSI)

Effective September 1, 2003, the Texas Academic Skills Program (TASP) law was repealed and replaced by the Texas Success Initiative (TSI). **The TSI requires students to be assessed in Reading, Writing, and Mathematics skills PRIOR to enrolling in college and to be advised based on the results of the assessment.** TSI exemptions based on test scores are as follows:

TEST	Combined	Verbal	Math
SAT (Subject Test are <u>not</u> acceptable)	1070 (Math + Verbal)	500 (Minimum)	500 (Minimum)
ACT	23 (Composite)	19	19
TAKS	3 Writing	2200 ELA *	2200

\*The Reading and Writing exemptions are connected and require both the 2200 ELA and writing scores.

SAT Reasoning Test and ACT scores are valid for only five years from the date of TAKS scores are valid for only three years from the date of testing.

Other exemptions include:

1. A student who graduated with an associate or baccalaureate degree from an accredited institution of higher education.
2. A student who is serving on active duty as a member of the Armed Forces of the United States, the Texas National Guard, or as a member of a reserve component of the Armed Forces of the United States and has been serving for at least three years preceding enrollment. A certified copy of orders or documentation showing length of service is required.
3. A student who on or after August 1, 1990, was honorably discharged, retired, or released from active duty as a member of a reserve component of the Armed Forces of the United States. A certified copy of the certificate of release is required.

## New Student Information

Prairie View A&M University will use the approved Texas Higher Education Assessment (THEA) as the assessment tool for TSI. **Before a student will be allowed to enroll at PVAMU they must have valid documentation on file for an exemption or they must take the THEA prior to enrolling in any college level classes.** [Prairie View A&M University will only accept COMPASS, ACCUPLACER, or ASSET scores when documented on an official transcript. **It is the student's responsibility to verify that an institution administering the COMPASS, ACCUPLACER or ASSET test will be able to validate those scores on an official transcript, or indicate the student's College Readiness Status**]. Be advised that many institutions will only validate



COMPASS, ACCUPLACER OR ASSET scores if the student enrolls in classes at that particular institution.]

### **In-State Transfer Student Information**

Students transferring from any Texas public institution must provide official transcripts showing their current TSI status. Please note that developmental courses do not transfer into PVAMU. Transfer students who have not met all of the TSI requirements will be placed in the PVAMU developmental sequence based upon an approved TSI Test scores. Transfer students meeting a TSI requirement must have their status documented on an official transcript.

### **Out-of-State Transfer Student Information**

Students transferring from out-of-state are still liable for meeting the TSI testing requirement before enrollment can occur. Out-of-state transfer students can meet TSI requirements by transferring in a grade of “C” or better in the following courses:

<b>Reading</b>	HIST 1313, 1323 (US History to 1876, US History 1876 to present,) POSC 1113, 1123 (American Government I, American Government II); ENGL 2153 (Intro to Literature); or PSYC 1113 (General Psychology)
<b>Math</b>	MATH 1113 (College Algebra) or higher math
<b>English</b>	ENGL 1123 or 1133 (Freshman Composition I, Freshman Composition II)

Transfer students failing to meet all requirements must take an approved TSI Test in the appropriate content area prior to enrollment.

## **Quick TheaTHEA Information**

### **PVAMU Quick THEA Procedures:**

1. Visit the Testing, Tracking, Assessment and Evaluation website at [www.pvamu.edu/pages/1067.asp](http://www.pvamu.edu/pages/1067.asp) and click “sign up for the THEA” or sign up in Room **141**-Delco Building to reserve a seat.
2. Pay the \$29 test fee at the time of the test administration. This payment can be made with a personal check, money order, VISA or Master Card, or purchase order (**we do not accept cash**). Make sure your personal check or money order is made payable to NES. **Be sure to write your social security number on your payment.**
3. Bring two (2) forms of identification (one with a recent photo).
4. Bring two (2) No. 2 pencils.

### **IMPORTANT NOTES about Quick THEA:**

- Score reports are guaranteed within ten (10) working days. Scores may not be produced if any or all outstanding fees that are applicable are not paid in full.
- The test session is (5) hours long. The time may be used to work on any or all three sections of the test.

## **ACCUPLACER INFORMATION**

### **PVAMU ACCUPLACER PROCEDURES**

1. Visit the Testing, Tracking, Assessment and Evaluation website at [www.pvamu.edu/pages/1067.asp](http://www.pvamu.edu/pages/1067.asp) and click “sign up for the ACCUPLACER” or sign up in Room 141-Delco Building to reserve a seat.
2. Pay the \$7/section (not to exceed \$21) at the time of the test administration. Please contact the testing office for acceptable payment types.
3. Bring two(2) forms of identification (one with a recent photo).
4. Bring a pen or pencil.
5. Scratch paper will be provided.

All of the above information is subject to change without notice. To be assured of accuracy of information, students are encouraged to consult the Office of Testing, Tracking, Assessment and Evaluation at (936) 261-3610.

Published 11/11/03 Revised: **6/12/12**

## **General Academic Information**

### ***Courses and Credits***

#### **The Course Numbering System**

Beginning with the 1984-85 academic year, Prairie View A&M University moved from a three-digit to a four-digit course numbering system. Under the new system, the first digit represents the course level (i.e., below college level/developmental 0, freshman 1, sophomore 2, junior 3, senior 4, and masters 5, doctoral 7). The fourth digit indicates the credit hour value of the course.

#### **Unit of Credit**

The unit of credit used at Prairie View A&M University is the semester hour. A semester hour is the equivalent of one lecture contact hour per week for one semester. Time requirements for the semester credit hour in activities other than lecture vary according to the nature and objectives of the activities.

#### **Course Loads**

The normal full-time course load ranges from 12 semester hours to 18-semester hours per semester during the regular academic year and six semester hours during a five-week summer term. Undergraduate students required to enroll in one or more developmental courses as a result of placement examinations are restricted to a maximum of 15 credit hour course load in a regular semester and 6 semester hours in a five-week summer term. The total credit hours earned for the two summer sessions may not exceed twelve. Undergraduate students conditionally admitted are restricted to 12 semester credit hours in fall and/or spring semester.

#### **Course Overloads**

Undergraduate students with a 3.0 GPA or higher may be allowed to take a maximum of 21 semester credit hours during any fall and/or spring semester. Taking of courses simultaneously at another institution or by distance education which would cause the student's total workload to exceed the maximum overload will not be permitted. If a student persists in registering at another institution without approval of the Dean of the

respective college or school, the work taken may not be acceptable for transfer to Prairie View A&M University.

### **Independent Study Courses**

Independent study courses are permitted on a highly selective need basis. Any student enrolling in an independent study course must have the prior approval of the supervising faculty member, the Department Head in which the course is to be taken, Dean of the College and the Provost and Senior Vice President for Academic Affairs. Independent study is for courses in the existing course inventory and granted for extenuating situations. No more than 6 such credit hours may be counted toward a degree.

### **Scheduling of Courses**

In case a section is dropped because of insufficient enrollment, a student may add other courses approved by his/her advisor by the published deadline, as noted in the academic calendar.

### **Course Auditing**

When space is available and the Department and Dean consent, any person may audit a course. An individual sixty-five years of age or older is exempt from paying the fee. Credit is not awarded for any audit course. Individuals who audit courses do not submit papers, take examinations, participate in discussions, or receive evaluations in courses audited. Those wishing to audit may register only after late registration but prior to the 12th class day of a regular semester or the 4th class day of a summer session. A student who audits a course may not change registration during the semester to take the course for credit.

### **Classification of Students**

*Freshman:* A student who has enrolled in regular college work but has earned fewer than 30 semester credit hours. Developmental/Remedial/Study Skills courses do count towards full-time status and course loads, but not classification.

*Sophomore:* A student who has earned 30 to 59 semester credit hours.

*Junior:* A student who has earned 60 to 89 semester credit hours.

*Senior:* A student who has earned at least 90 semester credit hours.

### **Registration and Advising**

Registration is the selection of classes following appropriate advisement. A student has not completed registration and is not entitled to University privileges until required fees have been paid. Persons planning to register for classes at Prairie View A&M University for the first time or who are returning to the University after being disenrolled for one or more previous regular semesters (fall or spring) should be sure that they have met the University's admission requirements. It is recommended that students provide immunization documentation to include TB screening. Applicants for any category of admission will not be permitted to register in courses offered at the main campus in Prairie View, Texas or at any distant site where courses are offered, if admissions

requirements have not been met. Students are to be advised and obtain an alternate PIN number and register for courses online through PantherTracks.

First time, full time freshmen, including those admitted to the University Scholars Program, and transfer students who have earned less than 24 credit hours, are initially advised, tested and registered in works closely with the departments to ensure appropriate advisement and to facilitate the registration process. Transfer students who have earned 24 or more credits and have satisfied their Texas Success Initiative requirements will be advised and registered in their respective major departments. Transfer students who have earned 24 or more credits but have not satisfied their Texas Success Initiative (TSI) requirements will be required to report to Room 137 in the Delco Building for TSI advisement and registration in appropriate developmental classes prior to advisement and registration in their major departments. For questions about the TSI/THEA test, the Developmental Studies Program, or the Center for Academic Support, contact the University College.

If the student selects a second major or selects a minor, the student should meet with an advisor in the department, school, or college offering the second major or minor.

### ***Leaving the University after Registering***

A student who registers but decides not to attend the University must officially withdraw from the University. Failure to officially withdraw will result in the student being awarded grades of an “F” in all courses, and the student being required to pay all assessed fees even though the student has actually left the University.

### ***Grading System***

The standard university grading scale is indicated below. This scale applies to all programs except the College of Nursing.

<b>Grade</b>	<b>Meaning</b>	<b>Score Range</b>	<b>Grade Values</b>
A	Excellent	90-100	4
B	Good	80-89	3
C	Satisfactory	70-79	2
D	Passing	60-69	1
F	Failing	0-59	0
S	Satisfactory	70-100	0
U	Unsatisfactory	0-69	0
I	Incomplete		0
W	Withdrawal from a course		0
WV	Withdrawal from the University Voluntarily		0
MW	Military Withdrawal		0
AW	Administrative Withdrawal		0

### **Incomplete “I” Grade**

An “I,” incomplete, may be granted only when an authorized absence or other cause beyond the student’s control has prevented the student from completing a major course requirement, usually a final examination or major paper due near the end of a course. The student must have a passing average in all work completed at the time the incomplete is given. Incomplete work must be completed and a grade recorded within one calendar year from the close of the term in which the grade was earned. If the incomplete is not removed within the time allotted, the “I” will be changed to “F” by the registrar. This regulation does not apply to thesis problems, research credit courses, internships, or student teaching which may go beyond the end of the semester but does apply to terminal project credit courses.

### **Grade Replacement for Repeated Courses**

Effective fall 2011, Students have the option to replace up to 12 semester credit hours of courses where a C, D, or F is earned in a course, effective with courses taken fall 2011. Students would have to request to replace the course with the Office of the Registrar with college approval. Grades repeated, but not replaced, will be averaged into the cumulative grade point average. NOTE: Courses taken more than twice maybe charged at a higher rate. See the section on Tuition and Fees.

### **Limit on Repetition of Upper Level Course**

Students who accumulate two failures in upper level (3000 or above) courses are required to obtain approval from their academic dean to take the course for a third time.

### **Grade Point Average**

The grade point average (GPA) is determined by adding Grade Values multiplied by Credit Hours for all courses completed during a period and dividing that total by the total quality hours earned during the period. Withdrawal (W), Voluntary Withdrawal (WV), Military Withdrawal (MW), Administrative Withdrawal (AW), and Incomplete (I) will not be included among grades used to compute grade point averages.

## Calculating Semester GPA

Completed Courses	Letter Grades	Grade Values	Credit Hours	Grade Points
_____	_____	( _____ X _____ )	_____	= _____
_____	_____	( _____ X _____ )	_____	= _____
_____	_____	( _____ X _____ )	_____	= _____
_____	_____	( _____ X _____ )	_____	= _____
_____	_____	( _____ X _____ )	_____	= _____

Total Grade Points

÷

Sum of Total Credit Hours

=

Semester GPA

## Calculating Cumulative GPA

		Total Grade Points	Total Credit Hours
Previous College Work:		_____	_____
This Semester's Work:		_____	_____
		+	+

Sum of Total Grade Points

÷

Sum of Total Credit Hours

=

Cumulative GPA

Sum of Total Grade Points

÷

Sum of Total Credit Hours

=

Cumulative GPA

### ***Grade Reports***

Students may acquire their mid-term and final grades via the WEB through <http://panthertracks.pvamu.edu>. Mid-term grades are progress reports and are not recorded on the student's permanent record. Final grades are recorded on the student's permanent record at the close of each semester and summer term. If an error in the recording of grades is suspected, the student should report this immediately to the instructor, department head, or dean for verification and correction, if appropriate.

### ***Grading/Class Related Appeals***

Generally, student complaints about grades or other class related performance assessments can be addressed by the instructor of record and the student. When that cannot be achieved, the student may have his/her complaint addressed by the procedure outlined below. Faculty, other classroom professionals, and students' rights are to be protected and their human dignity respected. Grading and other class related complaints are to be filed initially within thirty days following the alleged precipitating action on which the complaint is based. Except where extenuating circumstances render it unreasonable, the outcome of a complaint that reaches the level of department head or program director in architecture and construction science (exception Dean of Architecture and of Nursing) will be reviewed within thirty days and a written notification of outcome will be provided to the student. Where a complaint must be reviewed at each level, the entire process should be completed within ninety days of receipt of the complaint.

In those instances where students believe that miscommunication, errors, or unfairness of any kind may have adversely affected the instructor's assessment of their academic performance, the student has a right to appeal by following the procedure listed and by doing so within thirty days of receiving the grade or experiencing any other problematic academic event that prompted the complaint:

1. The student should meet with the instructor of record, preferably during his/her office hours, to present the grievance and any supporting documentation that the grade or outcome of a class related concern should have been different.
2. If the instructor is no longer at the university or if the subject of the grievance arises when faculty are not expected to be on duty for a week or more, the student should report to his or her advisor or the absent faculty member's immediate supervisor (department head, or program director in architecture and construction science if in School of Architecture or College of Nursing).
3. If the issue is not resolved at the faculty level and the student wishes to pursue the issue beyond the instructor, he/she should meet with his/her academic advisor even if the grade or other issue is not in the department, division, school, or college in which the student's class is being offered. The advisor will intervene appropriately, but if unable to negotiate an agreement between the student and his/her instructor, will direct the student to follow each level of the appeals procedures items 4 through 10 below.
4. If no agreement can be reached following discussion among the advisor, the student, and the instructor, the student should write a letter to the instructor's immediate

supervisor. In the School of Architecture; or School of Nursing, the Dean should be contacted; in all other colleges the immediate supervisor of faculty, teaching assistants, laboratory assistants and other classroom professionals is the department or division head. The letter or form should present the grievance, the rationale for it, and the remedy sought. The letter or form should be sent at least one week prior to the student's scheduled appointment to meet with the instructor's immediate supervisor.

5. If the instructor's immediate supervisor cannot resolve the issue to the student's satisfaction and the student wishes to pursue the matter, the instructor's immediate supervisor will refer the matter to a three to five person faculty appeals panel, one of whom must be a part-time faculty person if part-time faculty members are employed in the department, school or college. The panel will review the grievance and make a recommendation to the instructor's immediate supervisor.
6. If no agreement is reached and the student decides to appeal the matter further, he/she should send a letter or any published form used for this purpose to the person above the instructor's immediate supervisor.
7. If the student believes that the decision of the highest official in the College or School, the dean, deserves further review due to flaws in the previous reviews or due to his/her having information of such nature as to potentially impact the outcome, the student should provide a written request for review to the Provost and Senior Vice President for Academic Affairs, who will employ a review process appropriate to the situation and notify the dean of the outcome. The Dean will then notify the student of the outcome. A decision that has reached review by the Admissions and Academic Standards Committee is final.
8. Grading and other class related academic issues are referred in writing to the Office of the President only in instances where a preponderance of the evidence reveals that a student's Constitutional rights or human dignity may have been violated. The Provost and Senior Vice President for Academic Affairs will transmit to the President the entire record of reviews conducted at each level if requested by the President following his/her receipt of the student's written appeal. The President will employ a review process appropriate to the matter presented and notify the Provost and Senior Vice President for Academic Affairs and dean of the outcome. The Dean will then notify the student of the outcome.
9. If the class related complaint is related to issues including but not limited to sexual harassment, violence, drug use, possession of firearms, or other behaviors prohibited by federal law, state law, Texas A&M University System policy or University regulations, the student may select one of the following options: Option A: Report the incident, in writing, to the instructor's or other classroom professional's immediate supervisor (department head, division head, or dean). Option B: Report the incident, in writing, to the Director of Human Resources in W.R. Banks Building, Room 122 or to the Provost and Senior Vice President for Academic Affairs in A.I. Thomas Building, Room 214.
10. If the class related complaint involves another student(s) and is related to issues including, but not limited to sexual harassment, violence, drug use, possession of firearms, or other behaviors prohibited by federal law, state law, Texas A&M University System policy, or University regulations, the student should report the incident to the Office of the Vice President for Student and Enrollment Services.



## **Limitations on Course Withdrawals**

Effective September 1, 2007, institutions of higher education may not permit a student to drop more than six courses, including any course dropped at another institution of higher education. For specific details to this rule refer to the following web address: <http://www.pvamu.edu/pages/4702.asp>. (Enacted by the 80th Legislative Session of the State of Texas - SB 1231)

## ***Course Changes and Withdrawals***

Course changes and withdrawals are accepted only as designated in the academic calendar. All such changes in registration require the approval of the student's advisor and/or dean. No withdrawal in registration is complete until filed with the Office of the Registrar for recording. A student who wishes to withdraw from a course other than an undergraduate pre-college developmental course (reading, writing, mathematics, study skills), but whose advisor, Department Head, or Dean will not approve, may appeal to the Provost and Senior Vice President for Academic Affairs.

## ***Voluntary Withdrawal from a Course***

1. A student may drop from a course before the census date ends without having the course recorded on his/her permanent record.
2. After the census date, dropping a course is equated to withdrawing from a course. Withdrawal from a course will be allowed until two weeks after mid-term examinations period during the fall and spring semesters, and one week before the date of the final examination during a summer term. No Withdrawal from a course will be allowed after that point. Withdrawals must be approved by the advisor/department head/dean.
3. The student is automatically assigned a grade of a "W" to indicate a course withdrawal. The "W" will not be calculated in the GPA.
4. Withdrawals from courses may affect housing, graduation, financial aid, membership in organizations or other opportunities.

## ***Voluntary Withdrawal from the University***

Students seeking to withdraw from the University may seek advice and counsel from several sources: Academic Advisor, Course Instructors, Department Head, or Dean. A student may be referred to the Center for the Oversight and Management of Personalized Academic Student Success (COMPASS) who will assess the student's rationale for withdrawal, and through referral, coordination, counseling, or other University resources, assist the student with remaining enrolled if possible.

A student who officially withdraws after the census date through the last class day will receive a grade of "WV" for all courses affected by the withdrawal and a registration hold will be placed to prompt academic adjustment before subsequent registration can occur.

### ***Withdrawal of Students Ordered to Military Active Duty***

A student called to active duty after the summer semester of 1990 will have three options as follows:

1. Refund of the tuition and fees paid by the student for the semester in which the student is required to withdraw,
2. Grant the student a grade of "MW" in each of his or her academic courses and designate "withdrawn-military" on the students transcript, or
3. If an instructor determines that a student has satisfactorily completed a substantial portion of the course and demonstrated mastery of the material, then an appropriate final grade may be assigned.

In all cases, the student should provide a copy of the military order to the Academic Dean. The Dean will ensure that the Registrar has a copy of this order to keep in the permanent file. In those events where the student chooses the second option, the Dean will ensure that grades of "MW" are recorded for courses in which the student is enrolled. The instructor for each course will prepare the necessary documentation for removing the "MW" grade and forward the information to the department head for storage in the student's record in the college, or school. In addition, a copy of the documentation will be forwarded to the Registrar for storage in the student's permanent file. The time limit for the removal of a grade of "MW" for a student called to active military duty after the summer semester of 1990, shall be one calendar year from the official date of release from military active duty. Failure to enroll as a student during the one calendar year following release from military active duty will result in the grade of "MW" remaining permanently on the academic record.

### ***Administrative Dismissal***

To be administratively dropped from the University is to be dismissed from the University. A student may be dismissed from the university for failure to make satisfactory academic progress, or for inappropriate behavior that is detrimental to good order. Administrative drop does not relieve the student of the responsibility for all debts, including tuition, fees, room and board, and other incidental charges for the full semester.

### ***General University Probation/Suspension Policy***

Failure to maintain minimum standards will cause a student to be placed on probation or suspension or be administratively dismissed. Conditions governing probation and suspension are listed below:

1. Any student whose cumulative grade point average falls below 2.0 is placed on probation.
2. Any student on probation who does not receive a 2.0 semester grade point average is suspended.
3. Any student on probation for three consecutive regular semesters is suspended. (This is possible if the student who has a cumulative grade point average earns a semester

grade point average of 2.0 or above but does not raise the cumulative grade point average above 2.0) However, a student on probation who has earned a 2.0 or better for three consecutive semesters can appeal the suspension to the Admission and Academic Standards Committee before serving the suspension. A decision to continue the student's probation in lieu of suspension must be approved by the Provost and Senior Vice President for Academic Affairs.

4. If a student's cumulative GPA drops below 1.00 at the end of any fall or spring semester, the student will be suspended.
5. The length of the first suspension is one regular semester. The second suspension is for one year. After a second suspension, a student must meet all academic requirements or be dismissed.
6. Following suspension, a student is on probation for the next semester and thus is governed by the guidelines for students on probation.

Students who are suspended are expected to strengthen their academic skills by pursuing credit or non-credit courses or programs related to their academic or career objectives, or engage in other activities that can positively impact students' preparation for success upon returning to the University following a suspension.

### ***Class Attendance Policy***

Prairie View A&M University requires regular class attendance. Attending all classes supports full academic development of each learner whether classes are taught with the instructor physically present or via distance learning technologies such as interactive video and/or internet. Excessive absenteeism, whether excused or unexcused, may result in a student's course grade being reduced or in assignment of a grade of "F". Absences are accumulated beginning with the first day of class during regular semesters and summer terms. Each faculty member will include the University's attendance policy in each course syllabus.

#### **Excused Absences**

Absences due to illness, attendance at university approved activities, and family or other emergencies constitute excused absences and must be supported by documentation presented to the instructor prior to or immediately upon the student's return to class. Students are always responsible for all oral and written examinations as well as all assignments (e.g., projects, papers, reports).

#### **Excessive Absences**

Accumulation of one week of unexcused absences (for the number of clock hours equivalent to the credit for the course) constitutes excessive absenteeism. The instructor is not required to accept assignments as part of the course requirement when the student's absence is unexcused.

### **Absences on Religious Holy Days**

In accordance with Texas Education Code, Section 51.925, subchapter (Z), a student may be absent from classes for the observance of a religious holy day and will be permitted to take missed examinations and complete missed assignments provided the student has notified the instructor of the planned absence in writing and a receipt of the notice has been acknowledged by the instructor in writing. "A religious holy day means a holy day observed by a religion whose place of worship is exempt from property taxation under the Texas Tax Code, Section 11.20."

## ***University Policy On Academic Honesty***

Course credit, degrees, and certificates are to be earned by students and may not be obtained through acts of dishonesty. Students are prohibited from participation in acts of academic dishonesty including tampering with records or falsifying admissions or other information. Disciplinary action will be taken against any student who alone or with others engages in any act of academic fraud or deceit. The university's policy on academic dishonesty is stated below:

It is the responsibility of students and faculty members to maintain academic integrity at the university by refusing to participate in or tolerate academic dishonesty. Each instance of academic dishonesty should be reported to the department in which the student has declared a major so that it can become a part of the student's file; to the department head of the instructor of the course in which the alleged infraction occurred; and to the Office for Academic and Student Affairs as deemed necessary.

### **OFFENSES and DISCIPLINARY ACTIONS**

#### **Offenses:**

- Acquiring Information
- Providing Information
- Plagiarism and Dual Submissions
- Conspiracy
- Fabrication of Information
- Misrepresentations, alterations of documents, forgery, et cetera

#### **Disciplinary Actions:**

- Grade Penalty
- Letter of Reprimand
- Probation
- Suspension
- Dismissal
- Expulsion

Below are definitions of sanctions that can be enforced for breaches of the University Academic Dishonesty Policy:

1. **Probation** - In addition to the penalty for the first offense, a student on academic conduct probation is subject to the following restrictions:
  - a. Ineligibility to hold an office in any student organization recognized by the university or to hold any elected or appointed office of the university.

- b. Ineligibility to represent the university outside the university community in any way, including representing the university at any official functions, intercollegiate athletics, or any other form of intercollegiate competition or representation.
  - c. Ineligibility to receive university-administered financial aid, such as scholarships.
2. **Suspension** - Separation of the student from the university for no less than one regular semester. The student is not guaranteed readmission at the end of such period of time, but is guaranteed a review of the case and the student's entire record by the student's dean.
3. **Dismissal** - Separation of the student from the university for an indefinite period of time. Readmission to the university may be possible at some time, but no specific time for a decision is established. The student is not automatically eligible for readmission.
4. **Expulsion** - Separation of the student from the university whereby the student is not eligible for readmission to the university.

Following the review, the Dean's decision regarding eligibility for readmission will be communicated in writing to the student who has the right to appeal that decision to the University Academic Dishonesty Disciplinary Committee.

The standard of review to be used in all proceedings under this section shall be fundamental fairness. Strict rules of evidence and procedures are not required so long as the proceedings are conducted in such a manner as to allow both sides to fairly and fully explain the circumstances. Decisions regarding admissibility of evidence and the weight to be given to same shall be made by the party who is conducting the hearing.

## **OFFENSES and APPROPRIATE DISCIPLINARY ACTIONS**

Commission of any of the following acts shall constitute academic dishonesty. This listing is not exclusive of any other acts that may reasonably be determined to constitute academic dishonesty. The penalty for an offense, whether first or later, will generally range from a letter of reprimand to expulsion, depending upon the severity of the offense. If an offense leads to course credit or the acquisition of a degree or certificate and it is revealed after following appropriate procedures that the offense was indeed committed, the university has the right to rescind course credit, degrees, and/or certificates awarded.

**Offense: Acquiring Information**

1. Acquiring answers for an assigned work or examination from unauthorized source.
2. Working with another person or persons on an assignment or examination when not specifically permitted by the instructor.
3. Copying the work of other students during an examination.

**Offense: Providing Information**

1. Providing answers for an assigned work or examination when not specifically authorized to do so.
2. Informing a person of the contents of an examination prior to the time the examination is given.

**Offense: Plagiarism and Dual Submissions**

1. Failing to credit sources used in a work or product in an attempt to pass off the work as one's own.
2. Attempting to receive credit for work performed by another, including papers obtained in whole or in part from individuals or other sources.
3. Attempting to receive credit in one or more classes for the same paper or project without written approval of instructors involved.

**Offense: Conspiracy**

Agreeing with one or more persons to commit an act of scholastic dishonesty.

**Offense: Acquisition of Examinations, Answers to Examinations or Assignments**

**Offense: Fabrication of Information**

1. The falsification of the results obtained from a research or laboratory experiment.
2. The written or oral presentation of results of research or laboratory experiments without the research or laboratory experiments having been performed.

**Offense: Misrepresentations, Alterations of Documents and Forgery**

1. Taking an examination for another person or allowing someone to take an examination for you.
2. Signing an attendance sheet for another student or committing similar acts of impersonation.
3. The changing of admissions data, test results, transcripts, grade reports, or other documents.

***Procedures In Academic Dishonesty Cases\****

1. The instructor of record shall be the instructor of the course in which the claim of academic dishonesty is being made or the appropriate committee chair for a graduate student taking examinations required by the department or college.
2. At the point of discovery, the instructor shall:
  - a. inform the student of the alleged academic dishonesty and explain the sanction(s);
  - b. hear the student's explanation of circumstances and judge the student to be guilty or not guilty of academic dishonesty;
  - c. if he/she judges him/her to be guilty, he/she will make a written report to the head of the department offering the course, with a copy to the student, the department head for the program in which the student has declared a

- major and the Office of Academic Affairs, outlining the incident and including a recommendation of disciplinary action(s) to be imposed; and
- d. inform the student, in writing, of his/her right to appeal to the head of the department offering the course regarding either the question of guilt or the sanction(s) and explain the procedures the department head will follow if his/her decision is appealed to that level.
3. The instructor's recommendation may be dismissed, reduced, upheld or increased by the department head. Prior to reaching a final decision regarding any sanction to be imposed, the Department Head shall check the student's record in the Office of Student and Enrollment Services and/or the department in which the student has a declared major to determine the appropriate disciplinary action for a person with his/her previous offenses.

**\*NOTE:** Where there is no department, responsibility assigned to Department Head will go to the Dean of the college.

4. If the student chooses not to appeal and the Department Head concurs with the instructor's recommendation, the Department Head will implement the sanction. A copy of the report is forwarded to the Dean of the college in which the alleged offense occurred and the Dean of the college in which the student has declared a major.
5. If the Department Head proposes to change the instructor's recommendation, the Department Head shall conduct a hearing. The student and the instructor shall be allowed to present witnesses and provide evidence relating to the charges. The recommendations resulting from this hearing shall be forwarded in writing to the dean of the college offering the course to the student. The student may appeal to the Dean.
6. If the student chooses not to appeal the recommendation of the Department Head, the Dean of the college offering the course will implement the sanction.
7. Should the student appeal to the dean, an appeal at this level may be based on written summaries only. However, should the dean choose to hear witnesses or hold an informal hearing, it should be done within five working days of receipt of the recommendation from the department head. Within five working days of the hearing, if one is to be held, or five working days of receipt of the recommendation, if there is to be no hearing, the Dean shall review the charges and render a written notification.
8. A student who wishes to appeal the decision of the Dean, in whole or in part, shall appeal to the University Academic Dishonesty Disciplinary Committee which will be appointed by the Provost and Senior Vice President for Academic and Student Affairs. The Committee is to be comprised of one-third faculty, one-third Student and Enrollment staff and one-third students.
9. Once a charge of academic dishonesty has been finally resolved, notice of the same shall be provided in writing to the student, the instructor, the head of the department offering the course, the Dean of the college offering the course, the head of the department in which the student has declared a major, the dean of the college in which the student has declared a major, the Office for Student and Enrollment Services, and the Office for Academic and Student Affairs.
10. Following a first offense, the student must be given a copy of the University Academic Dishonesty Policy by the Department Head of the college in which the offense occurred and the said policy should be discussed with the student.

## **Student Rights and Responsibilities in Academic Dishonesty Cases**

Students have the right to accept the decision of the instructor for a particular offense. This does not preclude review of records for past offenses and imposition of penalty for accumulated violations.

Students shall be afforded the following rights in the hearing conducted by the department head. The dean's appeal shall not be considered a hearing covered by these regulations:

1. Right to a written notice of the charges at least three working days before the hearing may proceed.
2. Right to waive the three-day notice of charges.
3. Right to reasonable access to the case file.
4. Right to review all evidence and question any witness against the student.
5. Right to present evidence and/or witnesses in his/her own behalf.
6. Right to have an observer present during the hearing. The observer cannot be a witness in the hearing or represent the student in the hearing.
7. Right to appeal the disciplinary recommendation to the Dean of the college offering the course and, finally, to the University Academic Dishonesty Disciplinary Committee.

If the student wishes to have an attorney present at a hearing before the Department Head or Dean, the Department Head or Dean will be afforded the same opportunity to have equal representation present.

If the student wishes to appeal a recommendation made by the instructor, Department Head or Dean, he/she must provide written notice to the proper level within five working days of receiving notice of the recommendation. Only in unusual circumstances may this deadline be extended by the entity conducting the hearing.

## **Further Notes Related to Disciplinary Action in Academic Dishonesty Cases**

Offenses punishable by probation, suspension, dismissal, expulsion or other penalties must be reported in writing to the University Academic Dishonesty Disciplinary Committee within three working days of the decision even if the student waives his/her right to an appeal.

## **Graduation Requirements**

Each degree program has established courses, examinations, and other performance requirements students must satisfy in order to be awarded a degree. General graduation requirements include:

1. Satisfactory completion of work in an academic major;
2. Satisfactory completion of the Core Curriculum requirements;
3. A minimum cumulative grade point average of 2.00;
4. A minimum grade point average of 2.00 in the major;
5. A minimum grade point average of 2.00 in the minor;



6. Completion of the residency requirement: A minimum of 36 semester hours of credit toward a degree must be earned in residence at Prairie View A&M University.
7. Completion of 30 of the final 36 semester hours of credit in residence at Prairie View A&M University.

The University requires that a student be in good standing in order to be awarded a degree. There must be no academic, financial, or disciplinary deficiencies at the time of final clearance. Any discovery of failure to satisfy the good standing requirement including involvement in inappropriate conduct up to and through final examinations, a cooperative education, internship assignment, and/or commencement will result in a review and in a sanction which must be satisfied prior to award of a degree or may result in a candidate's being denied the award of a degree from Prairie View A&M University.

### **Transfer credit during last enrollment period**

A student who has the permission of the Dean of his/her college to complete a requirement for graduation at another institution during his/her final semester at the university, must have on file in the Office of the Registrar, an official transcript of any grade received at the other institution within 30 days after commencement. Students who do not meet this requirement will not be permitted to graduate and may not participate in the commencement exercise. A student who does not graduate because of failure to satisfy this requirement must reapply for graduation during the next graduation period. An official transcript is the only acceptable documentation of the completion of a graduation requirement.

### **Transfer of Grades from Other Institutions while Matriculating at Prairie View A&M University**

Undergraduate students matriculating at Prairie View A&M University may wish to take courses from other institutions of higher education. Prior to enrolling in a face-to-face or electronically delivered course at another institution, the student who wishes to take courses to be transferred back to Prairie View A&M University and to be counted toward degree requirements must obtain approval from the respective department head and dean. Written specifications identifying the course or courses to be taken must be signed by the student, the department head, and the dean. The pre-approved transfer credit form will be forwarded to the Office of the Registrar for inclusion in the student's record. If there is no agreement on file in the Office of the Registrar, grades for courses taken at other institutions by students attending Prairie View A&M University may not be accepted.

### **Teacher Certification Requirement**

Students seeking degrees in education, or degree majors in other fields with eligibility for teacher certification, must be admitted to teacher education by the College of Education before enrolling in teacher education professional education courses. Entrance and exit examinations are required. Students interested in being certified as teachers after

graduation should contact the Office of the Dean, College of Education, for information and advisement following admission to the University.

### **Registration Requirement**

Students completing work required for a degree must be enrolled during the term in which the work is completed and the application for graduation is filed. A fee is required for registration in absentia.

### **Removal of “I” grades**

A student who has a grade of Incomplete, “I”, must arrange to complete the work and receive a grade that meets the minimum acceptable to pass the course and to receive credit in the major or minor. No student will be awarded a degree until the “I” grade has been converted to a passing grade. All grades of “I” must be removed and replaced with passing grades for courses included in degree requirements. A student should not re-enroll in a course for which a grade of “I” has been recorded.

### **Second Baccalaureate Degree Requirement**

A second bachelor degree will be conferred when a student has completed at least 30 semester hours in residence (24 semester hours in upper division [3xxx – 4xxx] courses beyond those counted toward the first degree.) Any additional requirements of the department and college approving the respective degree plan and state legislative mandated requirements must be completed. If the student did not take (6) semester hours of U.S. History and (6) semester hours of U.S. Government, the student must take the courses or pass CLEP examinations to meet this twelve (12) semester hour requirement Texas mandates for all bachelor degree recipients.

### **RN-BSN Program: Second Baccalaureate Degree**

This plan of program studies applies to the student who has a bachelor degree in another field, or an associate degree in nursing and who is pursuing the BSN as a second baccalaureate degree. The program of studies for the Prairie View A&M University’s Bachelor of Science in nNursing Degree requires that the student has 127 semester hours for program completion. These hours include: 63 prerequisite hours; 36 hours earned through advanced standing credit if graduated from an accredited ADN program by the National League for Nursing Accrediting Commission (NLNAC) ; and 28 hours earned through enrollment in the College of Nursing.

Prerequisites: 44 semester hours of core non-nursing course requirements may be transferred from any accredited college or university.

**Advanced Standing Credits in Nursing from ADN Program:** 36 semester hours. At the completion of the first semester of required nursing curriculum in the RN-BSN program and evidence of an experiential base, students are granted 36 semester hours toward graduation for previous nursing credits earned in an NLNAC accredited ADN program.

## **Application for Graduation**

A student who plans to receive a degree from Prairie View A&M University must apply for graduation online a semester before anticipated graduation date. Students are to apply by the published deadline available on the website for each graduation semester (fall, spring, or summer).

To start the process, complete the graduation checklist found online via PantherTracks at the “Apply to Graduate” link, then process the online application. A fee is required as part of the application process and will be billed to the student at the time the application is electronically submitted. Students who apply for graduation that are not enrolled for the term in which they plan to graduate will be charged an absentia fee. Finally, students receiving financial aid must participate in the financial aid exit loan process and should visit the Office of Student Financial Aid for assistance.

Degrees for students who are indebted to the University or have not completed “Exit Loan Counseling” will be posted, if earned, but the transcript and diploma will be withheld until the debt is paid, the exit loan counseling completed, and the hold removed by Student Financial Aid. Students who are indebted to the University or have not completed “Exit Loan Counseling,” will not be allowed to participate in the commencement ceremony.

## **Time Limit of Graduation**

Students graduate under the catalog requirement for the academic year in which they first enroll in the university, provided those requirements are completed within a continuous six year period. The academic year begins with the fall semester. Students enrolling for the first time during summer session are subject to the catalog for the following academic year. If degree requirements are not completed within the six year period, students must meet all requirements effective for the catalog under which they expect to graduate. If attendance is interrupted for as much as one academic year, or if a student transfers from one degree program to another, the catalog requirement in effect at the time of re-admission or transfer applies.

## **Cancelling a Graduation Application After Submittal to the Registrar’s Office**

A student has 10 business work days after the application deadline to cancel an application. No cancellations will be accepted after this period. The Graduation Cancellation Form (Forms Library-WEB) must be completed and submitted to the Office of the Registrar by the graduation applicant. Graduation fees are non-refundable and non-transferrable.

## **Commencement and the Conferring of Degrees**

Commencement exercises are scheduled in May, August and December of each year. Participation in the commencement exercises do not constitute the formal conferral of the

degree. Formal conferring of degrees and awarding of diplomas take place after the final graduation audit review conducted by the academic Dean and Office of the Registrar.

Graduation applicants must clear any outstanding course deficiencies, non-course requirements, financial and disciplinary matters. If not cleared of any these deficiencies; applicant will not be allowed to participate in the commencement exercise and will be required to re-apply for a subsequent graduation period.

The University has the right to withhold a degree if academic, financial or disciplinary deficiencies arise before the degree is posted. The University may rescind a previously granted degree if it becomes aware of information leading to the determination that the degree(s) should never have been granted.

## **Ordering Transcripts**

A transcript is the record of an individual's course work at the University. Before an official transcript can be released, all admission requirements, fiscal and financial aid obligations to the University must be met. Official transcripts may be requested via the web on PantherTracks at [www.pvamu.edu](http://www.pvamu.edu)

Please allow 3-5 business days from the date the request was received, except during peak periods and holidays, during these times allow longer processing times.

A student must provide identification at the Office of the Registrar when picking up a copy of a transcript in person. Without the written consent of the student the University will not release a transcript except when directed by a court ordered subpoena.

## **Change of Name**

At Prairie View A&M University, only currently enrolled students may request a change of name by presenting any 2 original documents from each of the following categories:

- driver's license or passport and
- court order, divorce decree or marriage license to the Office of the Registrar, 3<sup>rd</sup> Floor, Memorial Student Center.

## **Change of Social Security Number**

At Prairie View A&M University only currently enrolled students may request to change security number. Requests must be made by presenting security card along with an original photo id (i.e. driver's license, passport) to the Office of the Registrar, 3d Floor, Memorial Student Center.

## **Honors Standards**

### **Honor Roll**

To qualify for the semester honor roll, a student must have carried a minimum 12 semester hour course load, maintained a 3.50 grade point average or greater, and earned no grade lower than a "C". The minimum GPA for the semester honor roll is 3.50.

Developmental courses will not be included in the computation of the GPA for honor roll.

### **Dean's Honors**

To qualify, a student will have earned a minimum of 12 semester hours, excluding any developmental or other courses below college level. A student may qualify for Dean's Honors with a semester GPA between 3.0 and 3.49.

### **Graduating with Honors**

Honors recognition at graduation is based on consistent high scholarship and cumulative grade point average based upon a minimum of 45 semester hours and an associate degree or 60 semester hours earned at Prairie View A&M University and no grade lower than a "C". Developmental courses will not be included in the computation of the GPA for graduating with honors. A student may graduate with honors in one of three categories:

Summa Cum Laude	Cumulative GPA 3.9 - 4.0
Magna Cum Laude	Cumulative GPA 3.7 - 3.89
Cum Laude	Cumulative GPA 3.5 - 3.69

## **Degree Majors and Minors**

All students must complete the requirements of an academic major. Many academic departments also require students to complete the requirements of a minor prior to graduation. Minors require 18 to 28 semester credit hours. Students should declare a major, using appropriate forms that are available in academic departments and the Office of the Registrar prior to the end of the sophomore year. Academic majors and minors that are available at the University are listed below:

### **Academic Majors**

College of Agriculture and Human Sciences  
Agriculture  
Human Nutrition and Food  
Family and Community Services  
School of Architecture  
Architecture  
Construction Science  
College of Arts and Sciences  
Biology  
Chemistry  
Communications  
English  
History  
Mathematics  
Music  
Political Science  
Social Work  
Sociology  
Spanish  
College of Business  
Accounting  
Finance  
Management  
Management Information Systems  
Marketing  
College of Education  
Health  
Human Performance  
Interdisciplinary Studies  
Roy G. Perry College of Engineering  
Chemical Engineering  
Civil Engineering  
Computer Engineering  
Computer Engineering Technology  
Computer Science  
Electrical Engineering  
Electrical Engineering Technology  
Mechanical Engineering  
Computer Information Systems  
College of Juvenile Justice and Psychology  
Criminal Justice  
Criminal Justice with Specialization in  
Juvenile Justice  
Justice  
Psychology  
College of Nursing  
Nursing

### **Academic Minors**

College of Agriculture and Human Sciences  
Agriculture  
Human Nutrition and Food  
School of Architecture  
Architecture  
Construction Science  
College of Arts and Sciences  
African-American Studies  
Art  
Behavioral and Political Science  
Biology  
Chemistry  
Communications  
English  
Geography  
History  
Latin American and Caribbean Studies  
Mathematics  
Military Science  
Music  
Navy Science  
Political Science  
Social Work  
Sociology  
Spanish  
College of Business  
Accounting  
Business Administration (Management)  
Economics  
Entrepreneurship  
College of Business cont'd  
Finance  
International Business  
Management Information Systems  
Marketing  
Personal Financial Planning  
College of Education  
Health  
Roy G. Perry College of Engineering  
Chemical Engineering  
Civil Engineering  
Computer Engineering Technology  
Computer Science  
Electrical Engineering  
Electrical Engineering Technology  
Mechanical Engineering  
College of Juvenile Justice and Psychology  
Criminal Justice  
Psychology

## The Core Curriculum

The central and essential mission of the Prairie View A&M University Core Curriculum is to develop in each undergraduate student the capability to perform effectively in academic and professional settings. The program stresses critical thinking, independent learning, problem-solving and communication skills necessary for outstanding performance in a multi-faceted, modern, and changing society.

All degree programs must include a minimum of 42 semester hours of course work from approved areas of study recognized as the required general education program. Listed in the right column are the equivalent courses that may be transferred from Texas community and junior colleges as approved by the Texas Higher Education Coordinating Board and published in the Academic Course Guide Manual, effective September 2002.

To assist students who transfer to from other public colleges and universities in Texas, the University carefully evaluates course credits presented for acceptance toward fulfillment of degree requirements. In the event the University denies credit for a course a student has taken at another institution, notification of that denial will be transmitted to the student and to the institution at which the credit was earned. The procedures for the contest of denial of credit can be obtained from the Office of Student and Enrollment Services or the Office for Academic Affairs.

### Core Curriculum Course Titles

### Common Course Numbers

#### 1. Communication (Composition, Speech, Modern Language) ..... 9 SCH *Must include 3 SCH Speech*

ENGL 1123 Freshman Composition I	ENGL 1301, 1304
ENGL 1133 Freshman Composition II	ENGL 1302
ENGL 1143 Technical Writing	ENGL 2311, 2314, 2315
ENGL 2143 Advanced Composition	ENGL 1313
SPCH 1003 Fundamentals of Speech Communication	SPCH 1315, 1318

#### 2. Mathematics ..... 3 SCH

Options: MATH 1113 College Algebra, MATH 1123 Trigonometry, MATH 1124 Calculus and Geometry I, MATH 1153 Finite Math, MATH 2003 Elementary Statistics, MATH 2024 Calculus and Analytical Geometry II, MATH 2034 Calculus and Analytical Geometry III; or a course above the level of College Algebra.

Options: MATH 1103, 1314, 1316, 1324, 1342, 1348, 1442, 2314, 2313, 2320, 2318, 2305, 2312, 2315, 2316, 2412, 2414, 2415, 2413 and 2513.

### 3. Natural Sciences..... 6 SCH

Options: Two semesters of science in Chemistry, Physics, Physical Science, Biology or a combination of 3 semester hours each from any two of the science options. Six (6) semester hours of sequential courses in Biology, Science, or Geology

BIOL 1113 Biology	BIOL 1305
BIOL 1123 College Biology II	
BIOL 1054 Human Anatomy and Physiology I	
BIOL 1064 Human Anatomy and Physiology II	
CHEM 1013 General Inorganic Chemistry I	CHEM 1143
CHEM 1023 General Inorganic Chemistry II	CHEM 1243
CHEM 1033 General Inorganic Chemistry I	
CHEM 1053 Introduction to General Chemistry	CHEM 1103
CHEM 1063 Organic Chemistry	CHEM 1203
PHSC 1123 Physical Science I	PHYS 1315
PHSC 2123 Physical Science II	
PHYS 2113 General Physics I	PHYS1401
PHYS 2123 General Physics II	PHYS1402
PHYS 2513 University Physics I	PHYS 2425
PHYS 2523 University Physics II	PHYS 2426

### 4. Humanities and Visual and Performing Arts..... 6 SCH

*Humanities Options* ..... 0-3 SCH

DRAM 2213 Afro American Theatre I	
DRAM 2223 Afro American Theatre II	
ENGL 2153 Introduction to Literature	ENGL 2333
ENGL 2263 English Literature I	ENGL 2322
ENGL 2273 English Literature II	ENGL 2323
ENGL 2303 Introduction to Film	
FINA 2103 Personal Financial Management and Planning	
MGMT 2203 Leadership and Ethics in Business	
MUSC 1223 Fundamentals of Music	MUSI 1302, 1306
MUSC 2333 Afro American Music	
PHIL 2013 Introduction to Philosophy	PHIL 1301
PHIL 2023 Ethics	PHIL 2306

Other Options: A 3 SCH language or literature course. Conversational language courses are not acceptable for Humanities credit.

*Visual and Performing Arts Options* ..... 3-6 SCH

ARCH 1253 Arch Design I	ARCH 1303
ARCH 2233 History of Arch I	ARCH 1301
ARCH 2243 History of Arch II	ARCH 1302
ARTS 1203 Introduction to Visual Arts	HUMA 1315
ARTS 2223 History of Art I	ARTS 1303
ARTS 2233 History of Art II	ARTS 1304
ARTS 2283 Afro-American Art	





DRAM 1103 Introduction to Theater	DRAM 1310
DRAM 2113 Theatre History I	DRAM 2361
DRAM 2123 Theatre History II	DRAM 2362
DESN 1123 Design II	ARTS 1312
DESN 2113 Design Illustration	ARTS 2311
MUSC 1313 Music in Contemporary Life	MUSI 1301
MUSC 1213 Fundamentals of Music	MUSC 1306

**5. Social and Behavioral Sciences..... 15 SCH**

*History..... 6 SCH*

Options: HIST 1313 U.S. to 1876, HIST 1323 U.S. 1876 to Present or a combination of 3 semester hours each in U.S. and Texas History.

HIST 1301, 1302, 2301

*Political Sciences..... 6 SCH*

Options: POSC 1113 American Government I, POSC 1123 American Government II or a combination of 3 semester hours each in American and Texas Government.

GOVT 2301

GOVT 2302

*Other Behavioral or Social Sciences..... 3 SCH*

CRJS 1123 Crime in America	
CRJS 1133 Principles of Criminal Justice	CRIJ 1301
ECON 2003 Fundamentals of Economics	ECON 2003
ECON 2113 Principles of Microeconomics	ECON 2302
ECON 2123 Principles of Macroeconomics	ECON 2301
GEOG 2633 Cultural Geography	GEOG 1301
HIST 1813 Survey of Civilization to 1500	HIST 2321
HIST 1823 Survey of Civilization 1500 to Present	HIST 2322
HDFM 2513 Childhood Disorders	
HDFM 2533 Contemporary Family in Cross Cultural Perspective	SOCI 2301
HDFM 2553 Human Development	PSYC 2312
POSC 2213 Blacks in American Political System	
POSC 2503 Introduction to Global Issues	
PSYC 1113 General Psychology	PSYC 2301
PSYC 2513 Psychology of Personality	PSYC 2316
PSYC 2613 Statistics I	PSYC 2413
SOCG 1013 General Sociology	SOCI 1301
SOCG 2003 Minorities in American Society	SOCI 2319/2320
SOCG 2013 The Family	SOCI 2301

**6. Computing..... 3 SCH**

ARCH 1273 Introduction to Multimedia Computing	ARCH 1315
COMP 1003 Introduction to Computer Education	COSC 1300

COMP 1013 Introduction to Computer Science	COSC 1301
COMP 1143 C++ Programming Language	COSC 1301
COMP 1213 Computer Science I	COSC 1300
CPET 1013 Computer Application to Engineering Technology I	COSC 1300
ELEG 1043 Computer Applications in Engineering	COSC 1300
MISY 1013 Introduction to Computer Information Systems	BCIS 1301
MISY 2153 VB Net Applications in Business	BCIS 1332

**TOTAL ..... 42 SCH**

## UNIVERSITY CORE CURRICULUM

### Student Outcome Expectations

The core curriculum is designed to ensure that graduates of Texas' institutions of higher education are well-educated persons who are intellectually flexible and articulate, and who have the capacity to become creative citizens for the state and nation.

#### 1. **Communications (composition, speech, modern language)**

The objective of a communication component of the core curriculum is to enable the student to communicate effectively in clear and correct prose in a style appropriate to the subject, occasion, and audience.

##### **Exemplary Educational Objectives**

- a. to understand and demonstrate the writing and speaking processes through invention, organization, drafting, revision, editing, and presentation;
- b. to understand the importance of specifying audience and purpose and to select appropriate communication choices;
- c. to understand and appropriately apply modes of expression, i.e., descriptive, expository, narrative, scientific, and self-expressive, in written and oral communication;
- d. to apply the principles of communicating as process and the analysis of audience and purpose to assignments;
- e. to participate effectively in groups with emphasis on listening, critical and reflective thinking, and responding;
- f. to understand and apply basic principles of critical thinking, problem solving, and technical proficiency in the development of exposition and argument;
- g. to develop the ability to research and write a documented paper and/or to give an oral presentation.

#### 2. **Mathematics**

The objective of the mathematics component of the core curriculum is to develop a quantitatively literate college graduate. Every college graduate should be able to apply basic mathematical tools in the solutions of real-world problems.

##### **Exemplary Educational Objectives**

- a. to apply arithmetic, algebraic, geometric, and statistical methods to modeling and solving real-world problems;
- b. to represent and evaluate basic mathematical information numerically, graphically, and analytically;
- c. to expand mathematical reasoning skills and develop convincing mathematical arguments;
- d. to use appropriate technology to enhance mathematical thinking and understanding and to solve mathematical problems and judge the reasonableness of the results;
- e. to interpret mathematical models such as formulas, graphs, tables and schematics, and draw inferences from them;
- f. to recognize the limitations of mathematical and statistical models;
- g. to develop the view that mathematics is a growing discipline, interrelated with human culture, and understand its connections to other disciplines.

**3. Natural Sciences**

The objective of the study of the natural sciences component of the core curriculum is to enable the student to understand, construct, and evaluate empirical relationships in the natural sciences, and to enable the student to understand the bases for theory-building and testing.

**Exemplary Educational Objectives**

- a. to understand and apply the empirical method to the study of natural sciences;
- b. to recognize scientific and quantitative methods and the differences between these approaches and other methods of inquiry and to communicate findings, analysis, and interpretation both orally and in writing;
- c. to identify and recognize the differences among competing scientific models of the universe;
- d. to demonstrate knowledge of the major issues and problems facing modern science, including issues that touch upon ethics and values;
- e. to demonstrate knowledge of the interdependence of science and technology and their influence on, and contribution to, modern culture.

**4. Humanities and Fine Arts**

The objective of the humanities and fine arts in the core curriculum is to expand students' knowledge of the human condition and human cultures, especially in relation to behavior, ideas, and values expressed in works of human imagination and thought. Through study in disciplines such as literature, philosophy, and fine arts, students will engage in critical analysis, form aesthetic judgments, and develop an appreciation of the arts and humanities as fundamental to the health and survival of any society. Students should have experiences in both the arts and humanities.

**Exemplary Educational Objectives**

- a. to demonstrate awareness of the scope and variety of works in the arts and humanities;
- b. to understand those works as expressions of individual and human values within an historical and social context;
- c. to respond critically to works in the arts and humanities;
- d. to engage in the creative process or interpretive performance and comprehend the physical and intellectual demands required of the writer or artist;
- e. to articulate an informed personal reaction to works in the arts and humanities;
- f. to develop an appreciation for the aesthetic principles that guide or govern the humanities and arts;
- g. to demonstrate knowledge of the influence of literature, philosophy, and/or the arts on cross-cultural interactions.

**5. Social and Behavioral Science**

The objective of a social and behavioral science component of the core curriculum is to increase students' knowledge of how historians and social and behavioral scientists discover, describe, and explain the behaviors and interactions among individuals, groups, institutions, events, and ideas.

**Exemplary Educational Objectives**

- a. to employ the methods and dates that historians and social and behavioral scientist use to investigate the human condition;
  - b. to examine social institutions and processes across a range of historical periods and cultures;
  - c. to use and critique alternative explanatory systems or theories;
  - d. to develop and communicate alternative explanations or solutions for contemporary social issues;
  - e. to analyze the effects of social, political, economic, cultural, and diplomatic forces on the area under study;
  - f. to comprehend the origins and evolution of U.S. and Texas political systems, with a focus on the growth of political institutions, the constitutions of the U.S. and Texas, federalism, civil liberties, civil and human rights;
  - g. to understand the evolution and current state of the role of the United States in the world;
  - h. to differentiate and analyze historical evidence (documentary and statistical) and differing historical points of view;
  - i. to recognize and apply reasonable criteria for the acceptability of historical evidence;
  - j. to understand and identify commonalities in a diverse culture;
  - k. to analyze, critically assess, and develop creative solutions to public policy problems;
  - l. to recognize and assume one's responsibility as a citizen in a democratic society by learning to think for oneself by engaging in public discourse and by obtaining information through the news media and other appropriate information sources about politics and public policy.
6. **Computing** (Computer Literacy)

The objective of computing in the core curriculum is to ensure that graduates are able to use computer technology to communicate, solve problems, and acquire information.

**Exemplary Educational Objectives**

- a. to communicate and demonstrate knowledge of different types of operating systems, hierarchical files, and directory structures;
- b. to publish a document which incorporates appropriate design and uses standard formatting tools (tabs, margin setting, document formatting, headers and footers);
- c. to publish a document that utilized information imported from other sources;
- d. to know several different formats (table, charts and graphs, graphics, and mail merge);
- e. to create a spreadsheet document which incorporates tables and graphs (line, pie, bar, X-Y scatter);
- f. to create a presentation slide using a presentation software (e.g. PowerPoint);
- g. to create multimedia projects using a variety of tools and media with increasingly sophisticated linking of ideas;
- h. to understand online information access via TCP/IP, ftp, Archie, html, www;

- i. to navigate independently through the Internet to locate resources;
- j. to navigate the Internet using World Wide Web search engines;
- k. to create a simple World Wide Web page which includes at least one graphic, text and link to another Internet site;
- l. to understand e-mail tools such as integrated mail program (Netscape, Explorer, Eudora);
- m. to know what computers can and cannot do as spreadsheets.

## **Explanatory Notes**

1. **Communication** (Composition, Speech, Modern Language) – To satisfy the communication requirement, a student must take or receive advanced placement credit for ENGL 1123 and for SPCH 1003 Fundamentals of Speech Communication. ENGL 1133 Freshman Composition II, while required, may be satisfied by ENGL 1143 Technical Writing or ENGL 2143 Advanced Composition.
2. **Mathematics** – For mathematics requirements for specific degree majors, see suggested program sequences for the majors.
3. **Natural Sciences** – Students who begin their matriculation at Prairie View A&M University having completed the 6 SCH of natural science without laboratory will have satisfied the University Core Requirement. However, both transfer and native students who plan to major in the sciences should consult the suggested program sequence for major.
4. **Humanities and Visual and Performing Arts**  
The Humanities and Visual and Performing Arts requirement may be satisfied with 6 credits of courses from the Visual and Performing Arts options or 3 credits from the Visual and Performing Arts options combined with 3 credits from the Humanities options.

### **Humanities**

Students who plan to major in engineering or in engineering technology or who are accepted into the University Scholars Program should select from among courses for which there is a sequential course.

### **Visual and Performing Arts**

Performance oriented courses may not be used to satisfy visual and performing arts requirement (e.g., a student may not use a course in sculpture, voice, or acting).

5. **History and Political Science** – The Texas Statutory Requirement is that all students seeking an undergraduate degree from any tax-supported state institution complete the following (Texas Education Code, 51.302):

6 semester credit hours in American History, a combination of 3 semester hours each in American History and Texas History, or 3 semester hours in American

History and 3 semester hours in a senior ROTC (Army or Navy) course designated as acceptable for satisfying this requirement.

6 semester credit hours in American Government or a combination of both; or complete 3 semester hours in government and 3 semester hours in a senior ROTC (Army or Navy) course designated as acceptable for satisfying this requirement.

Any student who selects the allowable Army or Navy course substitution will be required to take the 3 SCH of history and 3 SCH of government for which Army or Navy courses were substituted if the student fails to complete the senior ROTC program and earn a commission.

A student who plans to earn a Texas teaching certificate may not use the Army or Navy course substitution for any part of the history and government requirement even if the student is enrolled in and completes the senior ROTC program

6. **Computing** (Computer Literacy) – Each graduate of will be able to use computer-based technology in communicating, solving problems, and acquiring information. Core educated students will have an understanding of the limits, problems, and possibilities associated with the use of technology, and will have the tools necessary to evaluate and learn new technologies as they become available.



**Texas Community College Course Equivalents**

Accepted at Prairie View A&amp;M University

PVAMU	TCCNS	PVAMU	TCCNS
Course	Equivalent	Course	Equivalent
ACCT 2113	ACCT 2301	CHEM 1021	CHEM 1112
ACCT 2123	ACCT 2302	CHEM 1053	CHEM 1305
AGRO 2733	AGRI 1307	CHEM 1063	CHEM 1307
ANSC 2533	AGRI 1311	CHEM 1013	CHEM 1311
AGRO 1703	AGRI 1315	CHEM 1023	CHEM 1312
ANSC 1513	AGRI 1319	COMM 1013	COMM 1307
AGEC 2213	AGRI 1325	COMM 2603	COMM 1317
ANSC 2523	AGRI 1327	COMM 1103	COMM 1335
AGEG 1413	AGRI 2303	COMM 2423	COMM 2305
AGEC 1233	AGRI 2317	COMM 2313	COMM 2311
ARCH 2233	ARCH 1301	ELEG 1043	COSC 1320
ARCH 2243	ARCH 1302	COMP 2013	COSC 2315
ARCH 1253	ARCH 1303	CRJS 1133	CRIJ 1301
ARCH 1233	ARCH 2201	CRJS 2423	CRIJ 2314
ARTS 1203	ARTS 1301	CRJS 2643	CRIJ 1306
ARTS 2223	ARTS 1303	CRJS 2663	CRIJ 1310
ARTS 2233	ARTS 1304	CRJS 2743	CRIJ 1313
ARTS 1113	ARTS 1311	CRJS 2513	CRIJ 2313
ARTS 1123	ARTS 1312	CRJS 2413	CRIJ 2328
ARTS 1153	ARTS 1316	HUPF 1051	DANC 1110
ARTS 1183	ARTS 1317	HUPF 2021	DANC 1111
ARTS 2193	ARTS 2316	HUPF 1041	DANC 1128
ARTS 2133	ARTS 2346	HUPF 2061	DANC 1129
TECH 2303	ARTS 2356	HUPF 1191	DANC 1141
MISY 1013	BCIS 1301	HUPF 2151	DANC 1142
MISY 2153	BCIS 1332	HUPF 1031	DANC 1145
BIOL 1111	BIOL 1108	HUPF 2011	DANC 1146
BIOL 1113	BIOL 1308	HUPF 1171	DANC 1147
BIOL 1034	BIOL 1411	HUPF 2071	DANC 1148
BIOL 1073	BIOL 2320	DRAM 1103	DRAM 1310
BIOL 1054	BIOL 2401	DRAM 1323	DRAM 1322
BIOL 1064	BIOL 2402	DRAM 1203	DRAM 1330
BIOL 2054	BIOL 2416	DRAM 1303	DRAM 1341
MGMT 1013	BUSI 1301	DRAM 1003	DRAM 1351
FINA 2103	BUSI 1307	DRAM 2013	DRAM 2351
FINA 2213	BUSI 2301	DRAM 2113	DRAM 2361
FINA 2203	BUSI 2302	DRAM 2123	DRAM 2362
CHEM 1051	CHEM 1105	HUSC 2373	ECON 1303
CHEM 1061	CHEM 1107	ECON 2123	ECON 2301
CHEM 1011	CHEM 1111	ECON 2113	ECON 2302

**Texas Community College Course Equivalents  
Accepted at Prairie View A&M University**

PVAMU Course	TCCNS Equivalent	PVAMU Course	TCCNS Equivalent
ENGL 1123	ENGL 1301	MATH 2043	MATH 2320
ENGL 1133	ENGL 1302	MUSC 1631	MUSI 1160
ENGL 1143	ENGL 2311	MUSC 1212	MUSI 1216
ENGL 2153	ENGL 2333	MUSC 1222	MUSI 1217
ENGL 2263	ENGL 2322	MUSC 1313	MUSI 1306
ENGL 2273	ENGL 2323	MUSC 1233	MUSI 1311
TECH 1033	ENGR 1304	MUSC 1243	MUSI 1312
CVEG 2043	ENGR 2301	MUSC 1621	MUSI 2160
CVEG 2053	ENGR 2302	MUSC 1611	MUSI 2161
ELET 1113	ENGR 2405	MUSC 2212	MUSI 2216
CVEG 2063	ENGR 2332	MUSC 2222	MUSI 2217
CVEG 2454	ENGR 2403	MUSC 2213	MUSI 2311
FREN 1013	FREN 1311	MUSC 2223	MUSI 2312
FREN 1023	FREN 1312	HUPF 1131	PHED 1164
FREN 2013	FREN 2311	HUPF 2032	PHED 1253
FREN 2023	FREN 2312	HLTH 2003	PHED 1304
GEOG 1223	GEOG 1301	HLTH 2023	PHED 1306
GEOG 1113	GEOG 1302	HUPF 2043	PHED 1321
GEOG 1333	GEOG 2312	PHYS 2111	PHYS 1101
POSC 1113	GOVT 2301	PHYS 2113	PHYS 1102
POSC 1123	GOVT 2302	PHYS 2123	PHYS 1301
POSC 2133	GOVT 2304	PHSC 1123	PHYS 1302
HUSC 1351	HECO 1101	PHYS 2511	PHYS 1315
HUNF 2653	HECO 1315	PHYS 2521	PHYS 2125
HUSC 1303	HECO 1320	PHYS 2513	PHYS 2325
HUSC 1343	HECO 1322	PSYC 2613	PSYC 2317
HUSC 1333	HECO 1329	PHYS 2523	PHYS 2326
HIST 1313	HIST 1301	PSYC 1113	PSYC 2301
HIST 1323	HIST 1302	HDFM 2543	PSYC 2307
HIST 1333	HIST 2301	HDFM 2553	PSYC 2314
HIST 1813	HIST 2321	PSYC 2513	PSYC 2316
HIST 1823	HIST 2322	SOCG 1013	SOCI 1301
MATH 1113	MATH 1314	SOCG 2043	SOCI 1306
MATH 1123	MATH 1316	SOCG 2013	SOCI 2301
MATH 1124	MATH 2413	SOCG 2003	SOCI 2319
MATH 1153	MATH 1324	SOCG 2033	SOCI 2326
MATH 2153	MATH 1325	SOWK 2113	SOCW 2361
MATH 1213	MATH 2312	SPAN 1013	SPAN 1311
MATH 2003	MATH 1342	SPAN 1023	SPAN 1312
MATH 2024	MATH 2414	SPAN 2013	SPAN 2311
MATH 2034	MATH 2415	SPAN 2023	SPAN 2312

## **Student Academic Success**

### **ADMINISTRATIVE OFFICER**

Josette Bradford, *Director*

### **ADMINISTRATIVE STAFF**

Dionna Smith, *Assistant Director of Student Academic Success*

### **PURPOSE AND GOALS**

The mission of Student Academic Success is to identify academic and social roadblocks to persistence and graduation in order to develop and initiate campus-wide policies, programs and services aimed at increasing academic success.

Building upon the successes of PVAMU's current first-year retention programs, the Academy for Collegiate Excellence and Student Success (ACCESS) and University College, leading retention data and recognized "best practices", the Office of Student Academic Success identifies academic and social roadblocks to persistence and graduation in order to implement campus-wide policies, programs and services in the areas of academic advisement, academic enhancement and student life. The Office of Student Academic Success administers campus-wide retention, persistence and graduation initiatives through the services provided by the Center for the Oversight and Management of Personalized Academic Student Success (COMPASS) and the Panther Pride Summer Bridge Program.

**COMPASS** is designed to help Prairie View A&M Students in their second year and beyond navigate towards graduation by providing academic advisement and academic counseling, readmission assistance for "stop-out" students, campus-wide referrals, tutorial services, and academic life enhancing workshops.

**Panther Pride** is a highly structured five (5) week summer program designed for incoming Prairie View first-year students who are Texas residents. Program participants will have the opportunity to complete six (6) semester credit hours of college level coursework, experience residence life by staying on campus, take part in academic and social enhancement workshops, and network with faculty, staff, and administrators.

## University College

### ADMINISTRATIVE OFFICER

Lettie M. Raab, *Director*

### ADMINISTRATIVE STAFF

Keenan Lazenby, *Business Manager*

Jermaine V. Jackson, *Assistant Director of University College Residential Life*

Juanel Sippio, *Assistant Director of Advisement*

Cheryle D. Snead-Greene, *Associate Director of University College and Academic Enhancement*

Carolyn Stevenson, *University College Freshman Support Services Coordinator*

### PURPOSE AND GOALS

University College (UC) is the physical embodiment of Prairie View A&M University's commitment to its freshmen. The concept, evolved over five years from two pilot programs that were statistically successful in retaining freshmen and improving overall academic performance. University College features a state-of-the-art residential complex with fourteen mini-residence halls surrounding a But UC is far more than a set of buildings. It is a comprehensive freshman program. Each student is assigned to a University College Academic Team (UCAT), which is housed in a specific residence hall. The UCAT includes 102 live-in residents and a small number of commuter students, a professional advisor (PA), live-in residential staff and a Faculty Fellow. The professional advisor, residential staff and Faculty Fellow assigned to each residential hall work together to provide a supportive, academically focused environment for the students. A cadre of professional advisors in the UC Division of Advisement provides academic, major and career advisement to freshmen. These advisors are also the initial points of contact for students in need of support services. The professional advisors work closely with the Learning Community Coordinators (LCC), the adults who live on the first floors of the residence hall and the Community Assistants (CA), the live-in student staff. The residential staff comprises the UC Division of Student Life. The UC Academic Enhancement Division supervises all developmental education, tutorial support, the Principles of Effective Learning classes and residentially based academic enhancement. In the University College model, academic advising, tutoring, counseling, co-curricular activities and student support services have been incorporated within the residential complex. University College's mission is to improve matriculation, retention and graduation rates; increase student academic success; and facilitate a smooth transition into and through higher education.

University College is committed to providing an academically focused, student-centered, supportive, structured environment for the entire University community with an emphasis on freshmen. This environment is focused on improving matriculation, retention and graduation rates, increasing student success in academics and facilitating a smooth transition into and through the world of higher education. University College consists of the Divisions of Academic Advisement, Academic Enhancement and Student Life which are tasked to provide holistic advisement, effective academic enhancement, accessible,

centralized support services and an academically focused residential learning community. The Academy for Collegiate Excellence and Student Success (ACCESS) is a summer bridge program that is supported by all three divisions. Each of these units has a mission that supports the overall University College mission.

- **Academic Enhancement:** The mission of the University College Division of Academic Enhancement is to promote the academic success of all PVAMU students by providing a comprehensive array of academic enhancement services and activities. These programs provide students with the assistance they need based on their individual academic requirements, including *basic skills development; development of study skills, learning strategies and personal growth;* academic tutoring support college level classes. Academic Enhancement also supports the following areas essential to student development:
  - Developmental Education
  - Testing, Tracking, Assessment and Evaluation
  - Center for Academic Support (Tutoring)
- **Academic Advisement:** The mission of the University College Division of Academic Advisement is to provide holistic, effective accessible advisement for incoming freshmen and other special populations and to serve as a resource for departmental advisement. This division is also committed to providing centralized support and referral services for the freshmen students. The UC Advisement Center is housed in the Residence area providing very accessible services.
- **Student Life (Housing):** The mission of the University College Division of Student Life is to provide an on-campus living and learning community that supports the intellectual, social and ethical growth of all entering Prairie View A&M University students with an emphasis on freshmen. The Student Life unit is committed to providing a co-curricular environment, which allows students to pursue special interests, fulfill individual needs, and actively contribute to the living and learning community life while focusing on academics.

## Honors Program



The Honors Program at Prairie View A&M University is a four-year interdisciplinary course of study designed to produce future global leaders. This academic program concentrates on the development of intellectual curiosity and offers a comprehensive honors curriculum to cultivate critical thinking, active learning, and stellar leadership skills.

The primary objective of this program is to provide a variety of scholarly activities and advanced courses for outstanding undergraduate students who value and seek rigorous academic challenges. To achieve this goal, Honors courses are designed to stimulate intellectual exchanges in small seminar classes, where students learn how to refine a range of academic skills and talents.

The development of a philosophical habit of mind, academic training, historical consciousness, and an aggressive pursuit of knowledge in all disciplines is the basis of an Honors program. Only the most committed and talented professors at Prairie View A&M University will teach Honors courses with the intent to create a shared dialogue among students majoring in: education, engineering, natural sciences, architecture, nursing, agriculture, arts and humanities, behavioral sciences, business, juvenile justice, communications, as well as other majors offered at the university.

Every Honors student is encouraged to learn one or more of the foreign languages offered in the program: Chinese, Arabic, French or Spanish. The importance of learning and applying foreign language skills to any academic discipline will substantially enhance the overall educational background and future of each student. Hence, an emphasis on study abroad opportunities is also a major expectation for each student in this program.

An additional goal of the Honors program is to provide diverse leadership development opportunities for every honors student. Many of the Honors courses include service-learning components to encourage students to create community-wide service projects related to their courses. For example, the required course for all Honors students—Introduction to Honors involves research methodology and historical writing, yet students are required to present their final research projects on current global issues to public audiences at local community centers and elementary schools as well as at organized open forums on the university campus. Public speaking is often required of those in leadership positions; therefore, these activities are offered to expose honors students to real life expectations.

## **Academic Programs and Degree Plans**

### **College of Agriculture and Human Sciences**

#### **ADMINISTRATIVE OFFICER**

Richard W. Griffin, Acting Dean, *Agronomy/Soil Science*

Alton B. Johnson, Associate Dean, *Agriculture/Soil Science*

#### **ADMINISTRATIVE STAFF**

Richard W. Griffin, Department Head, *Agronomy/Soil Science*

Ricahrd W. Griffin, Acting Director, *Cooperative Agricultural Research Center/Agricultural Economics, Agronomy/Soil Science*

Victor G. Stanley, Interim Department Head, *Animal Science*

Alton B. Johnson, Administrator, *Cooperative Extension Program*

#### **PURPOSE AND GOALS**

The College of Agriculture and Human Sciences shall serve to reinforce and strengthen the land grant mission of the University by implementing programs in the agricultural, food, human and natural resource sciences that 1) highlight learning, discovery and engagement; 2) focus on matters related to the interactive roles of individuals, families and communities within social, economic, environmental, and global systems; and 3) anchor these actions on sound public policy, the best available science, and efficient management.

Specifically, the programs in the College shall provide:

1. Instructional activities in Agriculture, Dietetics, and in Family and Community Services which provide learning opportunities that prepare students to respond effectively to complex social issues relating to the food, agricultural, human and natural resource sciences through the use of innovative strategies in the delivery of classroom, laboratory, and experiential learning activities that prepare graduates for discovery and engagement in a diverse and global labor force and for advanced study in graduate and/or professional schools. These activities are conducted within the structure of the Department of Agriculture, Nutrition and Human Ecology.
2. Research activities to conduct basic and applied research in the agricultural, food, human and natural resource sciences that generate scientific information and technological developments that respond to the needs of stakeholders. These activities are conducted primarily within the structure of the Cooperative Agricultural Research Center.
3. Extension activities to deliver research based information and informal educational opportunities focused on identified issues and needs of Texans of diverse ethnic and socioeconomic backgrounds giving emphasis to individuals who are historically

unserved and underserved. These activities are conducted primarily within the structure of the Cooperative Extension Program.

4. International activities that establish sustainable linkages and collaborative relationships of mutual interest with global partners and sponsors to develop human capital and natural and institutional resources through implementation of the land grant mission functions of teaching/learning, research/discovery, and service/engagement in the agricultural, food, human and natural resource sciences. These activities are conducted primarily within the structure of the Institute for International Agribusiness Studies.

Comprehensively, through involvement in professional and scientific activities, the College shall enhance the food, agricultural, and human sciences and strive to improve the quality of life for the residents of Texas, the nation and the world.

## **INSTRUCTIONAL ORGANIZATION**

The College of Agriculture and Human Sciences is organized for instructional purposes into the following programs.

<b>Programs</b>	<b>Degree Offered</b>
Agriculture Plant and Soil Sciences Animal and Food Sciences	B.S. Agriculture
Human Nutrition and Food	B.S. Dietetics
Family and Community Services Concentrations Family and Community Services (Teacher Education) Human Development and the Family (Child and Family Studies) Merchandising and Design	B.S. Family and Community Services

## **HONOR SOCIETIES AND CLUBS**

Student organizations in the College are linked to national professional organizations and serve as vehicles to assist each student with professional development.

### **All Majors**

Minorities in Agriculture, Natural Resources and Related Sciences (MANRRS) is a national society that promotes and fosters the involvement of minorities in agriculture and related sciences. Chapters established at various colleges and universities are designed to develop a partnership between minority students in agriculture and natural resources and professionals from academic institutions, government agencies and industry by promoting professional development, networking, and career placement in a nurturing environment. Membership is open to people of all racial and ethnic backgrounds who support the objective of full ethnic group participation and achievement in agricultural and related science careers.



## **Agriculture**

The Agricultural Economics Club is affiliated with the American Agricultural Economics Association and with the Southern Agricultural Economics Association. It encourages the professional growth and development of students majoring in agricultural economics. Membership is open to all agricultural economics majors.

Alpha Tau Alpha (ATA) is a national professional honorary agricultural educational fraternity. Membership is open to all Agriculture majors and minors who are sophomores or above and who satisfy the criteria as outlined in the constitution. The fraternity exists to develop a professional spirit in the teaching of agricultural science and technology, to assist in preparing teachers of agricultural science to become leaders in their communities, and to foster a fraternal spirit among students in the food and agricultural sciences.

The American Society of Animal Science encourages the professional growth and development of students majoring in animal science. Students participate in regional and national activities through chapter activities. Membership is open to all students majoring in animal science.

The Rodeo Club is affiliated with the National Intercollegiate Rodeo Association (NIRA). The rodeo team participates in rodeos sponsored by the Southern Region of the NIRA. At least 20 rodeos are sponsored by the Southern Region during the academic school year.

The Soil Conservation Society of America and the American Society of Agronomy are open to all students in agronomy. These societies provide students with the opportunity to become a part of the national conservation movement; to share information, fellowship, ideas, and experiences through the local, state, and national chapters; and to encourage students to demonstrate leadership and to participate in the activities of the local, state, and national organizations.

## **Family and Community Services**

The Kappa Beta Epsilon Chapter of Kappa Omicron Nu, National Home Economics Honor Society, was installed on the campus in 1963 as the Beta Epsilon Chapter of Kappa Omicron Phi. Kappa Omicron Nu was formed during 1989-90 through the merger of two National Home Economics Honor Societies, Omicron Nu and Kappa Omicron Phi. Students majoring or minoring in family and community services or human nutrition and food are eligible for membership upon satisfying specific membership criteria as outlined by the constitution of the organization.

The programs also encourage student participation in specialized student member affiliates of professional organizations supported by the major area. Students interested in gaining membership in these specialty organizations should consult with the major advisor.



## **Nutrition**

The Student Dietetic Association (SDA) gives the student an opportunity to explore career opportunities in the field of nutrition and dietetics. Students interact with peers and faculty outside the classroom and have the opportunity to be actively involved with other local and state chapters.

## **ACADEMIC STANDARDS AND PROGRESS**

Students enrolled in a degree program in the College of Agriculture and Human Sciences are required to fulfill the university requirements for successful academic progress toward graduation. In addition, students are expected to:

Earn a minimum “C” grade in each program’s major requirements and concentration course in the degree plan/option.

Earn an overall grade point average of 2.50 in courses required for the degree beyond the University core, but which are not offered by programs within the College.

Students who wish to transfer from other colleges and universities to the College must have a minimum grade point average of 2.50 in transfer credits accepted by the respective program for unconditional admission, in addition to satisfying the general requirements specified in this catalog.

Students within the university who wish to transfer to the College must have a minimum grade point average of 2.25 in transfer credits accepted by the respective Program for unconditional admission.

## ***Department of Agriculture, Nutrition and Human Ecology***

### **ADMINISTRATIVE OFFICER**

Richard W. Griffin, Department Head, *Agronomy/Soil Science*

Victor G. Stanley, Interim Department Head, *Animal Science*

### **ADMINISTRATIVE STAFF**

D. Morgan Bloom-Higginbottom, *Coordinator, Family and Community Service*

Sharon L. McWhinney, *Coordinator, Dietetic Internship*

Richard McWhorter, *Graduate Coordinator, Human Sciences*

Victor G. Stanley, *Coordinator, Agriculture*

Faye M. Walker, *Undergraduate Coordinator, Human Nutrition and Food*

### **FACULTY**

TeneInger Abrom-Johnson, *Family and Community Services*

Minnie Cyrus, *Family and Community Services*

Eustace A. Duffus, *Child and Family Studies*

Richard W. Griffin, *Agronomy/Soil Science*

Annette A. James, *Agronomy*

Barbara M. Johnson, *Animal Science*

Wash A. Jones, *Agriculture and Human Resources*

Sharon McWhinney, *Human Nutrition and Food*

Richard McWhorter, *Human Sciences*

D. Morgan Bloom-Higginbottom, *Family and Community Services*

Gary Newton, *Animal Science*

Oluwagbemiga A. Ojumu, *Agricultural Economics*

Alfred L. Parks, *Agricultural Economics*

Freddie L. Richards, *Agriculture and Human Resources*

Juanito Reyes, *Agronomy*

Eric Risch, *Agricultural Engineering*

Victor G. Stanley, *Animal Science*

Faye M. Walker, *Human Nutrition and Food*

Lindsey Weatherspoon, *Animal Science*

Selamawit Woldesenbet, *Animal Science*

### **PURPOSE AND GOALS**

The Agriculture program prepares the graduate to perform as an entry level professional in a broad range of areas including food, agricultural, and natural resource marketing, production, distribution and processing. The Agriculture degree program is designed to provide a generalist emphasis that serves as the foundation for diverse careers and as a springboard for advanced study in agriculture and natural resource sciences and related fields. Concentrations are available in Agribusiness, Plant and Soil Sciences, and Animal and Food Sciences. These concentrations guide the student in defining an area for future specialization that can be attained at the graduate level and through professional practice.

The emphasis in Animal and Food Sciences may also serve as pre-professional curricula for Veterinary Medicine. Additional courses that help the student qualify for professional study in veterinary medicine should be selected in consultation with an advisor.

Students enrolled in Agriculture are afforded opportunities to gain hands-on experience through laboratory, field exercises, cooperative education and summer job assignments. Students completing the program are able to demonstrate varied skills in many areas. Guidance and support are provided to foster personal development and leadership skills essential for effective professional practice in the chosen field of practice.

The degree program in Dietetics is designed to provide quality dietetic education that enhances student development and provides an avenue toward the eligibility of students to become registered dietitians. The Human Nutrition and Food program is accredited by the Accreditation Council for Education in Nutrition and Dietetics (ACEND), 120 South Riverside Plaza, Suite 2000, Chicago, Illinois 60606-6695; Telephone: 800-877-1600 ext. 5400. Website <http://www.eatright.org>. Graduate in Human Sciences and Dietetics are positioned to provide services to individuals, families and their communities and to help effect an optimum balance between families and their environments. The graduate has the expertise to focus on family-community interactions, family problems and needs, the identification and efficient utilization of resources available to the individual and the family as consumer, and the components for optimal development of persons in our society.

The program offerings in Family and Community Services are developed on the premise that the family is the foundation of society. Quality family functioning within the social structure is fundamental to the functioning of all society. Therefore, programs are designed to provide:

1. A foundation and requisite skills for professional practice in areas related to individual, family, consumer and human developmental sciences;
2. Varied experiences which encourage a working knowledge of the interrelationship between the environment, consumer needs, resource management, and the social and emotional worlds of diverse individuals and families;
3. The fundamental knowledge, skills, and resources for comprehensive services to individuals and families in urban and rural communities worldwide;
4. Instructional support that guides the student in the development of competencies that enable them to enter graduate and professional schools which enhance skills for practice in the broad spectrum of the human sciences profession.

The degree program in Family and Community Services is designed to provide a generalist emphasis and the foundation for specialization in the broad spectrum of careers related to child, family and community studies, family and community services, teacher education, and fashion and related apparel merchandising and design.

**BACHELOR OF SCIENCE IN AGRICULTURE DEGREE PROGRAM**

The degree program in Agriculture is a generalist program that provides a broad based study of the food, agricultural and natural resource sciences. The Concentration options allow the student to gain depth in a specialty area and build the foundation for graduate study in the field. Each student must select one of the Concentration options in order to complete requirements for the degree, B.S. in Agriculture.

**DEGREE PROGRAM REQUIREMENTS**

**Core Curriculum..... 42 SCH**  
All Agriculture Core Curriculum requirements are shown in the suggested degree program sequence.

**Agriculture Program Requirements ..... 54 SCH**  
AGEC 1233, 2213, 2223, 3223, 4223; AGEG 1413; AGHR 4413; AGRO 1703, 2603, 2613, 3633, 3713; ANSC 1513, 2513, 2523 or 2543, 3503.

**Concentration..... 24 SCH**  
**Total Degree Requirements ..... 120 SCH**

**Concentration Options**

**Agribusiness**  
AGEC 3213, 4233, 4253; ACCT 2113; ECON 4213; MATH 2003; MGMT 1013; MRKT 3103.

**Plant and Soil Sciences**  
AGRO 2633, 2723, 2733, 3623, 3643, 3733, 4613, 4623. Consult an advisor. Additional semester credit hours may be required for specialized job requirements. Examples include: BIOL 1034; CHEM 2013; MATH 1123.

**Animal and Food Sciences**  
ANSC 2533, 2543, 3513, 3523, 4533; FDSC 3583, 3593, 4573. Consult an advisor. Veterinary Medical School admission requirements may be achieved through this concentration. Additional semester credit hours are required.

**Minor Requirements..... 24 SCH**  
Select 12 SCH lower division courses plus 12 SCH upper division courses in consultation with an advisor.

## AGRICULTURE SUGGESTED DEGREE PROGRAM SEQUENCE

### FRESHMAN YEAR

<i>First Semester</i>		<i>Hours</i>	<i>Second Semester</i>		<i>Hours</i>
ENGL 1123	Freshman Composition I	3	AGEG 1413	Fund. of Agricultural Mechanics	3
POSC 1113	American Government I	3	ENGL 1133	Freshman Composition II	3
MATH 1113	College Algebra	3	SPCH 1003	Fund. Of Speech Communication	3
AGEC 1233	Fund. Of Agricultural Economics	3	AGRO 1703	Crop Science	3
AGHR 1313	Agricultural Science and Technology	3	POSC 1123	American Government II	3
ANSC 1513	General Animal Science	3		Science Elective	3
<b>Total</b>		<b>18</b>	<b>Total</b>		<b>18</b>

### SOPHOMORE YEAR

<i>First Semester</i>		<i>Hours</i>	<i>Second Semester</i>		<i>Hours</i>
HIST 1313	U.S. to 1876	3	HIST 1323	The U.S.-1876 to Present	3
AGRO 2603	Environmental Soil Science	3	ANSC 2523	Poultry Science	3
AGEC 2213	Marketing Agricultural Products	3	AGEC 2223	Food Distribution Systems	3
AGRO 2613	Natural Resource Conservation Management	3		Humanities Elective	3
COMP 1003	Intro. To Computer Education	3		Science Elective	3
	Visual and Performing Arts Elective	3			
<b>Total</b>		<b>18</b>	<b>Total</b>		<b>18</b>

### JUNIOR YEAR

<i>First Semester</i>		<i>Hours</i>	<i>Second Semester</i>		<i>Hours</i>
AGRO 3633	Soil Fertility & Fertilizers	3		Concentration	6
AGRO 3713	General Entomology	3	ANSC 3503	Animal Nutrition	3
ANSC 2513	Animal Production and Marketing	3	ANSC 2543	Diseases and Sanitation	3
	Concentration	3			
<b>Total</b>		<b>12</b>	<b>Total</b>		<b>12</b>

### SENIOR YEAR

<i>First Semester</i>		<i>Hours</i>	<i>Second Semester</i>		<i>Hours</i>
AGEC 3223	Agricultural Financial Analysis	3		Concentration	9
AGEC 4223	Principles of Agri-business Management	3	AGHR 4413	Special Topics	3
	Concentration	6			
<b>Total</b>		<b>12</b>	<b>Total</b>		<b>12</b>
			<b>Total hours</b>		<b>120</b>

**HUMAN NUTRITION AND FOOD DEGREE PROGRAM REQUIREMENTS**

The degree program in Dietetics is designed to provide quality dietetic education that enhances student development and provides an avenue toward the eligibility of students to become registered dietitians. The Didactic Program in Dietetics at Prairie View A&M University is accredited by the Accreditation Council for Education in Nutrition and Dietetics (ACEND), 120 South Riverside Plaza, Suite 2000, Chicago, Illinois 60606-6695; Telephone 800-877-1600 ext. 5400. Website <http://www.eatright.org>.

**VERIFICATION LETTER**

Students must successfully complete the outlined program of study in Human Nutrition and Food to receive a BS degree in Dietetics. In addition, students must graduate with at least a 3.0 GPA in major and Support Area Requirements with a grade of “C” or better in each course. In instances, where courses are substituted or completed as independent study in the department, the student is required to take and successfully complete an examination covering the relevant knowledge and competencies in those areas. If all the above criteria are met, the program will issue a verification statement to the student. Verification Statements are issued within two weeks after graduation.

**Core Curriculum..... 42 SCH**

All Human Nutrition and Food Core Curriculum requirements are shown in the suggested degree program sequence.

**Human Nutrition and Food Program Requirements..... 52 SCH**

HUSC 1343, 1351, 3323; HUNF 2633, 2653, 2663, 3613, 3623, 3633, 3653, 4303, 4413, 4603, 4613, 4663, 4673, 4693; HDFM 2553

**Support Area Requirements ..... 35 SCH**

BIOL 1054, 1073; CHEM 2032, 2033, 2043, 4033; CHEM 1011, 1021; ECON 2113; MATH 2003; MGMT 1013, 3103; SOCG 1013

**Total Degree Requirements ..... 129 SCH**

**Concentration Option in Food Science ..... 12 SCH**

FDSC 3583, 3593, 4553, 4573

**Minor Requirements..... 18 SCH**

HUSC 1343; HUNF 2633, 2653, 2663, 3613, 4693



## HUMAN NUTRITION AND FOOD SUGGESTED DEGREE PROGRAM SEQUENCE

### FRESHMAN YEAR

<i>First Semester</i>		<i>Hours</i>	<i>Second Semester</i>		<i>Hours</i>
ENGL 1123	Freshman Composition I	3	BIOL 1054	Human Ant and Phys and Lab	4
HIST 1313	US to 1876	3	ENGL 1113	Freshman Composition II	3
HUSC 1343	Ecology of Human Nutrition	3	HIST 1323	The U.S. 1876 to Present	3
HUSC 1351	Human Sciences Perspectives	1	COMP 1003	Intro to Computer Education	3
MATH1351	College Algebra	3	CHEM 1021	General Inorganic Chemistry Lab	1
CHEM 1011	General Inorganic Chemistry Lab	1	CHEM 1043	General Inorganic Chemistry	3
CHEM 1033	General Inorganic Chemistry	3			
<i>Total</i>		<i>17</i>	<i>Total</i>		<i>17</i>

### SOPHOMORE YEAR

<i>First Semester</i>		<i>Hours</i>	<i>Second Semester</i>		<i>Hours</i>
BIOL 1073	General Microbiology	3	CHEM 2043	Organic Chemistry	3
CHEM 2032	Organic Chem. Lab	2	HUNF 2633	Food Service Systems	3
CHEM 2033	Organic Chemistry	3	ECON 2113	Principles of Microeconomics	3
HUNF 2653	Food Principles & Meal Mgmt.	3	POSC 1123	American Government II	3
POSC 1113	American Government I	3	MGMT 1013	Intro to Business	3
SPCH 1003	Fund of Spch Communication	3	PSYC 1113	General Psychology	3
<i>Total</i>		<i>17</i>	<i>Total</i>		<i>18</i>

### JUNIOR YEAR

<i>First Semester</i>		<i>Hours</i>	<i>Second Semester</i>		<i>Hours</i>
MGMT 3103	Principals of Management	3	HUNF 2662	Food Systems Management	3
HUNF 3613	Lifecycle Nutrition	3	HUNF 3633	Advanced Nutrition	3
MATH 2003	Elementary Statistics	3	HUNF 3653	Nutrition and Disease	3
CHEM 4033	Biochemistry	3	HUNF 3623	Food Science & Technology	3
	Visual and Performing Arts Electice	3	HUNF 4413	Special Topics: Theories and Behavior Change Models in Nutrition Counseling	3
<i>Total</i>		<i>15</i>	<i>Total</i>		<i>15</i>

### SENIOR YEAR

<i>First Semester</i>		<i>Hours</i>	<i>Second Semester</i>		<i>Hours</i>
HUNF 4603	Physiochemical Aspects of Food	3	HUNF 3673	Medical Nutrition Therapy II	3
HUNF 4663	Medical Nutrition Therapy I	3	HUNF 4613	Research in Nutrition	3
HUNF 4303	Human Nutrition and Food Practicum	3	HUNF 4693	Community Nutrition & Health	3
HDFM 2553	Human Dev and Lifespan	3	SOCG 1013	General Sociology	3
HUSC 3323	Program Planning II	3		Human Elective	3
<i>Total</i>		<i>15</i>	<i>Total</i>		<i>15</i>
			<i>Total hours</i>		<i>129</i>

**BACHELOR OF SCIENCE IN FAMILY AND COMMUNITY SERVICES  
DEGREE PROGRAM**

The program in Family and Community Services is a generalist program that provides a broad-based study of Family and Community Services. The Concentration options allow the student to gain depth in a Human Sciences specialty area while maintaining the

foundation upon which to build in graduate study. Each student must select one of the Concentration areas in order to complete the requirements for the degree, B.S. in Family and Community Services.

**DEGREE PROGRAM REQUIREMENTS**

<b>Core Curriculum.....</b>	<b>42 SCH</b>
All Family and Community Services Core Curriculum requirements are shown in the suggested degree program sequence.	
<b>Family and Community Services Program Requirements.....</b>	<b>53 SCH</b>
AGHR 4413; HDFM 2553, 3513; HUNF 2633, 2653, 3633; HUSC 1303, 1313, 1333, 1343, 1351, 2373, 3313, 3323, 3353, 3373,4306, 4363	
<b>Concentration.....</b>	<b>24 SCH</b>
<b>Restricted Elective .....</b>	<b>9 SCH</b>
<b>Total Degree Requirements .....</b>	<b>128 SCH</b>

**Concentration Options**

**Family and Community Services Teacher Education**  
CUIN 3003, 3013, 4003, 4013, 4826;  
MATH 2003; Social Science Elective – 3 SCH  
Consult an advisor. Additional semester credit hours may be required for completion of teacher certification requirements. Examples include: Science Laboratory – 2 SCH, Human Performance – 4 SCH.

**Child and Family Studies (Human Development and the Family)**  
HDFM 2513, 2533, 2543, 3503, 3523, 3543, 4513  
Elective – 3 SCH

**Merchandising and Design**  
DESN 2113, 3123, MERC 3713, 3723, 3743, 4743, 4763, 4773

**Minor Requirements.....** **18 SCH**  
Any combination of courses from DESN, HDFM, HUNF, HUSC, and/or MERC defined in consultation with an Advisor.

## FAMILY AND COMMUNITY SERVICES SUGGESTED DEGREE PROGRAM SEQUENCE

### FRESHMAN YEAR

<i>First Semester</i>		<i>Hours</i>	<i>Second Semester</i>		<i>Hours</i>
ENGL 1123	Freshman Composition I	3	HUSC 1343	Ecology of Human Nutrition	3
POSC 1113	American Government I	3	HUSC 1351	Human Sciences Perspectives	1
MATH 1113	College Algebra	3	ENGL 1133	Freshman Composition II	3
COMP 1003	Introduction to Computer Education	3	DESN 1123	Design II	3
HUSC 1303	Elementary Textiles	3	Or HUSC 1313	Color and Design	
	Natural Science	3	POSC 1123	American Government II	3
				Natural Science	3
<b>Total</b>		<b>18</b>	<b>Total</b>		<b>16</b>

### SOPHOMORE YEAR

<i>First Semester</i>		<i>Hours</i>	<i>Second Semester</i>		<i>Hours</i>
SPCH 1003	Fundamentals of Speech	3	HDFM 2533	Contemporary Family	3
HUSC 1333	Apparel Selection and Production	3	HUNF 2633	Food Service Systems	3
HUNF 2653	Food Principles/Meal Management	3	HIST 1323	The U.S.-1876 to Present	3
HUSC 2373	Consumers and the Market	3	HDFM 2553	Human Development Lifespan	3
HIST 1313	U.S. to 1876	3	ENGL 2153	Introduction to Literature	3
<b>Total</b>		<b>15</b>	<b>Total</b>		<b>15</b>

### JUNIOR YEAR

<i>First Semester</i>		<i>Hours</i>	<i>Second Semester</i>		<i>Hours</i>
HDFM 3513	Individual/Family Counseling	3	HUNF 3633	Advanced Nutrition	3
HUSC 3313	Program Planning I	3	HUSC 3373	Child Development	3
HUSC 3353	Housing and Human Environments	3	HUSC 3323	Program Planning II	3
	Visual and Performing Arts	3		Concentration	6
	Concentration	6		Restricted Elective	3
<b>Total</b>		<b>18</b>	<b>Total</b>		<b>18</b>

### SENIOR YEAR

<i>First Semester</i>		<i>Hours</i>	<i>Second Semester</i>		<i>Hours</i>
HUSC 4304	Family Consumer Econ. and Mgmt.	4		Concentration	6
HUSC 4363	Family and Community Studies	3	Or HUSC 4306	Internship	
	Restricted Elective	3	AGHR 4413	Special Topics	3
	Concentration	6		Restricted Elective	3
<b>Total</b>		<b>16</b>	<b>Total</b>		<b>12</b>
			<b>Total Hours</b>		<b>128</b>

## **School of Architecture**

### **ADMINISTRATIVE OFFICER**

Ikhlas Sabouni, Dean & Director, *Architecture*

### **ADMINISTRATIVE DIRECTORS**

Bruce Bockhorn, *Director, Construction Science*

Clarence Talley, *Director, Art*

### **CENTERS**

Barry Norwood, Director, *Community Urban and Rural Enhancement Service*

### **FACULTY**

Bakama Bakamanume, *Community Development*

Dan Bankhead, *Architecture*

William Batson, *Architecture*

Bruce Bockhorn, *Architecture & Construction Science*

Jeffrey Bolander, *Architecture & Construction Science*

Marshall Brown, *Architecture*

Jeremy Curtis, *Architecture*

Sheryl Tucker-deVazquez, *Architecture*

Rudy Eguia, *Architecture & Construction Science*

James Haliburton, *Architecture*

Daniel Hernandez, *Community Development & Construction Science*

Lason Hines, *Community Development*

Ann Johnson, *Art*

Anne McGowan, *Construction Science*

James McGregor, *Architecture & Construction Science*

Ben McMillan, *Architecture & Construction Science*

Tracey Moore, *Art*

Barry Norwood, *Architecture & Construction Science*

John Okello, *Architecture*

Camilo Parra, *Architecture & Construction Science*

William Price, *Architecture*

Kevin Riles, *Community Development*

Arsenio Rodrigues, *Architecture*

Courtney Johnson Rose, *Community Development*

Yunsik Song, *Architecture*

Clarence Talley, Sr., *Art*

Peter Wood, *Architecture*

## **MISSION**

The School of Architecture combines teaching, research and service to proactively develop the discipline of creative and innovative problem solving to address the needs of our society.

## **VISION**

Graduates of the School of Architecture will participate in the contemporary milieu, encourage, anticipate, and respond to changes in the local, national and international communities.

The School of Architecture with programs in Architecture, Construction Science and Community Development and Art are dedicated to accomplishing their mission through graduates for excellence in teaching, research and service by preparing graduates for leadership roles in rebuilding America's cities and improving the quality of the built environment. By offering a diverse curriculum led by an accomplished faculty in a comprehensive studio and classroom environment, the School of Architecture programs will educate students for significant roles as practitioners, developers and leaders in architecture, construction, community planning and community development. Students in the programs of the School will be challenged to develop their abilities in problem solving, creative thinking and informed decision making as a focus of their professional education. They will accomplish this in a nurturing and student centered environment that fosters personal development and professional excellence.

The location of the School of Architecture near the City of Houston offers an opportunity for students to enrich their learning experience through access to the greater architectural and construction community of the region and the many employment opportunities in the field.

## **CENTERS**

Within the School of Architecture, the Texas Institute for the Preservation of History and Culture and the Community Urban and Rural Enhancement Service Center serve as the research and service arms in the Community. Both centers serve to educate and involve the students and faculty in the School and the University with projects and activities related to the historic fabric and urban settings of the community.

### **THE TEXAS INSTITUTE FOR THE PRESERVATION OF HISTORY AND CULTURE ([www.tiphc.org](http://www.tiphc.org))[pvamu.edu/pages/16079.asp](http://pvamu.edu/pages/16079.asp).)**

Serving as a research and service center for the University and the School of Architecture. The Institute integrates multiple disciplines and a wide range of knowledge, e.g., oral history, historic preservation; and comprehensive documentation reflecting the historical influence of large scale and on small scale communities in Texas. The institute also views indigenous culture, architecture and community development as

potentially symbiotic; it moves beyond the tripartite disciplines to a search for ways to educate the students and the community and to actively regenerate human understanding.

**COMMUNITY URBAN AND RURAL ENHANCEMENT SERVICE CENTER (CURES)**

The center’s focus is on the survey to work with inner city neighborhoods and documentation, rural communities across the State of Texas to identify their needs pertaining to the built environment as it pertains and to the legacies of culturally specific help them shape their communities. Through collaboration within the School of Architecture programs, the center is able to prepare to help deliver a comprehensive holistic approach to problem solving that assist neighborhoods, local governing bodies, community-based organizations, and citizens with their vision. CURES, develop visions and plans for many types of places and open spaces using green building concepts. Faculty and students involved in the center apply their education and training in architecture, construction and development to promote innovation planning and re-adaptive use of exciting and historic structures. The center is also involved in many of the university’s wide service learning activities that involve students of all disciplines with the enhancement of communities in our state and across our country.

**INSTRUCTIONAL ORGANIZATION**

The School of Architecture offers programs leading to the following degrees:

<b>Program</b>	<b>Degree Offered</b>
Architecture	Bachelor of Science in Architecture Master of Architecture (professional degree)*
Construction Science	Bachelor of Science in Construction Science
Community Development	Master of Community Development*

\* See the Graduate Catalog.

**BACHELOR OF SCIENCE PROGRAM**

The Bachelor of Science degree (pre-professional program) provides the common ground for studies in architecture. It is intended to cover the basic content for the preparation of an educated practitioner and to lead to professional studies at the graduate level.

The Bachelor of Science in Architecture degree has two tracks; Program A, the professional track, leads directly to enrollment in the Master of Architecture professional degree. Program B, the non-professional track, provides a basic education in architecture with the opportunity to study a broad range of elective opportunities. Both tracks consist of 132 credit hours of undergraduate courses.

## **BACHELOR OF SCIENCE IN CONSTRUCTION SCIENCE PROGRAM**

The Bachelor of Science in Construction Science comprises of a total of 121 credit hours. The curriculum is structured to prepare graduates for professional management and technical positions within the construction industry. Graduates also have the option of obtaining a graduate degree in construction management or business.

### **CONSTRUCTION SCIENCE AS A SECOND BACCALAUREATE DEGREE AND A MINOR**

Due to the increased use of the Design-Build Method for project delivery, the School of Architecture offers students majoring in architecture the opportunity to obtain a second baccalaureate degree or a minor in the field of construction science.

#### **Requirements for Construction Science as a Second Baccalaureate Degree 30 SCH**

A second baccalaureate degree in Construction Science can be obtained by architecture majors with completion of 30 credit hours.

MATH 2003, CONS 3533, 3633, 4403, 4423, 4603, 4633, 4753, 4773, and ARCH 3013. (Depending on their career interests and with approval of the program Director, the student may substitute CONS 4413, CONS 4433, CONS 4443 or CONS 4453 for CONS 4423).

#### **Construction Science Minor Requirements..... 18 SCH**

A minor in Construction Science can be obtained by completing 18 credit hours.

Recommended courses are: CONS 3633, 4603, 4633, 4753, ARCH 3013 and one of the following: CONS 4413, 4423, 4433, 4443, 4453.

The hours for the second baccalaureate degree are an addition to those counted for the first degree and must be completed in accordance with university and School of Architecture requirements.

## **ART MINOR**

The Art Department program serves as the cultural arm of the university. The goal is to prepare students for the production, study, critiquing and teaching of the arts. Course work is designed to stimulate a greater awareness of the visual arts both past and present.

Exhibitions and guest lecturers serve to give students a deeper understanding of art and its influence on everyday life. The faculty of the School of Architecture believes that studies in the fine arts and art history are valuable to the liberal and professional education of all students. A number of courses and the Minor in Art are offered to the university community as opportunities to learn the basics of art or to develop and area of special ability by completing the requirements for the minor. Students wishing to participate in art classes or obtain a Minor in Art are urged to meet with the appropriate faculty and administrators of the program to develop a curriculum designed to suit their needs.

**Requirements for Art as a Minor Field..... 18 SCH**

ARTS 1203, 1113, 1153, 2193, 3143, 3193. Choose two from the courses listed below as  
ARTS 3113, ARTS 3143, ARTS 3173, ARTS 3193, ARTS 3513, ARTS 4103

**MASTER OF ARCHITECTURE PROFESSIONAL PROGRAM**

The Master of Architecture as a professional program prepares students for roles in the profession of architecture by building on the content of the pre-professional degree through intensive and focused advanced studies in the field of architecture practice and design. A major objective of this program is preparing graduates to obtain their professional architecture registration. The Master of Architecture degree program, consisting of an undergraduate curriculum of 132 credit hours and a graduate curriculum of 36 credit hours, is the accredited program at Prairie View A&M University.

**ACCREDITATION**

The Master of Architecture degree is accredited by the National Architectural Accrediting Board (NAAB). The NAAB provides the following mandatory accreditation statement.

“In the United States, most state registration boards require a degree from an accredited professional degree program as a prerequisite for licensure. The National Architectural Accrediting Board (NAAB), which is the sole agency authorized to accredit U.S. professional degree programs in architecture, recognizes three types of degrees: the Bachelor of Architecture, the Master of Architecture, and the Doctor of Architecture. A program may be granted a 6-year, 3-year, or 2-year term of accreditation, depending on the extent of its conformance with established educational standards.

Doctor of Architecture and Master of Architecture degree programs may consist of a pre-professional undergraduate degree and a pre-professional graduate degree that, when earned sequentially, constitute an accredited professional education. However, the pre-professional degree is not, by itself, recognized as an accredited degree.”

Prairie View A&M University, School of Architecture offers the following NAAB, accredited degree program:

Master of Architecture (pre-professional degree with a minimum of 132 credit hours that includes eight design studios + 36 graduate credit hours).

Next accreditation visit: 2018

Requirements for Licensure as an Architect.

Requirements to become a licensed architect include:

1. Obtain a degree in architecture which has been accredited by the National Architectural Accreditation Board (NAAB).



2. Internship with a licensed architect(s) in accordance with the Internship Development Program (IDP) that is administered by the National Council of Architectural Registration Boards.
3. Completion of the Architect Registration Examination (ARE).

## **HONOR SOCIETIES, CLUBS, AND SERVICE ORGANIZATIONS**

Student organizations play an important role in the socialization of students and in helping students develop skills in leadership and service. All students are encouraged to become active members in any of the following appropriate organizations sponsored by the School of Architecture.

- American Institute of Architecture Students (AIAS)
- Construction Specifications Institute (CSI)
- National Organization of Minority Architecture Students (NOMAS)
- Women in Architecture
- The Tau Sigma Delta Honor Architecture Arts of Design National Honor Society
- Alpha Rho Chi
- Association of General Contractors
- National Association of Homebuilders (NAHB)

## **ADMISSION REQUIREMENTS**

Admission is open to all qualified individuals in accordance with the policies of Prairie View A&M University. Application instructions and information for incoming students is completed through the State of Texas Common Application for Freshman Admission available at [www.pvamu.edu](http://www.pvamu.edu).

For qualified entering freshmen and transfer students, the School of Architecture offers the Architectural Concepts Institute (ACI), a special summer program described in the catalog section, “Summer and International Enrichment Programs.”

## **TRANSFER STUDENTS**

Transfer students from accredited architecture programs or with non-architectural education backgrounds should contact the School of Architecture for information regarding appropriate placement within the curriculum.

## **TRANSFER COURSES**

Students wishing to transfer architecture and/or construction science courses taken at another institution must provide sufficient evidence of equivalency. No course with a grade less than a “C” will be accepted.

## **ADMISSION TO THE PROGRAMS**

During the spring semester of the third year of study, students wishing to pursue the professional degree in architecture will make formal application to that program. Admission will be determined by grade point average (overall and in architecture), a review of the student portfolio of work and faculty recommendations. Students admitted to the professional program will complete the Program A: Professional Track, during their senior year and complete a formal application with the Office of Graduate Studies prior to completing their final semester of undergraduate studies.

**Computer Requirement.** Students in the program are required to have their own computer for use in the classroom or studio no later than the start of their sophomore year. Computer equipment and software must meet with prescribed hardware and software standards. Computer equipment and software requirements are posted on the school's website.

**Grades.** A grade of a "C" or better is required for all courses included in the architecture and construction science degree plan. In the program, a "C" is equivalent to a grade of 70-79. Students may repeat architecture and construction science courses only one time for grade replacement purposes.

**Student Projects, Papers or Reports.** The School of Architecture reserves the right to retain, exhibit, and reproduce all work submitted by students. Work submitted for a grade is the property of the school and remains so until it is returned to the student.

**Counseling and Advising.** Program Directors, staff and senior faculty members assist students in career counseling and guidance. Advisement for course registration is provided by the academic staff and the responsible academic program director.

**Ineligible Registration.** The School of Architecture reserves the right to prevent any student who is not eligible for registration from entering a course for reasons such as: unapproved overloads, unapproved repeated courses, lower division-upper division rule infractions, and lack of prerequisites. Any student found to be ineligible for a course, may be dropped from that course at the time of discovery.

**Catalog Selection.** Students will use the catalog issued for the year in which they were first officially admitted to the School of Architecture or may elect to use a more recent catalog. However, if they later transfer to another institution or another college at PVAMU and wish to return to the School of Architecture at Prairie View A&M University they will follow the current catalog curricula in effect if they are readmitted.

**Course Load.** Approval from the Program Director and the Dean is required for a course load of more than 18 semester hours (12 hours for a summer term). Correspondence courses are included in the student's course load, as are courses taken concurrently at other institutions. Students that are employed and working more than 20 hours a week should limit their semester hour enrollment and course selection should be determined with assistance of the academic staff.

**Class Attendance.** Prairie View A&M University requires regular class attendance. Students in the School of Architecture are expected to attend all scheduled class meeting times and activities. Absences in excess of those stipulated in each individual course syllabus may result in a student's course grade being reduced. Students should refer to the university's policy, procedures, and dates on dropping a course. Students are encouraged to meet with their academic advisor for additional information.

**Application for Degree.** Candidates for the must file for graduation with the School of Architecture and the university in accordance with deadlines established by the university. Typically, cut-off dates to submit an application occur in the final semester prior to the start of the final semester before their anticipated date of graduation. Undergraduate students must have a grade of "C" or better in all major courses and a 2.5 GPA to graduate.

**Practicum and Internship Programs.** The School of Architecture requires a graduate level internship with an architecture firm for the Masters of Architecture degree. Students may also enroll in an internship at the undergraduate level as an elective course. Students in Construction Science are required to complete two (2) internships. In order to obtain academic credit for the internship, all internships must be approved by the respective academic program director. Architecture students are encouraged to participate in the professional practicum program which offers the opportunity to receive academic credit for such activities as: "study abroad," completing a semester at another accredited architecture program, or studying in the offices of several leading architectural firms.

**Minor.** Minors are offered in Construction Science and Art. The students should consult with an architecture advisor and have a Minor Approval Form completed, approved and signed. A list of recommended courses is available from the advisor. A minor in construction science consists of 21 semester credit hours. A minor in Art consists of 12 semester credit hours. A listing of courses for both minors is provided in this catalog. At least 9 of the 18 hours must be taken in residence for the Art minor. For the Construction Science minor, only three hours may be taken off campus with the approval of the program director. Grades of a "C" or better are required in each course for both minors.

## **ACADEMIC STANDARDS AND ACADEMIC PROGRESS**

To earn credit for a course in architecture and to qualify for the next course in a sequence, a student must have earned a "C" or better. To repeat a course in architecture more than once, students must have permission of the Dean.

### **BACHELOR OF SCIENCE IN ARCHITECTURE DEGREE PROGRAM REQUIREMENTS**

**Core Curriculum (Program A and Program B).....42 SCH**  
All Architecture Core Curriculum requirements are shown in the suggested degree program. Core: ENGL 1123 & 1133, SPCH 1143, COMM 1003, MATH 1123, HIST

1313 & 1323, POSC 1113 & 1123, PHYS 2113, PHSC 1123 & 2123, ARCH 1253, 1273, 2233.

**Major Requirements – Program A: Professional Track ..... 72 SCH**  
ARCH 1233, 1266, 2223, 2243, 2256, 2266, 2273, 3256, 3266, 3283, 3293, 3453, 3463, 4433, 4443, 4456, and 4476.

**Electives ..... 6 SCH**  
**Electives (Non-Architecture)..... 12 SCH**

**Total Degree Requirements: Program A ..... 132 SCH**

**Major Requirements – Program B: Non-Professional Track ..... 60 SCH**  
ARCH 1233, 1266, 2223, 2243, 2256, 2266, 2273, 3256, 3266, 3283, 3293, 3453, 3463, 4433, and 4443.

**Electives: Program B ..... 30 SCH**

**Total Degree Requirements: Program B ..... 132 SCH**

**ARCHITECTURE SUGGESTED DEGREE PROGRAM SEQUENCE**

FRESHMAN YEAR					
First Semester		Hours	Second Semester		Hours
ARCH 1233	Visual Communications	3	ARCH 1266	Architecture Design II	6
ARCH 1253	Architecture Design I	3	ENGL 1143	Freshman Composition II Technical Writing	3
ARCH 1273	Intro. to Multimedia Computing	3	HIST 1313	The U.S. to 1876	3
MATH 1123	Trigonometry	3	POSC 1113	American Government I	3
ENGL 1123	Freshman Composition I	3	ARCH 2223	Computer Aided Design	3
Total		15	Total		18
SOPHOMORE YEAR					
First S Semester		Hours	Second Semester		Hours
ARCH 2233	History and Theory of Arch I	3	ARCH 2243	History and Theory of Arch II	3
ARCH 2256	Architecture Design III	6	ARCH 2266	Architecture Design IV	6
ARCH 2273	Materials and Methods I	3	PHSC 2123	Physical Science II	3
POSC 1123	American Government II	3	HIST 1323	The U.S. 1876 to Present	3
PHSC 1123	Physical Science I	3	COMM 1003	Fund. of Speech Communication	3
Total		18	Total		18

### JUNIOR YEAR

First Semester		Hours	Second Semester		Hours
ARCH 3256	Architecture Design V	6	ARCH 3266	Architecture Design VI	6
ARCH 3293	Structural Systems I	3	ARCH 3463	Sustainable Building	3
ARCH 3453	Environmental Systems	3	ARCH 4433	Structural Systems II	3
	Social and Behavioral Science Elective	3	ARCH 3283	Material and Methods II	3
			Elective		3
<b>Total</b>		<b>15</b>	<b>Total</b>		<b>18</b>

### SENIOR YEAR - Program A: Professional Track

First Semester		Hours	Second Semester		Hours
ARCH 4456	Architecture Design VII	6	ARCH 4476	Architecture Design VIII	6
ARCH 4443	CAD Constr. Docs and Codes	3		Elective	3
	Elective	3		Elective	3
	Elective	3		Elective	3
<b>Total</b>		<b>15</b>	<b>Total</b>		<b>15</b>
<b>Total Hours</b>					<b>132</b>

### SENIOR YEAR - Program B: Non-Professional Track

First Semester		Hours	Second Semester		Hours
ARCH 4443	CAD Constr. Docs and Codes	3	ARCH 4503	Methods of Research	3
	Electives	12		Electives	12
<b>Total</b>		<b>15</b>	<b>Total</b>		<b>15</b>
<b>Total Hours</b>					<b>132</b>

Students may obtain a minor in construction science by completing 18 semester hours as their electives in their senior year. Students may select courses from the following: CONS 3533, 3633, 4403, 4413, 4423, 4433, 4443, 4453, 4603, 4633, 4753, 4773, 4821, 4831, 4413, 4433, 4443, 4553, and ARCH 3013.

## BACHELOR OF SCIENCE IN CONSTRUCTION SCIENCE DEGREE PROGRAM

The mission of the Construction Science program is to empower students to assume the broad range of professional positions in the construction industry. Graduates will be prepared for employment in planning, estimating, scheduling, coordinating, supervising and managing construction projects. They will also have the option of continuing their education at the graduate level leading to M.S. and Ph.D. degrees in Construction Science at other universities.

The curriculum structure is designed to provide a well-rounded preparation for entry into the construction business. It is structured to provide students with knowledge of materials, methods, estimating, scheduling, operations, logistics, supervision, management and law. Additional courses required in business, architecture and general education will result in a well-rounded preparation for entry into the field.

The Bachelor of Science in Construction Science degree program requires a total of 121 semester credit hours.

DEGREE PROGRAM REQUIREMENTS

Core Curriculum..... 42 SCH

All Construction Science Core Curriculum requirements are shown in the suggested degree program.

Core: ENGL 1123 & 1143, COMM 1003, MATH 2003, PHYS 2113, PHSC 1123, PHSC 2123, HIST 1313 & 1323, POSC 1113 & 1123, ECON 2113, ARCH 1253, 1273, 2243.

Major Requirements..... 79 SCH

CONS 1231, 1241, 3533, 3633, 4403\*, 4423\*\*, 4603, 4633, 4753, 4773, 4821, 4831, ARCH 1233, 2223, 2273, 3013, 3283, 3293, 3453, 3463, 4433, 4443, ACCT 2113, FINA 2203, MATH 1124, MGMT 3103, MRKT 3103, PHYS 2111, PHSC 1121 and a natural science lab.

Total Degree Requirements ..... 121 SCH

Construction Science Electives

\*CONS 4403 Program requires two summer internships.

\*\*Career Options: Depending upon their career objectives and with approval by the program Director, students may substitute one of the following courses for CONS 4423 Commercial Construction.

- CONS 4413 Residential Construction
- CONS 4433 Industrial Construction
- CONS 4443 Highway/Heavy Construction
- CONS 4453 Facilities Management

CONSTRUCTION SCIENCE SUGGESTED DEGREE PROGRAM SEQUENCE

FRESHMAN YEAR					
First Semester		Hours	Second Semester		Hours
ARCH 1233	Visual Communications	3	ARCH 1273	Intro. to Multimedia Computing	3
ARCH 1253	Architecture Design I	3	CONS 1241	Construction Science Seminar II	1
CONS 1231	Construction Science Seminar I	1	ENGL 1143	Technical Writing	3
ENGL 1123	Freshman Composition I	3	POSC 1113	American Government I	3
HIST 1313	U.S. to 1876	3	PHSC 1123	Physical Science I	3
MATH 1124	Calculus w/ Analytical Geometry I	4	PHSC 1121	Physical Science Lab	1
Total		17	Total		14

*School of Architecture Academic Programs and Degree Plans*

SOPHOMORE YEAR					
First Semester		Hours	Second Semester		Hours
ACCT 2113	Financial Accounting	3	ARCH 2243	History/Theory of Architecture II	3
ARCH 2223	Computer Aided Design	3	ARCH 3283	Materials and Methods I	3
ARCH 2273	Materials and Methods I	3	ECON 2113	Principles of Microeconomics	3
HIST 1323	The U.S.-1876 to Present	3	FINA 2203	Legal Environment	3
MATH 2003	Elementary Statistics	3	PHSC 2123	Physical Science II	3
POSC 1123	American Government II	3		Natural Science Lab	1
<b>Total</b>		<b>18</b>	<b>Total</b>		<b>16</b>
Summer		Hours			
CONS 4403	Internship #1	3			
<b>Total</b>		<b>3</b>			
JUNIOR YEAR					
First Semester		Hours	Second Semester		Hours
ARCH 3013	Construction Estimating	3	ARCH 4443	CAD Construction Docs	3
ARCH 3293	Structural Systems I	3	ARCH 3463	Sustainable Building	3
ARCH 3453	Environmental Systems	3	ARCH 4433	Structural Systems II	3
CONS 3533	Managing Operations	3	CONS 3633	Surveying and Soils	3
			COMM 1003	Fund of Speech Communications	3
<b>Total</b>		<b>12</b>	<b>Total</b>		<b>15</b>
Summer		Hours			
CONS 4403	Internship #2	3			
<b>Total</b>		<b>3</b>			
SENIOR YEAR					
First Semester		Hours	Second Semester		Hours
CONS 4603	Labor and Safety	3	CONS 4633	Law and Ethics	3
CONS 4821	Construction Seminar	1	ARCH 4413*	CAD Construction Documents and Codes	3
MGMT 3103	Principles of Management	3	CONS 4773	Project Controls	3
CONS 4753	Scheduling and Mobilization	3	MRKT 3103	Principles of Marketing	3
	Social and Behavioral Science	3	CONS 4831	Starting a Construction Business	1
<b>Total</b>		<b>13</b>	<b>Total</b>		<b>13</b>
<b>TOTAL</b>					<b>121</b>

\*Capstone Course

## **Marvin D. and June Samuel Brailsford College of Arts and Sciences**

### **ADMINISTRATIVE OFFICER**

Danny R. Kelley, *Dean*

### **ADMINISTRATIVE STAFF**

Onimi Wilcox, *Associate Dean*

### **MISSION STATEMENT**

The Marvin D. and June Samuel Brailsford College of Arts and Sciences is committed to serving all students through academic programs aimed at developing creative thinking, critical analysis, problem solving, and communication skills that are fundamental to intellectual development and professional success. Equally important is the College's commitment to developing students' ethical and civic standards. The College strives to integrate teaching and research in the context of interdisciplinary learning through individual attention to students, innovative strategies of teaching, effective use of technology, and the promotion of economic development, partnerships, and cultural pursuits. An innovative and responsive spirit guides the College, balancing access and quality with efficiency, diversity, and a commitment to partnerships with local and global communities.

The College's departments and programs are aligned with the university's threefold missions: teaching, research, and service.

### **INSTRUCTIONAL ORGANIZATION**

The Brailsford College of Arts and Sciences offers courses leading to degrees in six departments and one division. The first two years' work is designed to give students a general educational background and to provide the knowledge and intellectual skills required for more advanced studies. During the last two years of college work, students choose a concentration in a major field. Opportunities are available for cultivating related interests and for pursuing electives that do not fall within the field of the student's major.

All freshman and sophomore students in the Brailsford College of Arts and Sciences, unless specifically authorized by the department head and the dean before registration, are required to follow the prescribed courses as set forth in the catalog. Students should plan their course of study with the department head or advisor and should consult the advisor before each registration period.



<b><u>Department</u></b>	<b><u>Major</u></b>	<b><u>Degree Offered</u></b>
<i><b>Biology</b></i>	Biology	B.S.
<i><b>Chemistry</b></i>	Chemistry	B.S.
<i><b>Languages and Communications</b></i>	English	B.A.
	Communications	B.A.
<i><b>Mathematics</b></i>	Mathematics	B.S.
<i><b>Music and Theatre</b></i>	Drama	B.A.
	Music	B.A., B.M.
<i><b>Division of Social Work, Behavioral and Political Science</b></i>	History	B.A.
	Political Science	B.A.
	Social Work	B.A.S.W.
	Sociology	B.A.
<i><b>Army ROTC</b></i>	None	
<i><b>Naval ROTC</b></i>	None	

## **HONOR SOCIETIES**

Alpha Delta Mu	Social Work
Alpha Mu Gamma	Foreign Languages
Alpha Psi Omega	Drama
Beta Beta Beta	Biology
Beta Kappa Chi	Sciences and mathematics
Lambda Pi Eta	Communications
Mu Alpha Sigma	Music
Pi Mu Epsilon	Mathematics
Pi Sigma Alpha	Political Science
Sigma Delta Pi	Spanish
Sigma Pi Sigma	Physics
Sigma Tau Delta	English
Phi Alpha Theta	History

Contact the respective departments for membership information.

## **Admission to the Marvin D. and June Samuel Brailsford College of Arts and Sciences**

Admission is based on the University's general academic requirements. Applicants must also meet specific department requirements for each major.

Transfer students must first meet all University admission requirements. Transfer credits toward the major or minor must be approved by the department head and dean of the college in which the program is located.

## **COLLEGE ACADEMIC REQUIREMENTS**

Students pursuing an undergraduate degree in the Brailsford College of Arts and Science may satisfy the language requirement through course work or examination. Credit by examination may be by Advanced Placement (AP) or College Level Examination Program (CLEP).

### **Major and Minor Requirements**

After completion of the sophomore year, all students enrolled in the College of Arts and Sciences should have selected a major. Some majors do not require a minor and students may graduate without a minor. A minor (if required) must also be chosen from a department or college of the student's choice. The selections should be made in consultation with the department head or a designated advisor.

Students must earn a minimum grade of a "C" in all classes taken in their major disciplines and a minimum grade of a "C" in all classes taken in their minor disciplines (if applicable). A specific grade point average may also be required by the department in which the student is a major or a minor before the student is approved for graduation.

Transfer credits toward the major or minor must be approved by the department head and dean of the college in which the program is located.

### **Minimum Total Credit Hours for Graduation**

Students must complete a minimum of 120 semester credit hours (or as specified by each degree program) with at least a cumulative grade point average of 2.00 in the major field of study in order to earn a bachelor's degree. Students must review the requirements for each degree program outlined in the catalog.

## **Department of Biology**

### **ADMINISTRATIVE OFFICER**

Harriette Howard-Lee Block, *Department Head, Molecular Biology*

### **FACULTY**

George E. Brown, *Genetics*

Al T. Burrs, *Anatomy and Physiology*

Alphonso K. Keaton, *Physiology*

Quincy C. Moore, *Microbiology*

E. Gloria C. Regisford, *Reproductive Physiology*

Seab A. Smith, *Botany*

Deirdre L. Vaden, *Genetics*

### **PURPOSE AND GOALS**

The curricula of the Department of Biology are designed to provide students with a wealth of biological knowledge. The department prepares students for careers as biologists and biology educators. The department also provides the undergraduate foundation for students who plan to pursue professional studies leading to the doctorate in medicine, dentistry, veterinary medicine, optometry, pharmacy, allied health and other graduate study.

### **ACADEMIC STANDARDS**

Students must earn a minimum grade of a “C” in all classes taken in their major disciplines and a minimum grade of a “C” in all classes taken in their minor disciplines (if applicable).

### **SPECIAL EMPHASIS OPTIONS**

In addition to the degree programs listed above, students may select alternate required courses in the major in such a way as to pursue specific career options. Emphasis options are available in biology teacher preparation, pre-medicine, pre-dentistry, pre-veterinary, pre-podiatry, pre-pharmacy, pre-physical therapy, or other allied health professions. Please refer to course listings on the following pages.

### **HONOR SOCIETIES AND CLUBS**

*Beta Beta Beta Biological Honor Society* stimulates sound scholarship, promotes the dissemination of scientific knowledge, and encourages investigation in the life sciences. To be eligible for selection, candidates must have a superior scholarship record and have completed at least two courses in biology totaling not less than 10 semester hours, or the equivalent of that number. They must also have completed at least one term of the

second year of a four-year curriculum or its equivalent and exemplify high ethical and moral ideals.

*Beta Kappa Chi Honor Society* encourages and advances scientific education through original investigation, dissemination of scientific knowledge, and stimulation of high scholarship in the pure and applied sciences. To be eligible for membership, students must be in the upper fifth of their university class and have completed at least 64 semester hours of university work. Candidates for membership in Beta Kappa Chi must have completed 17 semester hours in one of the sciences recognized by the society with a grade average of at least B.

*Minority Association of Pre-health Students* provides activities through partnerships with near-by chapters of Student National Medical Association (SNMA) to achieve the goal of increasing the matriculation of undergraduate students into professional health related programs by providing information, materials and mentorship opportunities. The Premedical Club exists to establish a rapport between the biology department and medical schools; to establish a better relationship between premedical students and the staff of professional schools; to provide opportunities for students to visit various health professional schools for tours, chats, and informal lectures; to assist students in becoming competent test takers and broaden their cultural perspective. The Premedical Club is open to all students interested in a medical career.

*The Pre-veterinary Medicine Club* exists to establish a rapport between the Biology Department, Veterinarians and Colleges of Veterinary Medicine; to establish student veterinary preceptor ships to provide opportunities for visits to zoos and the College of Veterinary Medicine at Texas A&M University; to become aware of the vast differences in entry requirements for the 27 colleges of Veterinary medicine and to assist students in becoming competent test takers. The club is open to all students interested in veterinary medicine.

*The Pre-dental Club* exists to establish a rapport between the biology department and dental schools; to establish a better relationship between pre-dental students and dental school staff; to provide opportunities for students to visit dental schools; to assist students in becoming competent test takers and to strengthen skills of students interested in a dental career.

*The Allied Health Club* is designed to provide these students with an opportunity to acquire knowledge in reference to the allied health discipline. This club enables students interested in physical therapy, pharmacy, physician's assistant, occupational therapy, optometry, dental hygiene, medical record administration, and public health an opportunity to learn about their chosen professions. These students are introduced to professionals in allied health; visit the campuses, and hospitals of the various programs; establish relationships with the faculty and other students interested in the allied health fields. The Allied Health Club is open to all students interested in a health professional career.

*The Pre Optometry Club* is designed to educate and prepare students for careers in optometry. The Optometry Club provides opportunities for its members to visit optometry schools and attend seminars in reference to becoming adequately prepared for entry into optometry school. Seminars are given to assist the students in becoming competent test takers for the Optometry Admissions Test. The club is open to all students interested in optometry as a profession.

*The Pre Pharmacy Club* is designed to educate and prepare students for careers in pharmacy. The Pharmacy Club invites pharmacists to speak to their club to inform them about the pharmaceutical sciences. The students visit pharmacy schools and gain knowledge in reference to successful matriculation in pharmacy school. The club assists students in becoming competent test takers for the Pharmacy College Admissions Test. The club is open to all students interested in pharmacy as a profession.

*The Texas Academy of Science* promotes scientific interest among the colleges and universities of Texas. Membership in the academy is open to all science majors of sophomore level or above who maintain a minimum grade point average of 2.00 on a 4.0 scale.

## **BACHELOR OF SCIENCE IN BIOLOGY DEGREE PROGRAM REQUIREMENTS**

**Core Curriculum..... 42 or 45 SCH**

Biology majors are required to complete one semester of Calculus (MATH 1124 or higher). Most students need to pass MATH 1113 and MATH 1123 in preparation for Calculus. Biology majors are also required to complete Physics I lecture (PHYS 2513 or 2113 or their equivalent), a Physics I laboratory, Physics II lecture (PHYS 2523 or PHYS 2123 or their equivalent) and a Physics II laboratory.

**Foreign Language Requirements (one language)..... 6 SCH**

**Major Requirements..... 48 SCH**

BIOL 1015, 1021, 1025, 1031, 1034, 2054, 3014, 3024, 3034, 3044, 3054, 3064, 3073, 3083, 3124, 4012, 4013, 4014, 4024, 4034, 4051, and 4061.

Biology majors must take the eight underlined courses BIOL 1015, 1025, 1034, 2054, 3014, 3024, 3034 and 3073. They may select the remaining 15 semester credit hours of biology from the above list of biology courses. Core curriculum courses, BIOL1113, 1123, 1111, 1054, 1064, and 1073, may not be used to satisfy the biology major requirements.

**Support Requirements..... 24 SCH**

**CHEM 1032, 1033, 1042, 1043, 2032, 2033, 2042, 2043..... 20 SCH**

**HUPF 1011 – 2151..... 4 SCH**

Biology majors are required to take four ,one (1) hour credit (HUPF) physical activity courses.

**Minor Requirements.....4 SCH**  
for a minor in chemistry or 18 to 24 SCH for other minors.

Students may elect the minor of their choice. They must satisfy the catalog requirement for the selected minor. Biology students that elect chemistry as a minor only need to complete an additional 5 SCH of advanced Chemistry to satisfy the catalog minor requirement of 25 SCH in chemistry.

**Total Degree Requirements ..... Minimum 127 SCH**

**Requirements for Biology as a Minor Field..... 26 SCH**  
BIOL 1015, 1025, 2054, 3014, 3024, 3034

**BIOLOGY SUGGESTED DEGREE PROGRAM SEQUENCE**

FRESHMAN YEAR					
First Semester		Hours	Second Semester		Hours
BIOL 1021	Biology Seminar	1	BIOL 1025	General Biology	5
BIOL 1015	General Biology	5	BIOL 1031	Biology Seminar	1
ENGL 1123	Freshman Composition I	3	*MATH 1124	Calculus/Analytic Geometry I	4
COMP 1003	Introduction to Computer Education	3	CHEM 1043	General Inorganic Chemistry II	3
CHEM 1033	General Inorganic Chemistry I	3	CHEM 1042	General Inorganic Chemistry Lab	2
CHEM 1032	General Inorganic Chemistry Lab	2	ENGL 1133	Freshman Composition II	3
Total		17	Total		18
SOPHOMORE YEAR					
First Semester		Hours	Second Semester		Hours
BIOL 2054	Genetics	4	BIOL 1034	Botany	4
CHEM 2033	General Organic Chemistry	3	CHEM 2043	General Organic Chemistry	3
CHEM 2032	General Organic Chemistry Lab	2	CHEM 2042	General Organic Chemistry Lab	2
SPCH 1003	Fund. of Speech Communication	3	POSC 1113	Government I	3
PHYS 2113 or 2513	Physics I	3	PHYS 2123 or 2523	Physics II	3
PHYS 2111 or 2511	Physics Lab I	1	PHYS 2121 or 2521	Physics Lab II	1
HUPF	Physical Activity	1	HUPF	Physical Activity	1
Total		17	Total		17

<b>JUNIOR YEAR</b>					
<b>First Semester</b>		<b>Hours</b>	<b>Second Semester</b>		<b>Hours</b>
BIOL 3073	Molecular Biology I	3	BIOL 3024	Human Physiology/Anatomy	4
BIOL 3014	Human Physiology/Anatomy	4	**BIOL	Advanced Biology Elective	4
HIST 1313	U.S. to 1876	3	HUPF	Physical Activity	1
	Foreign Language 1013 or higher	3	HIST 1323	The U.S.-1876 to Present	3
POSC 1123	American Government II	3		Foreign Language 1023 or higher	3
HUPF	Physical Activity	1			
<b>Total</b>		<b>17</b>	<b>Total</b>		<b>15 or more</b>
<b>SENIOR YEAR</b>					
<b>First Semester</b>		<b>Hours</b>	<b>Second Semester</b>		<b>Hours</b>
BIOL 3034	Microbiology	4	**BIOL	Advanced Biology Elective	3
**BIOL	Advanced Biology Elective	4		Humanities	3
**BIOL	Advanced Biology Elective	2 or 4	***BIOL	Minor courses (5 in CHEM or 24 or more SCH in another field)	5 or more
	Visual and Performing Arts	3		Social and Behavioral Sciences	3
<b>Total</b>		<b>13 or 15</b>	<b>Total</b>		<b>14 or more</b>

\* Biology majors are required to take MATH 1124 or higher. Students may need to take Algebra or Pre-calculus before enrolling in Calculus. Other students may be prepared to start with Calculus I or higher math.

\*\* Electives in 15 SCH of upper division (advanced) Biology courses. Elect from BIOL 3044, 3054, 3064, 3083, 3124, 4012, 4013, 4024, 4034, 4051 and 4061. A total of forty-eight (48) Biology SCH are required.

\*\*\* Biology majors may elect the minor of their choice and satisfy the catalog requirements for that minor. However biology majors only need to complete CHEM 4043 and 4042, Biochemistry, to complete the catalog requirements for a minor in chemistry.

## **SPECIAL EMPHASIS PROGRAMS**

The following electives should be selected to prepare for the specialized fields listed.

### **Pre-medicine and Pre-dentistry**

The minimum requirements for admission to medical or dental school include average scores on the Medical School Admission Test (MCAT) or Dental Aptitude Test (DAT)

and the satisfactory completion of 90 semester hours of the premedical or pre-dental curriculum with average or better grades.

Candidates for admission are evaluated on the basis of their academic background, ability to succeed in professional school, integrity, psychological stability, motivation, judgment, and resourcefulness. The admissions committee will also evaluate the recommendations of the premedical advisory committee.

Students must apply to medical or dental school by June 1, one year in advance of their expected entrance. They are therefore advised to take the MCAT or DAT by the spring of their junior year.

### **MCAT Registration**

Association of American Medical Colleges

[Mcat@aamc.org](mailto:Mcat@aamc.org) or [www.aamc.org/mcat](http://www.aamc.org/mcat)

### **DAT Registration**

Association of American Dental Schools

#### **MCAT Registration**

American College Testing Program

P.O. Box #414

Iowa City, IA 52240

(319) 337-1305

#### **DAT Registration**

Div. of Educational Measurements

Council on Dental Education

American Dental Association

211 East Chicago Avenue

Chicago, IL 60611

(312) 440-2689

The pre-professional curriculum qualifies students to apply to schools of medicine, dentistry, pharmacy, podiatry, optometry, and graduate studies. The curriculum enables students to complete the MCAT, DAT, PCAT, OAT and GRE preparatory course by the spring of their junior year. Students are encouraged to attend at least one summer session to ensure completion of necessary courses prior to the summer of their junior year.

### **Dental School Early Admission Programs**

The University of Texas Dental School at San Antonio, Baylor College of Dentistry in Dallas, The University of Texas Dental Branch at Houston and the University of Iowa Dental School in Iowa City, Iowa have established early admission agreements with Prairie View A&M University. Students may apply for early admission to these schools after completing the first year of the biology curriculum for majors with a 3.0 or higher GPA.

Applications may be obtained from the pre-dental advisor (Dr. Seab Smith). The application deadline is October 1 of the student's sophomore year. The dental schools will evaluate each application and make the selections of students for interviews.



The dental schools will also award early admission to a limited number of the qualified applicants. The admitted students will participate in pre-matriculation programs at the dental schools in the summers of their sophomore and junior years. In the senior year, the admitted students will have dual enrollment at Prairie View A&M University and the

Dental School. However, the students will take first year dental school courses which will satisfy the biology B.S. degree requirements for the senior year of the special curriculum.

### **Pre-Veterinary Medicine**

The pre-veterinary medicine curriculum provides the prerequisites for admission to professional veterinary medicine schools. The curriculum also leads to a Bachelor of Science degree in biology. Students in the pre-veterinary medicine program should apply to veterinary medical school at the beginning of their third year. Students should write to the Office of Admissions of the desired institution for information about specific admission requirements.

Most schools of veterinary medicine require the Graduate Record Examination (GRE), Veterinary Admission Test (VAT), or Medical College Admission Test (MCAT). It is the students' responsibility to determine which of these examinations is required by the institution to which they are seeking admission.

<b>Requirements in Addition to Biology Degree Requirements .....</b>	<b>8 SCH</b>
<b>Mathematics: MATH 3003.....</b>	<b>3 SCH</b>
<b>Chemistry: CHEM 4033, 4042.....</b>	<b>5 SCH</b>

Pre-veterinary medical students should contact the pre-vet faculty advisor (Dr. Al T. Burrs) in the Department of Biology.

### **Biology Teacher Preparation**

Biology majors who plan to teach should follow the biology curriculum and the Teacher Certification Program in order to be eligible for certification as a teacher of biology, grades 7-12.

Student teaching is required of all students preparing to teach. Program prerequisites for student teaching should be completed before applying for student teaching. Additional information and the suggested curriculum for the Bachelor of Science degree with a Teacher Education option may be obtained from the biology teacher education faculty advisor, Dr. Seab Smith in the biology department.

## **Department of Chemistry**

### **ADMINISTRATIVE OFFICER**

Remi Oki, Department Head, *Inorganic Chemistry*

### **FACULTY**

Innocent J. Aluka, *Geological Sciences*

Ananda Amarasekara, *Organic Chemistry*

Cleo L. Bentley, Jr., *Optical Physics*

Orion Ciftja, *Theoretical Condensed Matter and Computational Physics*

Gary M. Erickson, *Space Physics*

Vasant M. Doctor, *Biochemistry*

Hua-jun Fan, *Inorganic Chemistry*

Max Fontus, *Physical Chemistry*

Hylton G. McWhinney, *Analytical Chemistry*

Premkumar B. Saganti, *Theoretical Nuclear, Medical and Radiation Physics*

Nathaniel Soboyejo, *Organic Chemistry*

Kevin A. Storr, *Experimental Condensed Matter Physics*

John R. Williams, *Physical Chemistry*

### **CHEMISTRY PROGRAM**

#### **PURPOSE AND GOALS**

The Department of Chemistry is concerned with facilitating learning through the analysis and synthesis of data as it relates to the chemical world. The B.S. program in Chemistry is designed to provide deep understanding of scientific processes and principles, which will enable students to develop intellectually, culturally, socially and morally. It is further intended to provide a comprehensive foundation in all the major areas of Chemistry, while offering a good measure of flexibility. Through the execution of its function, the Department prepares students for careers in teaching, research, industry, and pre-professional training in Medicine, Dentistry and Allied health professions.

#### **ACADEMIC STANDARDS**

Students must earn a minimum grade of a “C” in all classes taken in their major disciplines and a minimum grade of a “C” in all classes taken in their minor disciplines (if applicable).

#### **Special Emphasis Options**

The Department of Chemistry offers a Bachelor of Science Degree with the following options:

**Traditional Chemistry Option:** This program is designed for students who plan to be professional chemists, and to pursue graduate studies in chemistry.

**Biomedical Science Options:** This program is designed for students who plan additional study toward the M.D., D.D.S., or D.V.M. degrees. It is also suitable for students interested in medical or biomedical research as well as for those who plan to pursue a graduate degree in the biochemical or biomedical areas.

**Forensic Science Option:** This option is for students interested in career in crime laboratories, drug enforcement agency, food and drug administration, and other related agencies.

### **HONOR SOCIETIES, CLUBS, AND SERVICE ORGANIZATIONS**

The William E. Reid Student Chapter of the National Organization for the Professional Advancement of Black Chemists and Chemical Engineers (NOBCCHE) introduces students to the chemical professional environment in business, industry, government, and academia with special emphasis on the role of the minority chemist.

The student Affiliate Chapter of the American Chemical Society (ACS/SA) serves the dual role as departmental club and the avenue of participation to the chemical community. Chemistry majors and minors may become members of the ACS/SA upon recommendations of a member of the ACS.

## **BACHELOR OF SCIENCE IN CHEMISTRY DEGREE PROGRAM REQUIREMENTS**

### **A. Traditional Option**

**Core Curriculum.....42 SCH**

Departmental Requirements..... 6 SCH  
Foreign Language Elective (one language)

**Major Requirements.....48 SCH**

CHEM 1032, 1033, 1042, 1043, 2012, 2112, 2032, 2033, 2042, 2043, 3422, 3413, 3423, 3432, 4001, 4033, 4051, 4052, 4053, 4061, and 4063

Students majoring in Chemistry must earn a minimum grade of a “C” in all classes taken in their major disciplines

**Support Area .....19 SCH**

BIOL 1015

MATH 1124, 2024, 2034

PHYS 2111 or 2511 and 2121 or 2521, (PHYS 2113, 2123 and 2523 taken in the core)

**Restricted Electives.....5 SCH**

CHEM 4023, 4073, 4042

Biology Courses: 1021, 3014, 3024, 3034

**TOTAL DEGREE REQUIREMENTS..... 120 SCH**

Students interested in minor should consult the catalog requirements in field of Minor

**Requirements for chemistry as a Minor ..... 24 SCH**

Students who select chemistry as a minor must complete twenty four semester credit hours from the following courses with a minimum grade of a "C": CHEM 1032, 1033, 1042, 1043, 2012, 2112, 2032, 2033, 2042, 2043, 3413, 3423, 4001,4051, 4033, and 4042.

**SUGGESTED DEGREE PROGRAM SEQUENCE  
TRADITIONAL OPTION**

FRESHMAN YEAR					
First Semester		Hours	Second Semester		Hours
CHEM 1033	General Inorganic Chemistry	3	CHEM 1043	General Inorganic Chemistry	3
CHEM 1032	General Inorganic Chemistry Lab	2	CHEM 1042	General Inorganic Chemistry Lab	2
MATH 1123	Trigonometry	3	MATH 1124	Calculus I	4
ENGL 1123	Freshman composition I	3	ENGL 1133	Freshman Composition II	3
HIST 1313	U.S. to 1876	3	HIST 1323	The U.S.-1876 to Present	3
SPCH 1003	Fund. of Speech Communication	3			
<b>Total</b>		<b>17</b>	<b>Total</b>		<b>15</b>
SOPHOMORE YEAR					
First Semester		Hours	Second Semester		Hours
CHEM 2032	Org Chem Lab I	2	CHEM. 2042	Org Chem Lab II	2
BIOL 1015	General Biology I	5	CHEM 2043	Org Chem Lec II	3
CHEM 2012	Quantitative Analysis	2	ENGL 2153	Intro to Literature	3
CHEM 2112	Quantitative Analysis Lab	2	MATH 2024	Calculus II	4
POSC1113	Amer. Govt. I	3	POSC 1123	American Government II	3
CHEM 2033	Org Chem Lec I	3			
<b>Total</b>		<b>17</b>	<b>Total</b>		<b>15</b>
JUNIOR YEAR					
First Semester		Hours	Second Semester		Hours
ARTS 1203	Intro to Visual Arts	3	PSYC 1113	Psychology	3
PHYS 2513	University Phys I	3	CHEM 3423	Physical Chem II	3
CHEM 3413	Physical Chemistry I	3	CHEM 3422	Physical Chem Lab II	2
CHEM 3422	Physical Chemistry Lab I	2	PHYS 2523	University Physics II	3
PHYS 2511	General Physics Lab I	1	PHYS 2521	General Physics Lab II	1
BIOL 3014	Phys-Anatomy	4	CHEM 4001	Journal Reading	1
CHEM 4051	Research	1			
<b>Total</b>		<b>17</b>	<b>Total</b>		<b>13</b>

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SENIOR YEAR					
First Semester		Hours	Second Semester		Hours
CHEM 4033	Biochemistry	3	CHEM 4053	Instrumental Analysis	3
CHEM 4042	Biochemistry Lab	2	CHEM 4052	Instrumental Analysis Lab	2
MATH 3014	Calculus III	4	CHEM 4061	Research	1
	Foreign Language	3		Foreign Language	3
COMP 1003	Intro. Comp. Education	3	CHEM 4063	Inorganic Chemistry	3
<b>Total</b>		<b>15</b>	<b>Total</b>		<b>12</b>
<b>Total Hours</b>					<b>120</b>

**B. Biomedical Science Option**

**Core Curriculum..... 42 SCH**

All Chemistry Core Curriculum requirements are shown in the suggested degree program.

**Departmental Requirements..... 6 SCH**

Foreign Language Elective (one language)

**Major Requirements..... 36 SCH**

CHEM 1032, 1033, 1042, 1043, 2012, 2112, 2032, 2033, 2042, 2043, 3422, 3413, 4033, 4051, and 4053.

Students majoring in Chemistry must earn a minimum grade of a “C” in all classes taken in their major disciplines

**Support Area..... 27 SCH**

BIOL 1015, 1025, BIOL 3014

\*MATH 1124, 2024, and 2003

PHYS 2111 or 2511, 2121 or 2521, (PHYS 2113, 2123 or 2513 and 2523 must be taken in the core)

**Restricted Electives..... 9 SCH**

CHEM 3423, 3432, 4001, 4052, 4061, 4063, and 4073

Biology Courses: 2054, 3024, and 3034

Students interested in minor should consult the catalog requirements in field of Minor

**TOTAL DEGREE REQUIREMENTS..... 120 SCH**

**Requirements for Chemistry as a Minor ..... 24 SCH**

Students who select Chemistry as a minor must complete twenty-four semester credit hours from the following courses with a minimum grade of a “C”: CHEM 1032, 1033, 1042, 1043, 2012, 2112, 2032, 2033, 2042, 2043, 3413, 4001, 4051, 4033, and 4042.

### SUGGESTED DEGREE PROGRAM SEQUENCE BIOMEDICAL SCIENCE OPTION

FRESHMAN YEAR					
First Semester		Hours	Second Semester		Hours
CHEM 1033	General Inorganic Chemistry	3	CHEM 1043	General Inorganic Chemistry	3
CHEM 1032	General Inorganic Chemistry Lab	2	CHEM 1042	General Inorganic Chemistry Lab	2
MATH 1123	Trigonometry	3	MATH 1124	Calculus I	4
ENGL 1123	Freshman composition I	3	ENGL 1133	Freshman Composition II	3
HIST 1313	U.S. to 1876	3	HIST 1323	The U.S.-1876 to Present	3
SPCH 1003	Fund. of Speech Communication	3			
<b>Total</b>		<b>17</b>	<b>Total</b>		<b>15</b>
SOPHOMORE YEAR					
First Semester		Hours	Second Semester		Hours
CHEM 2032	Org Chem Lab I	2	CHEM 2042	Org Chem Lab II	2
BIOL 1015	Gen. Biology I	5	BIOL 1025	General Biol. II	5
CHEM 2033	Org Chem Lec I	3	POSC 1123	Amer. Govt. II	3
POSC 1113	Amer. Govt. I	3	MATH 2024	Calculus II	4
CHEM 2012	Quantitative Analysis	2	CHEM 2043	Org. Chem Lec II	3
CHEM 2112	Quantitative Analysis Lab	2			
<b>Total</b>		<b>17</b>	<b>Total</b>		<b>17</b>
JUNIOR YEAR					
First Semester		Hours	Second Semester		Hours
BIOL 3014	Anatomy & Physiology	4	CHEM 4051	Research	1
PHYS 2111	General Physics Lab I	1	MATH 2003	Elementary Statistics	3
PHYS 2513	University Phys II	3	PHYS 2523	University Phys II	3
CHEM 3413	Physical Chemistry I	3	PHYS 2121	General Physics Lab II	1
CHEM 3422	Physical Chemistry Lab I	2	ART 1203	Introduction to Visual Arts	3
			PSYC 1113	Gen Psychology	3
<b>Total</b>		<b>13</b>	<b>Total</b>		<b>14</b>

First Semester	SENIOR YEAR			
	Hours	Second Semester		Hours
CHEM 4033 Biochemistry	3		Foreign Language 2	3
BIOL 1021 Seminar	1	COMP 1003	Intro Computer Education	3
BIOL 2054 Genetics	4	PSYC 1113	General Psychology	3
Foreign Language I	3	CHEM 4053	Instrumental Analysis	3
CHEM 4001 Journal Reading	1	CHEM 4052	Instrumental Analysis Lab	2
		CHEM 4061	Research	1
<b>Total</b>	<b>12</b>	<b>Total</b>		<b>15</b>
		<b>Total Hours</b>		<b>120</b>

### **C. Forensic Science Option**

**Core Curriculum..... 42 SCH**

(CRJS 1123 taken as part of the core).

All Chemistry Core Curriculum requirements are shown in the suggested degree program.

**Departmental Requirements..... 6 SCH**

Foreign Language Elective (one language)

**Major Requirements..... 45 SCH**

CHEM 1032, 1033, 1042, 1043, 2012, 2112, 2032, 2033, 2042, 2043, 3422, 3413, 4033, 4001, 4051, 4032, 4023, 4053 and 4063.

Students majoring in Chemistry must earn a minimum grade of a “C” in all classes taken in their major disciplines, Support areas and Restrictive electives

**Support Area ..... 18 SCH**

BIOL 1015

MATH 1124, 2024, 2003

PHYS 2111 or 2511, 2121 or 2521 and (PHYS 2113, 2123 or 2513 and 2523 taken in the core)

**Restricted Electives ..... 9 SCH**

CRJS 1133, 2613, 3623, and 4923

Biology Courses: 1025, 2054, 3014, 3024, 3034, 3044, and 3073

A six week summer internship or externship in approved forensic laboratory or DEA Laboratory can be used to earn credit for CHEM 4032 by submitting a detailed report of laboratory techniques acquired during the externship

**TOTAL DEGREE REQUIREMENTS..... 120 SCH**

**Requirements for Chemistry as a Minor ..... 24 SCH**

Students who select Chemistry as a Minor must complete twenty-four semester credit hours from the following courses with a minimum grade of a "C": CHEM 1032, 1033, 1042, 1043, 2012, 2112, 2032, 2042, 2043, 3414, 3423, 4001, 4051, 4033, AND 4042.

**CHEMISTRY SUGGESTED DEGREE PROGRAM SEQUENCE  
FORENSIC CHEMISTRY OPTION**

FRESHMAN YEAR					
First Semester		Hours	Second Semester		Hours
CHEM 1033	General Inorganic Chemistry	3	CHEM 1043	General Inorganic Chemistry	3
CHEM 1032	General Inorganic Chemistry Lab	2	CHEM 1042	General Inorganic Chemistry Lab	2
MATH 1113	College Algebra	3	MATH 1124	Calculus I	4
ENGL 1123	Freshman Composition I	3	ENGL 1133	Freshman Composition II	3
HIST 1313	U.S. to 1876	3	HIST 1323	The U.S.-1876 to Present	3
SPCH 1003	Fund. of Speech Communication	3			
<b>Total</b>		<b>17</b>	<b>Total</b>		<b>15</b>
SOPHOMORE YEAR					
First Semester		Hours	Second Semester		Hours
CHEM 2033	Organic Chemistry I	3	CHEM 2043	Organic Chem II	3
CHEM 2032	Organic Chemistry Lab I	2	CHEM 2042	Organic Chem Lab II	2
CHEM 2012	Quantitative Analysis	2	MATH 2024	Calculus II	4
CHEM 2112	Quantitative Analysis Lab	2	ENGL 2153	Introduction to Literature	3
BIOL 1015	General Biology I	5	POSC 1123	American Government II	3
POSC 1113	American Government I	3			
<b>Total</b>		<b>17</b>	<b>Total</b>		<b>15</b>
JUNIOR YEAR					
First Semester		Hours	Second Semester		Hours
MATH	Elementary Statistics	1	PHYS 2521	General Physics Lab II	1
ARTS 1203	Intro to Visual Arts	3	PHYS 2523	University Physics II	3
PHYS 2511	General Physics Lab I	1	CHEM 4001	Journal Reading	1
CHEM 3422	Physical Chemistry Lab I	2	CHEM 4023	Forensic Chem	3
CHEM 3413	Physical Chemistry	3	CHEM 4032	Forensic Lab	2
PHYS 2513	University Physics	3	CHEM 4053	Instrumental Analysis	3
<b>Total</b>		<b>15</b>	<b>Total</b>		<b>13</b>



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**SENIOR YEAR**

<b>First S Semester</b>		<b>Hours</b>	<b>Second Semester</b>		<b>Hours</b>
CHEM 4063	Inorganic Chemistry	3	COMP 1003	Introduction Computer Ed	3
CRJS 2613	Court System & Practice	3	CRJS 1133	Principal of Justice (Restricted)	3
CHEM 4051	Research	1	CRJS 3623	Criminal Law (Restricted)	3
CRJS 1123	Crime in America	3	CHEM 4033	Biochemistry	3
	Foreign Language I	3		Foreign Language II	3
<b>Total</b>		<b>13</b>	<b>Total</b>		<b>15</b>
			<b>Total Hours</b>		<b>120</b>

## **Department of Languages and Communication**

### **ADMINISTRATIVE OFFICER**

James M. Palmer, Department Head, *English*

### **FACULTY**

Giancarla DiLaura, *Spanish*

Jennifer Erdely, *Communication*

Alfredo Fernandez, *Spanish*

Gerardo Garcia-Munoz, *Spanish*

Victoria L. Godwin, *Communication*

M. Clay Hooper, *English*

Amber Johnson, *Communication*

Robert Kirschten, *English*

Dejun Liu, *Communication*

DeLinda Marzette, *English*

Ymitri J. Mathison, *English*

Terri B. Pantuso, *English*

Lewis Smith, *Communication*

John P. Sullivan, *Spanish*

Toneisha L. Taylor, *Communication*

Sarah Wakefield, *English*

### **PURPOSE AND GOALS**

The faculty and staff of the Department of Languages and Communication work diligently to maintain a learning environment that enhances educational growth and professional opportunities for our students. Programs in communication, English, and language offer students a liberal arts education emphasizing the acquisition of language and communication skills as well as advanced knowledge of media techniques. The objective of the department is to prepare students for a broad range of careers in teaching, languages, professional writing, interpersonal communication, public relations, and media production.

### **ACADEMIC STANDARDS**

Students must earn a minimum grade of a “C” in all classes taken in their major disciplines and a minimum grade of a “C” in all classes taken in their minor disciplines (if applicable).

## HONOR SOCIETIES

The department sponsors chapters of the following national honor societies: Lambda Pi Eta, Communication; Sigma Tau Delta, English; Alpha Mu Gamma, foreign languages; and Sigma Delta Pi, Spanish. Generally, these societies require that members have completed 18 semester hours with a least a B average in the discipline.

## AFFILIATIONS

The department encourages membership in several honor societies and clubs for its majors. Qualified students may join S.P.J., P.R.S.S.A., Forensic Society, student chapter of American Advertising Federation and student chapter of N.A.B.J. The department has affiliations with/or participation in programs of such professional organizations as A.E.J.M.C., T.S.C.A., S.S.C.A., B.E.A., T.A.B.E., N.C.T.A., C.M.A., A.H.E.C.T.A., N.A.T.P.E., A.W.A., A.P.I., Freedom Forum, N.A.B., R.T.N.D.A., Academy of Motion Picture Arts and Sciences, A.S.N.E., Poynter Institute, Dow Jones Newspaper Fund, and N.C.A.

## BACHELOR OF ARTS IN COMMUNICATION DEGREE PROGRAM REQUIREMENTS\*

**Core Curriculum..... 42 SCH**  
All Core Curriculum requirements are shown on the suggested degree program.

**Foreign Language Requirements (any one language) ..... 6 SCH**

**Core Major Requirements ..... 18 SCH**  
COMM 1713, COMM 2603, COMM 3513, COMM 4503 (or 4513), COMM 4523, and COMM 4533

**Communication Writing Requirements..... 6 SCH**  
Select two courses from:  
COMM 2513, COMM 2523, COMM 2533, COMM 2543, COMM 3523, and COMM 4543

**Chose one concentration:**

**Communication Studies Concentration Requirement..... 18 SCH**  
COMM 2623 and 15 SCH from the following:  
COMM 2613, COMM 2633, COMM 2713, COMM 3603, COMM 3643, COMM 3653, COMM 3663, COMM 3673, COMM 3713, COMM 3743, COMM 3753, COMM 4603, COMM 4613, COMM 4623, COMM 4693\*, COMM 4703, COMM 4713

\*May be repeated up to 6 SCH

**Mass Communication Concentration Requirement ..... 18 SCH**

COMM 4703 and 15 SCH from the following:

COMM 2633, COMM 2703, COMM 2713, COMM 2723, COMM 3713, COMM 3723, COMM 3733, COMM 3743, COMM 3753, COMM 4713, COMM 4723, COMM 4733, COMM 4793\*, COMM 4703\*

\*May be repeated up to 6 SCH

**Minor Requirements..... Minimum 18 SCH**

Communication majors are required to select a minor of their choice. They must satisfy the catalog requirements for the selected minor.

**Unrestricted Electives ..... 12 SCH**

Electives may be chosen from any area, though additional COMM courses are encouraged.

**Total Degree Requirements ..... 120 SCH**

Professional Internship. COMM 4703 is a professional internship required of communication majors with a concentration in mass communication. It may be repeated for up to 6 SCH.

**Requirements for Communication as a Minor Field**

**(other than COMM majors)..... 18 SCH**

Any combination of 18 SCH in COMM courses. Students must observe prerequisites for any selected courses.

\*Students under the 2010-11 catalog will follow the degree requirements listed in the 2008-2010 catalog.

**BACHELOR OF ARTS IN COMMUNICATION DEGREE PROGRAM  
REQUIREMENTS FOR SPEECH 8-12 TEACHER CERTIFICATION\***

**Core Curriculum..... 42 SCH**

All Communications Core Curriculum requirements are shown on the suggested degree program.

**Foreign Language Requirements (any one language) ..... 6 SCH**

**Major Requirements (Communication major and concentration)..... 42 SCH**

**Teacher Certification Courses (in lieu of minor) ..... 18 SCH**

CUIN 3003 Educational Foundations

CUIN 3013 Educational Psychology

CUIN 4003 Instructional Planning Assessment

CUIN 4013 Instructional Methodology and Classroom Management

CUIN 4826 Student Teaching I (students cannot take any other course when taking 4826)

### **Additional Suggestions:**

Students pursuing Teacher Certification in Speech are advised to take at least one of the following courses as a major track option or departmental elective:

COMM 2613 Argumentation and Debate

COMM 3606 Persuasion

COMM 3673 Communication and Conflict Management

### **Additional Requirements for Certification:**

Two state exams, one in Pedagogy and Professional Responsibilities 8-12 and one in the subject content area of Speech 8-12 are required for certification.

### **Unrestricted Electives ..... 12 SCH**

Electives may be chosen from COMM, ENGL, SPAN, or other courses as approved by the department head.

### **Total Degree Requirements ..... 120 SCH**

## **COMMUNICATION SUGGESTED DEGREE PROGRAM SEQUENCE – MASS COMMUNICATION TRACK**

FRESHMAN YEAR					
First Semester		Hours	Second Semester		Hours
ENGL 1123	Freshman Composition I	3	ENGL 1133	Freshman Composition II	3
HIST 1313	U.S. to 1876	3	HIST 1323	The U.S.-1876 to Present	3
COMM 1713	Introduction to Mass Communication	3	COMM 2603	Interpersonal Communication	3
COMP 1003	Introduction to Computer Education	3	MATH 1113	College Algebra	3
COMM 1003	Fund. of Speech Communication	3		Visual and Performing Arts	3
<b>Total</b>		<b>15</b>	<b>Total</b>		<b>15</b>

SOPHOMORE YEAR					
First Semester		Hours	Second Semester		Hours
POSC 1113	American Government I	3	POSC 1123	American Government II	3
	Unrestricted Elective	3	COMM 2523	Broadcast Writing	3
			Or COMM 2543	News Writing and Reporting	
	Social and Behavioral Science	3	Or COMM 2513	Principles of Writing for the Discipline	
	Humanities	3		2000 Level Major Concentration	3
	Language	3		Language	3
	Minor	3		Minor	3
<b>Total</b>		<b>18</b>	<b>Total</b>		<b>15</b>

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<b>JUNIOR YEAR</b>				
<b>First Semester</b>		<b>Hours</b>	<b>Second Semester</b>	<b>Hours</b>
	3000 Level Major Concentration	3	COMM 4703 Professional Internship	3
	3000 Level Major Concentration	3	COMM 3513 Comm. Laws and Ethics	3
	Unrestricted Elective			
COMM 4503	Media Criticism	3	3000 Level Major Concentration	3
Or COMM 4513	Rhetorical Criticism	3	Natural Science	3
COMM 2543	Screen Writing	3	Minor	3
Or COMM 3523	Feature and Magazine Writing			
Or COMM 4543	Advanced Writing for the Discipline			
<b>Total</b>		<b>15</b>	<b>Total</b>	<b>15</b>
<b>SENIOR YEAR</b>				
<b>First Semester</b>		<b>Hours</b>	<b>Second Semester</b>	<b>Hours</b>
COMM 4523	Comm. Theory	3	COMM 4533 Comm. Research	3
	Unrestricted Elective	3	Major Concentration	3
	Major Concentration	3	Unrestricted Elective	3
	Natural Science	3	Minor	3
	Minor	3		
<b>Total</b>		<b>15</b>	<b>Total</b>	<b>12</b>
		<b>Total Hours</b>		<b>120</b>

### **COMMUNICATION SUGGESTED DEGREE PROGRAM SEQUENCE – COMM STUDIES TRACK**

<b>FRESHMAN YEAR</b>				
<b>First Semester</b>		<b>Hours</b>	<b>Second Semester</b>	<b>Hours</b>
ENGL 1123	Freshman Composition I	3	ENGL 1133 Freshman Composition II	3
HIST 1313	U.S. to 1876	3	HIST 1323 The U.S.-1876 to Present	3
COMM 1713	Introduction to Mass Communication	3	COMM 2603 Interpersonal Communication	3
COMP 1003	Introduction to Computer Education	3	MATH 1113 College Algebra	3
COMM 1003	Fund. of Speech Communication	3	Visual and Performing Arts	3
<b>Total</b>		<b>15</b>	<b>Total</b>	<b>15</b>

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**SOPHOMORE YEAR**

<b>First Semester</b>		<b>Hours</b>	<b>Second Semester</b>		<b>Hours</b>
POSC 1113	American Government I	3	POSC 1123	American Government II	3
COMM 2623	Small Group Communication	3	COMM 2513	Principles of Writing for the Discipline	3
	Social and Behavioral Science	3	Or COMM 2523	Broadcast Writing	
	Humanities	3	Or COMM 2543	News Writing and Reporting	
	Language	3		2000 Level Major Concentration	3
	Minor	3		Language	3
				Minor	3
<b>Total</b>		<b>18</b>	<b>Total</b>		<b>15</b>

**JUNIOR YEAR**

<b>First Semester</b>		<b>Hours</b>	<b>Second Semester</b>		<b>Hours</b>
	3000 Level Major Concentration	3	COMM 3513	Comm. Laws and Ethics	3
	3000 Level Major Concentration	3		3000 Level Major Concentration	3
COMM 4513	Media Criticism	3		Unrestricted Elective Natural Science	3
Or COMM 4523	Rhetorical Criticism			Minor	3
COMM 2533	Screen Writing	3			
Or COMM 3423	Feature and Magazine writing				
Or COMM 4543	Advanced Writing for the Discipline	3			
<b>Total</b>		<b>15</b>	<b>Total</b>		<b>15</b>

**SENIOR YEAR**

<b>First Semester</b>		<b>Hours</b>	<b>Second Semester</b>		<b>Hours</b>
COMM 4523	Comm. Theory	3	COMM 4533	Comm. Research	3
	Major Concentration	3		Unrestricted Elective	3
	Unrestricted Elective	3		Unrestricted Elective	3
	Natural Science	3		Minor	3
	Minor	3			
<b>Total</b>		<b>15</b>	<b>Total</b>		<b>12</b>
<b>Total Hours</b>					<b>120</b>

**COMMUNICATION SUGGESTED DEGREE PROGRAM SEQUENCE  
COMM STUDIES TRACK  
AT NORTHWEST HOUSTON CENTER CAMPUS (2+2 Articulation)**

<b>JUNIOR YEAR*</b>					
<b>First Semester</b>		<b>Hours</b>	<b>Second Semester</b>		<b>Hours</b>
COMM 3513	Communication Law and Ethics	3	COMM 4543	Advanced Writing for Discipline	
COMM 4503	Media Criticism		or COMM 3523	Feature and Magazine Writing	3
or COMM 4513	Rhetorical Criticism	3	COMM	Major Concentration Course	3
COMM	Major Concentration Course**		COMM	Major Concentration Course	3
	Minor Area Course	3		Minor Area Course	3
	Unrestricted Elective Course	3		Unrestricted Elective Course	3
<b>Total</b>		<b>15</b>	<b>Total</b>		<b>15</b>
<b>SENIOR YEAR</b>					
<b>First Semester</b>		<b>Hours</b>	<b>Second Semester</b>		<b>Hours</b>
COMM 4523	Communication Theory	3	COMM 4533	Communication Research	3
COMM	Major Concentration Course	3	COMM	Major Concentration Course	3
	Minor Area Course	3		Minor Area Course	3
	Minor Area Course	3		Minor Area Course	3
	Unrestricted. Elective Course	3		Unrestricted Elective Course	3
	Minor	3			
<b>Total</b>		<b>15</b>	<b>Total</b>		<b>15</b>

\*Students are expected to take COMM 1713 Introduction to Mass Communication; COMM 2603 Interpersonal Communication; COMM 2623 Small Group Communication; and a 1000- or 2000-level writing course in communication at a community college or on the PVAMU main campus.

\*\*Student select five major concentration courses from the following list during their junior and senior years: COMM 3603 Persuasion; COMM 3643 Nonverbal Communication; COMM 3653 Gender Communication; COMM 3663 Intercultural Communication; COMM 3673 Communication and Conflict Management; COMM 3713 Communication Technology; COMM 3743 Principles of Advertising; COMM 3753 Principles of Public Relations; COMM 4603 Organizational Communication; COMM 4613 Political Communication; COMM 4623 Rhetoric of Social Movements; COMM 4693 Special Topic in Communication Studies; COMM 4703 Professional Internship; COMM 4713 Voice, Diction, and Performance.



**BACHELOR OF ARTS IN ENGLISH DEGREE  
PROGRAM REQUIREMENTS**

**Core Curriculum..... 42 SCH**

All English Core Curriculum requirements are shown in the suggested degree program.

**Foreign Language Requirements (one language)..... 12 SCH**

**English Major Requirements..... 33 SCH**

**Core Major Courses (both required) ..... 3 SCH**

ENGL 3153 Literary Theory and Criticism

ENGL 4433 Special Topics in English (Senior Capstone)

**Early Literary Period (select one) ..... 3 SCH**

ENGL 4233 Medieval Literature

ENGL 4223 Shakespeare

**British Survey (select one)..... 3 SCH**

ENGL 2263 English Literature to 1800

ENGL 2273 English Literature: 1800 to Present

**African-American Survey (select one) ..... 3 SCH**

ENGL 3053 Survey of African-American Literature

ENGL 3063 Topics in African-American Literature

**American Survey (select one)..... 3 SCH**

ENGL 2423 American Literature: Colonial to 1865

ENGL 2433 American Literature: 1865 to Present

**Writing (select one)..... 3 SCH**

ENGL 2143 Advanced Composition

ENGL xxxx Creative Writing (2313, 3023, 3313, 3323, 3333, 4313, 4323, or 4333)

ENGL 3043 Professional Writing for Electronic Media

**Language (select one) (students pursuing teacher certification should take both) .... 3 SCH**

ENGL 3213 History of the English Language

ENGL 3223 Advanced Grammar

**Genre and Cultural or Special Topics (select two)..... 6 SCH**

ENGL 2153 Introduction to Literature

ENGL 2303 Introduction to Film

ENGL 2333 Studies in Literature

ENGL 2383 World Literature

ENGL 2283 Introduction to African Literature

ENGL 2253 Adolescent Literature

ENGL 2293 Introduction to Latin American Literature  
ENGL 3423 Studies in American Literature  
ENGL 3273 Romantic Movement  
ENGL 3283 Victorian Literature  
ENGL 4243 Studies in the Novel

**English Elective (select one) .....3 SCH**  
One English course from any English area above

**Elective Minor .....18-24 SCH**

**Unrestricted Electives ..... 15 SCH**

**Total Degree Requirements ..... 120 SCH**

**Requirements for English as a Minor Field:**

ENGL 3153, 4433, and any 15 hours above the freshman level

**ENGLISH SUGGESTED DEGREE PROGRAM SEQUENCE**

FRESHMAN YEAR					
First Semester		Hours	Second Semester		Hours
ENGL 1123	Freshman Composition I	3	ENGL 1133	Freshman Composition II	3
MATH	Mathematics	3	SCIENCE	Natural Science Course II	3
SCIENCE	Natural Science Course I	3	HIST 1323	The U.S.-1876 to Present	3
COMM 1003	Fund. of Speech Communication	3	VISUAL ARTS	Visual and Performing Arts	3
HIST 1313	U.S. to 1876	3	BEHAVIORAL SCIENCE	Behavioral or Social Science	3
Total		15	Total		15

SOPHOMORE YEAR					
First Semester		Hours	Second Semester		Hours
ENGLISH	Advanced Composition	3	ENGL 2263	American, British, or African-American Survey	3
ENGLISH	Introduction to Literature	3	ENGL 2273	English Literature II	3
ENGLISH	Advanced Composition	3	ENGL 2263	American, British, or African-American Survey	3
ENGLISH	Introduction to Literature	3	ENGL 2273	English Literature II	3
ELECTIVE	Unrestricted Elective	3	ELECTIVE	Unrestricted Elective	3
Total		15	Total		15

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JUNIOR YEAR					
First Semester		Hours	Second Semester		Hours
ENGL 3153	Literary Theory and Criticism	3	ENGLISH	American British or African-American Survey	3
ENGLISH	Genre/Culture or Language	3	ENGLISH	Genre/Culture or Language	3
SPAN 2013	Intermediate Spanish I	3	SPAN 2023	Intermediate Spanish II	3
ELECTIVES	Elective	6	ELECTIVES	Elective	6
<b>Total</b>		<b>15</b>	<b>Total</b>		<b>15</b>

SENIOR YEAR					
First Semester		Hours	Second Semester		Hours
ENGLISH	Early Literature Period or Survey	3	ENGLISH	Early Literature Period or Survey	3
ENGLISH	Genre/Culture or Language	3	ENGL 4433	Special Topics in English	3
ENGLISH	Language or Elective	3	ENGLISH or ELECTIVE	Language or Elective	3
ELECTIVES	Elective	6	ELECTIVES	Elective	6
<b>Total</b>		<b>15</b>	<b>Total</b>		<b>15</b>

**BACHELOR OF ARTS IN ENGLISH DEGREE PROGRAM REQUIREMENTS  
FOR ENGLISH LANGUAGE ARTS & READING 8-12 TEACHER  
CERTIFICATION OPTION**

**Core Curriculum..... 42 SCH**  
All English Core Curriculum requirements are shown in the suggested degree program.

**Foreign Language Requirements (one language)..... 9 SCH**

**English Major Requirements (major requirements above) ..... 33 SCH**

**Teacher Certification Courses (in lieu of minor) ..... 18 SCH**

CUIN 3003 Educational Foundations

CUIN 3013 Educational Psychology

CUIN 4003 Instructional Planning Assessment

CUIN 4013 Instructional Methodology and Classroom Management

CUIN 4826 Student Teaching I (students cannot take any other course when taking 4826)

Additional Required Courses for ELAR 8-12 Teacher Certification Option..... 15 SCH

RDNG 3603 Evaluation of Reading Performance

RDNG 3623 Linguistics in Reading Instruction

RDNG 4653 Foundations of Reading Instruction

COMM 3703 Media Criticism

ENGL 3213 History of the English Language –OR–

ENGL 3223 Advanced Grammar (whichever was not used for major requirements)

**Additional Suggestion:**

ENGL 2423, 2433, 2263, or 2273 should be taken as the ENGL unrestricted elective option to ensure further breadth of knowledge in literature (select one not used for major requirements)

**Additional Requirements for Certification:**

Two state exams, one in Pedagogy and Professional Responsibilities 8-12 and one in the subject content area of English Language Arts and Reading 8-12.

**Unrestricted Electives..... 3 SCH**

**Total Degree Requirements ..... 120 SCH**

**ENGLISH and CERTIFICATION SUGGESTED DEGREE  
PROGRAM SEQUENCE**

FRESHMAN YEAR					
First Semester		Hours	Second Semester		Hours
ENGL 1123	Freshman Composition I	3	ENGL 1133	Freshman Composition II	3
MATH	Mathematics	3	SPAN 1013	Elementary Spanish I	3
SCIENCE	Natural Science Course I	3	HIST 1323	The U.S.-1876 to Present	3
COMM 1003	Fund. of Speech Communication	3	VISUAL ARTS	Visual and Performing Arts	3
HIST 1313	U.S. to 1876	3	NATURAL SCIENCE	Natural Science Course II	3
Total		15	Total		15

SOPHOMORE YEAR					
First Semester		Hours	Second Semester*		Hours
POSC 1113	American Government I	3	POSC 1123	American Government II	3
SPAN 1023	Elementary Spanish II	3	SPAN 2013	Intermediate Spanish I	3
ENGL 2143	Advanced Composition	3	ENGL	American, British, or African-American Survey	3
ENGL 2153	Introduction to Literature	3	COMM 3703	Media Criticism	3
COMP 1003	Intro to Computer Education	3	RDNG 3603	Evaluation of Reading Performance	3
ENGL	American, British, or African-American Survey	3	BEHAVIOR or SOCIAL SCIENCE	Behavioral or Social Science	3
Total		18	Total		18*

*Marvin D. and June Samuel Brailsford College of Arts and Sciences*  
*Academic Programs and Degree Plans*

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<b>JUNIOR YEAR</b>					
<b>First Semester</b>		<b>Hours</b>	<b>Second Semester</b>		<b>Hours</b>
ENGL 3153	Literary Theory and Criticism	3	ENGL 4433	Special Topics	3
ENGL 3223	Advanced Grammar	3	ENGL 3213	History of the English Language	3
ENGL	Genre/Culture	3	CUIN 4003	Instructional Planning and Assessment	3
ENGL	American, British, or African-American Survey	3	RDNG 4653	Foundations of Reading Instructions	3
CUIN 3003	Educational Foundations	3	RDNG 3623	Linguistics in Reading Instruction	3
CUIN 3013	Educational Psychology	3			
<b>Total</b>		<b>18</b>	<b>Total</b>		<b>15</b>
<b>SENIOR YEAR</b>					
<b>First Semester</b>		<b>Hours</b>	<b>Second Semester</b>		<b>Hours</b>
ENGL	Shakespeare or Medieval	3	CUIN 4826	Student Teaching	6
ENGL	Genre/Culture or Language	3			
ENGL	American or British Survey (Elective)	3			
CUIN 4013	Instructional Methods & Class Mgmt	3			
ELECTIVE	Unrestricted Elective	2			
<b>Total</b>		<b>15</b>	<b>Total</b>		<b>6</b>
			<b>Total Hours</b>		<b>120</b>

\*Students should apply for admission to teacher education during the second semester of their sophomore year to be able to enroll in CUIN courses during the junior year.

## **Department of Mathematics**

### **ADMINISTRATIVE OFFICER**

Aliakbar Montazer Haghighi, *Professor & Department Head, Probability & Statistics, and Queueing Theory*

### **FACULTY**

Arouna R. Davies, *Operations Research*

Laurette B. Foster, *Mathematics Education*

Freddie L. Frazier, *Mathematics Education*

Aliakbar Montazer Haghighi, *Probability & Statistics, Queueing Theory*

Natali Hritonenko, *Differential Equations*

Vera C. King, *Mathematics Education*

Jian-ao Lian, *Wavelet*

Dimitar Michev, *Differential & Difference Equations*

Manouchehr Misaghian, *Abstract Algebra*

n'Ekwunife Muoneke, *Computational Linear Algebra*

Mohammed Shayib, *Statistics*

Evelyn E. Thornton, *Algebraic Topology*

### **MISSION, PURPOSE AND GOALS**

The Department of Mathematics offers an innovative and comprehensive undergraduate program in mathematics from which a major may select one of four emphasis options: statistics, pure mathematics, applied mathematics and mathematics teaching. Students are encouraged to be creative in putting together a course of study that will lead to the fulfillment of individual professional goals. The curricula are rigorous and demanding but flexible enough to allow students to sample several disciplines or to focus on a special interest within the major area. Faculty advisors are available to assist the students on a continual basis to ensure proper course selection toward graduation and relative to career goals.

### **ACADEMIC STANDARDS**

Students must earn a "C" or higher in all major courses and a minimum grade of a "C" in all classes taken in their minor disciplines, if any. Students must also earn a "C" or higher in all Mathematics prerequisite courses.

## SPECIAL EMPHASIS OPTIONS

The following special emphasis options in mathematics allow students to select electives in special areas of professional interest:

<b>Statistics</b>	<b>Pure Mathematics</b>	<b>Applied Mathematics</b>	<b>Mathematics Teaching</b>
MATH 3033	MATH 4093	MATH 4003	MATH 3003
MATH 3043	MATH 4113	MATH 4063	MATH 3103
MATH 3613	MATH 4123	MATH 4093	MATH 3163
MATH 4043	MATH 4133	MATH 4133	MATH 3933
MATH 4073	MATH 4213	MATH 4203	MATH 4003
MATH 4603	MATH 4223	MATH 4223	MATH 4053

\*The College of Education will identify certification requirements for teaching in the public schools.

The requirements for each program option include proficiency in MATH 1124 and MATH 2024 as prerequisites to the mathematics core courses.

## HONOR SOCIETIES AND CLUBS

*Beta Kappa Chi.* The purpose of Beta Kappa Chi is to advance scientific education through original investigations, the dissemination of scientific knowledge, and the stimulation of scholarship in the pure and applied sciences. Membership is open to students in the upper fifth of their college class who have completed at least 45 semester credit hours of college work. Seventeen of these hours must be in one of the sciences recognized by the society, with a minimum grade point average of a “B” in the sciences and a minimum general college average of a “B”.

*Pi Mu Epsilon.* Students eligible for membership in Pi Mu Epsilon, a national honor society, include: sophomore honor students with a grade point average of 4.00 in mathematics (including two courses in calculus); juniors and seniors with a minimum grade point average of 3.00 in mathematics and a general scholastic average of at least 2.80 and graduate students in the department.

*The Mathematics Club.* Membership in The Mathematics Club is expected of all mathematics majors and is open to mathematics minors and any other students interested in enhancing their personal, interpersonal and academic growth. The Club promotes unity and support among members. During each club year, activities focus on leadership development, group study, research skills, and a continual update on pre-service, career opportunities in mathematics, and related areas.

**DEPARTMENTAL REGULATIONS FOR PLACEMENT AND ACADEMIC PROGRESS**

**Academic Placement**

Mathematics majors and minors are placed in freshman mathematics courses according to scores earned on a mathematics-qualifying test. An entering student with a strong mathematics background is encouraged to take advanced placement tests, since high scores on these examinations may exempt students from certain freshman courses. He/she is also encouraged to take Calculus Readiness test at the Mathematics Department so that he/she may be exempted from taking pre-requisite courses for Math 1124, Calculus with Analytic Geometry I.

*Pre-requisite Requirement*

All mathematics pre-requisite courses must be passed with a grade of a “C” or higher.

**Academic Standards**

Mathematics majors are expected to maintain high standards of academic achievement. All major requirements must be maintained with no letter grade below a “C”.

**BACHELOR OF SCIENCE IN MATHEMATICS DEGREE  
PROGRAM REQUIREMENTS**

<b>Core Curriculum.....</b>	<b>42 SCH</b>
<b>Major Requirements.....</b>	<b>43 SCH</b>
MATH 1124, 2024, 2034, 2043, 2053, 3013, 3014, 3023, 3073, 4001, 4063, 4083, 4893, and 6 semester hours of approved 3000 and 4000 level mathematics.	
<b>Support Area* .....</b>	<b>14 SCH</b>
<b>Computer Science Courses.....</b>	<b>11 SCH</b>
<b>English (Writing) .....</b>	<b>3 SCH</b>
<b>General Electives.....</b>	<b>9 SCH</b>
<b>Foreign Language Requirements (one Language) .....</b>	<b>12 SCH</b>
<b>Total Degree Requirements .....</b>	<b>120 SCH</b>

**\*For students who are double majors in Computer Science and Mathematics or Computer Science majors with a minor in Mathematics, courses taken in the Computer Science major or other higher level computer courses will satisfy the 11 SCH of Computer Science courses listed above in the Support Area.**

<b>Minor Requirements of Mathematics as a Minor .....</b>	<b>27 SCH</b>
MATH 1124, 2024, 2053, 3014, and 12 semester hours of approved 3000 and 4000-level courses.	



## MATHEMATICS SUGGESTIVE UNDERGRADUATE 4-YEAR DEGREE PROGRAM SEQUENCE (BASED ON 120 SCH)

(It consists of: 42 SCH University Core; 43 SCH Mathematics Majors; 6 SCH Electives; 14 SCH Support; 12 SCH Foreign Language) Effective Fall 2008

### FRESHMAN YEAR

First Semester		Hours	Second Semester		Hours
ENGL 1123	Freshman Composition I (Core)	3	ENGL 1133	Freshman Composition II (Core)	3
MATH	1113, 1123, 1115, 1153, or 2003 (Core)	3		Humanities & Visual & Performing Arts (Core)	3
COMM 1003	Fund. of Speech Communication	3	MATH 1124	Calculus w/Analytic Geometry I (Major)	4
POSC 1113	American Government I (Core)	3	ENGL	English (Writing, e.g., 1143) (Support)	3
COMP 1013	Introduction to Computer Science (Core)	3	POSC 1123	American Government II (Core)	3
<b>Total</b>		<b>15</b>	<b>Total</b>		<b>16</b>

### SOPHOMORE YEAR

First Semester		Hours	Second Semester*		Hours
HIST 1313	U.S. to 1876 (Core)	3	HIST 1323	The U.S.-1876 to Present	3
	Other Behavioral or Social Science Option (Core)	3	MATH 3014	Calculus III (Major)	3
Na. Science Seq.	PHSC/BIOL/CHEM (Core)	3	COMP	Computer Science (Support)*	3
MATH 2024	Cal w/Analytic Geometry II (Major)	3		Humanities & Visual & Performing Arts (Core)	3
MATH 2043	Differential Equations I (Major)	3	Nat. Science Seq	PHSC/BIOL/CHEM/PHYS (Core)	3
<b>Total</b>		<b>15</b>	<b>Total</b>		<b>15</b>

### JUNIOR YEAR

First Semester		Hours	Second Semester		Hours
MATH 3023	Probability and Statistics (Major)	3		Humanities & Visual & Performing Arts (Core)	3
MATH 3073	Linear Algebra	3	MATH 2053	Discrete Math (Major)	3
Language Seq.	SPAN or FREN (Foreign Lang Req.)	3	MATH 3013	Modern Algebra (Major)	3
COMP	Computer Science with Lab (Support)*	4	Language Seq.	SPAN or FREN (Foreign Lang Req.)	3
ENGL 1143	Technical Writing	3	COMP	Computer Science with Lab (Support)*	4
<b>Total</b>		<b>16</b>	<b>Total</b>		<b>16</b>

First Semester	SENIOR YEAR				Hours
		Hours	Second Semester		
MATH 4003	Math Modeling & Applications	3	MATH	3000 or 4000 Level (Major)	3
MATH	3000 or 4000 Level (Major)	3	MATH 4083	Advanced Calculus	3
Language Seq	SPAN or FREN (Foreign Lang Req.	3	MATH 4893	Mathematics Capstone Course	3
MATH 4001	Colloquium	3	Language Seq	SPAN or FREN (Foreign Lang Req.)	3
MATH 4063	Numerical Analysis	3			
Total		15	Total		12
			Total Hours		120

\*11 SCH computer science support courses are relaxed for Computer Science Majors double majoring.

BACHELOR OF SCIENCE IN MATHEMATICS 4-YEAR DEGREE PROGRAM  
SECONDARY SCHOOL CERTIFICATION TRACK PROGRAM  
REQUIREMENTS BASED ON 121 SCH

Core Curriculum.....	42 SCH
Major Requirements.....	43 SCH
MATH 1124, 2024, 2043, 2053, 3013, 3014, 3023, 3073, 4001, 4053, 4063, 4083, and 6 semester hours of approved 3000 and 4000 level mathematics.	
Support Area* .....	24 SCH
Computer Science Courses .....	3 SCH
Professional Education .....	18 SCH
English (Writing) .....	3 SCH
Foreign Language Requirements (one Language) .....	12 SCH
Total Degree Requirements .....	121 SCH

**MATHEMATICS**  
**SUGGESTIVE UNDERGRADUATE 4-YEAR DEGREE**  
**(Secondary School Certification Track)**

Based on 121 SCH that consists of:

**42 SCH University Core; 43 SCH Mathematics Majors; 24 SCH Support; 12 SCH Foreign Language) Effective Fall 2008**

FRESHMAN YEAR					
First Semester		Hours	Second Semester		Hours
ENGL 1123	Freshman Composition I (Core)	3	ENGL 1133	Freshman Composition II (Core)	3
MATH	1113, 1123, 1115, 1153, or 2003 (Core)	3		Visual & Performing Arts (Core)	3
COMM 1003	Fundamentals of Speech Comm. (Core)	3	MATH 1124	Calculus w/ Analytic Geometry I (Major)	4
POSC 1113	American Government I (Core)	3	ENGL	English(Writing,e.g.,1143)(Support)	3
COMP 1013	Introduction to Computer Science (Core)	3	POSC 1123	American Government II (Core)	3
<b>Total</b>		<b>15</b>	<b>Total</b>		<b>16</b>

SOPHOMORE YEAR					
First Semester		Hours	Second Semester		Hours
HIST 1313	U.S. to 1876 (Core)	3	HIST 1323	The U.S. 1876 to Present (Core)	3
	Other Behavioral or Social Science Option (Core)	3	MATH 3014	Calculus III (Major)	4
Nat. Science Seq.	PHSC/BIOL/CHEM (Core)	3	COMP	Computer Science 1013, 1143, or 1213 (Support)*	3
MATH 2024	Cal w/ Analytic Geometry II (Major)	4	Math 2053	Discrete Math (Major)	3
MATH 2043	Differential Equations I (Major)	3	Nat. Science Seq.	BIOL/CHEM/PHYS(Core)	3
<b>Total</b>		<b>16</b>	<b>Total</b>		<b>16</b>

JUNIOR YEAR					
First Semester		Hours	Second Semester		Hours
MATH 3023	Probability and Statistics (Major)	3	MATH 4001	Math Colloquium	1
MATH 3073	Linear Algebra (Major)	3	CUIN 3013*	Educational Psychology (Support)	3
Language Seq.	SPAN or FREN (Foreign Lang Req.)	3	MATH 3013	Modern Algebra (Major)	3
MATH	3000 or 4000 Level (Major)	3	Language Seq.	SPAN or FREN (Foreign Lang Req.)	3
	Visual & Performing Arts (Cores)	3	CUIN 3003*	Educational Foundations (Support)	3
			MATH 4003	Math Modeling & Applications	3
<b>Total</b>		<b>15</b>	<b>Total</b>		<b>16</b>

SENIOR YEAR					
First Semester		Hours	Second Semester		Hours
MATH 4053	Foundations	3	MATH 4083	Advanced Calculus I	3
MATH	3000 or 4000 Level (Major)	3	MATH 4063	Numerical Analysis	3
Language Seq.	SPAN or FREN (Foreign Lang Req._	3	Language Seq.	SPAN or FREN (Foreign Lang Req.)	3
CUIN 4103*	Instruct Planning Assess (Support)	3	CUIN 4113*	Instr Meth & Class Manage (Support)	3
Total		12	Total		12
Total Hours					121
Last Semester					

**CUIN 4826 Student Teaching I (Support)      6**

\*Before taking the CUIN courses, candidates are to:

1. Complete the University core;
2. Complete, with an advisor, an application for admission into teacher education;
3. Have a GPA in the University core of 2.5 or higher;
4. Have no grade below C in specific English and Math courses;
5. Have a THEA score of 230 or higher in Reading; and
6. Have University passing THEA scores in Math and Writing.

## **Department of Music and Theatre**

### **ADMINISTRATIVE OFFICER**

John L. Cornelius, II, *Interim Department Head, Music and Theatre, Music Theory, Music Literature, Piano*

### **FACULTY**

Wendy I. Bergin, *Music Theory, Flute, Flute Ensemble, Chamber Orchestra*  
Jeffrey Freeman, *Low Brass, Music Technology, Brass Ensemble, Wind Ensemble*  
Larry E. Jones, *Percussion, Band, Music Appreciation*  
William McQueen, *Music Appreciation, Conducting, Trumpet*  
Christine E. Moore, *Music Librarian, Strings*  
Vicki A. Seldon, *Piano, Music History*  
A. Jan Taylor, *Choir, Music Education, Piano*  
Cristal C. Truscott, *Theatre, Diction, Stage Movement Unit Director, Acting Styles*  
Leon Turner, *Voice, Diction, Opera*

### **ACADEMIC STANDARDS**

Students must earn a minimum of “C” in all classes taken in their major disciplines and a minimum grade of “C” in all classes taken in their minor disciplines (if applicable). This applies to all Music and Theatre majors.

### **MUSIC**

#### **PURPOSE AND GOALS**

The Department of Music and Theatre is committed to a unified effort in the promotion of artistic curricular and extra-curricular activities. The music department offers three degree plans: the Bachelor of Music Degree (EC-12 Option), the Bachelor of Music Degree (Performance Option) or the Bachelor of Arts Degree. The BM degree (EC-12 Option) is designed for students wishing to become certified public or private school music teachers while the BM (Performance Option) is intended for students with the aptitude to pursue professional careers as concert performers and/or music instructors at the university level. Students pursuing the performance option should also plan on graduate study in performance to complete their training. The Bachelor of Arts Degree (BA) requires a minor subject area outside of music and offers a broad-based university education with a primary concentration in music and a secondary concentration in a minor field of study.

#### **Program Objectives:**

1. To prepare students for professional careers and graduate study in music.

2. To provide musical and technological knowledge and solo and ensemble experiences in an educational environment that stimulates academic and musical development
3. To transmit to students the knowledge of Western and non-Western music through studies in music history, literature, theory, and performance.
4. To present music performances on the University campus and in the community for cultural enhancement.
5. To provide general music instruction and experiences to non-music majors.

## Music Ensembles

1. *University Chorale*. A large vocal ensemble for qualified music and non-music majors that performs choral music of all styles and periods
2. *University Singers*. A select ensemble that performs vocal chamber works of all styles and historical periods.
3. *University Marching Band*. An ensemble that performs at football games, parades, and other events.
4. *University Wind Ensemble*. An ensemble for qualified music and non-music majors that performs traditional and contemporary Wind Band music.
5. *Brass Ensemble*. An ensemble that performs music written for brass instruments.
6. *Percussion Ensemble*. An ensemble that performs music written for percussion instruments.
7. *Chamber Orchestra*. An ensemble of wind, string, and percussion instruments that performs orchestral repertoire.
8. *Flute Ensemble*. An ensemble that performs chamber music for flutes.
9. *Jazz Ensemble*. An ensemble that performs jazz music.

## Music Organizations

1. *Kappa Kappa Psi Fraternity*. The national honorary band fraternity.
2. *Phi Mu Alpha Sinfonia*. A national honorary music fraternity for men.
3. *Sigma Alpha Iota*. A national honorary music fraternity for women.
4. *Texas Music Educators Association* (Student Chapter). The professional organization for music education majors.

## MUSIC PROGRAM

### Admission Requirements and Regulations for Academic Progress

In addition to meeting the general university core requirements and foreign language requirements, music majors and minors must earn a minimum grade of “C” in each music course in the respective degree plan. Students who have not met THEA requirements on entering the program must do so by the end of their sophomore year or they will not be allowed to progress into upper division courses. Students must also fulfill the following requirements to enter the program, remain in the program, and/or graduate from the program.

**Audition:** All entering music majors (freshmen and transfer students) must audition for the music faculty. Specific audition requirements for the BM (EC-12), BM

(Performance), and BA degrees and audition dates are listed on the music department website and in the music student handbook. Previous musical study, e.g., private lessons, participation in band, choir, orchestra, or other ensemble is essential for success in university music degree programs.

**Entrance Requirements – BM Performance Option:** Freshman and transfer students may enter the BM Performance degree option on probationary status based on an exemplary initial audition before applied music faculty. At the end of the first year of study, students in this degree plan must perform a successful qualifying jury at the end of the freshman year (or first year in the department for transfers) in order to enroll in the curriculum. This jury would be in addition to the mid-level proficiency in applied music currently required for all majors which takes place at the end of the sophomore year. Repertoire requirements and length of all juries for those following the performance curriculum will be longer and more advanced than those in the BA and EC-12 curricula. Current students who wish to change from the BA or BM (EC-12) curriculum to the performance option will be required to perform a successful audition before a faculty jury who will determine if the student has the requisite technical and musical skills for the program. This audition must take place no later than the end of the sophomore year. Transfer students will have to qualify for the program immediately using their entrance audition. Students in the program will be required to perform a minimum of twice in music seminar as compared to students in the BA and EC-12 programs who are required to perform only once per semester. End-of-semester juries for performance students will be longer. The performance curriculum will continue the current requirement of two (2) degree recitals: junior and senior. Performance students must receive the grade of a “B” or above in all applied music courses.

**Music Theory Placement Examination:** All new music students are required to take the Music Theory Placement Examination.

**Ensemble Requirements:** All music majors must participate in a large ensemble for eight semesters. Large ensembles are defined as Marching Band, Wind Ensemble, and University Concert Chorale. As part of the eight-semester large ensemble requirement, instrumental majors must take four semesters of Marching Band and four semesters of Wind Ensemble; voice and piano students must take eight semesters of Choir. Students in the BM (Performance) program must earn additional ensemble credits through participation in smaller ensembles. All students may receive additional ensemble credit through participation in the Jazz Ensemble, Brass Ensemble, Percussion Ensemble, Chamber Singers, or Chamber music course. This additional credit does not replace the large ensemble credit.

**Semester Applied Music Examinations:** Each Applied Lessons student is required to perform a jury before a faculty committee for evaluation at the end of each semester. The minimum length of the jury varies by degree program with specific requirements published in the Music Student Handbook.

**Mid-Level Proficiency Examinations:** Each student will undergo Mid-Level Proficiency Examinations in Music Theory and Performance at the end of the Sophomore year. The examinations must be passed before entering 3000-level music courses in each area of examination. Specific requirements for the Performance Examination are published in the Music Student Handbook.

**Recital Requirements:** All music majors have recital requirements as an important capstone experience within each music degree program. BM (EC-12) and BA students perform one degree recital after eight semesters of applied music study. BM (Performance) students perform two degree recitals: junior and senior. Each student must perform a pre-recital jury for applied music faculty to determine readiness for the recital.

**Piano Proficiency Examination:** All students in music (except piano majors) are required to pass the piano proficiency examination before proceeding to student teaching and/or before graduation. Ideally, the examination should be taken after the completion of four semesters of piano. Students are advised to continue studying piano until the examination is passed.

**Music Seminar:** Listening and performing experiences are integral to the development of musicians. Therefore, the department requires that all music majors attend Music Seminar that meets weekly. Upon completion of the four-year degree plan, and by the time of the Senior Recital, music majors must have attendance credits for (a total of) 120 performances to be permitted to perform a Senior Recital, and to graduate. Strict attendance records are kept. To fulfill this requirement, it is recommended that music majors attend fifteen Seminar performances each semester for eight semesters. Each student is also required to perform on Seminar. The applied lesson grade is partially based on those performances. Specific minimum performance requirements vary by degree plan and are published in the Music Student Handbook.

**Attendance at Concerts and Recitals:** Music students are strongly encouraged to attend all music concerts and recitals presented by the department.

**Transfer Credits:** Students transferring from other institutions must validate their standing in applied music through a music audition and their standing in music theory through the music theory placement examination.

**Recommended Foreign Languages for Music Majors:** Since all majors in the Brailsford College of Arts and Sciences Department of music and Theatre are required to complete six semester hours of a foreign language, the recommended languages for music majors are French or Spanish.



## **THEATRE**

### **PURPOSE AND GOALS**

The Theater Program offers a degree plan leading to the studies and activities for a Bachelor of Arts degree that prepares students for professional careers in the theatre or in, theatre-related areas, activities, or for graduate work in theatre. The teacher certification program in theatre is approved by the Program Director. Students majoring in Theatre can also choose a Texas Education Agency for the teacher certification option.

The objectives of the **Theatre Program** are:

1. To offer students the courses and training necessary for work as professionals in theatre, for graduate study in theatre or related areas, fields and for careers as teachers of theatre.
2. To provide students with the leadership, and practical experience necessary for the achievement of excellence in theatre arts through the department's presentation of recitals, student projects, performing arts troupes, and the Charles Gilpin Players.
3. To develop the students' understanding of drama and theatre history, development and practice as it reflects various cultures and societies.
4. To provide non-theatre majors with general theatre and foster education and knowledge.
5. To educate and expose foster cultural enhancement on campus and throughout the university community through theatrical to all levels and genres of theatre by presenting diverse performances and productions for cultural enhancement.

The goals of the Theater Program are:

1. To prepare students for professional careers in theater and for graduate study in theater.
2. To provide effective theatrical experiences in an educational environment that stimulates academic and professional development. These experiences include solo and ensemble performance experiences.
3. To transmit to students the heritage of theatre through studies in history and literature, theory, applied, and performances in recitals.
4. To present theatrical performances on the university campus for cultural enhancement.
5. To provide general theater instruction to non majors at the university.

### **ACADEMIC STANDARDS**

Students must earn a minimum of "C" in all classes taken in their major disciplines and a minimum grade of "C" in all classes taken in their minor disciplines (if applicable).

### **THEATRE ORGANIZATIONS**

All students at Prairie View A&M University are invited to participate in the performing organizations in the department: the Charles Gilpin Players, the University Chorale, the Marching Band, the Symphonic Band, the Wind Ensemble, the Jazz Ensemble, the Brass Ensemble who and the Percussion Ensemble.

## Departmental Organizations

1. *Alpha Psi Omega*: The national honorary society in theatre.
2. *Brass Ensemble*. An ensemble devoted to the performance of music written for brass instruments.
3. *Charles Gilpin Players*. The performing arts organization of the theatre program.
4. *Critics and Historians Club*. Theatre Majors who review plays, films, and television productions, and research various aspects of theatre.
5. *Jazz Ensemble*. An ensemble devoted to the performance of jazz music.
6. *Kappa Kappa Psi Fraternity*. The national honorary band fraternity.
7. *Mu Alpha Sigma*: The honorary society in music.
8. *Music Educators' National Conference* (Student Chapter). The professional Performing arts organization for students seeking careers in music teaching of the theatre program.
9. *Percussion Ensemble*. An ensemble devoted to the performance of music written for percussion instruments.
10. *Phi Mu Alpha Sinfonia*. A national honorary society in music.
11. *Tau Beta Sigma Sorority*. The national honorary band sorority.
12. *University Chorale*. An ensemble devoted to the performance of choral music.
13. *University Marching Band*. An ensemble organized to present performances at the university's football games, parades, and other events.
14. *University Symphonic Band*. A musical organization devoted to the performance of music written for wind band.
15. *University Wind Ensemble*. An ensemble for highly qualified music majors and nonmajors devoted to the performance of traditional and contemporary band music.

## THEATRE PROGRAM

### Admission Requirements and Regulations for Academic Progress

In addition to meeting the general university core requirements and foreign language requirements theatre majors and minors must earn a minimum grade of "C" in theatre courses in the respective degree plan. Students who have not met THEA requirements on entering the program must do so by the end of the Sophomore year or they will not be allowed to progress in the major requirements. Students must also fulfill the following requirements to enter the program, remain in the program and/or graduate from the program:

**Audition:** Each theatre student must have an audition/interview before the faculty. Auditions/interviews will be held during the fall and spring semesters prior to entry, during the summer prior to entry and/or during freshman orientation.

**Semester Review:** Each student is required to be evaluated by a faculty member each semester. Mid-semester (nine weeks) evaluations may be held when necessary.

**Project Requirements:** Each student in theatre with a performance emphasis is required to showcase his/her talent each year to demonstrate growth. The NEW FACES SHOW, or "Freshman Recital" spotlights incoming freshmen and transfer students. The SOPHOMORE PROJECT recital is a two-person scene plus a monologue by each scene member with a time limit of fifteen minutes. The JUNIOR PROJECT recital is a one-person show approved by the faculty of thirty to forty-five minutes. The SENIOR

**PROJECT recital** is an approved performance recital of from forty-five minutes to one hour. Additional requirements are listed in the theatre students' handbook.

**Participation in Performance Troupes:** Each theatre major is required to be actively involved in at least two of the three performance troupes each semester. The troupes are Centerstage R.A.G.E., Gilpin Improv Group, Inspiring Faith (I.F.). Each theatre is required to perform at least once each semester.

**Upper-Level Review:** Theatre majors will be evaluated during the fourth semester of theatre studies. This evaluation determines whether or not the student will be admitted to upper-level courses in theatre.

**Theatre Performance Majors:** Students majoring in theatre must receive approval of the faculty prior to entering the upper-level performance courses. Students must then earn a grade of "C" or above in all performance courses. Those who earn a grade below a "C" must repeat the course to receive credit.

**Transfer Credit:** Students transferring from other institutions must validate their standing in theatre arts through an audition/interview for a performance emphasis or through a portfolio/interview for other theatre options.

**Practicum:** All theatre majors must take theatre practicum each semester that they are theatre majors.

**Attendance at Performances, Workshops, and Seminars:** All theatre majors are required to attend everything sponsored by the theatre program.

**Crew Requirements:** Crew and Practicum hours are required of all theatre majors and minors. Detailed requirements are contained in the theatre department student handbook.

**Committee Requirements:** Students will be required to work on one of the committees. The committees are Cultural Arts, Hospitality, Public Relations, Fund Raising, and Entertainment.

**Crew Requirements:** Students will work a minimum of two hours crew each day Monday through Friday. Students should also be prepared to work weekends should the need arise. Crew time will be calculated weekly. All privileges will be eliminated if crew is not done. Privileges include using the facilities and equipment, touring with the department, and appearing in any of the Theatre Program's productions.

**Weekly Meeting and Dem-Lab:** A required weekly meeting of all theatre majors for the purpose of lecture demonstrations, special performances, visiting artists, troupe shows, etc. Each theatre major with a performance emphasis is required to perform at least one time each semester.

**MUSIC AND THEATRE ELECTIVES FOR NON-MAJORS**

The following courses are offered to non-majors as electives, or for the satisfaction of the core curriculum requirement in the visual and performing arts(\*) or Humanities (\*\*):

- DRAM 1103 Introduction to Theatre\*
- DRAM 2113 Theatre History I\*
- DRAM 2123 Theatre History II\*
- DRAM 2213 Afro American Theatre I\*\*
- DRAM 2223 Afro American Theatre II\*\*
- DRAM 3113 Contemporary Drama
- DRAM 3123 Contemporary Theatre
- DRAM 3103 Dramatic Interpretation
- MUSC 1313 Music in Contemporary Life\*
- MUSC 2333 Afro-American Music\*
- MUSC 1213 Fundamentals of Music\*

**DEGREE REQUIREMENTS AND SUGGESTED PROGRAMS OF STUDY**  
**BACHELOR OF ARTS IN DRAMA DEGREE PROGRAM REQUIREMENTS**

**Core Curriculum..... 42 SCH**  
All Theatre Core Curriculum requirements are shown in the suggested degree program.

**Departmental Foreign Language Requirement (one language)..... 6 SCH**

**Major Requirements..... 62 SCH**  
DRAM 1003, 1013, 1103, 1113, 1203, 1323, 1111, 1121, 2013, 2023, 2113 and 2123 or 3113 and 3123, 2303, 2111, 2121, 3013, 3103, 3213, 3223, 3333, 3111, 3121, 4111, 4113, 4313, 4403, 4441, 4121

**Electives ..... 10 SCH**  
Theatre students are required to take 4 hours of HUPF: Dance

**Total Degree Requirements ..... 120 SCH**  
**Requirements for Theatre as a Minor Field (Performance) ..... 29 SCH**  
Students who wish to minor in theatre (performance) must complete twenty-nine (29) hours of course work. The student must consult with the Department of Music and Theatre before enrolling in any theatre courses. DRAM 1003, 1013, 1103, 1111, 1121, 2111, 2121, 2013, 2023, 3333.

**Theatre Arts Certification**  
Students seeking certification for secondary school teaching must meet all requirements listed in the teacher certification section of this catalog. Admission requirements and advising materials are available from the Office of Teacher Certification in the College of Education.

## THEATRE PERFORMANCE SUGGESTED DEGREE PROGRAM SEQUENCE

FRESHMAN YEAR					
First Semester		Hours	Second Semester		Hours
ENGL 1123	Freshman Composition I	3	ENGL 1133	Freshman Composition II	3
MATH 1113	College Algebra	3	COMP 1003	Introduction to Computer Education	3
DRAM 1113	Introduction to Theatre Technology	3	DRAM 1103	Introduction to Theatre	3
DRAM 1013	Stage Diction	3	DRAM 1203	Stage Craft	3
DRAM 1003	Introduction to Acting	3	DRAM 2013	Intermediate Acting	3
DRAM 1111	Theatre Practicum	1	DRAM 1121	Theatre Practicum	1
<b>Total</b>		<b>16</b>	<b>Total</b>		<b>16</b>
SOPHOMORE YEAR					
First Semester		Hours	Second Semester		Hours
Language	SPAN 1013 or FREN 1013	3	Language	SPAN 1023 or FREN 1023	3
BIOL 1113	College Biology	3	DRAM 1323	Stage Movement	3
DRAM 2303	Stage Makeup	3	COMM 1003	Fundamentals of Speech	3
DRAM 2023	Advanced Acting	3	DRAM 3333	Drama Workshop I	3
DRAM 2113	Theatre History I	3	DRAM 2123	Theatre History II	3
DRAM 2111	Theatre Practicum	1	DRAM 2121	Theatre Practicum	1
HUPF 1031	Modern Dance I	1	HUPF 2011	Modern Dance II	1
<b>Total</b>		<b>17</b>	<b>Total</b>		<b>17</b>
JUNIOR YEAR					
First Semester		Hours	Second Semester		Hours
POSC 1113	American Government I	3	POSC 1123	American Government II	3
RAM 4313	Acting Styles	3	DRAM 4403	Drama Workshop II	3
DRAM 3233	Directing	3	DRAM 3123	Contemporary Drama	3
DRAM 3111	Theatre Practicum	1	DRAM 3121	Theatre Practicum	1
SOCG 1013	General Sociology	3	PHSC 1123	Physical Science Survey	3
Or SOCG 2003	Sociology of Minorities		HUPF 2021	Tap Dance II	1
HUPF 1051	Tap Dance I	1	Or HUPF 2071	Modern Jazz II	1
Or HUPF 1171	Modern Jazz I				
<b>Total</b>		<b>14</b>	<b>Total</b>		<b>14</b>

SENIOR YEAR					
First Semester		Hours	Second Semester		Hours
DRAM 3103	Dramatic Interpretation	3		Electives	6
DRAM 3113	Contemporary Theatre	3	ENGL 2153	Introduction to Literature	3
DRAM 4113	Acting Problems	3	DRAM 4441	Senior Theatre Performance	1
DRAM 4111	Theatre Practicum	1	HIST 1323	The U.S.-1876 to Present	3
HIST 1313	U.S. to 1876	3			
Total		13	Total		13
				Total Hours	120

MUSIC PROGRAMS

Admission Requirements and Regulations for Academic Progress for Music as a Minor Field..... 19 SCH

Students who wish to minor in music must consult with a music faculty advisor for information before enrolling in music courses. In addition to meeting the general university core requirements and foreign language requirements music majors and minors must earn a minimum grade of “C” in each music course in the respective degree plan. Students who have not met THEA requirements on entering the program must do so by the end of their sophomore year or they will not be allowed to progress in the major requirements. Students must also fulfill the following requirements to enter the program, remain in the program and/or graduate from the program:

Audition. Music students must audition before the faculty. Previous participation in bands, choirs, or orchestra band, music ensembles, choir, and private study orchestra is helpful to entering students.

Placement Examination. All new students in music are required to take the music theory placement examination.

Recital Requirements. A senior music recital test is required of all students majoring in music. Junior and senior recitals are required of students majoring in applied music (performance). Applied music instructors may exercise the option to require a hearing prior to the recital to determine the readiness of the performer.

Applied Music ..... 4 SCH

MUSC 1253, 1263, or MUSC 1233, 1243 (Basic Musicianship I, II...or Music Theory I, II)..... 6 SCH

(Music Literature or Afro-American Music) MUSC 2323 or MUSC 2333..... 3 SCH

**Large Ensemble.....4 SCH**

**Piano\*.....2 SCH**

**\*Students whose applied area is piano must choose an additional two semester credit hour music course after consultation with a music faculty advisor.**

*Piano Proficiency Examination.* All students in music are required to pass the piano proficiency examination before proceeding to student teaching and/or before graduation. The examination should be taken after the completion of four semesters of piano.

*Participation in Ensembles.* All students in music are required to participate in large ensembles for eight semesters. Large ensembles are defined as the University Band (Marching Band or Symphonic Band), the Wind Ensemble, and the University Chorale. As part of the eight-semester large ensemble requirement, instrumental majors must take four semesters of Marching Band; voice students must take eight semesters of Choir; piano students must take four semesters of Choir. Students may receive additional credits through participation in the Jazz Ensemble, Brass Ensemble, and Percussion Ensemble.

*Music Seminar.* As both the listening and performing experience are integral to the development of young musicians, the department requires that all music must attend the performance seminar, which normally meets twice weekly. Upon completion of the four-year degree plan, and by the time of the Senior Recital, music majors must have attendance credits for (a total of) 120 performances, to be permitted to perform the Senior Recital, and to graduate. To fulfill this requirement, it is recommended that music majors attend fifteen performances per semester for eight semesters. Each student is also required to perform on Seminar, and the student's applied lesson grade is partially based on those performances..

*Attendance at Concerts and Recitals.* Music students are strongly encouraged to attend all music concerts and recitals presented by the department.

*Semester Applied Music Examinations.* Each student is required to perform before a faculty committee for evaluation at the end of each semester.

*Mid-Level Proficiency Examinations.* Each student will undergo Mid-Level Proficiency Examinations in Music Theory and Performance at the end of the Sophomore year. The examinations must be passed before entering 3000 level music courses in each area of examination.

*Performance Option: Applied Music Majors.* Students must receive departmental approval prior to entering the performance option. Students entering the Bachelor of Music degree with the Performance option must then receive the grade of B or above in all applied music courses. Those who earn a grade below B must repeat the course to receive credit.

*Transfer Credits.* Students transferring from other institutions must validate their standing in applied music through a music audition and their standing in music theory through the music theory placement examination.

*Recommended Foreign Languages for Music Majors.* Since all majors in the Brailsford College of Arts and Sciences Department of Music and Drama are required to complete six semester hours of a foreign language, the recommended languages for music majors are French or Spanish.

**BACHELOR OF ARTS IN MUSIC DEGREE PROGRAM REQUIREMENTS**

**Core Curriculum..... 42 SCH**  
All Music Core Curriculum requirements are shown in the suggested degree program.

**Departmental Foreign Language Requirement ..... 6 SCH**

**Major Requirements.....61-66 SCH**  
Applied Music (piano, voice, wind, or percussion instruments), Large Ensemble 8 Semesters, Large Ensemble (band or choir).  
MUSC 1211, 1221, 1233, 1243, 1413, 1551, 1561, 2211, 2213, 2221, 2223, 2323, 2551, 2561, 3212, 3222, 3313, 3323, 4012; Music Electives

**Note:** Students whose major instrument is piano should not enroll in functional piano.

**Support Area and Minor Requirements ..... 18 SCH**  
Note: In addition to the above music courses students majoring in voice must take:  
MUSC 1611, 1621, 1631, 1641

**Elective Minor. Note: Depending upon the chosen field, the minor requirements may exceed 18 SCH.**

**Other requirements for graduation:** Music Seminar, (8 semesters) Mid-level Proficiency Examination, Senior Recital and Piano Proficiency Examination

**Total Degree Requirements .....124-132 SCH**



## BACHELOR OF ARTS SUGGESTED DEGREE PROGRAM SEQUENCE

FRESHMAN YEAR					
First Semester		Hours	Second Semester		Hours
MUSC	Applied Music	2	MUSC	Applied Music	2
MUSC 1233	Music Theory	3	MUSC 1243	Music Theory	3
MUSC 1211	Sight Sing/Ear Train I	1	MUSC 1221	Sight-Sing/Ear Train II	1
MUSC 1551	Functional Piano for Majors I	1	MUSC 1561	Functional Piano for Majors I	1
MUSC	Large Ensemble	1	MUSC	Large Ensemble	1
ENGL 1123	Freshman Composition I	3	ENGL 1133	Freshman Composition II	3
COMM 1003	Fund. of Speech Communication	3	HIST 1313	U.S. to 1876	3
POSC 1113	American Government I	3	POSC 1123	American Government II	3
<b>Total</b>		<b>17</b>	<b>Total</b>		<b>17</b>
SOPHOMORE YEAR					
First Semester		Hours	Second Semester		Hours
MUSC	Applied Music	2	MUSC	Applied Music	2
MUSC 2213	Music Theory	3	MUSC 2223	Music Theory	3
MUSC 2211	Sight Sing/Ear Train III	1	MUSC 2221	Sight Sing/Ear Train IV	1
	Humanities	3	MUSC 2561	Functional Piano for Majors IV	1
MUSC	Large Ensemble	1	MUSC	Large Ensemble	1
MUSC 2551	Functional Piano for Majors III	1	MUSC 2323	Music Literature	3
	Natural Science	3		Social and Behavioral Sciences	3
Language	SPAN 1013 or FREN 1013	3	Language	SPAN 1023 or FREN 1023	3
<b>Total</b>		<b>17</b>	<b>Total</b>		<b>17</b>
JUNIOR YEAR					
First Semester		Hours	Second Semester		Hours
MUSC	Applied Music	2	MUSC	Applied Music	2
	Natural Science	3	MUSC	Large Ensemble	1
MUSC 1413	Music Technology	3	MUSC 3323	Music History	3
MUSC 3313	Music History	3	HIST 1323	The U.S.-1876 to Present	3
MUSC	Ensemble	1	MATH 1113	College Algebra	3
<b>Total</b>		<b>14</b>	<b>Total</b>		<b>14</b>

SENIOR YEAR					
First Semester		Hours	Second Semester		Hours
MUSC	Applied Music	2	MUSC	Applied Music	2
MUSC	Large Ensemble	1	MUSC	Large Ensemble	1
	Minor Requirements	9		Minor Requirements	9
MUSC 4012	Conducting	2		Elective (Non Music)	3
	Music Electives	3		Visual and Performing Arts	3
Total		17	Total		18
Total Hours					131

APPLIED MUSIC PROGRAM

The following sequential course numbers are used for private lessons for Piano, Voice, Brass, Woodwinds, and Percussion. Lessons of one credit hour are primarily for minor and secondary students. Lessons of two credits are for Bachelor of Arts and for Bachelor of Music, All-Level Certification and Performance students. Lessons of three hours are for Bachelor of Music (Performance Option) students following the Performance option.. Performances in seminar and performance exams (juries) are required.\*

	Piano	Voice	
MUSC	1531-1512-1513	1632-1613	
MUSC	1541-1522-1523	1642-1623	
MUSC	2511-2512-2513	2632-2613	
MUSC	2521-2522-2523	2642-2623	
MUSC	3512-3513	3612-3613	
MUSC	3522-3523	3622-3623	
MUSC	4512-4513	4612-4613	
MUSC	4522-4523	4622-4623	
	Brass	Woodwind	Percussion
MUSC	1712-1713	1812-1813	1912-1913
MUSC	1722-1723	1822-1823	1922-1923
MUSC	2712-2713	2812-2813	2912-2913
MUSC	2722-2723	2822-2823	2922-2923
MUSC	3712-3713	3812-3813	3912-3913
MUSC	3722-3723	3822-3823	3922-3923
MUSC	4712-4713	4812-4813	4912-4922
MUSC	4722-4723	4822-4823	4913-4923

## **LARGE ENSEMBLES**

The following sequential numbers are used for large ensembles. Each ensemble enrollment carries one semester credit hour (1 SCH). A total of eight (8) credits is required for degree completion.

	<b>Choir</b>	<b>Band</b>	<b>Wind Ensemble</b>
MUSC	1121	1111	1771-1781
MUSC	2121	2111	2771-2781
MUSC	3121	3111	3771-3781
MUSC	4121	4111	4771-4781

*Piano* - Private lessons. The study of selected solo literature together with technical etudes for the piano.

*Voice* - Private lessons. The study of selected solo literature together with related studies for the voice.

*Brass* - Private lessons. The study of selected solo literature together with technical etudes for brass instruments (trumpet, French horn, trombone, euphonium, and tuba).

*Woodwinds* - Private lessons. The study of selected solo literature together with technical etudes for woodwind instruments (flute, oboe, clarinet, saxophone, and bassoon).

*Percussion* - Private lessons. The study of selected solo literature together with technical etudes for percussion instruments.

\*Preparation for the senior recital comprises a significant portion of the 4000 level of private study; the recital should be performed during the 8th semester of private study. Students are required to perform on music seminar each semester.

## **BACHELOR OF MUSIC DEGREE - VOICE (PERFORMANCE)**

### **REQUIREMENTS**

**Core Curriculum.....42 SCH**

All Music Core Curriculum requirements are shown in the suggested degree program.

**Departmental Foreign Language Requirements (one language) ..... 6 SCH**

**Major Requirement ..... 79 SCH**

Applied Music (voice) – 8 semesters

Large Ensemble (choir) – 8 semesters

MUSC 1211, 1221, 1233, 1243, 1413, 1551, 1561, 1611, 1621, 1631, 1641, 2211, 2221, 2213, 2223, 2323, 2551, 2561, 3212, 3222, 3313, 3323, 3632, 4012, and 4632

**Total Degree Requirements ..... 127 SCH**

**Other requirements for graduation:** Music Seminar, (8 semesters), Mid-level Proficiency Examination, Junior Recital, Senior Recital and Piano Proficiency Examination

### **VOICE (PERFORMANCE) SUGGESTED DEGREE PROGRAM SEQUENCE**

<b>FRESHMAN YEAR</b>					
<b>First Semester</b>		<b>Hours</b>	<b>Second Semester</b>		<b>Hours</b>
MUSC 1613	Applied Music	3	MUSC 1623	Applied Music	3
MUSC 1233	Music Theory	3	MUSC 1243	Music Theory	3
MUSC 1211	Sight Sing/Ear Train I	1	MUSC 1221	Sight-Sing/Ear Train II	1
MUSC 1551	Functional Piano for Music Majors I	1	MUSC 1561	Functional Piano for Music Majors II	1
MUSC 1121	Univ. Choir	1	MUSC 1121	Univ. Choir	1
MUSC 1611	French Diction	1	MUSC 1621	German Diction	1
ENGL 1123	Freshman Composition I	3	ENGL 1133	Freshman Composition II	3
COMM	Fund. of Speech Communication	3	HIST 1313	U.S. to 1876	3
<b>Total</b>		<b>16</b>	<b>Total</b>		<b>16</b>
<b>SOPHOMORE YEAR</b>					
<b>First Semester</b>		<b>Hours</b>	<b>Second Semester</b>		<b>Hours</b>
MUSC 2613	Applied Music	3	MUSC 2623	Applied Music	3
MUSC 2213	Music Theory	3	MUSC 2223	Music Theory	3
MUSC 2211	Sight Sing/Ear Train III	1	MUSC 2221	Sight Sing/Ear Train IV	1
	Humanities	3	MUSC 2561	Functional Piano for Music Majors IV	1
MUSC 2121	Univ. Choir	1	MUSC 2121	Univ. Choir	1
MUSC 2551	Functional Piano for Music Majors III	1	MUSC 2323	Music Literature	3
MUSC 1631	Italian Diction	1	POSC 1113	American Government I	3
	Natural Science	3	MUSC 1641	English Diction	1
<b>Total</b>		<b>16</b>	<b>Total</b>		<b>16</b>
<b>JUNIOR YEAR</b>					
<b>First Semester</b>		<b>Hours</b>	<b>Second Semester</b>		<b>Hours</b>
MUSC 3613	Applied Music	3	MUSC 3623	Applied Music	3
MUSC 3313	Music History	3	MUSC 3323	Music History	3
MUSC 3212	Analysis of Music	2	MUSC 3222	Analysis of Music	2
MUSC 3121	Univ. Choir	1	MUSC 3121	Univ. Choir	1
MUSC 1413	Music Technology	3	Language	SPAN 1023 or FREN 1023	3
Language	SPAN 1013 or FREN 1013	3	POSC 1123	American Government II	3
<b>Total</b>		<b>15</b>	<b>Total</b>		<b>15</b>

SENIOR YEAR					
First Semester		Hours	Second Semester		Hours
MUSC 4613	Applied Music	3	MUSC 4623	Applied Music	3
MUSC 4121	Univ. Choir	1	MUSC 4121	Univ. Choir	1
	Social and Behavioral Sciences	3	MUSC 3242	Counterpoint	2
MUSC 3632	Opera	2	MUSC 4632	Opera	2
MUSC 3232	Counterpoint	2		Natural Science	3
MUSC 4012	Conducting	2	HIST 1323	U.S. 1876 to Present	3
MATH 1113	College Algebra	3		Visual and Performing Arts	3
<b>Total</b>		<b>16</b>	<b>Total</b>		<b>17</b>
			<b>Total Hours</b>		<b>127</b>

### BACHELOR OF MUSIC DEGREE - PIANO (PERFORMANCE) REQUIREMENTS

**Core Curriculum..... 42 SCH**

All Music Core Curriculum requirements are shown in the suggested degree program.

**Departmental Foreign Language Requirements (one language) ..... 6 SCH**

**Major Requirement ..... 76 SCH**

Applied Music (piano) – 8 semesters

Large Ensemble (choir) – 8 semesters

MUSC 1211, 1221, 1233, 1243, 1413, 2211, 2221, 2213, 2223, 2323, 2551, 2561, 3212, 3222, 3313, 3323, 3632, 4012, 4532, 4533; Music Elective

**Total Degree Requirements ..... 124 SCH**

Other requirements for graduation: Music Seminar, (8 semesters), Mid-level Proficiency Examination, Junior Recital, Senior Recital and Piano Proficiency Examination

## PIANO (PERFORMANCE) SUGGESTED DEGREE PROGRAM SEQUENCE

FRESHMAN YEAR					
First Semester		Hours	Second Semester		Hours
MUSC 1513	Applied Music	3	MUSC 1523	Applied Music	3
MUSC 1233	Music Theory	3	MUSC 1243	Music Theory	3
MUSC 1211	Sight Sing/Ear Train I	1	MUSC 1221	Sight-Sing/Ear Train II	1
MUSC 1121	Univ. Choir (or Band)	1	MUSC 1121	Univ. Choir (or Band)	1
ENGL 1123	Freshman Composition I	3	ENGL 1133	Freshman Composition II	3
COMM	Fund. of Speech Communication	3	HIST 1313	U.S. to 1876	3
<b>Total</b>		<b>14</b>	<b>Total</b>		<b>14</b>
SOPHOMORE YEAR					
First Semester		Hours	Second Semester		Hours
MUSC 2513	Applied Music	3	MUSC 2523	Applied Music	3
MUSC 2213	Music Theory	3	MUSC 2223	Music Theory	3
MUSC 2211	Sight Sing/Ear Train III	1	MUSC 2221	Sight Sing/Ear Train IV	1
	Humanities	3	MUSC 2323	Music Literature	3
MUSC 2121	Univ. Choir (or Band)	1	MUSC 2121	Univ. Choir (or Band)	1
	Natural Science	3	POSC 1123	American Government II	3
POSC 1113	American Government I	3			
<b>Total</b>		<b>17</b>	<b>Total</b>		<b>14</b>
JUNIOR YEAR					
First Semester		Hours	Second Semester		Hours
MUSC 3313	Music History	3	MUSC 3323	Music History	3
MUSC 3212	Analysis of Music	2	MUSC 3222	Analysis of Music	2
MUSC 3121	Univ. Choir (or Band)	1	MUSC 3121	Univ. Choir (or Band)	1
MUSC 3313	Music History	3	MUSC 3323	Music History	3
MUSC 3212	Analysis of Music	2	MUSC 3222	Analysis of Music	2
MUSC 3121	Univ. Choir (or Band)	1	MUSC 3121	Univ. Choir (or Band)	1
MUSC 1413	Music Technology	3	Language	SPAN 1023 or FREN 1023	3
Language	SPAN 1013 or FREN 1013	3	HIST 1323	The U.S.-1876 to Present	3
MUSC 3232	Counterpoint	2	MUSC 3242	Counterpoint	2
<b>Total</b>		<b>17</b>	<b>Total</b>		<b>17</b>

SENIOR YEAR					
First Semester		Hours	Second Semester		Hours
MUSC 4513	Applied Music	3	MUSC 4523	Applied Music	3
MUSC 4121	Univ. Choir (or Band)	1	MUSC 4121	Univ. Choir (or Band)	1
	Natural Science	3	MUSC 3532	Accompanying	2
MUSC 4012	Conducting	2	MUSC 4533	Piano Pedagogy	3
MUSC 4532	Piano Literature	2	MUSC	Music Elective	2
MATH 1113	College Algebra	3		Social and Behavioral Sciences	3
				Visual and Performing Arts	3
Total		14	Total		17
			Total Hours		124

### **BACHELOR OF MUSIC DEGREE – WINDS OR PERCUSSION INSTRUMENTS (PERFORMANCE) REQUIREMENTS**

**Core Curriculum..... 42 SCH**  
All Music Core Curriculum requirements are shown in the suggested degree program.

**Departmental Foreign Language Requirements (one language) ..... 6 SCH**

**Major Requirement ..... 76 SCH**  
Students whose principal instrument is piano cannot take secondary piano for credit.  
Foreign language may be French or Spanish.  
The piano proficiency examination may be taken upon completion of this piano course.  
Preparation for the Junior Recital  
Preparation for the Senior Recital

Applied Music (wind or percussion instruments) – 8 semesters  
Large Ensemble (Band) – 8 semesters

MUSC 1211, 1221, 1233, 1243, 1413, 1551, 1561, 2211, 2213, 2221, 2223, 2323, 2551, 2561, 3212, 3222, , 3232, 3242, 3313, 3323, 3462, 4012;

**Total Degree Requirements ..... 124 SCH**

**Other requirements for graduation:** Music Seminar, (8 semesters), Mid-level Proficiency Examination, Junior Recital, Senior Recital and Piano Proficiency Examination

## WINDS OR PERCUSSION INSTRUMENTS (PERFORMANCE) SUGGESTED DEGREE PROGRAM SEQUENCE

FRESHMAN YEAR					
First Semester		Hours	Second Semester		Hours
MUSC	Applied Music	3	MUSC	Applied Music	3
MUSC 1233	Music Theory	3	MUSC 1243	Music Theory	3
MUSC 1211	Sight Sing/Ear Train I	1	MUSC 1221	Sight Sing/Ear Train II	1
MUSC 1551	Functional Piano I	1	MUSC 1561	Functional Piano II	1
MUSC	Large Ensemble	1	MUSC	Large Ensemble	1
ENGL 1123	Freshman Composition I	3	ENGL 1133	Freshman Composition II	3
COMM	Fund. of Speech Communication	3	HIST 1313	U.S. to 1876	3
<b>Total</b>		<b>15</b>	<b>Total</b>		<b>15</b>

SOPHOMORE YEAR					
First Semester		Hours	Second Semester		Hours
MUSC	Applied Music	3	MUSC	Applied Music	3
MUSC 2213	Music Theory	3	MUSC 2223	Music Theory	3
MUSC 2211	Sight Sing/Ear Train III	1	MUSC 2221	Sight Sing/Ear Train IV	1
MUSC 2551	Functional Piano III	1	MUSC 2323	Music Literature	3
MUSC	Large Ensemble	1	MUSC	Large Ensemble	1
	Natural Science	3	MUSC 2561	Functional Piano IV	1
POSC 1113	American Government I	3	POSC 1123	American Government II	3
<b>Total</b>		<b>15</b>	<b>Total</b>		<b>15</b>

JUNIOR YEAR					
First Semester		Hours	Second Semester		Hours
MUSC	Applied Music	3	MUSC	Applied Music	3
MUSC 3313	Music History	3	MUSC 3323	Music History	3
MUSC 3212	Analysis of Music	2	MUSC 3222	Analysis of Music	2
MUSC 1413	Music Technology	3	MUSC	Large Ensemble	1
MUSC	Large Ensemble	1	Language	SPAN 1023 or FREN 1023	3
MUSC 3462	Instrumental Literature and Techniques	2		Humanities	3
Language	SPAN 1013 or FREN 1013	3			
<b>Total</b>		<b>17</b>	<b>Total</b>		<b>15</b>



SENIOR YEAR					
First Semester		Hours	Second Semester		Hours
MUSC 1000	Music Seminar	0	MUSC 1000	Music Seminar	0
MUSC	Applied Music	3	MUSC	Applied Music	3
MUSC	Large Ensemble	1	MUSC	Large Ensemble	1
	Social and Behavioral Sciences	3		Natural Sciences	3
MUSC 3232	Counterpoint	2	MUSC 3242	Counterpoint	2
MUSC 4012	Conducting	2	MUSC	Music Elective	3
HIST 1323	The U.S.-1876 to Present	3	MATH 1113	College Algebra	3
				Visual and Performing Arts	3
<b>Total</b>		<b>14</b>	<b>Total</b>		<b>18</b>
<b>Total Hours</b>					<b>124</b>

### MUSIC ALL-LEVEL CERTIFICATION REQUIREMENTS

**Core Curriculum..... 42 SCH**

All Music Core Curriculum requirements are shown in the suggested degree program.

**Departmental Foreign Language Requirement (one language)..... 6 SCH**

**Major Requirements..... 74 SCH**

Applied Music (piano, voice, wind, or percussion instruments) - 8 semesters

Large Ensemble (band or choir) - 8 semesters

MUSC 1211, 1221, 1233, 1243, 1413, 1431, 1551, 1561, 2211, 22132221, 2213, 2223, 2323, 2551, 2561, 3212, 3222, 3313, 3323, 4012, 4022 or 4032and4032 and Music Electives. Voice majors are required to take 4 SCH of Vocal Diction classes in addition to the other major requirements. Piano majors should not take the 4 SCH in Functional Piano.

In addition to the above major courses, music students seeking all-level certification are required to take MUSC 1612, or 1622, 2411, 2421, 2431, 2441, 3462, or 3472, 4562 for coverage of the essential knowledge and skills required by the Texas State Board for Educator Certification.

**Support Area and Minor Requirements..... 18 SCH**

CUIN 3003, 3013, 4003, 4013, and 4813

**Total Degree Requirements .....130-140 SCH**

Other requirements for graduation: Music Seminar, (8 semesters), Mid-level Proficiency Examination, Senior recital and Piano Proficiency Examination

## APPLIED MUSIC (WITH ALL-LEVEL CERTIFICATION) SUGGESTED DEGREE PROGRAM SEQUENCE

FRESHMAN YEAR					
First Semester		Hours	Second Semester		Hours
MUSC	Applied Music	2	MUSC	Applied Music	2
MUSC 1233	Music Theory	3	MUSC 1243	Music Theory	3
MUSC 1211	Sight/Sing/Ear Train I	1	MUSC 1221	Sight/Sing/Ear Train II	1
Ensemble	Large Ensemble	1	Ensemble	Large Ensemble	1
MUSC 1551	Functional Piano I	1	MUSC 1561	Functional Piano II	1
ENGL 1123	Freshman Composition I	3	ENGL 1133	Freshman Composition II	3
COMM 1003	Fund. of Speech Communication	3	HIST 1313	U.S. to 1876	3
<b>Total</b>		<b>14</b>	<b>Total</b>		<b>14</b>
SUMMER SESSIONS					
First Semester		Hours	Second Semester		Hours
POSC 1113	American Government I	3	POSC 1123	American Government II	3
HIST 1323	The U.S.-1876 to Present	3	MATH 1113	College Algebra	3
MUSC 2411	Strings	1			
<b>Total</b>		<b>7</b>	<b>Total</b>		<b>6</b>
SOPHOMORE YEAR					
First Semester		Hours	Second Semester		Hours
MUSC	Applied Music	2	MUSC	Applied Music	2
MUSC 2213	Music Theory	3	MUSC 2223	Music Theory	3
MUSC 2211	Sight Sing/Ear Train III	1	MUSC 2323	Music Literature	3
MUSC	Large Ensemble	1	MUSC 2221	Sight Sing/Ear Train IV	1
MUSC 2421	Brass Instruments	1	MUSC	Large Ensemble	1
MUSC 2551	Functional Piano III	1	MUSC 2561	Functional Piano IV	1
	Humanities	3	Language	SPAN 1013 or FREN 1013	3
	Natural Science	3	MUSC 2431	Woodwind Instruments	1
			MUSC 2441	Percussion Instruments	1
<b>Total</b>		<b>15</b>	<b>Total</b>		<b>16</b>
SUMMER SESSIONS					
First Semester		Hours	Second Semester		Hours
	Natural Science	3	Language	SPAN 1023 or FREN 1023	3
<b>Total</b>		<b>3</b>	<b>Total</b>		<b>3</b>

*Music and Theatre Programs and Degree Plans*

<b>JUNIOR YEAR</b>					
<b>First Semester</b>		<b>Hours</b>	<b>Second Semester</b>		<b>Hours</b>
MUSC	Applied Music	2	MUSC	Applied Music	2
MUSC 3313	Music History	3	MUSC 3323	Music History	3
MUSC 3212	Analysis of Music	2	MUSC 4032 or 4022	Conducting (Instrumental) or Conducting (Choral)	2
MUSC 4012	Conducting	2	MUSC	Large Ensemble	1
MUSC	Large Ensemble	1	MUSC 3222	Analysis of Music	2
MUSC 3462 or 3472	Instrumental Literature or Choral Literature	2	MUSC 4562	Music in the Elementary School	2
MUSC 1413	Music Technology	3		Social and Behavioral Sciences	3
			MUSC 1612	Voice Class*	2
<b>Total</b>		<b>15</b>	<b>Total</b>		<b>17</b>
<b>SUMMER SESSIONS</b>					
<b>First Semester</b>		<b>Hours</b>	<b>Second Semester</b>		<b>Hours</b>
CUIN 3003	Educational Foundations	3	CUIN 3013	Educational Psychology	3
<b>SENIOR YEAR</b>					
<b>First Semester</b>		<b>Hours</b>	<b>Second Semester</b>		<b>Hours</b>
MUSC	Applied Music	2	CUIN 4403	Student Teaching Elementary	3
CUIN 4003	Instructional Plan Assessment	3	CUIN 4813	Student Teaching Secondary	3
CUIN 4013	Instructional Method/Class Mgmt.	3	MUSC	Applied Music	2
	Visual and Performing Arts	3	MUSC	Large Ensemble	1
MUSC	Large Ensemble	1			
<b>Total</b>		<b>12</b>	<b>Total</b>		<b>9</b>
			<b>Total Hours</b>		<b>127</b>

\* not included in the curriculum for voice majors

**Division of Social Work, Behavioral and Political Sciences**

**ADMINISTRATIVE OFFICER**

Walle Engedayehu, Division Head, *Political Science*

**FACULTY**

Bakama B. Bakama Nume, *Geography*  
Felix O. Chima, *Social Work*  
Alex D. Colvin, *Social Work*  
Jackson N. de Carvalho, *Social Work*  
Linda F. Eustace, *Political Science*  
Darron D. Garner, *Social Work*  
Ronald E. Goodwin, *History*  
Charles D. Gear, *History*  
Devethia D. Guillory, *History*  
Kenneth W. Howell, *History*  
James T. Jones, III, *History*  
Lee A. McGriggs, *Political Science*  
Nathan K. Mitchell, *Political Science*  
Billy W. Monroe, *Political Science*  
Michael J. Nojeim, *Political Science*  
Michael D. Royster, *Sociology*  
Veeda V. Williams, *Sociology*

**PURPOSE AND GOALS**

The Division of Social Work, Behavioral and Political Sciences provides support courses for all undergraduate programs in addition to offering four areas of degree specialization. These specializations help prepare students to pursue a variety of career options, including urban and regional planning, social work practice, human services, public administration, international affairs, public policy, law enforcement, and educational and legal services. In addition, the Division offers courses designed for teacher certification in Social Studies.

**ACADEMIC STANDARDS**

Students must earn a minimum grade of a “C” in all classes pertaining to their major and in those required in the support area and unrestricted electives. Furthermore, a minimum grade of “C” is required in the minor area (if applicable).

**DEGREE PROGRAMS**

History	B.A.	Social Work	BASW
Political Science (Pre-law)	B.A.	Sociology	B.A., M.A.

All students majoring in each of the above degree programs must earn a minimum grade of “C” in all classes pertaining to their major and in those required in the support area and unrestricted electives. Furthermore, a minimum grade of “C” is required in the minor area (if applicable).

## **SPECIAL EMPHASIS OPTIONS**

Minor in Behavioral and Political Science  
Minor in Geography  
Minor in Latin American and Caribbean Studies  
Minor in African-American Studies

### **Requirements for a Minor in Behavioral and Political Science ..... 18 SCH**

The Division offers a minor in Behavioral and Political Science designed to provide a sound understanding of the basic concepts, assumptions, research methods, and techniques used in the social sciences. The History Program administers the minor. Students are advised to consult with the Division Head in selecting appropriate courses for their minor. Any course taken for their minor may not be used to satisfy other requirements such as a core curriculum requirement or a major or minor requirement. Any combination of 18 semester credit hours with no more than six hours in any one discipline will constitute an integrated social science minor. Sample courses for this minor are listed below. Any courses above sophomore level from the disciplines listed below may be used to fulfill the minor requirements. Other disciplines related to social sciences may also be considered for substitution in consultation with the Division Head.

CRJS, ECON, GEOG, HIST, POSC, PSYC, and SOCG

### **Requirements for a Minor in Geography ..... 21 SCH** GEOG 1113, 1223, 2743, 3723, 4013, and 6 semester hours from the list of Geography courses.

### **Requirements for a Minor in African American Studies ..... 18 SCH**

The African American Studies minor is interdisciplinary and provides students the opportunity to gain knowledge and understanding of the African American influence on the social, political, cultural, and intellectual development of America. The minor requires 18 semester credit hours. HIST 4213 and HIST 4223 are required courses. The remaining 12 hours may be selected from the courses listed below. Courses may not be used to satisfy multiple academic requirements such as core curriculum requirement, major and minor requirements.

DRAM 2213 Afro-American Drama I  
DRAM 2223 Afro-American Drama II  
HIST 2613 African History  
HIST 4213 Afro-American History I

HIST 4223 Afro-American History II  
HIST 3223 Women in History  
HDFM 2533 Contemporary Family in Cross-cultural Perspectives  
POSC 2213 Blacks and the American Political System  
POSC 3553 Introduction to African Politics  
ENGL 3053 Survey of Afro-American Literature I  
ENGL 3063 Survey of Afro-American Literature II  
SOCG 2003 Sociology of Minorities  
SOCG 2023 African Family and Culture  
COMM 3703 Society and the Mass Media  
GEOG 2743 Geography of Africa  
CRJS 3933 Minorities and the Criminal Justice System  
ARTS 2283 Afro-American Art  
MUSC 2333 Afro-American Music

## **TEACHER CERTIFICATION**

Students seeking teacher certification in history or political science should consult with an advisor in the respective degree plan for requirements and guidelines.

## **HONOR SOCIETIES, CLUBS, AND SERVICE ORGANIZATIONS**

Sponsored by the political science faculty, the *Blackstone Pre-Law Society* is open to all students interested in law. The society promotes an awareness of the LSAT and general law school requirements, thereby facilitating preparation for entry into law school.

Open to all majors and other interested persons, the W.E.B. DuBois *History Club* provides non-classroom activities related to the study of history.

A national geography fraternity, the *Iota Epsilon Chapter of Gamma Theta Upsilon* recognizes high academic attainment on the part of students with either a major or a minor in geography. It is open to students who maintain an average of a “B” or better and serves both the needs for good human relationships and for sharing information concerning the field of geography.

Membership in *Phi Alpha Theta International Honor Society* is open to undergraduate students who have completed 12 semester hours of history with a grade point average of a 3.10 or above in history courses and 3.00 in two-thirds of the remainder of the course work, excluding history.

Membership in the *Political Science Club* is required of all political science majors. The purpose of this organization is to promote an awareness of politics at all levels and facilitate understanding of public policy making through field trips, seminars, lecture series, and other educational activities.

Membership in *Rho Nu Chapter of Pi Sigma Alpha*, the national Political Science Honor Society, is open to students, undergraduate and graduate, who have completed at least fifteen semester hours or ten semester hours of work in government, political science, international relations, or public administration, including at least one course not open to

students in the first two years of collegiate work, with an average grade of a “B” or higher and who have maintained a standard of general scholarship sufficient to place them within the upper third of their college class.

The *Social Work Action Club* (SWAC) is open to all social work majors and prospective majors. The club sponsors events that support local community residents and organizations. Members participate in local, regional, and national professional social work conferences and symposia.

*Association of Black Social Work Students* (ABSWS) Houston Chapter is open to students of African descent. The purpose of ABSWS is to promote the welfare and survival of the Black community and promote Black unity. The Organization sponsors campus and community events. Members participate in forums, workshops, and professional conferences at local, state, and national levels. Scholarship opportunities are also available.

The motto of *Alpha Delta Mu Social Work Honor Society* is “Advocate of the People”. The purpose of Alpha Delta Mu is to advance excellence in social work practice and to encourage, stimulate, and maintain scholarship of the individual members in all fields, particularly social work. Senior Social Work majors with a 3.0 minimum cumulative grade point average are eligible to join Alpha Delta Mu.

The *George R. Ragland Scholars* is open to all majors. Members must have a minimum GPA of 3.0 and be dedicated to social services and to helping others. Interested students in all disciplines are encouraged to join.

The *Sociology Club* is open to all sociology majors and minors, and to other students interested in gaining greater awareness about human societies and cultures.

Membership in *Alpha Kappa Delta (AKD) International Sociology Honor Society* is open to sociology majors of junior standing with a minimum 3.0 GPA. AKD promotes excellence in scholarship, research, and social and intellectual activities leading to the improvement of the human condition.

The *Phi Alpha Society*, with the motto “Through Knowledge – the challenge to serve,” is a national Social Work honor society. The purposes of Phi Alpha Honor Society are to provide a closer bond among students of social work and promote humanitarian goals and ideals. Phi Alpha fosters high standards of education for social workers and invites into membership those who have attained excellence in scholarship and achievement in social work. Senior Social Work majors with an overall grade point average of 3.0 on 4.0 scale and a 3.25 grade point average in required social work courses are eligible to join the Prairie View A&M University Lambda NU Chapter of Phi Alpha Honor Society.

## **HISTORY DEGREE PROGRAM**

The History Program at Prairie View A&M University prepares students for careers in areas including, but not limited to, teaching, government, law, public history, and political life. The History Program encourages a systematic study of the past and attempts to use the gained knowledge to explain human nature, behavior and contemporary issues.

**BACHELOR OF ARTS IN HISTORY DEGREE PROGRAM REQUIREMENTS**

**Core Curriculum..... 42 SCH**  
In order to fulfill the 6 SCH of natural sciences requirements, students are advised to take a BIOL, CHEM, PHYS, or PHSC sequence.

**Foreign Language Requirements (one language)..... 6 SCH**

**Major Requirements..... 36 SCH**  
HIST 1813, 1823, 3913, 4213, 4223, 4903, and 18 hours of History electives.  
Students must earn a minimum grade of “C” in all classes pertaining to their major and in those required in the support area and unrestricted electives. Furthermore, a minimum grade of “C” is required in the minor area (if applicable).

**Support Area Requirements ..... 12 SCH**  
**ECON 2113..... 3 SCH**  
**ENGL 3233 or 3243 ..... 3 SCH**  
**GEOG 1113 ..... 3 SCH**  
**POSC 2000 Level or Above..... 3 SCH**

**Minor Requirements..... \*18 SCH**  
\*Depending on the credit hours required by the selected minor.

**Unrestricted Electives..... 6 SCH**

**Total Degree Requirements ..... 120 SCH**

**Teacher Certification Track for History**

Students seeking a Bachelor of Arts degree in history or political science with teacher certification may substitute the necessary 18 hours of CUIN courses for the minor requirements in their degree plans. The degree will be designated as a History or Political Science degree with secondary teacher certification. The Department of Curriculum and Instruction in the Whitlow R. Green College of Education must admit students in the teacher certification program. In order to be admitted in the teacher certification program, a student must:

- 1. Complete the University Core;
- 2. Complete, with the assistance of your advisor, an admission application;
- 3. Have a University core GPA of 2.5;
- 4. Earn no grade below “C” in English and Math core courses;



5. Earn a THEA score of 230 or higher in Reading; and
6. Earn a University passing THEA score in Math and Writing

Students pursuing certification for secondary school teaching must consult with an advisor in the Division of Social Work, Behavioral and Political Sciences within their first two semesters of study at Prairie View A&M University. For more information, please refer to the History (with Secondary Teacher Certification) Suggested Degree Program Sequence and the teacher certification section of the catalog for requirements and guidelines.

**Minor Field Requirements ..... 18 SCH**

(When the program area is taken as a Minor in another degree program)

HIST 1813, 1823, 2313, 4903, and six semester hours selected from the 2000 level or above course options.

**HISTORY SUGGESTED DEGREE PROGRAM SEQUENCE**

<b>FRESHMAN YEAR</b>					
<b>First Semester</b>		<b>Hours</b>	<b>Second Semester</b>		<b>Hours</b>
ENGL 1123	Freshman Composition I	3	ENGL 1133	Freshman Composition II	3
HIST 1313	U.S. to 1876	3		Computing	3
MATH 1113	College Algebra	3	GEOG 1113	Introduction to Geography	3
POSC 1113	American Government I	3	POSC 1123	American Government II	3
COMM 1003	Fund. of Speech Communication	3	HIST 1323	The U.S.-1876 to Present	3
<b>Total</b>		<b>15</b>	<b>Total</b>		<b>15</b>
<b>SOPHOMORE YEAR</b>					
<b>First Semester</b>		<b>Hours</b>	<b>Second Semester</b>		<b>Hours</b>
HIST 1813	World Civilization to 1500	3	HIST 1823	World Civilization since 1500	3
	POSC Elective (2000 level or above)	3		HIST Elective	3
	Natural Science Sequence	3	Language	SPAN 1023 or FREN 1023	3
	Social and Behavioral Science	3	ECON 2113	Microeconomics	3
Language	SPAN 1013 or FREN 1013	3		Natural Science Sequence	3
<b>Total</b>		<b>15</b>	<b>Total</b>		<b>15</b>
<b>JUNIOR YEAR</b>					
<b>First Semester</b>		<b>Hours</b>	<b>Second Semester</b>		<b>Hours</b>
HIST 3913	American Historiography	3		ENGL (3233 or 3243)	3
HIST 4213	Afro-American History to 1865	3	HIST 4223	Afro-American History 1865-present	3
	Elective (Minor)	3		HIST Elective	3
	HIST Elective	3		Elective (Minor)	3
	Visual and Performing Arts	3		Elective (Unrestricted)	3
<b>Total</b>		<b>15</b>	<b>Total</b>		<b>15</b>

SENIOR YEAR					
First Semester		Hours	Second Semester		Hours
HIST 4903	Senior Seminar	3		Electives (Minor)	6
	Electives (Minor)	6		Humanities	3
	HIST Elective	3		HIST Elective	3
	Elective (Unrestricted)	3		Elective (Unrestricted)	3
Total		15	Total		15
			Total Hours		120

**HISTORY (with Secondary Teacher Certification) SUGGESTED DEGREE PROGRAM SEQUENCE**

FRESHMAN YEAR					
First Semester		Hours	Second Semester		Hours
ENGL 1123	Freshman Composition I	3	ENGL 1133	Freshman Composition II	3
HIST 1313	U.S. to 1876	3		Computing	3
MATH 1113	College Algebra	3	GEOG 1113	Introduction to Geography	3
POSC 1113	American Government I	3	POSC 1123	American Government II	3
COMM 1003	Fund. of Speech Communication	3	HIST 1323	The U.S.-1876 to Present	3
Total		15	Total		15

SOPHOMORE YEAR					
First Semester		Hours	Second Semester		Hours
HIST 1813	World Civilization to 1500	3	HIST 1823	World Civilization since 1500	3
HIST 3913	American Historiography	3		Visual and Performing Arts	3
	Natural Science Sequence	3	Language	SPAN 1023 or FREN 1023	3
	Social and Behavioral Science	3		Humanities	3
Language	SPAN 1013 or FREN 1013	3		Natural Science Sequence	3
				Elective (Unrestricted)	3
Total		15	Total		18

JUNIOR YEAR					
First Semester		Hours	Second Semester		Hours
Support Area	POSC Elective (2000 level or above)	3	Support Area	ENGL (3233 or 3243)	3
ECON 2113	Microeconomics	3	HIST 4223	Afro-American History 1865-present	3
CUIN 3003	Educational Foundation	3	CUIN 3013	Educational Psychology	3
HIST 4213	African American History to 1865	3		Elective (Unrestricted)	3
	Elective (Major)	6		Elective (Major)	6
Total		18	Total		18

		<b>SENIOR YEAR</b>		
<b>First Semester</b>		<b>Hours</b>	<b>Second Semester</b>	<b>Hours</b>
HIST 4903	Senior Seminar	3	CUIN 4826	Student Teaching I
CUIN 4003	Inst. Planning	3		
	Assessment			
CUIN 4013	Instr. Methods/Class	3		
	Management			
	Elective (Major)	6		
<b>Total</b>		<b>15</b>	<b>Total</b>	<b>6</b>
			<b>Total Hours</b>	<b>120</b>

**Note: Before taking the CUIN courses, candidates are to:**

1. Complete the University Core;
2. Complete, with an advisor, an application for admission into education;
3. Have a GPA in the University core of 2.5 or higher;
4. Have no grade below "C" in English and Math core courses;
5. Have a THEA score of 230 or higher in Reading; and
6. Have University passing THEA scores in Math and Writing

## **POLITICAL SCIENCE PROGRAM**

The Political Science Program has a mission of providing students with knowledge and training necessary for personal, academic, and professional development in a friendly academic environment. The curriculum is designed to help students develop their reasoning and analytical skills and improve their competence in oral and written communications. The fundamental goal of the program is to provide students with the theoretical underpinnings and analytical tools required to research and understand political issues and governmental processes. In addition to providing support courses for all undergraduate studies at Prairie View A&M University, the program strives to achieve the following pivotal goals:

- Prepare students for graduate and professional schools by exposing them to a variety of concepts, theories and methodologies used in the study of Political Science;
- Train students for careers in government, law, education, journalism, urban planning, international affairs, business and many other fields on which public policy has an impact; and
- Help students develop a sustained interest in the day-to-day activities of governmental institutions and processes, as well as in events and issues that occur daily at the local, state, national, and international levels.

The program offers a B.A. in Political Science with courses tailored to accommodate students of diverse educational and career interests. The curriculum includes a list of courses covering the traditional sub-fields of Political Science. The two main concentrations are Pre-law and General Political Science. Both American Government and international politics are emphasized in the course offerings. In each track, the

program requires the completion of 33 credit hours of Political Science courses, of which POSC 2123, POSC 2133, POSC 2413, POSC 3543 and POSC 4113 are required for majors and minors in the discipline.

**BACHELOR OF ARTS IN POLITICAL SCIENCE DEGREE  
PROGRAM REQUIREMENTS**

<b>Core Curriculum.....</b>	<b>42 SCH</b>
All Political Science Core Curriculum requirements are shown in the suggested degree program. In order to fulfill the 6 SCH of natural sciences requirements, students are advised to take a BIOL, CHEM, PHYS, or PHSC sequence.	
<b>Foreign Language Requirements (one language).....</b>	<b>6 SCH</b>
<b>Major Requirements.....</b>	<b>33 SCH</b>
POSC 2123, 2133, 2413, 3543, 4113, and 18 semester hours from the political science curriculum. Students must earn a minimum grade of “C” in all classes pertaining to their major and in those required in the support area and unrestricted electives. Furthermore, a minimum grade of “C” is required in the minor area (if applicable).	
<b>Support Area .....</b>	<b>12 SCH</b>
<b>ECON 2113.....</b>	<b>3 SCH</b>
<b>ENGL 2143.....</b>	<b>3 SCH</b>
<b>GEOG 1113 .....</b>	<b>3 SCH</b>
<b>PSYC 2613.....</b>	<b>3 SCH</b>
<b>Minor Requirements.....</b>	<b>*18 SCH</b>
*Depending on the credit hours required by the selected minor.	
<b>Unrestricted Electives.....</b>	<b>9 SCH</b>
<b>Total Degree Requirement .....</b>	<b>120 SCH</b>

**Teacher Certification Track for Political Science**

Students seeking a B.A. degree in history or political science with teacher certification may substitute the necessary 18 hours of CUIN courses for the minor requirements in their degree plans. The degree will be designated as a History or Political Science degree with secondary teacher certification. The Department of Curriculum and Instruction in the Whitlow R. Green College of Education must admit students in the teacher certification program. In order to be admitted in the teacher certification program, a student must:

1. Complete the University Core;
2. Complete, with the assistance of your advisor, an admission application;
3. Have a University core GPA of a 2.5;
4. Earn no grade below a “C” in English and Math core courses;
5. Earn a THEA score of a 230 or higher in Reading; and
6. Earn a University passing THEA score in Math and Writing

Students pursuing certification for secondary school teaching must consult with their advisor in the Division of Social Work, Behavioral and Political Sciences within their first two semesters of study at Prairie View A&M University. For more information, please refer to the Political Science (with Secondary Teacher Certification) Suggested Degree Program Sequence and the teacher certification section of the catalog for requirements and guidelines.

**Minor Field Requirements ..... 24 SCH**

(When the program area is taken as a Minor in another degree program)

POSC 2123, 2133, 2413, 3543, 4113 and 9 semester hours of Political Sciences electives.

**POLITICAL SCIENCE SUGGESTED DEGREE PROGRAM SEQUENCE**

<b>FRESHMAN YEAR</b>					
<b>First Semester</b>		<b>Hours</b>	<b>Second Semester</b>		<b>Hours</b>
POSC 1113	American Government I	3	POSC 1123	American Government II	3
ENGL 1123	Freshman Composition I	3	ENGL 1133	Freshman Composition II	3
MATH 1113	College Algebra	3		Humanities	3
GEOG 1113	Introduction to Geography	3	HIST 1323	The U.S.- 1876 to Present	3
HIST 1313	U.S. to 1876	3		Computing	3
<b>Total</b>		<b>15</b>	<b>Total</b>		<b>15</b>
<b>SOPHOMORE YEAR</b>					
<b>First Semester</b>		<b>Hours</b>	<b>Second Semester</b>		<b>Hours</b>
POSC 2133	Introduction to Political Science	3	POSC 2413	Introduction to Research	3
ENGL 2143	Advanced Composition	3	COMM 1003	Fund. of Speech Communication	3
Language	SPAN 1013 or FREN 1013	3	Language	SPAN 1023 or FREN 1023	3
	Natural Science Sequence	3		Natural Science Sequence	3
PSYC 2613	Statistics for Psychology I	3		Elective (Minor)	3
<b>Total</b>		<b>15</b>	<b>Total</b>		<b>15</b>
<b>JUNIOR YEAR</b>					
<b>First Semester</b>		<b>Hours</b>	<b>Second Semester</b>		<b>Hours</b>
	POSC Electives	6	POSC 3543	International Politics	3
ECON 2113	Microeconomics	3		POSC Elective	3
	Elective (Minor)	3	POSC 2123	Public Administration	3
	Visual and Performing Arts	3		Elective (Minor)	3
				Elective (Unrestricted)	3
<b>Total</b>		<b>15</b>	<b>Total</b>		<b>15</b>

SENIOR YEAR					
First Semester		Hours	Second Semester		Hours
	POSC Electives	6	POSC 4113	American Constitutional Law	3
	Elective (Minor)	3		POSC Elective	3
	Social and Behavioral Science	3		Electives (Minor)	6
	Electives (Unrestricted)	3		Elective (Unrestricted)	3
Total		15	Total		15
			Total Hours		120

**POLITICAL SCIENCE(with Secondary Teacher Certification)  
SUGGESTED DEGREE PROGRAM SEQUENCE**

FRESHMAN YEAR					
First Semester		Hours	Second Semester		Hours
POSC 1113	American Government I	3	POSC 1123	American Government II	3
ENGL 1123	Freshman Composition I	3	ENGL 1133	Freshman Composition II	3
MATH 1113	College Algebra	3		Natural Science Sequence	3
GEOG 1113	Introduction to Geography	3		Humanities	3
HIST 1313	U.S. to 1876	3	HIST 1323	The U.S. 1876 to Present	3
Total		15	Total		15

		SOPHOMORE YEAR			
First Semester		Hours	Second Semester		Hours
POSC 2123	Public Administration	3	POSC 2133	Political Parties and Elections	3
	Computing	3	COMM 1003	Fund. of Speech Communication	3
	Natural Science Sequence	3	Language	SPAN 1023 or FREN 1023	3
PSYC 2613	Statistics for Psychology I	3		Social and Behavioral Science	3
Language	SPAN 1013 or FREN 1013	3		Visual and Performing Arts	3
				Elective (Unrestricted)	3
Total		15	Total		18

JUNIOR YEAR					
First Semester		Hours	Second Semester		Hours
POSC 2413	Scope and Methods in Political Science	3	ENGL 2143	Advanced Composition	3
ECON 2113	Microeconomics	3		Elective (Major)	9
CUIN 3003	Educational Foundation	3	CUIN 3013	Educational Psychology	3
POSC 3543	International Politics	3		Elective (Unrestricted)	3
	Elective (Major)	6			
Total		18	Total		18

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		SENIOR YEAR			
First Semester		Hours	Second Semester		Hours
CUIN 4003	Instr. Planning Assessment	3	CUIN 4826	Student Teaching I	6
CUIN 4013	Instr. Methods/Class Management	3			
	Elective (Unrestricted)	3			
	Elective (Major)	3			
POSC 4113	American Constitutional Law	3			
<b>Total</b>		<b>15</b>	<b>Total</b>		<b>6</b>
			<b>Total Hours</b>		<b>120</b>

**Note: Before taking the CUIN courses, candidates are to:**

1. Complete the University Core;
2. Complete, with an advisor, an application for admission into education;
3. Have a GPA in the University core of 2.5 or higher;
4. Have no grade below "C" in English and Math core courses;
5. Have a THEA score of 230 or higher in Reading; and
6. Have University passing THEA scores in Math and Writing

## **PROFESSIONAL SOCIAL WORK PROGRAM**

Felix O. Chima, *Director*

### **PURPOSE AND GOALS**

The mission of the Baccalaureate Social Work (BSASW) Program is to prepare students as professional generalist Social Work practitioners and provide students with requisite knowledge for advanced study. The Program equips students with core skills and values for beginning level professional Social Work practice in both rural and urban settings, working with individuals, families, groups, organizations, communities, and populations-at-risk.

The generalist Social Work practice entails a problem solving process (multi-method) at the micro, mezzo, and macro levels (multi-level) utilizing Social Work knowledge, values, and skills, which informs and directs service delivery to assess and intervene with the problems confronting clients (conceptualization). Generalist Practice of the Baccalaureate Social Work Program at Prairie View A&M University utilizes the ecosystems approach which includes the ecological perspective and systems theory that entails viewing the person and the problem within the environment, and identifies strength within the client as well as the environment. Students apply the problem solving method to empower clients and to intervene across diverse client systems of all sizes (i.e. individuals, families, groups, organizations, and communities) both in rural and urban settings.

Students at Prairie View A&M University, a Historically Black College/ University, are provided with a unique opportunity to recognize the importance of the barriers and obstacles regarding disenfranchised people within the social environment, realities of discrimination, and oppression, and the opportunities to enhance social and economic justice.

The Baccalaureate Social Work Program is accredited by the Council on Social Work Education. The goals of the Social Work Program are to:

1. Prepare students to understand social welfare policy analysis and its history, as well as policy analysis and its implementation; forms and mechanism of oppression and discrimination, and the strategies of change that advance social and economic justice in both rural and urban settings.
2. Utilize a liberal arts and core generalist competencies to prepare students for practice with client systems of various sizes and types with considerations to the social context of social work practice and the dynamics of change.
3. Prepare students to appreciate and conduct ethical Social Work research to evaluate service delivery at all levels of practice and to add to the social work knowledge base with qualitative and quantitative methodologies.
4. Prepare students for professional entry-level generalist Social Work practice with diverse populations in rural and urban settings at micro, mezzo, and macro levels of



practice; based on knowledge, values, ethics and skills of Social Work built on a liberal arts perspective and reinforced through classroom and field experiences.

5. Prepare students for a professional generalist Social Work career as well as graduate social work education and the importance of ongoing professional growth and development for both students and faculty.

Social Work majors have the opportunities to complete a total of 56 hours of volunteer assignments and the required 400 hours of supervised experiential field instruction in settings such as rural community centers, mental health and mental retardation agencies, drug and alcohol treatment facilities, agencies serving the elderly, juveniles, adults, and children, public assistance/public welfare, school Social Work service, policy-making entities and Social Work administration. Graduates of the Social Work Program secure employment in a variety of agencies including hospitals, schools, child welfare, probation and parole centers, residential treatment centers, and other public and private agencies.

## **ADMISSION REQUIREMENTS**

Students desiring to pursue the Baccalaureate Social Work degree must complete procedures designed to determine their suitability and/or readiness for professional generalist Social Work practice. Freshmen students changing their major, and transfer students may declare Social Work as a major for the purpose of advisement. Students interested in a Social Work major initially meet with the Director of Social Work Program who interviews the student regarding their knowledge of Social Work and what they hope to accomplish with a degree in Social Work. Students are identified as Prospective Social Work Majors until they are officially accepted into the Program. This usually occurs during the sophomore year when the student is nearing completion of the Program's required Liberal Arts Perspective and other basic freshmen/sophomore level courses. Prior to official acceptance, students must have completed the pre-professional Social Work course: SOWK 2113, Introduction to Social Work and Social Welfare, with a minimum grade of "C". Students are expected to attend the Social Work Major's Orientation scheduled during the fall semester a "C".

### **Admission of Transfer Students**

The Social Work Program follows the University's guidelines for transfer credit of University core requirements and proficiency examinations (College Level Examination Program or CLEP). Guidelines and procedures for general transfer of core curriculum courses and proficiency examinations are described in the Undergraduate Catalog.

Liberal Arts courses that meet the requirements for Social Work degree will be accepted as transfer credit. The Social Work Program accepts transfer credits of Social Work courses only from CSWE accredited programs. The Social Work Program may request copies of syllabi as deemed appropriate.

**Academic and Professional Advisement**

Each Social Work major (current or prospective) is assigned to a Social Work faculty advisor. Students are strongly encouraged to be proactive in seeking advisement and in strictly following their degree plan. Each Social Work major must meet with his or her respective advisor at least once per semester, and more often as needed. Advisement includes appropriate guidance in academic course work, satisfactory progress in the major, adherence to Social Work Codes of Ethics, and career options for employment.

**Academic Progress**

Social Work majors must maintain satisfactory progress in the major. Students will be evaluated by their respective advisor each semester. Students not maintaining satisfactory academic and professional progress will be evaluated for continuation in the Social Work Program. Students must meet with their respective advisor to ensure courses are taken in the proper sequence for the Social Work major (See Social Work Suggested Degree Program Sequence). Students must complete the Liberal Arts prerequisite courses and SOWK 2113 prior to enrolling in Social Work core courses for the junior and senior years. Students must take all SOWK upper division core courses in proper sequential order.

A Social Work major must maintain a grade of “C” or better in all SOWK courses. No SOWK prefix course may be repeated more than once to achieve a passing grade of “C”. A student who fails to achieve a passing grade in any of the SOWK prefix courses after two attempts must seek a major in another discipline. Students must earn a minimum grade of “C” in all social work courses and in those required in the support area. The program does not offer credit for life or work experience.

The Social Work Program does not give credit in whole or part for previous work experiences or life experiences in lieu of field instruction or for any social work core course.

**BACHELOR OF ARTS IN SOCIAL WORK DEGREE  
PROGRAM REQUIREMENTS**

<b>Core Curriculum .....</b>	<b>44 SCH</b>
Social Work majors are required to complete BIOL 1054, BIOL 1113, and BIOL 1111.	
<b>Foreign Language Requirements (Spanish Recommended) .....</b>	<b>6 SCH</b>
<b>Social Work Major Requirements.....</b>	<b>51 SCH</b>
SOWK 2113, 2133, 3113, 3123, 3133, 3143, 3213, 4123, 4133, 4143, 4153, 4176, 4183 and 9 hours of social work electives from the following: SOWK 2173, 3153, 3163, 4343, 4353, and 4363. SOWK 4176 and SOWK 4183 must be taken concurrently.	
<b>Support Area Requirements .....</b>	<b>12 SCH</b>
SOCG 1013, SOCG 4053 or PSYC 2613, ECON 2113, PSYC 1113	
<b>Unrestricted Electives.....</b>	<b>9 SCH</b>

**Total Degree Requirements ..... 122SCH**

**Requirements for Social Work as a Minor Field ..... 18 SCH**

(When Social Work is taken as a Minor in another degree program)

A minor in social work is offered solely for student's learning in the area of social services. The Council on Social Work Education (CSWE) does not accept a minor in social work as adequate preparation for entry level social work practice; neither does a minor in social work qualify students to take state licensure examinations. Students majoring in social work may graduate without a minor. Students who seek social work as a minor in another degree program must complete: SOWK 2113, 3113, 3133, 4123, and 6 hours Social Work electives

### SOCIAL WORK SUGGESTED DEGREE PROGRAM SEQUENCE

FRESHMAN YEAR					
First Semester		Hours	Second Semester		Hours
ENGL 1123	Freshman Composition I	3	ENGL 1133	Freshman Composition II	3
MATH 1113	College Algebra	3	PSYC1113	General Psychology	3
BIOL 1054	Anatomy & Physiology	4	HIST 1323	The U.S.-1876 to Present	3
HIST 1313	U.S. to 1876	3	BIOL 1113	College Biology	3
SOCG 1013	General Sociology	3	COMP 1003	Introduction to Computer Ed	3
			BIOL 1111	College Biology Lab	1
<b>Total</b>		<b>16</b>	<b>Total</b>		<b>16</b>
SOPHOMORE YEAR					
First Semester		Hours	Second Semester		Hours
SOWK 2113	Introduction to Social Work	3	ECON 2113	Principles of Economics	3
PHIL 2023	Ethics	3	POSC 1123	American Government II	3
POSC 1113	American Government I	3	SPAN 1013	Elementary Spanish I	3
COMM 1003	Fund. Of Speech Comm.	3		Visual & Performing Arts	3
	Social/Behavioral Science	3		Unrestricted Electives	3
<b>Total</b>		<b>15</b>	<b>Total</b>		<b>15</b>

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JUNIOR YEAR					
First Semester		Hours	Second Semester		Hours
SOWK 3113	Social Welfare and Services	3	SOWK 3123	Social Welfare Policy Analysis	3
SOWK 3133	Human Behav.//Social Environ. I	3	SOWK 3143	Human Behav.//Social Environ. II	3
SOWK 4123	Social Work Practice I	3	SOWK 2133	SW with Children & Families	3
SPAN 1023	Elementary Spanish II	3	SOCG 4053	Statistics	3
			/PSYC 2613		
			SOWK 4133	Social Work Practice II	3
<b>Total</b>		<b>12</b>	<b>Total</b>		<b>15</b>
SENIOR YEAR					
First Semester		Hours	Second Semester		Hours
SOWK 4143	Research I	3	SOWK 4153	Research II	3
	Unrestricted Elective	3		Social Work Elective	6
	Social Work Electives	3		Unrestricted Elective	3
SOWK 3213	Human & Cultural Div. SW	3			
<b>Total</b>		<b>12</b>	<b>Total</b>		<b>12</b>
SUMMER SESSION					
First Session		Hours			
SOWK 4176	Field Practicum	6			
SOWK 4183	Integrative Seminar	3			
<b>Total</b>		<b>9</b>			
<b>Total Hours</b>					<b>120</b>

## **SOCIOLOGY PROGRAM**

### **PURPOSE AND GOALS**

The Bachelors of Arts degree program in Sociology offers a curriculum that enables students to analyze, critically evaluate, and engage in the planning of solutions to problems that evolve from patterns of human social interaction. Sociologists analyze systems that range from individuals in small groups to entire societies. In addition to social theory and social research, students may choose courses in criminology, gerontology, substance abuse, the family, deviant behavior, and modern social problems. The Sociology Program prepares students for professional careers with government agencies and with the business sector. Students pursuing a Baccalaureate degree in Sociology may become certified in secondary education. Additionally, a Sociology degree is an excellent preparation for many post-baccalaureate degree programs.

### **The University Center – The Woodlands**

The University Center Consortium was launched in 1995 to enhance higher education opportunities for North Harris County and Montgomery County residents. The Texas Higher Education Coordinating Board has authorized Prairie View A&M University, Sam Houston State University, Texas A&M University, Texas Southern University, University of Houston, University of Houston-Downtown, and the four colleges of the North Harris Montgomery Community College District (NHMCCD) to cooperatively offer the Sociology program at The University Center.

### **The Northwest Houston Center**

Only upper-level sociology courses are offered by the Sociology Program at The University Northwest Houston Center. Students seeking degrees must transfer the lower level courses to fulfill the University Core Requirements along with the College Level Requirements and Program Support Area Requirements. Additionally, as determined in consultation with an advisor, students are expected to transfer courses that will fulfill the minor requirements.

The University of Houston-Downtown has been assigned the responsibility of providing common support courses for all baccalaureate degree programs at The University Center. Sam Houston State University will provide these support courses that the University of Houston-Downtown chooses not to offer. If neither the University of Houston-Downtown nor Sam Houston State University provides a required support course, the University of Houston Distance Learning courses will be available.

The colleges of the NHMCCD are responsible for providing articulated freshman and sophomore level courses for each of the baccalaureate degrees.

BACHELOR OF ARTS IN SOCIOLOGY DEGREE  
PROGRAM REQUIREMENTS

Core Curriculum.....	42 SCH
All Sociology Core Curriculum requirements are shown in the suggested degree program. In order to fulfill the 6 SCH of natural sciences requirements, students are advised to take a BIOL, CHEM, PHYS, or PHSC sequence.	
Foreign Language Requirement (One Language).....	6 SCH
Major Requirements.....	39 SCH
SOCG 1013, 4053, 4723, 4733, 4783 and 24 SCH of SOCG electives determined in consultation with an advisor. Students must earn a minimum grade of a “C” in all classes pertaining to their major and in those required in the support area and unrestricted electives. Furthermore, a minimum grade of a “C” is required in the minor area (if applicable).	
Support Area Requirements .....	9 SCH
ECON 2113 or 2123 Principles of Microeconomics or Principles of Macroeconomics ENGL 1143 or 2143 Technical Writing or Advanced Composition PSYC 1113 General Psychology	
Minor Requirements.....	*18 SCH
*Depending on the credit hours required by the selected minor.	
Unrestricted Electives .....	6 SCH
Total Degree Requirements .....	120 SCH
Requirements for Sociology as a Minor Field .....	18 SCH
SOCG 1013, 4733 and 12 semester hours of electives in sociology.	

SUGGESTED SOCIOLOGY DEGREE PROGRAM SEQUENCE

FRESHMAN YEAR					
First Semester		Hours	Second Semester		Hours
ENGL 1123	Freshman Comp I	3	ENGL 1123	Freshman Comp II	3
HIST 1313	U.S. to 1876	3	MATH 1113	College Algebra	3
SOCG 1013	General Sociology	3	PSYC 1113	General Psychology	3
	Visual & Performing Arts	3		Humanities Elective	3
	Computing	3	HIST 1323	The U.S.-1876 to Present	3
Total		15	Total		15

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**SOPHOMORE YEAR**

<b>First Semester</b>		<b>Hours</b>	<b>Second Semester</b>		<b>Hours</b>
BIOL 1113	College Biology	3	PHSC 1123	Physical Science	3
POSC 1113	American Government I	3	POSC 1123	American Government II	3
COMM 1003	Fundamentals of Speech Com.	3	Language	SPAN 1023 or FREN 1023	3
Language	SPAN 1013 or FREN 1013	3		Social or Behavioral Science Elective	3
	Sociology Elective (#1)	3	ECON 2113/2123	Micro or Macroeconomics	3
<b>Total</b>		<b>15</b>	<b>Total</b>		<b>15</b>

**JUNIOR YEAR**

<b>First Semester</b>		<b>Hours</b>	<b>Second Semester</b>		<b>Hours</b>
SOCG	Sociology Elective (#2)	3	ENGL 2143	Advanced Composition	3
SOCG	Sociology Elective (#3)	3		SOCG Elective (#4)	3
SOCG 4053	Social Statistics	3		Sociology Elective (#45)	3
	Minor Requirements	3		Minor Requirement	3
	Minor Requirement	3		Minor Requirement	3
<b>Total</b>		<b>15</b>	<b>Total</b>		<b>15</b>

**SENIOR YEAR**

<b>First Semester</b>		<b>Hours</b>	<b>Second Semester</b>		<b>Hours</b>
SOCG 4733	Sociological Theory	3	SOCG 4783	Senior Seminar	3
SOCG 4723	Sociological Research Methods	3		SOCG Elective (#8)	3
	SOCG Elective (#6)	3		Unrestricted Elective	3
	SOCG Elective (#7)	3		Unrestricted Elective	3
	Minor Requirement	3		Minor Requirement	3
<b>Total</b>		<b>15</b>	<b>Total</b>		<b>15</b>
			<b>Total Hours</b>		<b>120</b>

## ***Army Reserve Officers Training Corps***

### **ADMINISTRATIVE OFFICER**

MAJ Natalie Rolling Edlerbeck, *Department Head - Professor of Military Science*

### **FACULTY**

Mr. Arthur Hobbs, *Assistant Professor of Military Science, Executive Officer*

Mr. Carlton G. Smith, *Assistant Professor of Military Science/Battalion Enrollment Officer*

MSG John M. Thompson, *Senior Military Instructor*

SFC Kenneth Turner, *Instructor/Operations NCO*

### **PURPOSE AND GOALS**

The mission of the Army ROTC program is to prepare college students for professional careers as United States Army Officers. The faculty and staff in the department are dedicated military and civilian personnel committed to producing the highest caliber leaders for the nation.

The experience and training provided by Army ROTC separates ROTC graduates from their peers. Army ROTC Cadets are taught to be leaders and are provided hands-on experience in managing physical, financial, and human resources. Our cadets often possess a higher level of self-confidence and superior decision-making skills. The challenge of developing leaders to manage resources and command units equipped with state-of-the-art equipment forms the basic foundation of the military science curriculum.

Qualified students interested in earning a commission are encouraged to apply for an Army ROTC Scholarship. In addition to tuition, the scholarship pays educational fees, provides \$1200 for books per year and provides the cadet a \$300-\$500 stipend for each month of the school year. Scholarships are available for two, three, and four year periods.

The four-year Army ROTC program is divided into two phases: the Basic Course and the Advanced Course. The Basic Course is taken during the first two years of college and is offered with no military obligation. It covers topics such as leadership development, individual military skills, and military customs/traditions. A student who demonstrates the potential to become army officers and who meet the physical and scholastic standards are eligible to enroll in the Advanced Course. It covers the final two years of college and includes a five-week course held during the summer between the junior and senior years. Cadets receive instruction in management, tactics, professionalism, ethics, and advanced leadership skills. While enrolled in this course, a cadet receives a stipend ranging from \$300-\$500 per month for up to 10 months of the school year and approximately \$900 for attending the Leadership Development Assessment Course (LDAC), known as Warrior Forge.

### **COMMISSIONING PROGRAM**



Completion of Army ROTC qualifies the student for a commission as a second lieutenant in the United States Army and a minor in Military Science.

### **SPECIAL EMPHASIS OPTIONS**

Cadets enrolled in Advanced Army ROTC are required to complete a Professional Military Education (PME) component consisting of three essential parts: a baccalaureate degree: Army ROTC Advanced Courses Program and American Military History Course. Credits received through Army ROTC may be included as a part of their individual academic degree program.

Military science students may select military science courses as free electives.

Army ROTC cadets are required to participate in physical training (calisthenics) periods, as well as field-training exercises as part of the leadership laboratory.

### **Prior Service or JROTC experience**

Students with a good record of prior military service or with four years of Junior ROTC experience may receive constructive credit for the basic course and may be allowed to enroll in the advanced course. Students with such experience and who are interested in enrolling should contact the Professor of Military Science prior to the start of their sophomore year.

### **Internship: Leader's Training Course**

Students without any prior military service may receive constructive credit for the basic course by attending and successfully completing a summer internship called the Leader's Training Course at Fort Knox, Kentucky. The internship is a four-week training program conducted during the summer months and is designed to orient students to the U.S. Army. The training develops and evaluates their officer leadership potential, and qualifies them for enrollment in the ROTC Advanced Course program. The student graduates from the summer internship with increased confidence, self-discipline and decisiveness developed through physical and academic challenges. Participants will receive approximately \$900 for the internship. Students not enrolled in ROTC and who have completed a minimum of sixty credit (60) hours may attend the Leader's Training Course. Students who successfully complete the training can receive four (4) hours of constructive credit and qualify for an Army ROTC two-year scholarship.

### **Extra Curricular Activities**

The Panther Battalion has its own Ranger Challenge Team, a varsity-level team that competes against other universities in military skills events.

The department periodically sponsors other activities including; rappelling demonstrations, ranger weekends, road marches, leadership exercises, adventure training, land navigation exercises, patrolling, and survival skills training.

Military science students may substitute the following courses for one semester hour of physical education activity requirements in the general education program: ARMY 1171, 1181, 2271, 2281, 3371, 3381, 4471 and or 4481.

**ADVANCED COURSE ADMISSION REQUIREMENTS**

Prerequisites: Students must complete the basic course (ARMY 1111, 1121, 1171-1181, 2203 (May substitute HIST 1313 or HIST 1323) 2212, 2222, and 2271-2281) or receive constructive credit prior to enrolling in the advanced course (ARMY 3313, 3371, 3323, 3381, 4413, 4423, 4471, and 4481). Students with prior military service or four years of JROTC experience may be eligible for constructive credits and advanced placement.

Course	Prerequisites
ARMY 3313	ARMY 1111, 1121, 1171-1181, 2212, 2222, and 2271-2281, completion of the Leadership Training Course (LTC); prior service or have completed four years of junior ROTC in high school.
ARMY 4413	ARMY 3313, 3371, 3323, 3381

**COMMISSIONING PROGRAM REQUIREMENTS**

A cadet must satisfy the following requirements in order to be commissioned:

Complete or receive constructive credit for 16 hours of Military Science courses.

- Option 1. Four-year Program (Students entering ROTC program as freshmen:**  
Military Science Courses 26 SCH  
Satisfactorily complete Leadership Development Assessment Course/Warrior Forge.  
Demonstrate proficiency in military history. Army 2203 – May substitute HIST 1313 or HIST 1323)
- Option 2. Two-year Program (Students entering the ROTC program as juniors):**  
Complete Summer Internship Program (Leader’s Training Course)  
Military Science Courses 16 SCH  
(Army 2203 – May substitute HIST 1313 or HIST 1323)
- Option 3. Prior Service or Junior ROTC Program:**  
Military Science Courses 16 SCH  
Satisfactorily complete Leadership Development Assessment Course/Warrior Forge.  
Demonstrate proficiency in military history. (Army 2203 – May substitute HIST 1313 or HIST 1323)

Minor Field Requirements .....	16 SCH
ARMY 3313, 3323, 3371, and 3381.....	8 SCH
ARMY 4413, 4423, 4471, and 4481.....	8 SCH
Receive a minimum grade of “C” in all Military Science Courses.	
<b>Total .....</b>	<b>16 SCH</b>

## Military Science Curriculum

FRESHMAN YEAR					
BASIC COURSE					
First Semester		Hours	Second Semester		Hours
ARMY 1111	Foundations of Officership I	1	ARMY 1121	Foundations of Officership II	1
ARMY 1171	Leadership Lab I	1	ARMY 1181	Leadership Lab II	1
<b>Total</b>		<b>2</b>	<b>Total</b>		<b>2</b>
SOPHOMORE YEAR					
BASIC COURSE					
First Semester		Hours	Second Semester		Hours
ARMY 2212	Individual Leadership Studies and Team Work I	2	ARMY 2222	Individual Leadership Studies and Team Work II	2
ARMY 2271	Leadership Lab III	1	ARMY 2281	Leadership Lab IV	1
ARMY 2203	Military History	3			
<b>Total</b>		<b>6</b>	<b>Total</b>		<b>3</b>
SUMMER SESSION					
(for cadets that need to get constructive credit for the basic course)					
First Semester		Hours			
ARMY 2224	AROTC Summer Internship	4			
<b>Total</b>		<b>4</b>			
JUNIOR YEAR					
ADVANCED COURSE					
First Semester		Hours	Second Semester		Hours
ARMY 3313	Principles and Techniques of Leadership and Management	3	ARMY 3323	Leadership Skills and Small Unit Tactics	3
ARMY 3371	Leadership Lab V	1	ARMY 3381	Leadership Lab VI	1
<b>Total</b>		<b>4</b>	<b>Total</b>		<b>4</b>
SENIOR YEAR					
ADVANCED COURSE					
First Semester		Hours	Second Semester		Hours
ARMY 4413	Leadership and Management I	3	ARMY 4423	Leadership and Management II	3
ARMY 4471	Leadership Lab VII	1	ARMY 4481	Leadership Lab VIII	1
<b>Total</b>		<b>4</b>	<b>Total</b>		<b>4</b>
<b>Total Hours</b>					<b>33</b>

## ***Naval Reserve Officers Training Corps (NROTC)***

### **COMMANDING OFFICER**

CAPT William A. Fitzgerald, USN, *Professor of Naval Science*

### **FACULTY**

Eric V. Kessler, USN, *Assistant Professor of Naval Science*

Rodney A. Williams, USN, *Assistant Professor of Naval Science*

Capt Andrew E. Nelson, USMC, *Assistant Marine Officer Instructor*

### **PURPOSE AND GOALS**

The Prairie View A&M University Naval ROTC Unit was established in March of 1968. The staff of the Naval Science Department consists of active duty Navy and Marine Corps personnel and civilian administrative assistants who are dedicated to producing officers of the highest quality for the Navy and Marine Corps.

Upon graduation, qualified Naval ROTC Midshipmen, Officer Candidates and Marines are commissioned as Ensigns in the United States Navy or Second Lieutenants in the United States Marine Corps. Depending on the community selected, midshipmen are obligated to serve a minimum of five years of active duty.

### **NROTC PROGRAMS**

#### **Four-Year Scholarship Program**

Naval ROTC Midshipmen join the unit as recipients of various scholarships four-year National Scholarship, Minority Served Institution Scholarship Reservation (formerly Historically Black College/University Scholarship), or Frederick C. Branch Scholarship. The goal of all students enrolled is to earn a Navy or Marine Corps commission. Scholarship NROTC students are selected annually through nationwide competitive examinations, interviews, and review of high school records. Those selected for scholarships are appointed Midshipmen U.S. Naval Reserve and receive benefits which include tuition, instructional fees, uniforms, book stipend (\$750 per year), and monthly stipend of \$250-\$400 for a maximum of 40 months (Current monthly stipend is \$250 for freshman, \$300 for sophomore, \$350 for juniors, and \$400 for seniors).

## Two-Year Scholarship Program

Men and women who are junior college transfers are eligible to participate in the NROTC program if they are physically qualified and selected for training during their sophomore year. Each student selected will receive six weeks of Navy-oriented instruction and drill in lieu of the normally required freshman and sophomore naval science courses. Training occurs during the summer between the sophomore and junior years at the Naval Science Institute (NSI). Successful completion of the NSI course qualifies these students for enrollment in junior-year NROTC courses and for appointment as NROTC scholarship Midshipmen.

## College Program

Students that do not meet the requirements for a four-year scholarship may voluntarily enter the NROTC Program and participate in all unit classes, laboratories, activities and events during their freshman and sophomore year. In order to continue in the program and receive a commission, these students must either be selected for a four-year scholarship or meet the requirements to be selected as to Advanced Standing prior to the start beginning of their junior year. Transfer to the scholarship program or Advanced Standing in the college program requires the student to meet Navy physical qualification standards and demonstrate leadership ability and high academic performance.

- Those selected for scholarship are appointed Midshipmen, United States Naval Reserve, and receive benefits during their remaining years of school which include tuition, instructional fees, uniforms, a book stipend (\$750 per year), and a monthly stipend of \$250-\$400 for a maximum of 40 months.
- tuition and fees.
- College program students receive uniforms and naval science textbooks. upon entering the advanced phase of Naval Science as juniors, receive a stipend of \$350 per month (\$400 per month as a senior) for a maximum of 20 months.

## NAVAL SCIENCE MINOR PROGRAM REQUIREMENTS

Any student attending Prairie View A&M University can minor in Naval Science by completing the following academic requirements:

Minor Field Requirements .....	18 SCH
NAVY 1013, 1023, and 2013.....	9 SCH
NAVY 3103 or 3023, 4013 or 4103, and 4023 .....	9 SCH

Note: Students must earn a minimum grade of a “C” in all classes taken in their major disciplines and a minimum grade of a “C” in all classes taken in their minor disciplines.

## COMMISSIONING PROGRAM REQUIREMENTS

In order to receive a commission in either the United States Navy or United States Marine Corps a student must be accepted into a four year scholarship, two-year scholarship, or into Advanced Standing in the College Program.

**Commissioning Academic Requirements**

Ensign, United States Navy

<b>Academic Requirements .....</b>	<b>38 SCH</b>
NAVY 1013, 1023, 2013, 2023, 3013, 3023, 4013, and 4023 .....	24 SCH
MATH 1124 and 2024, 2034, 2043, 4173 (Any two of these math courses).....	8 SCH
PHYS 2513 and 2523.....	6 SCH

Second Lieutenant, United States Marine Corps

<b>Academic Requirements.....</b>	<b>18 SCH</b>
NAVY 1013, 1023, 2013, 3103, 4023, and 4103 .....	18 SCH

**Note:** All Naval Science courses, for students pursuing a commission, include a mandatory two hour(0 SCH) Professional Development Leadership Laboratory.

**Commensurate Programs**

1. Naval Science students may select naval science courses as free electives or electives in their degree programs.
2. Naval Science students may substitute Introduction to Naval Science (NAVY 1013), Leadership and Management I (NAVY 2013), or Amphibious Warfare (NAVY 4103) for up to two semester hours of the physical education activity requirement in the general education program.
3. Navy 1023 (Sea Power) may be substituted for three of the University’s mandatory six history hours

**NOTE:**

The NROTC Scholarship is a four-year scholarship requiring students to be commissioned within eight semesters. An additional 24 to 38 hours is required beyond the student’s normal degree requirements. Naval Science students must plan accordingly. All Naval Science students must take at a minimum 15 SCH per semester; 12 SCH major requirements and 3 SCH for Naval Science Courses. Dependent on credit hour requirements of the individual’s major, Naval Science students may be required to complete 18 to 22 hours per semester in order to graduate on time.

## Naval Science Curriculum Sequence

### FRESHMAN YEAR

First Semester		Hours	Second Semester		Hours
NAVY 10131	Intro to Naval Science	3	NAVY 1023	Seapower & Maritime Affairs	3
<b>Total</b>		<b>3</b>	<b>Total</b>		<b>3</b>

### SOPHOMORE YEAR

First Semester		Hours	Second Semester		Hours
NAVY 2013	Leadership & MGMT	3	NAVY 2023	Navigation	3
MATH 1124	CALCULUS I	4	MATH 2024	CALCULUS II	4
<b>Total</b>		<b>7</b>	<b>Total</b>		<b>7</b>

### JUNIOR YEAR

First Semester		Hours	Second Semester		Hours
NAVY 4013	Weapons Systems	3	NAVY 3023	Naval Engineering	3
OR			PHYS 2523	University Physics II	3
NAVY3103	Evolution of Warfare	3			
PHYS 2513	University Physics I	3			
<b>Total</b>		<b>6</b>	<b>Total</b>		<b>6</b>

### SENIOR YEAR

First Semester		Hours	Second Semester		Hours
NAVY 3013	Naval Operations	3	NAVY4023	Leadership & Ethics	3
Or					
NAVY 4103	Amphibious Warfare	3			
(Marines)					
<b>Total</b>		<b>6</b>	<b>Total</b>		<b>3</b>
			<b>Total Hours</b>		<b>41</b>

**SPECIAL REQUIREMENTS**

Scholarship students must complete the following specified college courses taught by civilian faculty as delineated below. College Program students are encouraged to complete the courses in order to improve potential selection for a scholarship.

Title	Year Taken	Normally Required/Recommended	Minimum Semester Hours
Calculus (Differential and Integral) (two of the following courses): MATH 1124, 2024, 2034, 2043, 4173	Freshman-Sophomore	Required of all Navy Option Scholarship students by end of Sophomore year.	8 SCH
University Physics (Calculus-based): PHYS 2513 and 2523	Sophomore-Junior	Required of all Navy Option Scholarship students by end of Junior year.	6 SCH

1. All Navy drills, ceremonies, information briefings, seminars, and supplemental workshops scheduled during any semester are considered naval science course requirements. Students are required to participate in all unit activities scheduled.
2. HUPF 1011 and 1321(intermediate swimming) is recommended for all Naval Science Students. Swimming at the level of a third class swimmer is required prior to the first midshipman summer cruise.
3. Qualification as a Mate A and Skipper B in the unit’s small boat sail program.
4. Development Opportunities. Through the NROTC program, Midshipmen may become members of the Drill Team, Color Guard, and Navy and Marine Corps professional societies. Midshipmen are encouraged to participate in all areas of university life, athletic, student government, and university committees.



## ***Undergraduate Medical Academy***

### **ADMINISTRATIVE OFFICER**

Dennis E. Daniels, Director, *Public Health-Professor of Epidemiology*

Sheryl J. Jefferson, *Assistant Director of Chemistry*

### **FACULTY**

Brian J. Du, *Analytical Chemistry*

Max A. Fontus, *Physical Chemistry*

Kelly Hester, *Physiology – Renal System*

### **MISSION**

The mission of the Undergraduate Medical Academy (UMA) is consistent with the overall mission of Prairie View A&M University and the Texas A&M University System. Therefore, the Academy is dedicated to excellence in teaching, research, service, and professional development.

### **PURPOSE AND GOALS**

The purpose of the Prairie View A&M Undergraduate Medical Academy is to optimally prepare students for medical school. The goal of the Undergraduate Medical Academy (UMA) is to become a nationally recognized leader in pre-medical education. The UMA in partnership with the Texas A&M Health Science Center emphasizes the integration of leadership development, pre-medical science education, research and service learning.

### **ADMISSIONS CRITERIA**

#### **Honors Admission: High School**

1. Texas Scholar course of study
2. A minimum high school GPA of 3.5 on a 4.0 scale.
3. A minimum SAT score of 1500 or an ACT score of 25.
4. Passage of any state mandated examination used as a high school exit examination.
5. Application and acceptance to Prairie View A&M University
6. Personal statement
7. Interview

#### **Regular Admission**

1. Enrolled student of Prairie View A&M University
2. Major that requires completion of the prescribed core of basic sciences and Mathematics courses as required by U.S. medical schools for admission
3. Completion of at least one year of undergraduate studies with a minimum of 24 credit hours of course work overall (with at least 6 credit hours in biological or physical science college courses approved by the Academy)
4. Demonstrated interest in a medical career
5. Present highly competitive academic (minimum GPA of 3.25 on a 4.0 scale)

6. Demonstrated positive personal attributes
7. Three letters of recommendation and evaluation forms
8. Demonstrated community service experiences
9. Personal statement
10. Interview

## **SPECIAL INTEREST PROGRAMS**

The Joint Admissions to Medical School Program (JAMP) was created by Senate Bill 940 of the 77th Legislature. Some provisions of the state includes: Providing services to support and encourage highly qualified, economically disadvantaged Texas residents. And awarding undergraduate and medical school scholarships and stipends for summer research experiences. Contact the JAMP Faculty Director, Dr. Dennis E. Daniels at [dedaniels@pvamu.edu](mailto:dedaniels@pvamu.edu) for application information and materials.

Prairie View A&M University and the University of Texas Medical Branch at Galveston have established the Early Medical School Acceptance Program (EMSAP). This program is for students who have shown a genuine interest in the field of medicine, have a high school average of 90 or above and has a minimum SAT Reasoning Test score of 1200 on ACT score of 20. Contact Dr. Dennis E. Daniels at [dedaniels@pvamu.edu](mailto:dedaniels@pvamu.edu) for application information and materials.

Prairie View A&M University and the University of Texas Dental Branch at Houston (UTDB) have developed an early admission program. Those highly qualified students with an interest in dentistry and who, through personal experiences, have demonstrated the ability to overcome adverse or disadvantaged circumstances are considered for the opportunity to receive conditional early acceptance to the UTDB.

The Partnership for Primary Care (PPC) is designed to help a select group of highly qualified and dedicated young people pursue a medical degree. Texas residents from an area with an inadequate number of physicians who are considering a career in medicine, may be interested in this program. Contact Dr. Dennis E. Daniels at [dedaniels@pvamu.edu](mailto:dedaniels@pvamu.edu) for application information and materials.

## **College of Business**

### **ADMINISTRATIVE OFFICER**

Munir Quddus, *Dean*

### **VISION AND MISSION STATEMENTS**

Our vision is to empower students from diverse backgrounds to become productive and ethical business professionals who are among the best in the world.

We provide a diverse student body with an education that creates highly productive professionals who are ethical, entrepreneurial, and prepared to succeed in the global economy. The College achieves this through excellence in teaching, research and service, and engagement with the business community and other stakeholders. The student experience is distinguished by personal attention, teamwork, leadership training, and appreciation of the social responsibility of business.

### **ACCREDITATION**

All baccalaureate and the graduate degree programs (MBA and MSA) are accredited by the Association to Advance Collegiate Schools of Business (AACSB) International.

### **INSTRUCTIONAL ORGANIZATION**

The College offers the Bachelor of Business Administration (B.B.A.) degree program with five majors or areas of specialization: Accounting, Finance, Management Information Systems, Management, and Marketing.

### **PROGRAM LEARNING GOALS**

- Program Goal 1:* Mastery of Content. Graduates will demonstrate an ability to integrate and use knowledge from multiple business disciplines.
- Program Goal 2:* Teamwork. Graduates will demonstrate an ability to work well in a team environment.
- Program Goal 3:* Ethics. Graduates will have an ethical perspective.
- Program Goal 4:* Global Perspective. Graduates will have a global perspective.
- Program Goal 5:* Communications. Graduates will be effective communicators.

### **SPECIAL PROGRAMS**

#### **Double Majors**

Students enrolled in baccalaureate degree programs in the College of Business who elect to complete requirements of two majors will be awarded the B.B.A. degree with a double major. “See requirements for a second baccalaureate degree under the *Academic Information and Regulations* section.”

**Certification in Entrepreneurship**

This is a special program designed to enable non-Business majors to quickly gain fundamental functional knowledge and skills in business in order to become successful entrepreneurs.

**Minor Fields of Study**

All students are encouraged to complete a minor in a field other than their major to enhance the value of their baccalaureate degree. For students who are required to complete a minor in a field other than their major, or may like to consider adding a minor to their baccalaureate degree, the College of Business offers minors in the following areas:

<b>Accounting</b>	<b>International Business</b>
Business Administration (Management)	Personal Financial Planning
Economics	Management Information Systems (MIS)
Entrepreneurship	Marketing
Finance	

Students' major area requirements which include one or more of the courses required for their Business minor will be allowed to count a maximum of 6 SCH to fulfill both their major and Business minor area requirements. Any additional courses that are common between the major area of study and the minor area would have to be substituted by upper level courses in the minor area. The substituted courses must be approved by the Dean of the College of Business. Consult the Department Head offering the minor for details.

All non-business students are required to maintain a minimum cumulative GPA of 2.00 and must attain a minimum grade of "C" in all Business courses for graduation.

**Internships and Cooperative Education**

Opportunities for practical experience in the business world are available through the co-op and/or internship programs. Eligibility for these structured work experiences include, but are not limited to, sophomore or higher standing with a minimum grade point average of a 2.50.

**HONOR SOCIETIES, PROFESSIONAL AND SERVICE ORGANIZATIONS**

Business students are encouraged to participate in professional organizations and honor societies. These organizations provide opportunities for students to develop skills success, e.g., team work, planning, organizing, leadership, and communication. The following organizations are open to business majors. In addition, discipline-specific professional organizations are usually open to all business majors and are discussed in the department sections of the catalog.

*Beta Gamma Sigma* is an International honor society in business for AACSB-accredited schools. The top 10 percent of juniors and seniors and the top 20 percent of graduate students are selected and invited to join.

*The Dean's Student Advisory Council* is composed of the president and one selected representative from each College of Business professional organization. Other students may be invited by the Dean to join. The Council serves as a liaison between the Dean and business students.

*Phi Beta Lambda* is open to students majoring in all business disciplines. Students apply and are selected on the basis of character, leadership, and professional pride.

The *National Black MBA Association (NMBBAA) Collegiate Chapter* is dedicated to developing partnerships that result in the creation of intellectual and economic wealth. Collegiate chapters attend seminars and events that empower members and encourage the pursuit of higher education in business school programs.

*Students in Free Enterprise* is a nonprofit organization that gives students the tools to learn the free enterprise system in a real working situation. SIFE challenges students on more than 800 college campuses nationwide to take what they're learning in the classroom and use their knowledge to better their communities.

*Voices of Distinction*, the Prairie View A&M chapter of Toastmasters International housed in the College of Business. It offers students an opportunity to improve their public speaking skills.

## **COLLEGE ACADEMIC REQUIREMENTS**

### **Community/Junior College Transfers**

Community/Junior College students who plan to transfer to the College of Business are advised to pursue courses recommended for the freshman/sophomore years as outlined in this section. Upper division (3000/4000 level) courses taught in the College of Business should not be taken at a community/junior college. The College has formal agreements with several area community colleges for course transfer to ensure a seamless transition to a baccalaureate degree program.

## **ADMISSION TO THE COLLEGE OF BUSINESS**

First-time freshman who meet the University entrance requirements enter the College of Business as Pre-Business students. Transfer students from other Prairie View A&M University departments and colleges must be in good academic standing and have a cumulative grade point average (CGPA) of a 2.30 or higher to enter the College of Business as Pre-Business students.

### **Transitioning from Pre-Business to Business requires:**

1. Satisfactory completion of at least 45 semester hours from the courses listed in the recommended course sequence for the freshmen/sophomore years in their respective disciplines, including the nine admissions requirement courses listed below.
2. Earned cumulative grade point average of 2.30 in all credit course work.
3. Completion of the following courses with a grade of “C” or better.

ENGL 1123, ENGL 1133	MISY 1013
MATH 1113, MATH 1153	ECON 2113, ECON 2123
ACCT 2113	MGMT 1013

4. Approval of Department Head and Dean

### **Deadline for Application**

5. Earned cumulative grade point average (CGPA) of 2.30 in all credit course work.
6. Earned Admission Requirement Cumulative Grade Point Average (ARGPA) of 2.30 in the nine admissions requirement courses listed above; students must earn a grade of a “C” in the above-listed courses.
7. Pass the THEA with the following minimum scores: Reading (230), Writing (240), and Math (230). The minimum requirement for the THEA test does not apply if a student is THEA-exempt.
8. Satisfactory completion of the MGMT 2000: Professional Development for Business.
9. Satisfactory performance on the College of Business Quantitative Literacy (math) Assessment by the following deadlines: **May 31 - for fall full admission and acceptance to the business program. October 31 -for spring full admission and acceptance to the business program.**
10. Recommendation of the College of Business Professional Advisor.
11. Approval of the Department Head and Dean.

### **Students in Good Standing**

Students entering the College of Business after the fall 2010 semester must maintain a cumulative grade point average of 2.30 or higher to remain in good standing. Failure to maintain an CGPA of 2.30 or higher may result in a student being placed on probation. Pre-Business students may be dismissed from the College of Business if their cumulative grade point average (CGPA) drops below 2.00.

Pre-Business students may be restricted from taking any 3000-level or 4000-level College of Business courses.

All students (Pre-Business and Business majors) who have entered the College of Business must maintain a cumulative grade point average (CGPA) of 2.30 or higher in order to be in good standing in the academic program. Failure to maintain a CGPA of 2.30 or higher may result in students being placed on probation or dismissed from the College of Business.

**The CGPA minimum requirement is 2.30 to receive a Bachelor of Business Administration (BBA) from the College of Business.**

**Probation**

Student ARGPA's and CGPA's will be reviewed at the conclusion of each fall and spring semester after final grades have been posted. The ARGPA is comprised of the nine admission requirement courses: ENGL 1123, ENGL 1133, MATH 1113, MATH 1153, MISY 1013, MGMT 1013, ACCT 2113, ECON 2113, and ECON 2123.

A Pre-Business student whose ARGPA is below 2.30 at the end of the fall and/or spring semester may be placed on probation and a registration hold may be placed on student's accounts. The hold will not be removed until the student completes their probationary period obligations.

A Business student who has a CGPA below 2.30 may be placed on probation and a registration hold may be placed on the student's account. The hold will not be removed until the student completes their probationary period obligations.

If the ARGPA (for Pre-Business students) or CGPA (for Business majors) falls below a 2.30 at the conclusion of the fall or spring semester following a probationary period, the student may be dismissed from the College of Business.

**Probationary Period Obligations**

Pre-Business students may be subject to the following during the probationary period:

1. Students will have two consecutive semesters (not including the summer semester) to improve their ARGPA to a 2.30 or higher. In order to successfully improve their ARGPA, students may be advised to repeat some or all failed admission requirement courses.
2. Students may be restricted to enroll in a maximum of 15 hours (SCH).
3. If the CGPA or ARGPA of a 2.30 or higher is achieved during the two semesters following probation or at the conclusion of the probationary period, the probation will be lifted and the hold removed from the students' accounts.

Business majors may be subject to the following during the probationary period:

1. Students will have two consecutive semesters (not including the summer semester) to improve their CGPA to a 2.30 or higher. Students may be advised to repeat some or all failed College of Business courses.
2. Students may be restricted to enroll in a maximum of 15 SCH.
3. If the CGPA of 2.30 or higher is achieved during or at the conclusion of the probationary period, the probation will be lifted and the hold removed from the students' accounts.

### **Dismissal**

Students are only allowed one probationary period during their matriculation within the College of Business. A student will be dismissed from the College of Business if any of the following applies:

1. Following the conclusion of the probationary period, an ARGPA of 2.30 or higher is not achieved.
2. Following the conclusion of the probationary period, a CGPA of 2.30 or higher is not achieved.
3. The CGPA is below 2.30 at the conclusion of any semester (for all students).

Upon dismissal, a registration hold will be placed on the student's account. In order to get the hold removed, the student must change his/her major to a non-Business area. Dismissed students may not be eligible to receive a Bachelor of Business Administration (B.B.A.) degree from the College of Business.

If dismissed, a student will have the right to appeal to the Dean in writing within 30 days of receiving a Notice of Dismissal.

### **ACADEMIC STANDARDS AND PROGRESS**

Following admission to the College of Business, students will remain in good standing and be eligible to enroll in 3000/4000 level courses as long as they maintain a cumulative grade point average of a 2.30 or better.

Students must earn a grade of a "C" or better in all business courses presented for graduation except those courses used as unrestricted electives.

### **Transfer Credit**

Prairie View A&M University has formal agreements with several area community colleges for course transfer to ensure a smooth transition for students with an associate's degree to a baccalaureate degree program. The College of Business will accept credit for only freshman and sophomore level courses from the community colleges.

### **MINOR FIELDS OF STUDY**

The College offers minors in the following areas:

<b>Accounting</b>	<b>International Business</b>
Business Administration (Management)	Personal Financial Planning
Economics	Management Information Systems (MIS)
Entrepreneurship	Marketing
Finance	



The requirements for each minor area are listed under the respective departments.

Business students are encouraged to minor in a business field other than their major. For business students who would like to have a minor in a different business area, a maximum of 6 SCH from their major area may be counted towards the minor. Consult the department head for specific requirements.

For non-business students taking a business minor, a grade of “D” may be acceptable in one business course provided the student has a GPA of 2.0. For junior- and senior-level courses, the College accepts credit only from a regionally-accredited four-year college or higher in the minor area.

The Business Administration (Management) minor is not available to business majors.

## ***Department of Accounting, Finance and Management Information Systems***

### **ADMINISTRATIVE OFFICER**

M. Moosa Khan, Department Head, *Finance*

### **FACULTY**

Reginald Bell, *Business Communication*

Gin Chong, *Accounting*

Alfreda Dobiyanski, *Accounting*

Reginald Holloway, *Management Information Systems*

He (Henry) Huang, *Accounting*

Bu-Ryung (Brian) Lee, *Accounting*

Ahmed Mahfouz, *Management Information Systems*

Susan Minton, *Accounting*

Louis Ngamassi, *Management Information Systems*

Emmanuel Opara, *Management/Management Information Systems*

Daniel Perez, *Finance*

Shahedur Rahman, *Management Information Systems*

Thiag Alajan Ramakrishnan, *Management Information Systems*

Ada Till, *Accounting*

Vijay Vemuri, *Accounting*

William Vetter, *Business Law*

Yi Zhang, *Finance*

### **PURPOSE AND GOALS**

The mission of the Accounting major is to offer high-quality, comprehensive accounting education which prepares students for immediate employment in the private and public sectors as well as for graduate or professional education. Students are provided an accounting curriculum which offers general business education in a liberal arts setting that encourages logical, analytical and creative strategic thinking and ethical conduct that fosters positive competition to develop confident, global-minded individuals who possess the requisite knowledge and skills to become leaders in their organizations. The mission supports a learning environment based on open communication and interaction among faculty, students and employers and provides structured practical experience through student internships.

The Finance major is designed to prepare students for professional careers in the private and public sectors, and to enable them to pursue graduate studies in finance or related disciplines. It seeks to provide students with a comprehensive and contemporary education in financial concepts and practices with sufficient flexibility to respond to dynamic national and global environments. In addition, the program encourages the development of innovative skills among its graduates and focuses on ethical conduct and professionalism in the work environment.

The Management Information Systems (MIS) major is designed to prepare students to design, develop, operate, and manage computer software systems and computer-based management information systems. Program content is broad enough to enable students to integrate concepts and apply knowledge and tools of advanced information technology to practical applications in accounting, finance, and operations management. Graduates of the program are competent and capable of working with current and future information systems technology and knowledgeable of business computer languages.

The program is based on a broad liberal arts education, followed by upper-level study in computer-based information systems. In order to achieve the goal of developing students as confident and well-rounded, the program provides an intense learning environment based on student, faculty, and corporate interaction.

## **SPECIAL EMPHASIS OPTIONS**

### **Certified Public Accountant**

The Texas Public Accountancy Act of 1991 requires 150 hours of academic credits as a prerequisite to register and sit for the 1997 Uniform Certified Public Accountancy (CPA) Examination. Students desiring a career as a CPA should consider admission to the Master of Science in Accounting (MSA) or Master of Business Administration (MBA) program in order to be eligible for the CPA examination. For additional information on the MBA and MSA programs, consult the Graduate Catalog. Students are encouraged to complete 150 hours to become eligible to sit for the CPA exam. Completing a MS in Accounting is a good way to develop a career as a CPA accountant.

## **HONOR SOCIETIES AND STUDENT ORGANIZATIONS**

Students are encouraged to participate in clubs and honor societies in their respective disciplines. These organizations provide valuable experience and help develop leadership skills.

In addition to the honor societies, clubs, and service organizations listed in the College of Business section, accounting majors are eligible for membership in the *National Association of Black Accountants* (NABA). A national organization for accountants and accounting students, NABA encourages and helps students enter the accounting profession, promotes professional development in accounting, and provides assistance in developing accounting education for members of minority groups. Membership is open to students majoring in accounting and others who subscribe to the club mission.

*Association for Information Technology Professionals* (AITP) local chapter, an organization for information systems students, conducts seminars, tutorials, and field trips to promote individual and group exposure to advanced information technology theory, tools and methods. Membership is open to all majors.

Students may also participate in the *Prairie View Finance Association* (PVFA), an organization for finance students, which promotes the following goals:

1. Stimulation of the students' interests in the field of finance.
2. Achievement of excellence among students in the department.
3. Application of academic knowledge to practical situations.
4. Promotion of ethical principles, standards, financial literacy and professionalism emphasizes finance as practitioners in the industry.

**BACHELOR OF BUSINESS ADMINISTRATION (ACCOUNTING)  
DEGREE PROGRAM REQUIREMENTS**

**Core Curriculum..... 42 SCH**  
College of Business students must complete PSYC 1113 and MISY 1013 to satisfy the University core behavioral/social science and computing requirements respectively.

**General Education Supplement for Accounting Majors ..... 21 SCH**  
MATH 1153 and 2153 ..... 6 SCH  
ECON 2113, 2123, and an ECON Elective ..... 9 SCH  
MGMT 3013 ..... 3 SCH  
ACCT 3243..... 3 SCH

**College Requirements..... 33 SCH**  
ACCT 2113 and 2123 ..... 6 SCH  
BCOM 3303..... 3 SCH  
BLAW 2203..... 3 SCH  
FINA 3103 ..... 3 SCH  
MISY 2013 ..... 3 SCH  
MGMT 1013, 3103, 4303, 4333 ..... 12 SCH  
MRKT 3103..... 3 SCH

**Major Area Requirements ..... 30 SCH**  
ACCT 3213, 3223, 3313, 3333, 4213, 4223, 4313, BLAW 2213, and 6 semester hours of accounting electives at junior or senior level.

**Total Degree Requirements ..... 126 SCH**

**Minor in Accounting Requirements ..... 21 SCH**  
ACCT 2113, 2123, 3213, 3313, 4313, ACCT elective (3 SCH at the junior/senior level), and FINA 3103.

Business students will be allowed to count a maximum of 6 SCH from their major area courses towards the minor requirements. Any additional courses which are common between the major area of study and the minor area would have to be made up by additional courses in the minor area. Consult the department head for details.

## ACCOUNTING SUGGESTED COURSE SEQUENCE

FRESHMAN YEAR					
First Semester		Hours	Second Semester		Hours
ENGL 1123	Freshman Composition I*	3	ENGL 1133	Freshman Composition II*	3
MGMT 1013	Introduction to Business	3	MATH 1113	College Algebra*	3
POSC 1113	American Government I	3	MISY 1013	Computer Info. Systems	3
COMM 1003	Fundamentals of Speech Communication	3	POSC 1123	American Government II	3
	Natural Science	3		Natural Science	3
			MGMT 2000	Professional Development for Business	0
<b>Total</b>		<b>15</b>	<b>Total</b>		<b>15</b>
SOPHOMORE YEAR					
First Semester		Hours	Second Semester		Hours
ACCT 2113	Financial Accounting	3	ACCT 2123	Managerial Accounting	3
MISY 2013	Fundamentals of MIS	3	ECON 2123	Macroeconomics	3
ECON 2113	Microeconomics	3	BLAW 2203	Legal Environment of Business	3
HIST 1313	The U.S. to 1876	3	HIST 1323	The U.S. – 1876 to Present	3
MATH 1153	Finite Math*	3	MATH 2153	Calculus - Business	3
	Humanities/Visual or Perf. Arts	3			
<b>Total</b>		<b>18</b>	<b>Total</b>		<b>15</b>
JUNIOR YEAR					
First Semester		Hours	Second Semester		Hours
ACCT 3213	Intermediate Accounting I	3	ACCT 3223	Intermediate Acct. II	3
ACCT 3313	Cost Accounting	3	ACCT 3243	Ethics for Accountants	3
ACCT 3333	Federal Income Tax I	3	BLAW 2213	Business Law	3
MGMT 3013	Business Statistics	3	FINA 3103	Principles of Finance	3
MGMT 3103	Principles of Management	3	BCOM 3303	Business Communication	3
			MRKT 3103	Principles of Marketing	3
<b>Total</b>		<b>18</b>	<b>Total</b>		<b>15</b>
SENIOR YEAR					
First Semester		Hours	Second Semester		Hours
ACCT 4313	Accounting Information Systems	3	ACCT 4213	Advanced Accounting	3
ACCT 4223	Auditing	3	ACCT	Accounting Elective+	3
ACCT	Accounting Elective+	3	ECON	Economics Elective+	3
MGMT 4333	Production & Op. Management	3	MGMT 4303	Strategic Management and Policy	3
	Visual/Performing Arts	3			
<b>Total</b>		<b>15</b>	<b>Total</b>		<b>12</b>

\*A grade of “C” or higher is required in these courses. Students must also earn a grade of “C” or higher in all business courses presented for graduation. Students must earn a “C” or higher in courses used as unrestricted electives.

+Elective must be at a junior/senior level.

**4+1 Program in Accounting**

The 4+1 program is designed to help accounting students to seamlessly move into the Master’s program in Accounting (MSA) upon completion of the Bachelor of Business Administration (BBA) program in accounting. Besides enhancement of knowledge in the accounting discipline, the program will help students prepare for the CPA exam. Students in the program may be eligible for the Fifth Year Accounting Student Scholarship.

**Admission**

Students would apply for admission into the 4+1 program in the last semester of the BBA program. Admission would be based on consideration of multiple factors, such as the grade point average (GPA) of at least 2.75 in the major area, letters of recommendation from Accounting faculty, and an essay (500 words minimum) explaining their interest in the program.

Even though students cannot apply for admission into the 4+1 program earlier than the last semester of the BBA program, it is strongly advised that interested students contact the Department Head in their junior year regarding interest in the program. A suggested degree plan is provided below.

**Completion of Two Degrees**

Upon successful completion of the 4+1 program, students would be awarded the BBA in Accounting and MS in Accounting degrees.

**Program Requirements**

Since the 4+1 program essentially combines the BBA in Accounting and the MS in Accounting programs, the requirements for the combined program would be the same as those of the two separate programs together. These requirements are stated below.

**For the BBA in accounting degree, requirements are:**

University Core Curriculum .....	42 SCH
General Education Supplement for Accounting Majors .....	21 SCH
College of Business Requirements .....	33 SCH
Major Area Requirements .....	30 SCH

**Total BBA in Accounting Degree Requirements: ..... 126 SCH**

**For the MS in Accounting (MSA) degree program, requirements are:**

Required Courses.....	21 SCH
Elective Courses .....	9 SCH

**Total MSA Degree Requirements..... 30 SCH**

**Total 4+1 Program Requirements:..... 156 SCH**

A suggested degree plan for the 4+1 program is given below. Freshmen and sophomore level students follow the degree plan for the Bachelor of Business Administration program in Accounting provided.

**Junior Year - First Semester**

ACCT	3213	Intermediate Accounting I	3 SCH	
ACCT	3313	Cost Accounting	3 SCH	
ACCT	3243	Ethics for Accountants	3 SCH	
ACCT	3333	Federal Income Tax I	3 SCH	
MGMT	3013	Business Statistics	3 SCH	
MGMT	3103	Principles of Management	3 SCH	
MISY	2013	Fundamentals of MIS	3 SCH	
<b>Total</b>			<b>18 SCH</b>	

**Junior Year - Second Semester**

ACCT	3223	Intermediate Accounting II	3 SCH	
BLAW	2213	Business Law	3 SCH	
FINA	3103	Principles of Finance	3 SCH	
BCOM	3303	Business Communication	3 SCH	
MRKT	3103	Principles of Marketing	3 SCH	
ECON		Elective (junior/senior level)	3 SCH	
<b>Total</b>			<b>18 SCH</b>	

**Senior Year - First Semester**

ACCT	4213	Advanced Accounting	3 SCH	
ACCT	4223	Auditing	3 SCH	
ACCT	4313	Accounting Information Systems	3 SCH	
ACCT		Elective (junior/senior level)	3 SCH	
MGMT	4333	Production & Op. Management	3 SCH	
		Visual/Performing Arts	3 SCH	
<b>Total</b>			<b>18 SCH</b>	

**Senior Year - Second Semester**

ACCT		Elective (junior/senior level)	3 SCH	
MGMT	4303	Strategic Management and Policy	3 SCH	
ACCT	5133	Accounting for Managerial Decision-making	3 SCH	
BCOM	5203	Management Communication	3 SCH	
<b>Total</b>			<b>12 SCH</b>	

**Graduate - Summer**

ACCT	5143	Accounting Theory	3 SCH	
		MSA Elective	3 SCH	
<b>Total</b>			<b>6 SCH</b>	

**Graduate - First Semester**

ACCT	5113	Advanced Auditing	3 SCH	
ACCT	5123	Accounting Information Systems & Controls	3 SCH	
		MSA Elective	3 SCH	
		<b>Total</b>		<b>9 SCH</b>

**Graduate - Second Semester**

ACCT	5163	Law & Ethics for Accountants	3 SCH	
ACCT	5153	Seminar in Tax Consulting, Planning & Research	3 SCH	
		MSA Elective	3 SCH	
		<b>Total</b>		<b>9 SCH</b>

**BACHELOR OF BUSINESS ADMINISTRATION (FINANCE)  
DEGREE PROGRAM REQUIREMENTS**

**Core Curriculum..... 42 SCH**  
College of Business students must complete PSYC 1113 and MISY 1013 to satisfy the University core behavioral/social science and computing requirements respectively.

**General Education Supplement for Finance Majors ..... 21 SCH**  
MATH 1153 and 2153 ..... 6 SCH  
ECON 2113, 2123, and an ECON Elective ..... 9 SCH  
MGMT 3013 ..... 3 SCH  
MGMT 2203 ..... 3 SCH

**General Education Total (core curriculum plus general education  
General Education Total (core curriculum plus general education  
supplement) ..... 63 SCH**

**College Requirements ..... 33 SCH**  
ACCT 2113 and 2123 ..... 6 SCH  
BCOM 3303..... 3 SCH  
BLAW 2203..... 3 SCH  
BLAW 3303..... 3 SCH  
FINA 3103 ..... 3 SCH  
MISY 2013 ..... 3 SCH  
MGMT 1013, 3103, 4303, and 4333 ..... 12 SCH  
MRKT 3103..... 3 SCH

**Major Area Requirements ..... 24 SCH**  
FINA 3333, 3383, 4213, 4313 and 6 semester hours of finance electives at the junior or senior level. Also ACCT 3213 and ECON 4213/4223.

**Business Elective ..... 3 SCH**

**Total Degree Requirements ..... 123 SCH**



**Minor in Finance Requirements ..... 21 SCH**  
 ACCT 2113, 2123, FINA 3103, 3333, 3383, 4213 and 3 semester hours of finance elective at the junior or senior level.

**Minor in Personal Financial Planning Requirements ..... 18 SCH**  
 FINA 3013, 3023, 3333, 4113, 4123, and ACCT 3333.

Business students will be allowed to count a maximum of 6 SCH from their major area courses towards the minor requirements. Any additional courses which are common between the major area of study and the minor area would have to be made up by additional courses in the minor area. Consult the department head for details.

### FINANCE SUGGESTED COURSE SEQUENCE

FRESHMAN YEAR					
First Semester		Hours	Second Semester		Hours
ENGL 1123	Freshman Composition I*	3	ENGL 1133	Freshman Composition II*	3
MGMT 1013	Introduction to Business	3	MATH 1113	College Algebra*	3
POSC 1113	American Government I	3	MISY 1013	Computer Info. Systems	3
COMM 1003	Fundamentals of Speech Communication	3	POSC 1123	American Government II	3
	Natural Science	3		Natural Science	3
			MGMT 2000	Professional Development for Business	0
<b>Total</b>		<b>15</b>	<b>Total</b>		<b>15</b>
SOPHOMORE YEAR					
First Semester		Hours	Second Semester		Hours
ACCT 2113	Financial Accounting	3	ACCT 2123	Managerial Accounting	3
ECON 2113	Microeconomics	3	ECON 2123	Macroeconomics	3
HIST 1313	The U.S. to 1876	3	BLAW 2203	Legal Environment	3
MATH 1153	Finite Math*	3	HIST 1323	The U.S. – 1876 to Present	3
MGMT 2203	Leadership & Ethics	3	MATH 2153	Calculus – Business	3
	Humanities/ Visual or Perf. Arts	3			
<b>Total</b>		<b>18</b>	<b>Total</b>		<b>15</b>

Department of Accounting, Finance and Management Information Systems  
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JUNIOR YEAR						
First Semester		Hours	Second Semester			Hours
ACCT 3213	Intermediate Accounting I	3	FINA 3383	Financial Markets & Inst.		3
ECON	Economics Elective+	3	FINA	Finance Elective+		3
FINA 3103	Principles of Finance	3	MGMT 3013	Business Statistics		3
BCOM 3303	Business Communication	3	MGMT 3103	Principles of Management		3
	Visual/Performing Arts	3	MRKT 3103	Principles of Marketing		3
Total		15	Total			15
SENIOR YEAR						
First Semester		Hours	Second Semester			Hours
FINA 3333	Investment Analysis	3	ECON 4213/4223	Inter. Micro/Macroecon Analysis		3
FINA 4213	Managerial Finance	3	FINA 4313	Investment Management		3
FINA	Finance Elective+	3	MGMT 4303	Strategic Management & Policy		3
MGMT 4333	Production & Oper. Management	3	PSYC 1113	General Psychology		3
	Business Elective	3	MISY 2013	Fundamentals of MIS		3
Total		15	Total			15
Total Hours						123

\*A grade of “C” or higher is required in these courses. Also, in all business courses, Business majors must earn a grade of “C” or higher in all business courses presented for graduation. Students must earn a “C” or higher in courses used as unrestricted electives.  
+Elective must be at a junior/senior level.

BACHELOR OF BUSINESS ADMINISTRATION (MIS)  
DEGREE PROGRAM REQUIREMENTS

Core Curriculum.....	42 SCH
College of Business students must complete PSYC 1113 and MISY 1013 to satisfy the University core behavioral/social science and computing requirements respectively.	
General Education Supplement for Management Information Systems Majors .....	21 SCH
MATH 1153 and 2153 .....	6 SCH
ECON 2113, 2123, and an ECON Elective .....	9 SCH
MGMT 3013 .....	3 SCH
MGMT 2203 .....	3 SCH
General Education Total (core curriculum plus general education supplement) .....	63 SCH
College Requirements.....	33 SCH
ACCT 2113 and 2123 .....	6 SCH
BLAW 2203.....	3 SCH
BLAW 3303.....	3SCH
FINA3103 .....	3 SCH

MISY 2013 .....	3 SCH
MGMT 1013, 3103, 4303, and 4333 .....	12 SCH
MRKT 3103.....	3 SCH

**Major Area Requirements ..... 24 SCH**  
MISY 2153, 3323, 3413, 3423, 3433, 4523, and 6 semester hours of Management Information Systems electives at the junior or senior level.

**Business Elective ..... 3 SCH**

**Total Degree Requirements ..... 123 SCH**

**Minor in Management Information Systems Requirements..... 18 SCH**  
MISY 2013, 2153, 3323, 3413, 3423, and 3 hours of upper level MIS elective.

Business students will be allowed to count a maximum of 6 SCH from their major area courses towards the minor requirements. Any additional courses which are common between the major area of study and the minor area would have to be made up by additional courses in the minor area. Consult the department head for details.

### MANAGEMENT INFORMATION SYSTEMS (MIS) SUGGESTED COURSE SEQUENCE

FRESHMAN YEAR					
First Semester		Hours	Second Semester		Hours
ENGL 1123	Freshman Composition I*	3	ENGL 1133	Freshman Composition II*	3
MGMT 1013	Introduction to Business	3	MATH 1113	College Algebra*	3
POSC 1113	American Government I	3	MISY 1013	Computer Info. Systems	3
COMM 1003	Fundamentals of Speech Communication	3	POSC 1123	American Government II	3
	Natural Science	3		Natural Science	3
			MGMT 2000	Professional Development for Business	0
<b>Total</b>		<b>15</b>	<b>Total</b>		<b>15</b>
SOPHOMORE YEAR					
First Semester		Hours	Second Semester		Hours
ACCT 2113	Financial Accounting	3	ACCT 2123	Managerial Accounting	3
ECON 2113	Microeconomics	3	ECON 2123	Macroeconomics	3
HIST 1313	The U.S. to 1876	3	BLAW 2203	Legal Environment of Bus.	3
MATH 1153	Finite Math*	3	HIST 1323	The U.S. – 1876 to Present	3
MISY 2013	Fundamentals of MIS	3	MISY 2153	VB.Net Applications in Business	3
	Visual/Performing Arts	3			
<b>Total</b>		<b>18</b>	<b>Total</b>		<b>15</b>

*Department of Accounting, Finance and Management Information Systems  
Programs and Degree Plans*

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JUNIOR YEAR					
First Semester		Hours	Second Semester		Hours
MATH 2153	Calculus – Business	3	FINA 3103	Principles of Finance	3
MISY 3323	Data Communication	3	BCOM 3303	Business Communication	3
MISY 3413	Business Database Applications	3	MISY 3423	Info. System. Anal. & Design	3
MGMT 3013	Business Statistics	3	MISY 3433	Business App. of JAVA Prog.	3
MGMT 3103	Principles of Management	3	MRKT 3103	Principles of Marketing	3
Total		15	Total		15
SENIOR YEAR					
First Semester		Hours	Second Semester		Hours
ECON	Economics Elective+	3	MGMT 4303	Strategic Mgmt. & Policy	3
MGMT 4333	Production & Oper. Management	3	MISY	MIS Elective+	3
MISY 4523	Strategic Management IT	3	MGMT 2203	Leadership and Ethics	3
MISY	MIS Elective+	3	PSYC 1113	General Psychology	3
	Humanities/Visual or Perf. Arts	3		Business Elective	3
Total		15	Total		15

\*A grade of “C” or higher is required in these courses. Also, in all business courses, Business majors must earn a grade of “C” or higher in all business courses presented for graduation. Students must earn a “C” or higher in courses used as unrestricted electives.

+Elective must be at a junior/senior level.

## ***Department of Management and Marketing***

### **ADMINISTRATIVE OFFICER**

Sudhir Tandon, *Interim Department Head*

### **FACULTY**

Arshad Alam, *Management*

Rick Baldwin, *Management*

Wayne Ballentine, *Management*

Sukumar Debnath, *Management*

John Dyck, *Management*

Qiang Fei, *Marketing*

Kishwar Joonas, *Marketing*

Daniel Kennebrew, *Management*

Sonja Langley, *Economics*

Lawrence McNeil, *Economics*

Rahim Quazi, *Economics*

Munir Quddus, *Economics*

Mostafa Soliman, *Economics*

Jermaine Vesey, *Management*

Michael Williams, *Economics*

### **PURPOSE AND GOALS**

Preparing managers for employment in organizations requires a liberal education that emphasizes and promotes an understanding of diverse economic, social, political, cultural and environmental perspectives. The major emphasis in the management and marketing curriculum are on problem identification, analysis and solution, decision making, business ethics, communication, team dynamics and leadership, as well as understanding and integrating other functional areas of business operations. Attention is given to the dynamic global business environment and to the immediate utilization of business skills.

Specifically, the objectives of the management program are: (1) to educate students for professional careers in management of both small and large businesses as well as provide them with the necessary background to pursue graduate or professional education; (2) to engage in research that will produce new knowledge and/or apply existing knowledge that will enhance the learning process; and (3) to contribute to the professional activities of the management community through service and participation in business organizations.

The mission objectives of the marketing program are: (1) to provide future marketing managers who can effectively plan and execute the creation, communication, and delivery of value to their customers and direct their organizations to maintain mutually satisfying relationships with their stake holders, (2) to develop in students the ability to

analyze the various marketing functions, recognize their integrative nature and utilize these skills to strategic decision-making, and (3) to prepare students to be ethical, professional, and team-oriented business leaders in profit and not-for-profit organizations, as well as providing them with the necessary foundation to pursue graduate or professional education.

The marketing program provides a high-quality marketing education at the baccalaureate degree level. The program offers a comprehensive survey of the fundamental principles, theories, and contemporary practices of marketing professionals in today's global environment. Students learn the necessary skills to effectively plan and execute the conception, pricing, promotion and distribution of goods and services to satisfy the needs of customers, the organization and society. While the core of the program emphasizes a balanced exposure to all aspects of marketing, opportunities are offered for more in-depth study of specific functional areas of marketing. The marketing faculty is committed to preparing students to be ethical, professional and team-oriented business leaders in profit and nonprofit organizations, as well as providing them with the necessary background to pursue graduate or professional education.

Courses in economics are offered to provide students with the basic knowledge of economics relevant to the business environment. The course content combines the fundamental skills of the subject matter with the analytical and quantitative tools needed to function effectively in making rational business decisions. The courses offered recognize the changing structure of national and global economies and prepare students to analyze economic and business problems from a broad perspective. The course content also encourages effective communication skills and ethical standards expected of business professionals in the field.

## **PROFESSIONAL AND SERVICE ORGANIZATIONS**

In addition to the professional and service organizations listed in the College section, management and marketing majors are eligible for membership in the American Marketing Association (AMA) and professional organizations sponsored by other College departments. Student chapters of AMA, the international society for marketing professionals, participate in national, regional, and local marketing activities.

## **MINORS OFFERED**

**Business Administration (available to non-business majors only) ..... (18 SCH)**  
ACCT 2113, 2123, ECON 2113, 2123 and two of the following: MGMT 3103, MKRT 3103, or FINA 3103

Students with major requirements which include one or more of the above listed courses must substitute other business courses for the course(s) included in their major requirements. The Dean of the College of Business must approve the substitute courses. This minor is an attractive option, especially for students in Engineering, Nursing, and Education. A minimum GPA of a 2.0 in these courses is required for graduation; the student can have only one "D" in these courses.

**Economics ..... (18 SCH)**

ECON 2113, 2123, 4213, 4223 and 6 SCH of economics electives

**International Business ..... (21 SCH)**

ECON 4343, FINA 4353, MGMT 4413, MRKT 4353, MGMT 4393, Foreign Language I, and Foreign Language II

**Marketing ..... (18 SCH)**

ECON 2113, MRKT 3103, 3333, 4393, and 6 SCH of Marketing electives.

Business students will be allowed to count a maximum of 6 SCH from their major area coursework towards fulfilling the minor requirements. Any additional courses which are common between the major area of study and the minor area would have to be made up by upper level courses in the minor area. Consult the department head for details.

**Entrepreneurship ..... 18 SCH**

Non-Business Majors

MGMT 1013, MGMT 2013, and MGMT 3333, ENTR 4043, and 6 SCH of Entrepreneurship Electives\*

Business Majors

MGMT 1013, MGMT 3333, ENTR 4043 and 9 SCH of Entrepreneurship Electives\*

\*Entrepreneurship Electives currently available include ENTR 3013, ENTR 3023, ENTR 3033 and ENTR 3093

**Certification in Entrepreneurship ..... (9 SCH)**

MGMT 1013, MGMT 2013, and MGMT 3333

Students with major requirements which include one or more of the courses listed as required for their minor will be allowed to count a maximum of 6 SCH to fulfill both their major and minor area requirements. Any additional courses that are common between the major area of study and the minor area would have to be substituted by upper-level courses in the minor area. The substituted courses must be approved by the Dean of the College of Business. Consult the Department Head offering the minor for details.

All non-Business students are required to maintain a minimum cumulative GPA of a 2.0 and must attain a minimum grade of a “C” in all Business courses for graduation.

BACHELOR OF BUSINESS ADMINISTRATION IN MANAGEMENT  
DEGREE PROGRAM REQUIREMENTS

**General Education/Core Curriculum ..... 42 SCH**  
College of Business students must complete PSYC 1113 and MISY 1013 to satisfy the University core behavioral/social science and computing requirement.

**General Education Supplement for Management Majors ..... 21 SCH**  
MATH 1153 and 2153 ..... 6 SCH  
ECON 2113, 2123, and an ECON Elective ..... 9 SCH  
MGMT 3013 ..... 3 SCH  
MGMT 2203 ..... 3 SCH

**General Education Total ..... 63 SCH**

**College Requirements ..... 33 SCH**  
ACCT 2113, and 2123 ..... 6 SCH  
MISY 2013 ..... 3 SCH  
BLAW 2203 ..... 3 SCH  
BCOM 3303 ..... 3 SCH  
FINA 3103 ..... 3 SCH  
MGMT 1013, 3103, 4303, and 4333 ..... 12 SCH  
MRKT 3103 ..... 3 SCH

**Major Area Requirements ..... 27 SCH**  
MGMT 3023, 3113, 3343, 3353, and 9 SCH of management electives. MRKT 3313, 4373, 4413, 4493 or 4423, ECON 4303, ECON 4343, and FINA 3383 also serve as electives); 6 SCH of unrestricted electives.

**Total Degree Requirements ..... 123 SCH**

MANAGEMENT SUGGESTED COURSE SEQUENCE

FRESHMAN YEAR					
First Semester		Hours	Second Semester		Hours
ENGL 1123	Freshman Composition I*	3	ENGL 1133	Freshman Composition II*	3
MGMT 1013	Introduction to Business	3	MATH 1113	College Algebra*	3
POSC 1113	American Government I	3	MISY 1013	Computer Info. Systems	3
COMM 1003	Fundamentals of Speech Communication	3	POSC 1123	American Government II	3
	Natural Science	3		Natural Science	3
			MGMT 2000	Professional Development for Business	0
Total		15	Total		15



## *Management and Marketing Programs and Degree Plans*

<b>SOPHOMORE YEAR</b>					
<b>First Semester</b>		<b>Hours</b>	<b>Second Semester</b>		<b>Hours</b>
ACCT 2113	Financial Accounting	3	ACCT 2123	Managerial Accounting	3
ECON 2113	Microeconomics	3	ECON 2123	Macroeconomics	3
HIST 1313	The U.S. to 1876	3	HIST 1323	The U.S. – 1876 to Present	3
MATH 1153	Finite Math*	3	PSYC 1113	General Psychology	3
MGMT 2203	Leadership and Ethics	3	MATH 2153	Calculus - Business	3
	Humanities	3	MISY 2013	Fundamentals of MIS	3
	Visual & Performing Arts				
<b>Total</b>		<b>18</b>	<b>Total</b>		<b>18</b>
<b>JUNIOR YEAR</b>					
<b>First Semester</b>		<b>Hours</b>	<b>Second Semester</b>		<b>Hours</b>
BLAW 2203	Legal Environment of Business	3	BCOM 3303	Business Communication	3
FINA 3103	Principles of Finance	3	MRKT 3103	Principles of Marketing	3
MGMT 3103	Principles of Management	3	MGMT 3023	Quantitative Methods	3
MGMT 3013	Business Statistics	3	ECON	Elective+	3
	Visual and Performing Arts	3	MGMT	Elective+	3
<b>Total</b>		<b>15</b>	<b>Total</b>		<b>15</b>
<b>SENIOR YEAR</b>					
<b>First Semester</b>		<b>Hours</b>	<b>Second Semester</b>		<b>Hours</b>
MGMT 3113	Introduction to Organizational Behavior	3	MGMT 3153	Human Resource Management	3
MGMT 4333	Production Management	3	MGMT 4303	Strategic Management and Policy	3
MGMT 3343	Project Management	3	MGMT	Elective+	3
MGMT	Elective+	3		Unrestricted Electives	3
	Unrestricted Elective	3			
<b>Total</b>		<b>15</b>	<b>Total</b>		<b>12</b>
<b>Total Hours</b>					<b>123</b>

\*A grade of “C” or higher is required in these courses. Business majors must earn a grade of “C” or higher in all business courses. Students must earn a passing grade “C” or higher in courses used as unrestricted elective.

\*+Management electives must be at the junior/senior level.

BACHELOR OF BUSINESS ADMINISTRATION (MARKETING)  
DEGREE PROGRAM REQUIREMENTS

General Education/Core Curriculum .....	42 SCH
College of Business students must complete PSYC 1113 and MISY 1013 to satisfy the University core behavioral/social science and computing requirement.	
General Education Supplement for Marketing Majors .....	21 SCH
MATH 1153, and 2153 .....	6 SCH
ECON 2113, 2123, and an ECON Elective .....	9 SCH
MGMT 3013 .....	3 SCH
MGMT 2203 .....	3 SCH
General Education Total .....	63 SCH
College Requirements .....	33 SCH
ACCT 2113, and 2123 .....	6 SCH
BCOM 3303 .....	3 SCH
BLAW 2203 .....	3 SCH
FINA 3103 .....	3 SCH
MISY 2013 .....	3 SCH
MGMT 1013, 3103, 4303, and 4333 .....	12 SCH
MRKT 3103 .....	3 SCH
Major Area Requirements .....	27 SCH
MRKT 3333, 4343, 4393, 4413, 4493 and 9 SCH of Marketing electives. MGMT 3333, 3343, 4383, and 4413 also serve as electives; 3 SCH of unrestricted elective.	
Total Degree Requirements .....	123 SCH

MARKETING SUGGESTED COURSE SEQUENCE

FRESHMAN YEAR							
First Semester			Hours	Second Semester			Hours
ENGL 1123	Freshman	Composition I*	3	ENGL 1133	Freshman	Composition II*	3
MGMT 1013	Introduction to Business		3	MATH 1113	College Algebra*		3
POSC 1113	American Government I		3	MISY 1013	Management Info. Systems		3
COMM 1003	Fundamentals of Speech Communication		3	POSC 1123	American Government II		3
	Natural Science		3		Natural Science		3
				MGMT 2000	Professional Development for Business		0
Total			15	Total			15

## *Management and Marketing Programs and Degree Plans*

### SOPHOMORE YEAR

First Semester		Hours	Second Semester		Hours
ACCT 2113	Financial Accounting	3	ACCT 2123	Managerial Accounting	3
ECON 2113	Microeconomics	3	ECON 2123	Macroeconomics	3
HIST 1313	The U.S. to 1876	3	HIST 1323	The U.S. – 1876 to Present	3
MATH 1153	Finite Math*	3	MATH 2153	Calculus - Business	3
MGMT 2203	Leadership & Ethics	3	PSYC 1113	General Psychology	3
	Humanities	3	MISY 2013	Fundamentals of MIS	3
<b>Total</b>		<b>18</b>	<b>Total</b>		<b>18</b>

### JUNIOR YEAR

First Semester		Hours	Second Semester		Hours
BLAW 2203	Legal Environment of Business	3	FINA 3103	Principles of Finance	3
BCOM 3303	Business Communication	3	MGMT 3013	Business Statistics	3
MRKT 3103	Principles of Marketing	3	MGMT 3103	Principles of Management	3
ECON	ECON Elective+	3	MRKT	Elective+	3
	Visual and Performing Arts	3	MRKT 3333	Consumer Behavior	3
<b>Total</b>		<b>15</b>	<b>Total</b>		<b>15</b>

### SENIOR YEAR

First Semester		Hours	Second Semester		Hours
MGMT 4333	Production Management	3	MGMT 4303	Strategic Management and Policy	3
MRKT 4343	Marketing Research	3	MRKT 4413	Distribution Management	3
MRKT 4393	Marketing Communications	3	MRKT 4493	Marketing Strategy and Analysis	3
MRKT	Elective+	3	MRKT	Elective+	3
	Unrestricted Elective	3			
<b>Total</b>		<b>15</b>	<b>Total</b>		<b>12</b>
<b>Total Hours</b>					<b>123</b>

Business majors must earn a grade of “C or better” in every business course (except if taken as an unrestricted elective)

\*A grade of “C” or higher is required in these courses. Business majors must earn a grade of “C” or higher in all business courses. Students must earn a passing grade “C” or higher in courses used as unrestricted elective.

+Electives\*+Marketing electives must be at the junior/senior level.

## **Whitlowe R. Green College of Education**

### **ADMINISTRATIVE OFFICERS**

Lucian Yates, III, *Dean*

Terence Hicks, *Associate Dean*

Jerelyn Mosley Jones, *Administrative Assistant III*

Courtney Edwards, *Administrative Assistant II*

### **ADMINISTRATIVE STAFF**

William Ross, *Interim Head, Department of Educational Leadership and Counseling*

William H. Parker, *Interim Head, Department of Curriculum and Instruction*

Vacant, *Director of Teacher Certification*

Patricia A. Smith, *Interim Director of Student Teaching and Field Experiences*

Albert, Johnson, Jr., *Interim Department Head, Health and Human Performance*

### **PURPOSE AND GOALS**

The undergraduate teacher education programs in the College of Education prepare candidates for teaching and related positions in public and private schools as well as in other institutional or organizational settings that promote the educational development and well being of culturally diverse children and youth.

Teacher education programs lead to EC-6, 4-8, 8-12 or all-level EC-12 standard teaching certificates and endorsements.

### **ACCREDITATION**

All teacher education programs offered by the College of Education are fully accredited by the Texas State Board for Educator Certification (SBEC) and the National Council for Accreditation of Teacher Education (NCATE).

### **SCHOLARSHIP SUPPORT**

The Prairie View A&M University National Alumni Association Teacher Education Scholarship Endowment Fund is available to students actively pursuing a course of study leading to teacher certification at any level in all disciplines with approved teacher education programs. The number of scholarships varies from year to year depending on the earnings available from the endowment fund.

The scholarships are awarded on a competitive basis. Selection is based on both need and merit. Eligible applicants must have a minimum grade point average of 2.5 at the high school level and maintain this grade point average while in college to be continued as a

scholarship student. Entering freshmen must also be in the top 25% of their high school graduating class.

The Rebecca E. Wright scholarship is a merit based scholarship available to undergraduate students majoring in education. Eligible applicants must have completed 60 or more credit hours, with a minimum grade point average of 3.0. Applicants must be a Texas resident, and actively involved in the community or campus organizations.

The Texas DAR Endowed Early Childhood Education Scholarship is funded by an endowment sponsored by the Daughter's of the American Revolution. One scholarship will be awarded annually ranging to a teacher education student working toward Early Childhood Education certification.

## **INSTRUCTIONAL ORGANIZATION**

### **Departments**

### **Degrees Offered**

*Curriculum and Instruction*

B.S. in Interdisciplinary Studies

*Health and Human Performance*

B.S. in Health

B.S. in Human Performance

## **COLLEGE ACADEMIC REQUIREMENTS**

### **Admission to Teacher Education**

Students are eligible for admission to teacher education and to enroll in professional education courses after the following requirements have been met:

1. Completion of all core curriculum requirements with a minimum overall 2.50 grade point average with a grade of "C" or higher in English and Mathematics.
2. Achievement of a satisfactory score on the Texas Higher Education Assessment (THEA). The required minimum score on the Reading component of THEA is 230. A copy of THEA scores must be submitted with the application.
3. Recommendation for Admission to Teacher Education forms from three instructors under whom a minimum of one course has been taken.
4. Transcripts of all completed courses.

Application forms may be obtained from the Department of Curriculum and Instruction or through the PVAMU webpage. The Committee for Admission to Teacher Education reviews all applications once per semester. Upon approval (or disapproval) by the Committee, the Chair of the Committee notifies students by letter.

### **Admission to Student Teaching**

Students eligibility for admission to student teaching at Prairie View A&M University will be ascertained upon adhering to the following prerequisites.

Candidates are eligible for admission to student teaching after the following requirements have been met: with a minimum 2.50 grade point average. Only grades of “C” or above will be accepted.

1. Admission to teacher education.
2. Completion of the respective, EC-6, EC-12, 4-8, or 8-12 major requirements with a minimum 2.50 grade point average. Only grades of a “C” or above will be accepted.
3. Completion of the professional development requirements with a minimum 2.50 grade point average. Only grades of a “C” or above will be accepted.
4. Pass both the Representative PPR and Representative Content Examinations with a minimum pass rate of 90%.
5. A passing score of 290 or above on both the PPR and Content Examinations in Certify Teacher.
6. Complete 12 hours of non-classroom review for applicable PPR and Content area preparation. Minimum of six (6) Content review hours and six (6) PPR review hours.
7. Pass Criminal History Background Check;
8. Completion of online graduation application; a copy of the confirmation page signed by an academic advisor and department head.
9. Copy of four (4) validation forms, documenting completion of 60 hours of field experiences;
10. Completed degree plan signed by academic advisor and department head. Copy of TB test results, completed within the last six (6) months;
11. Professional resume;
12. Banner registration form; documenting student teaching course number, and signed by an academic advisor.

Degree program approval for student teaching form (signed by the candidate’s advisor, department head, and the Director of Student Teaching) to include GPA for each program area.

The application for student teaching can be obtained from the office of Student Teaching and Field Experiences and should be completed prior to the semester planned for student teaching. The Committee of Admission to Student Teaching reviews all application. Upon approval (or *disapproval*) by the Committee, the Chair of the Committee notifies students by letter.

### **Student Teaching Placement**

Student teachers are placed in a local school district within 60 miles of the university and commensurate with the needs of the university. The student is cautioned not to contact a school district in an attempt to gain placement for student teaching. The placement of students for this experience is the responsibility of the Director of Student Teaching and Field Experiences. There is an agreement between the school districts and the College of Education that only the Director will make such contacts.

### **APPEAL AND GRIEVANCE PROCESS**

A student may appeal the decision made by the Committee on Admission to Teacher Education or the Director of Student Teaching and Field Experiences if denied either admission to teacher education or admission to student teaching. The student may submit a formal appeal to the University Teacher Education Council. The following steps are to be completed:

1. Confer with the head of the Department of Curriculum and Instruction or the director of Student Teaching and Field Experiences to determine the factors upon which the decision was based.
2. Confer with faculty advisor to determine if there is evidence that may be presented to the University Teacher Education Council to support the appeal.
3. Prepare the evidence and a letter that states the request for a review and the rationale for such a request.
4. Present the materials to the Dean of the College of Education who will confer with the chairperson of the University Teacher Education Council about the request for a hearing.
5. Await notification of a hearing date by the office of the Dean of the College of Education.
6. Await written statement of the University Teacher Education Council's decision.

## **TEXES REQUIREMENTS**

Each candidate for teacher certification in Texas is required to pass the appropriate exit level tests in both professional development and specialty areas. This test, known as the Texas Examinations of Educator Standards (TExES), is administered periodically by the National Evaluation Systems, the Educational Testing Services, Inc. under the auspices of the State Board for Educator Certification.

Candidates are allowed to take the appropriate certification tests (1) when deemed ready by the individual's entity or (2) upon successful completion of the individual's program requirements, whichever occurs first. "Successful completion" means the candidates has completed all of the program's requirements for certification except for taking the necessary certification tests.

### **Academic or Interdisciplinary Academic Degree Requirement**

The Texas State Education Code (See 13.036) requires that "a person who, after September 1, 1991, applies for a teaching certificate for which the rules of the State Board of Education require a bachelor's degree must possess a bachelor's degree received with an academic major or an interdisciplinary academic major including reading, other than education."

## **CERTIFICATION OPTIONS IN INTERDISCIPLINARY STUDIES DEGREE**

The following certification options are available for the B.S. degree in Interdisciplinary Studies:

- Generalist EC-6
- Generalist 4-8
- English Language Arts and Reading 4-8
- Mathematics 4-8
- Science 4-8
- Social Studies 4-8
- Special Education EC-12

Student Teaching is required for a Bachelor of Science degree in Interdisciplinary Studies.

## **ACADEMIC MAJOR AREAS FOR 8-12 AND ALL LEVEL CERTIFICATION**

All Level and 8-12 certification programs are available in the following subject areas:

Music EC-12	Life Sciences 8-12
Human Performance EC-12	Mathematics 8-12
English Language Arts and Reading 8-12	Science 8-12
Physical Sciences 8-12	Social Studies 8-12
History 8-12	Spanish 8-12

For these certification programs, a degree in a specific academic major is required. The professional education courses (including six hours of student teaching) are incorporated into the academic degree programs approved for these certification programs.

## **ALTERNATIVE TEACHER CERTIFICATION PROGRAMS (ATCP) 8-12 Certification**

This 8-12 certification route is available for entrance on an annual basis. Application is made in the spring semester. This certification option is administered by the Director of the Alternative Teacher Certification Program.

Admission requirements include a baccalaureate degree (with a minimum grade point average of 2.50) from an accredited institution, twenty-four (24) semester hours of course work in a single certification area and forty-eight (48) semester hours of course within a composite certification area with a minimum grade point average of 2.50 and satisfactory scores on all three parts of the Texas Academic Skills Program Texas Higher Education Assessment (THEA). The required minimum score on the Reading component of THEA is 260.

Those enrolled in the ATCP 8-12 are required to complete six (6) semester hours of professional education course work during the summer prior to one-year internship and the remaining (6) hours during the period of internship.

## **EC-12 Generic Special Education Certification**

Admission requirements include a baccalaureate degree (with a minimum grade point average of 2.50) from an accredited institution, twenty-four (24) semester hours in English, Mathematics, Social Studies, and Science (with at least 3 semester hours in each) with a minimum grade point average of 2.50, and satisfactory scores on all three parts of the Texas Academic Skills Program (THEA). The required minimum score on the Reading component of THEA is 230.

Those enrolled in EC-12 Generic Special Education ATCP are required to complete six semesters of course work (three hours each in professional development and special



education) during the summer prior to one-year internship and six hours of course work in special education during the period of internship.

## ***Department of Curriculum and Instruction***

### **ADMINISTRATIVE OFFICER**

William H. Parker, *Interim Department Head*

Paula Beaty, *Administrative Assistant I*

### **FACULTY**

Clarissa Gamble Booker, *Reading Education Coordinator*

Douglas M. Butler, *Special Education, Educational Diagnostician Coordinator*

George Calhoun, *Special Education*

Judith Hansen, *Instructional Technology, Educational Foundations, Secondary Education*

Mary S. Hawkins, *Secondary Education, Mathematics Education, Elementary Education*

Earnestynne Walter-Sullivan, *Educational Foundations, Curriculum and Instruction*

### **PURPOSE AND GOALS**

The purpose of the Department of Curriculum and Instruction is to provide regional, national, and international leadership in the study and improvement of teaching and learning in diverse educational settings. The College of Education's conceptual framework model, the Educator as Facilitator of Learning for Diverse Populations (E-FOLD-P), supports the major goals of the teacher education unit. E-FOLD-P guides the design and implementation of teacher education programs located in the College of Education. This conceptual framework constitutes a commitment by the College to develop and prepare candidates

- As a problem solvers, critical thinkers, and decision makers;
- As a reflective and a continual learners who utilize effective teaching practices;
- As a facilitators of student growth and development, by precept and example; and
- As educators with an understanding and appreciation of human diversity and global awareness.

E-FOLD-P also represents the College's dedication to the preparation of candidates who are technologically literate themselves and who can integrate technology into the learning environments of their students.

### **Curriculum and Instruction Programs and Degree Plans**

The Department of Curriculum and Instruction addresses its purpose through three interrelated efforts: research, the preparation of teaching/practitioner professionals, and service. In carrying out these efforts, the faculty shares the goals to

1. Generate, disseminate, and apply new knowledge about teaching, learning and performance in various educational settings;
2. Identify the factors and features that contribute to the design and implementation of effective professional preparation programs in education;

3. Provide exemplary initial preparation and continuing education programs for teachers/specialists in the traditional major academic content areas and in selected related areas central to the operation of effective schools;
4. Provide the opportunities for advanced-level students in selected specialized areas to become highly competent scholar-researchers and scholar-practitioners;
5. Contribute to the educational development of school-aged, university, and adult students in the region through a variety of direct instructional programs; and
6. Enhance that development further by contributing to the design and implementation of exemplary school-based programs through the College of Education-School-Community partnerships.

## **HONOR SOCIETIES AND PROFESSIONAL ORGANIZATIONS**

The Department of Curriculum and Instruction has the following professional organizations and honor societies.

*Association for Childhood Education International (ACEI)* is an international organization that supports and promotes active cooperation between individuals and groups concerned with children.

*International Reading Association (IRA)* is the professional organization for leaders in reading and literacy education. The Association is devoted exclusively to improving reading instruction and promoting the lifetime reading habit.

*Epsilon Pi Tau* is a leadership and professional honorary fraternity. Membership is open to students, teachers, and administrators in industrial education, technology majors, and business and industrial executives. Undergraduate members are selected from the top 10 percent of the junior and senior classes.

*International Reading Association (IRA)* is the professional organization for leaders in reading and literacy education. The Association is devoted exclusively to improving reading instruction and promoting the lifetime reading habit.

*Kappa Delta Pi (KDP)* is an international honor society in education. Membership is by invitation to juniors with a 3.00 grade point average.

*National Black Child Development Institute, Inc.(NBCDI) Prairie View A&M University Affiliate* is dedicated to improving the quality of life for African-American children and youth. Since 1970, the national nonprofit organization has provided and supported programs, workshops and resources for African-American children, their parents and communities in child care, health care, education, and child welfare.

*Phi Delta Kappa (PDK)* is an international organization for men and women who are professionals in the field of Education. The purpose and mission of the organization is to stimulate the professional growth of members and to provide members the opportunity to participate in critical and relevant issues facing education today through research, publications, and professional development services. To be eligible for membership applicants must be either baccalaureate degree holders who currently work in the field of education in some capacity, graduate students in education or undergraduate seniors who have completed their student teaching.

*Student Council for Exceptional Children (SCEC)* is an international organization designed to provide pre-professional experiences for prospective special education teachers.

*Student National Education Association (SNEA)* is a national organization designed to provide pre-professional experiences for prospective teachers.

*Texas Student Education Association (TSEA)* is a professional organization for students enrolled in teacher education; it is an affiliate of the Texas State Teachers' Association

## **Degrees Offered**

The Department of Curriculum and Instruction offers the Bachelor of Science degree in Interdisciplinary Studies (B.S.I.S.) The student selects an academic major/specialization and completes coursework toward eligibility for certification.

All students pursuing teaching certification in the State of Texas must pass a criminal history background check.

The following certification options are available in the B.S.I.S. degree:

- Generalist Grades 4-8
- English Language Arts and Reading Grades 4-8
- Mathematics Grades 4-8
- Science Grades 4-8
- Social Studies Grades 4-8

8-12 certification programs are available in the following subject areas:

- English Language Arts and Reading 8-12
- History 8-12
- Life Sciences 8-12
- Mathematics 8-12
- Physical Sciences 8-12
- Science 8-12
- Spanish 8-12
- Social Studies 8-12

## All Level Certification

Health (EC-12)  
Human Performance (EC-12)  
Music (EC-12)  
Special Education (EC-12)

**Field Requirements and Expectations are contained within the following courses;** CUIIN 3003, 3013, 4003, 4013, 4103, and 4113, , and SPED 4123require a planned sequence of field experiences in elementary school and secondary school classrooms. All courses must be completed prior to student teaching. Student teaching will encompass the regular school day for a full semester. For students seeking additional certification in a specialization, the student will complete half the semester in the specialization and half at the EC-level.

## **INTERDISCIPLINARY STUDIES DEGREE PROGRAM REQUIREMENTS**

Student Teaching is required for a Bachelor of Science degree in Interdisciplinary Studies.

**Core Curriculum..... 42 SCH**  
Interdisciplinary Studies Core Curriculum requirements are shown in the suggested degree programs also. All Interdisciplinary Studies major programs include the University Core Curriculum of 42 semester credit hours and the College of Education Teacher Education Core Requirements of 9 semester credit hours.

### **Whitlowe R. Green College of Education Interdisciplinary Studies Major Certification Options**

## **EARLY CHILDHOOD/ELEMENTARY (EC-6) GENERALIST CERTIFICATION**

**University Core Curriculum Requirements ..... 42 SCH**  
**College of Education Requirements ..... 9 SCH**

<b>Early Childhood Requirements..... 18 SCH</b>		
ECED 3003	Introduction to Early Childhood	3 SCH
ECED 3013	Health and Motor/ Physical Development of Young Children	3 SCH
ECED 4003	Communication and Language Development	3 SCH
ECED 4013	Young Children Cognitive Development	3 SCH
ECED 4023	Program Organization	3 SCH
ECED 4113	Instructional Strategies for Young Children	3 SCH
ECED 4123	Clinical Experiences	3 SCH
ECED 4313	Early Childhood Practicum	3 SCH

**Interdisciplinary Studies Major Requirements..... 27 SCH**

PHSC 4013	Earth Physical Science	3 SCH
PHSC 4011	Earth Science Lab	1SCH
	of Everyday Things	3 SCH
MATH 2183	Informal Geometry	
MATH 2163	Structure of Numbers Systems	3 SCH
MATH 3003	Math in Elementary Schools	3 SCH
ENGL 3233	American Literature I	
MATH 3043	Professional Writing for Electronic Media	3 SCH
ENGL 3053	Survey of Afro-American Literature I	3 SCH
MUSC 1313	Music in Contemporary Life	3 SCH
ARTS 2283	Afro-American Art	3 SCH
SPED 3003	Introduction to Exceptional Children	3 SCH
HUSC 3373	Child Development	3 SCH
GEOG 3723	World Regional Geography	3 SCH
RDNG 3603	Evaluation of Reading Performance	3 SCH
RDNG 3623	Linguistics in Reading Instruction	3 SCH
RDNG 4653	Foundation of Reading Instruction	3 SCH

**Professional Requirements ..... 24 SCH**

HLTH 3003	Health Education	
RDNG 3643	Methods of Teaching for	
	Elementary Schools	3 SCH
ECED 4113	Instructional Strategies for Young	
	Children	3 SCH
CUIN 3003	Educational Foundations	3 SCH
CUIN 3013	Educational Psychology	3 SCH
BIOL 1111	*College Biology Lab	1 SCH
PHSC 1121	*Physical Science Survey Lab	1 SCH
HUPF 1151	Low Organized Games	1 SCH
CUIN 4103	Instruction Planning and Assessment	3 SCH
CUIN 4113	Instruction Methods and Classroom	
	Management	3 SCH
CUIN 4403	Student Teaching/Elementary I	3 SCH
CUIN 4433	Student Teaching/Early Childhood	3 SCH

**GRAND TOTAL..... 130 SCH**

**INTERDISCIPLINARY STUDIES SUGGESTED DEGREE  
PROGRAM SEQUENCE (GENERALIST EC-4)**

**FRESHMAN YEAR**

First Semester		Hours	Second Semester		Hours
ENGL 1123	Freshman Composition I	3	ENGL 1133	Freshman Composition II	3
HIST 1313	U.S. to 1876	3	SPCH 1003	Fund of Speech Comm.	3
MATH 1113	College Algebra	3	HIST 1333	History of Texas	3
BIOL 1113	College Biology	3	MUSC 1313	Contemporary Life	3
BIOL 1111	College Biology Lab	1	PHSC 1123	Physical Science Survey	3
COMP 1003	Computer Education	3	PHSC 1121	Physical Science Lab	1
HUPF	Electives	2	HUPF 1151	Low Organized Games	1
			HUPF	Elective	1
<b>Total</b>		<b>18</b>	<b>Total</b>		<b>18</b>

**SOPHOMORE YEAR**

First	Hours	Second	Hours
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## Curriculum and Instruction Programs and Degree Plans

Semester			Semester		
ENGL 2153	Introduction to Literature	3	SOCG 1013	General Sociology	3
POSC 1113	American Government I	3	POSC 1123	American Government II	3
ARTS 1203	Intro to Visual Arts	3	ECED 3003	Intro to Early Childhood Ed.	3
MATH 2163	Structure	3	MATH 2183	Informal Geometry	3
HUSC 3373	Child Development	3	ARTS 2283	Afro-American Art	3
<b>Total</b>		<b>15</b>	<b>Total</b>		<b>15</b>
<b>JUNIOR YEAR</b>					
First Semester		Hours	Second Semester		Hours
ENGL 3233	American Literature I	3	RDNG 3643	Meth of Teach Elem Rd	3
ECED 3013	Hlth Mtr/Phy Dvlp of Yng Children	3	ENGL 3053	Survey of Afro-Amer Lit	3
RDNG 3603	Eval of Reading Perf	3	CUIN 3003	Education Foundations	3
RDNG 3623	Linguistics in Rdnng Inst	3	GEOG 3723	World Regional Geog.	3
SPED 3003	Intro to Ex Child	3	CUIN 3013	Educational Psychology	3
<b>Totals</b>		<b>15</b>	<b>Totals</b>		<b>15</b>
<b>SENIOR YEAR</b>					
First Semester		Hours	Second Semester		Hours
PHSC 4013	Earth Science	3	ECED 4113	Inst Strategies for Yng Ch	3
PHSC 4011	Earth Science Lab	1	ECED 4013	Soc & Cog Dev of Yng Children	3
RDNG 4653	Found of Reading Inst	3	ECED 4023	Program Organization	3
CUIN 4103	Instr Plan Assmt	3	ECED 4123	Clinical Experiences	3
CUIN 4113	Inst Meth & Classrm Mgt	3	ECED 4003	Comm. & Language Dev	3
<b>Total</b>		<b>13</b>	<b>Total</b>		<b>15</b>
<b>FINAL YEAR</b>					
First Semester		Hours			
CUIN 4403	Stud Teach/Elem I	3			
CUIN 4433	Stud Teach/Early Child	3			
<b>Total</b>		<b>6</b>			

## 4-8 CERTIFICATION PROGRAMS

### 4-8 English Language Arts and Reading Certification

University Core Curriculum Requirements ..... 42 SCH

College of Education Requirements ..... 9 SCH

4-8 English Language Arts and Reading Major Requirements..... 52 SCH

ENGL 2383	Survey of World Literature	3 SCH
ENGL 3023	Creative Writing Processes	3 SCH
ENGL 3233	American Literature To 1865	3 SCH
ENGL 3243	American Literature After 1865	3 SCH
ENGL 3223	Advanced Grammar	3 SCH
ENGL 4223	Shakespeare	3 SCH
RDNG 3623	Linguistics in Reading Instruction	3 SCH
RDNG 4643	Children's Literature	3 SCH
RDNG 4653	Foundation of Reading Instruction	3 SCH
BIOL 1034	Botany	4 SCH

*Curriculum and Instruction Programs and Degree Plans*

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HLTH 2003	Personal Health	3 SCH
GEOG 3723	World Regional Geography	3 SCH
MATH 2003	Elementary Statistics	3 SCH
DRAM 1103	Introduction to Theatre	3 SCH
<b>Reading Options .....</b>		<b>15 SCH</b>
Select 15 SCH from courses listed:		
RDNG 3603	Evaluation of Reading Performance	3 SCH
RDNG 3623	Linguistics in Reading Instruction	3 SCH
RDNG 3643	Methods of Teaching Elementary Reading	3 SCH
RDNG 4643	Children's Literature	3 SCH
RDNG 4653	Foundations of Reading Instruction	3 SCH
RDNG 4673	Clinical and Laboratory Reading	3 SCH
<b>Professional Education Requirements .....</b>		<b>18 SCH</b>
CUIN 3003	**Educational Foundations	3 SCH
CUIN 3013	**Educational Psychology	3 SCH
CUIN 4103	**Instruction Planning and Assessment	3 SCH
CUIN 4113	**Instruction Methods and Classroom Management	3 SCH
CUIN 4403	***Student Teaching/Elementary I	3 SCH
CUIN 4433	**Student Teaching/Early Childhood	3 SCH

\*Labs must correspond to the 6 University Core hours of science.  
\*\*Candidates must have been accepted into the Teacher Education Program before taking professional education (CUIN) courses.  
\*\*\* Candidates must be admitted to the Student Teaching Program before registering for student teaching courses.  
\*\*\*\* Courses may be substituted at the discretion of the department head /dean to satisfy degree requirements during a normal course rotation.

**GRAND TOTAL..... 120 SCH**

**INTERDISCIPLINARY STUDIES SUGGESTED DEGREE  
PROGRAM SEQUENCE (GENERALIST EC-6)**

First Semester		FRESHMAN YEAR				Hours
		Hours	Second Semester		Hours	
ENGL 1123	Freshman Composition I	3	ENGL 1133	Freshman Composition II	3	
HIST 1313	U.S. to 1876	3	COMM 1003	Fund of Speech Comm.	3	
MATH 1113	College Algebra Intro to	3	HIST 1333	History of Texas	3	
ARTS 1203	Visual Arts Computer	3	ENGL 2153	Intro to Literature	3	
COMP 1003	Education Electives	3	BIOL 1113	College Biology	3	
HUPF 1151		1	BIOL 1111	College Biology Lab	1	
Total		15	Total		16	



## Curriculum and Instruction Programs and Degree Plans

SOPHOMORE YEAR					
First Semester		Hours	Second Semester		Hours
PHSC 1123	Physical Sci. Survey	3	SOCG 1013	General Sociology	3
PHSC 1121	Physical Sci. Lab	3	POSC 1123	American Government II	3
POSC 1113	American Government I	3	MATH 2003	Elementary Statistics	3
MATH 2163	Structure	1		Math in Elem. School	3
PHSC 1123	Physical Sci Survey	3	PHSC 2123	Physical Sci Sur II	3
PHSC 1121	Physical Sci Survey Lab	3	RDNG 3623	Linguistics in Reading Inst	
RDNG 3603	Eval. Of Reading Perf.	3	HUPF 1172	Foundations I	2
HLTH 3003	Hlth Ed. For Elem School	3			
<b>Total</b>		<b>16</b>	<b>Total</b>		<b>17</b>
JUNIOR YEAR					
First Semester		Hours	Second Semester		Hours
ENGL 3043	Prof Wrt for Elec Media	3	GEOG 3723	World Regional	3
ECED 3003	Intro to Early Childhood			Geography	
	Young Child	3	ECED 4023	Program Organization	3
ECED 3523	Children's Literature	3	ECED 4113	Inst. Strategies for Yng	3
RDNG 4643	Meth of Teach Elem Rd	3		Child	
RDNG 3643	Intro to Ex Child	3	CUIN 3003	Ed. Foundations	3
SPED 3003		3	CUIN 3013	Ed. Psychology	3
			RDNG 4653	Found of Reading Inst	3
<b>Totals</b>		<b>18</b>	<b>Totals</b>		<b>18</b>
SENIOR YEAR					
First Semester		Hours	Second Semester		Hours
PHSC 3083	Sci of Everyday Things	3		Inst Strategies for	3
ECED 4123	Clinical Experiences	3	CUIN 4403	Student Tech/Elem I	3
ECED 4313	Early Childhood	3	CUIN 4433	Student Teach/Early	3
	Practicum			Childhood	
CUIN 4103	Instr. Plan Assmt	3			
CUIN 4113	Inst. Meth Clsm Mg	3			
<b>Totals</b>		<b>15</b>	<b>Totals</b>		<b>6</b>
<b>Grand Total</b>					<b>120</b>

## 4-8 CERTIFICATION PROGRAMS

### 4-8 English Language Arts and Reading Certification

University Core Curriculum Requirements ..... 42 SCH

4-8 English Language Arts and Reading Major Requirements..... 27 SCH

ENGL 2383	*Survey of World Literature	3 SCH
ENGL 3023	*Creative Writing Processes	3 SCH
ENGL 3243	American Literature After 1865	3 SCH
ENGL 3223	*Advanced Grammar	3 SCH
COMM 1103	Mass Media or SPCH 2013 Voice Diction	3 SCH
RDNG 4633	Developmental Reading	3 SCH
DRAM 1103	Introduction to Theatre	3 SCH
HLTH 2003	Health and Wellness	3 SCH
BIOL 1123	College Biology II	3 SCH
DRAM 2213	African American Theatre	3 SCH
MUSIC 1223	Fundamentals of Music	3 SCH

Interdisciplinary Major Requirements..... 33 SCH

*Curriculum and Instruction Programs and Degree Plans*

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RDNG 3603	Evaluation of Reading Performance	3 SCH
RDNG 3623	Linguistics in Reading	3 SCH
RDNG 3643	Methods of Teaching Elementary Reading	3 SCH
RDNG 4643	Children's Literature	3 SCH
RDNG 4653	Reading Instruction	3 SCH
RDNG 4673	Clinical and Laboratory Reading	3 SCH
MATH 2163	Structure of Number System	3 SCH
MATH 3003	Math in Elementary School	3 SCH
SPED 3003	Introduction to Exceptional Children	3 SCH
GEOG 3723	World Regional Geography	3 SCH
BIOL 1111	** College Biology Lab	1 SCH
PHSC 1121	** Physical Science Lab	1 SCH
HUPF 1151	Low Organized Games	1 SCH
<b>Professional Education Requirements</b>		<b>18 SCH</b>
CUIN 3003	^Educational Foundations	3 SCH
CUIN 3013	^Educational Psychology	3 SCH
CUIN 4103	^Instructional Planning and Assessment	3 SCH
CUIN 4113	^Instructional Methods and Classroom Management	3 SCH
CUIN 4416	^^Advised Student Teaching	6 SCH

\*ENGL 3000 or higher, or equivalent  
\*\*Labs must correspond to the 6 hours of science taken in the University Core.  
^Candidates must have been accepted into the Teacher Education Program before taking professional education (CUIN) courses.  
^^Candidates must be admitted to the Student Teaching Program before registering for student teaching courses.

**GRAND TOTAL..... 121 SCH**

**INTERDISCIPLINARY STUDIES SUGGESTED DEGREE  
PROGRAM SEQUENCE  
(ENGLISH LANGUAGE ARTS AND READING)**

		FRESHMAN YEAR			
First Semester		Hours	Second Semester		Hours
ENGL 1123	Freshman Comp I	3	ENGL 1133	Freshman Composition II	3
HIST 1313	U.S. to 1876	3	COMM 1003	Fund. of Speech Comm.	
MATH 1113	College Algebra	3	HIST 1333	History of Texas	3
ARTS 1203	Intro to Visual Arts	3	DRAM 1103	Intro to Theatre	3
COMP 1003	Computer Education	3	BIOL 1113	College Biology	3
HUPF 1151	Low Organized Games	1	BIOL 1111	College Biology Lab	3
					1
Total		16	Total		16

## Curriculum and Instruction Programs and Degree Plans

SOPHOMORE YEAR					
First Semester		Hours	Second Semester		Hours
HUPF	Elective	3	HUPF	Elective	1
ENGL 2153	Intro. to Lit.	3	ENGL 2383	World Literature	3
POSC 1113	American Govt. I	3	POSC 1123	American Government II	3
MATH 2163	Structure of Number Sys	3	MATH 3003	Math in Elem School	3
PHSC 1123	Physical Sci Survey	1	SOCG 1013	General Sociology	3
PHSC 1121	Physical Sci Survey Lab		ENGL 3023	Cr. Wr. Processes	3
	Mass Media	3	HLTH 2003	Health and Wellness	3
COMM 1103 or SPCH 2013	Diction				
<b>Total</b>		<b>16</b>	<b>Total</b>		<b>18</b>
JUNIOR YEAR					
First Semester		Hours	Second Semester		Hours
ENGL 3223	Advanced Grammar	3	ENGL 3243	Education	3
ENGL 3043	Prof Media	3	RDNG 4633	Amer Lit after 1865	3
RDNG 4633	Eval of Reading Perf	3	RDNG 3643	Developmental Reading	3
RDNG 3623	Linguistics in Reading Inst	3	RDNG 4643	Meth of Teach Elem Rd	3
GEOG 3723	World Regional Geography	3	CUIN 3013	Children's Literature	3
SPED 3003	Intro to Ex. Children	3	CUIN 3003	Educational Psychology	3
				Educational Foundations	
<b>Total</b>		<b>18</b>	<b>Total</b>		<b>18</b>
SENIOR YEAR					
First Semester		Hours	Second Semester		Hours
RDNG 4643	Children's Literature	3	CUIN 4416	Advised Student Teaching	6
RDNG 4673	Reading Inst Clinical & Lab Reading	3			
CUIN 4103	Instr Plan Assmt	3			
CUIN 4113	Inst Meth & Clssrm Mgt	3			
<b>Total</b>		<b>12</b>	<b>Total</b>		<b>6</b>
			<b>Grand Total</b>		<b>120</b>

### 4-8 Generalist Certification

University Core Curriculum ..... 42 SCH

College of Education Requirements ..... 9 SCH

4-8 Generalist Major Requirements..... 60 SCH

HIST 1323	U.S. 1876 to Present	3 SCH
BIOL 4043	Biology for Teachers	3 SCH
PHSC 4014	Earth Science	4 SCH
PHSC 4011	Earth Science Lab	1 SCH
PHSC 3083	Science of Everyday Things.	3 SCH
MATH 3003	Math in Elementary School	3 SCH
MATH 4003	Math Modeling and Applications	3 SCH
MATH 3163	Math Investigations	3 SCH
GEOG 3723	World Regional Geography	3 SCH
RDNG 3623	Linguistics in Reading Instruction	3 SCH
RDNG 4653	Foundations of Reading Instruction	3 SCH

BIOL 1034	Botany	4 SCH
HLTH 2003	Personal Health	3 SCH
MATH 2003	Elementary Statistics	3 SCH
DRAM 1103	Introduction to Theatre	3 SCH
RDNG 3603	Evaluation of Reading Performance	3 SCH
RDNG 4633	Developmental Reading	3 SCH
SPED 3003	Introduction to Exceptional Children	3 SCH
ENGL 2143	Advanced Composition	3 SCH
BIOL 1111	*College Biology Lab	1 SCH
PHSC 1121	*Physical Science Lab	1 SCH
HUPF (Elective)	1 SCH	
HUPF 1151	Low Organized Games	1 SCH
<b>Professional Education Requirements Generalist (4-8) .....</b>		<b>18 SCH</b>
CUIN 3003	^Educational Foundations	3 SCH
CUIN 3013	^Educational Psychology	3 SCH
CUIN 4103	^Instructional Planning and Assessment	3 SCH
CUIN 4113	^Instructional Methods and Classroom Management	3 SCH
CUIN 4416	^Advised Student Teaching	6 SCH

\*Labs must correspond to the 6 hours of science taken in the University Core.  
^Candidates must have been accepted into the Teacher Education Program before taking professional education (CUIN) courses.  
^^Candidates must be admitted to the Student Teaching Program before registering for student teaching courses.

**GRAND TOTAL..... 120 SCH**

**INTERDISCIPLINARY STUDIES SUGGESTED DEGREE  
PROGRAM SEQUENCE  
(MIDDLE SCHOOL (4-8) GENERALIST)**

FRESHMAN YEAR					
First Semester		Hours	Second Semester		Hours
ENGL 1123	Freshman Comp I	3	ENGL 1133	Freshman Comp II	3
HIST 1313	U.S. to 1876	3	ENGL 2153	Intro to Lit	3
MATH 1113	College Algebra	3	HIST 1323	History of Texas	3
ARTS 1203	Intro to Visual Arts	3	COMM 1003	Fund of Speech Comm.	3
COMP 1003	Computer Education	3	BIOL 1113	College Biology	3
HUPF	Elective	1	BIOL 1111	College Biology Lab	1
BIOL 1113	College Biology	3	MATH 2163	Structure	3
<b>Total</b>		<b>17</b>	<b>Total</b>		<b>17</b>
SOPHOMORE YEAR					
First Semester		Hours	Second Semester		Hours
BIOL 1034	Botany	4	POSC 1123	American Government II	3
HLTH 2003	Personal Health	3	HUPF	Elective	1
HUPF	Elective	1			
<b>Total</b>		<b>8</b>	<b>Total</b>		<b>4</b>

## Curriculum and Instruction Programs and Degree Plans

		<b>JUNIOR YEAR</b>				
<b>First Semester</b>		<b>Hours</b>	<b>Second Semester</b>			<b>Hours</b>
<b>First Semester</b>		<b>Hours</b>	<b>Second Semester</b>		<b>SENIOR YEAR</b>	<b>Hours</b>
SPED 3003	Intro to Ex Children	3	Second Semester			Hours
RDNG 4633	Dev Reading	3	CUIN 4416	Advised Teaching	Student	6
CUIN 4103	Instr Plan and Assess	3				
CUIN 4113	Inst Meth & Clssrm Mgt	3				
BIOL 4043	Biology for Teachers	3				
<b>Total</b>		<b>15</b>	<b>Total</b>			<b>6</b>
			<b>Total Hours</b>			<b>120</b>

Grand Total 120

### 4-8 Mathematics Certification

**University Core Curriculum** ..... 42 SCH  
**College of Education Requirements** ..... 9 SCH  
**4-8 Mathematics Major Requirements** ..... 27 SCH

MATH 1123	Trigonometry	3 SCH
MATH 1153	Finite Mathematics	3 SCH
MATH 2003	Elementary Statistics	3 SCH
MATH 2153	Calculus	3 SCH
MATH 2183	Informal Geometry	3 SCH
MATH 3053	Math in Elementary Schools	3 SCH
MATH 3103	History of Mathematics	3 SCH
MATH 3163	Math Investigations	3 SCH
MATH 4003	Math Modeling and Applications	3 SCH
MATH 4053	Foundations	3 SCH

**Interdisciplinary Major Requirements** ..... 33 SCH

MATH 2163	Structure of Number Systems	3 SCH
MATH 3003	Math in Elementary School	3 SCH
PHSC 3083	Science of Everyday Things	3SCH
BIOL 1034	Botany	4 SCH
HLTH 2003	Personal Health	3 SCH
SPED 3003	Introduction to Exceptional Children	3 SCH
GEOG 3723	World Regional Geography	3 SCH
DRAM 1103	Introduction to Theatre	3 SCH
RDNG 3603	Evaluation of Reading Performance	3 SCH
RDNG 4633	Developmental Reading	3 SCH
SPED 3003	Introduction to Exceptional Children	3 SCH
BIOL 1111	*College Biology Lab	1 SCH
PHSC 1121	*Physical Science Survey Lab	1 SCH
HUPF 1151	Low Organized Games	1 SCH
HUPF Elective		1 SCH
HUPF Elective		1 SCH

**Professional Education Requirements (4-8) Mathematics**..... 18 SCH

CUIN 3003	^Educational Foundations	3 SCH
CUIN 3013	^Educational Psychology	3 SCH

CUIN 4103	^Instructional Planning and Assessment	3 SCH
CUIN 4113	^Instructional Methods and Classroom Management	3 SCH
CUIN 4416	^Advised Student Teaching	6 SCH

\* Labs must correspond to the 6 hours of science taken in the University Core.  
^ Candidates must have been accepted into the Teacher Education Program before taking professional education (CUIN) courses.  
^^Candidates must be admitted to the Student Teaching Program before registering for student teaching courses.

**GRAND TOTAL..... 120 SCH**

**INTERDISCIPLINARY STUDIES SUGGESTED DEGREE  
PROGRAM SEQUENCE  
(4-8 MATHEMATICS)**

FRESHMAN YEAR					
First Semester		Hours	Second Semester		Hours
ENGL 1123	Freshman Composition I	3	ENGL 1133	Freshman Composition II	3
HIST 1313	U.S. to 1876	3	COMM 1003	Fund of Speech Comm.	3
MATH 1113	College Algebra	3	HIST 1333	History of Texas	3
ARTS 1203	Intro to Visual Arts	3	MATH 1123	Trigonometry	3
COMP 1003	Intro. to Computer Ed.	3	BIOL 1113	College Biology	3
COMP 1003	Intro to Computer Ed	3	PHSC 1121	Physical Science Lab	1
HUPF 1151	Low Organized Games	1	HUPF	Elective	1
HUPF	Elective	1			
Total		18	Total		17
SOPHOMORE YEAR					
First Semester		Hours	Second Semester		Hours
POSC 1113	American Government I	3	POSC 1123	American Government II	3
SOCG	General Sociology	3	MATH 2153	Calculus	3
1013MATH	Finite Mathematics	3	MATH 2163	Structure of Number Sys	3
1153	Elementary Statistics	3	BIOL 1034	Botany	4
MATH 2003	Physical Sci Survey	3	HUPF 1151	Low Organized Games	1
PHSC 1123		1			
PHSC 1121	Physical Sci Survey Lab	1			
HUPF	Elective				
Total		17	Total		18

## Curriculum and Instruction Programs and Degree Plans

		<b>JUNIOR YEAR</b>			
<b>First Semester</b>		<b>Hours</b>	<b>Second Semester</b>		<b>Hours</b>
MATH 2183	Informal Geometry	3	GEOG 3723	Education	3
MATH 3103	History of Mathematics	3		World Reg.	
	Sci of Everyday Things			Geography	3
PHSC 3083	Eval of Reading Perf	3	SPED 3003	Intro to Ex. Children	3
	Intro to Ex Child		MATH 3003	Math in Elem School	
RDNG 3623	Ling in Reading Inst	3	MATH 3163	Math Investigations	3
	Personal Health	3	CUIN 3003	Ed. Foundations	3
HLTH 2003	Low Organized Games	3	CUIN 3013	Ed. Psychology	3
HUPF 1151		1	HLTH 2003	Personal Health	
<b>Total</b>		<b>18</b>	<b>Total</b>		<b>18</b>
		<b>SENIOR YEAR</b>			
<b>First Semester</b>		<b>Hours</b>	<b>Second Semester</b>		<b>Hours</b>
MATH 4003	Foundations of Math	3	CUIN 4416	Advised Student Teaching	6
	Modeling and Appl				
MATH 4053	Foundations	3			
CUIN 4103	Instr Plan and Assess	3			
CUIN 4113	Inst Meth and Clssrm Mgt	3			
	Developmental Reading				
RDNG 4633		3			
<b>Total</b>		<b>15</b>	<b>Total</b>		<b>6</b>
			<b>Grand Total</b>		<b>120</b>

### 4-8 Science Certification

University Core Curriculum .....	42 SCH
College of Education Requirements .....	9

University Core Curriculum .....	42 SCH
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4-8 Science Major Requirements .....	57 SCH
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MATH 2003	Elementary Statistics	3 SCH
HLTH 2003	Personal Health	3 SCH
GEOG 3723	World Regional Geography.	40 SCH
BIOL 1015	General Biology	5 SCH
BIOL 1025	General Biology	5 SCH
BIOL 1034	Botany	4 SCH
BIOL 1034	Botany	4 SCH
BIOL 4043	Biology	3 SCH
BIOL 2054	Genetics	3 SCH
PHSC 3183	Modern Science for Teachers.	3 SCH
PHSC 3233	Atmospheric Science	3 SCH
PHSC 4013	Earth Science	3 SCH
PHSC 4011	Earth Science Lab	1 SCH
PHSC 4024	Astronomy and Geology	4 SCH
PHYS 3083	Science of Everyday Things	3 SCH
CHEM 1013	General Inorganic Chemistry	3 SCH
CHEM 1011	Inorganic Chemistry Lab	1 SCH
CHEM 1023	General Inorganic Chemistry.	3 SCH
CHEM 1021	Inorganic Chemistry Lab.	1 SCH

**Interdisciplinary Major Requirements..... 23 SCH**

MATH 2003	Elementary Statistics	3 SCH
MATH 2153	Structure of Number Systems	3 SCH
MATH 3003	Math in Elementary School	3 SCH
PHSC 3083	Science of Everyday Things	3 SCH
HUPF 1151	Low Organized Games	1 SCH
DRAM 1103	Introduction to Theatre	3 SCH
RDNG 3603	Evaluation of Reading Performance	3 SCH
RDNG 4633	Developmental Reading	3 SCH
SPED 3003	Introduction to Exceptional Children	3 SCH

**Professional Education Requirements (4-8) Science..... 18 SCH**

CUIN 3003	^Educational Foundations	3 SCH
CUIN 3013	^Educational Psychology	3 SCH
CUIN 4103	^Instructional Planning and Assessment	3 SCH
CUIN 4113	^Instructional Methods and Classroom Management	3 SCH
CUIN 4416	^Advised Student Teaching	6 SCH

\* Labs must correspond to the 6 hours of science taken in the University Core.  
^ Candidates must have been accepted into the Teacher Education Program before taking professional education (CUIN) courses.  
^^Candidates must be admitted to the Student Teaching Program before registering for student teaching courses.

**GRAND TOTAL..... 123 SCH**

**INTERDISCIPLINARY STUDIES SUGGESTED DEGREE PROGRAM  
SEQUENCE  
(SCHOOL 4-8 SCIENCE)**

		FRESHMAN YEAR			
<i>First Semester</i>		<i>Hours</i>	<i>Second Semester</i>		<i>Hours</i>
ENGL 1123	Freshman Composition I	3	ENGL 1133	Freshman Composition II	3
HIST 1313	U.S. to 1876	3	COMM 1003	Fund of Speech Comm	3
MATH 1113	College Algebra	3	HIST 1333	History of Texas	3
BIOL 1113	General Biology	3	MATH 2003	Elementary Statistics	3
BIOL 1113	General Biology Lab	3	PHSC 1123	Physical Science Survey	3
COMP 1003	Computer Education	3	PHSC 1121	Physical Science Lab	1
HUPF 1151	Low Organized Games	1	PHSC 1121	Physical Sci. Lab	1
ARTS 1203	Intro to Visual Arts	3	ENGL 2153	Intro to Lit	3
<i><b>Total</b></i>		<i><b>16</b></i>	<i>Total</i>		<i><b>16</b></i>



## Curriculum and Instruction Programs and Degree Plans

<b>SOPHOMORE YEAR</b>					
<i>First Semester</i>		<i>Hours</i>	<i>Second Semester</i>		<i>Hours</i>
POSC 1113	American Government I	3	POSC 1123	American Government II	3
ARTS 1203	Intro to Visual Arts	3	RDNG 3603	Evaluation of Reading Per	3
BIOL 1034	Botany	4	MATH 2163	Structure	3
SOCG 1013	General Sociology	3	RDNG 3603	Evaluation of Reading Per.	3
POSC 113	American Govt. I	3	POSC 1123	American Government II	3
MATH 2003	Elementary Statistics	3	MATH 2163	Structure of Number Sys	3
BIOL 1015	General Biology I	5	BIOL 1025	General Biology II	5
BIOL 1034	Botany	4			
HUPF	Elective	1			
<b>Total</b>		<b>18</b>	<b>Total</b>		<b>17</b>
<b>JUNIOR YEAR</b>					
<i>First Semester</i>		<i>Hours</i>	<i>Second Semester</i>		<i>Hours</i>
PHSC 3083	Sci of Everyday Things	3	CHEM 1013	Gen Inorg I	3
PHSC 4014	Earth Science	4	CHEM 1011	Gen Inorg I Lab	1
GEOG 3723	World Regional Geog.	3	SPED 3003	Intro to Ex Child	3
CUIN	Education Foundations		CUIN 3003	Intro to Ex Child	3
PSHC 4024	Astronomy & Geology	4	CUIN 3013	Ed. Foundations	3
CHEM 1013	General Inorganic Chem. I	3	PHSC 3183	Educational Psychology	3
CHEM 1011	General Inorganic Chem Lab	1		Modern Science for Teachers	3
MATH 3003	Math in Elem. School	3			
BIOL 2054	Genetics	3			
RDNG 3603	Eval of Reading Perf	3	HLTH 2003	Personal Health	3
HUPF	Elective	1	BIOL 1025	General Biology	5
<b>Total</b>		<b>18</b>	<b>Total</b>		<b>15</b>
<b>SENIOR YEAR</b>					
<i>First Semester</i>		<i>Hours</i>	<i>Second Semester</i>		<i>Hours</i>
CHEM 1023	Gen Inorg Chem II	3	CUIN 4416	Advised Stud Teaching	6
CHEM 1021	Gen Inorg Chem Lab	1			
RDNG 4633	Dev Reading	3			
BIOL 4043	Biology for Teachers	3			
PHSC 3223	Atmospheric Science	3	CUIN 4416	Advised Student Teaching	6
PHSC 4013	Earth Science	3			
PHSC 4011	Earth Science Lab	1			
RDNG 4633	Developmental Reading	3			
CUIN 4103	Instr Plan and Assess	3			
CUIN 4113	Inst Meth & Clssrm Mgt	3			

<i>Total</i>	<i>16</i>	<i>Total</i>	<i>6</i>
<b>4-8 Social Studies Certification</b>			

<b>University Core Curriculum .....</b>	<b>42 SCH</b>
<b>College of Education Requirements .....</b>	<b>94-8 SCH</b>
<b>Social Studies Major Requirements .....</b>	<b>27 SCH</b>

HIST 1323	U.S. 1876 to Present. or other HIST not taken in the core or approved	
	ROTC course	3 SCH
SOCG 1013	General Sociology	
HIST 3913	American Historiography	3 SCH
ECON 2113	Principles of Microeconomics`	3SCH
POSC 2113	Political Parties	3 SCH
HIST 3923	Historical Methods	3 SCH
HIST 4313	Foreign Relations	3 SCH
HIST 4513	Europe	3 SCH
GEOG 3713	Geography of Texas	3 SCH
POSC 3513	Comparative Politics	3 SCH
POSC 4123	Constitution and Private Rights	3 SCH
BIOL 1034	Botany	4 SCH
HLTH 2003	Personal Health.	3 SCH
GEOG 3723	World Regional Geography	3 SCH
MATH 2003	Elementary Statistics	3 SCH
DRAM 1103	Introduction to Theatre	3 SCH
RDNG 3603	Eval of Reading Perf	3 SCH
RDNG 4633	Developmental Reading	3 SCH
MATH 2003	Elementary Statistics	3 SCH
PHSC 3083	Science of Everyday Things	3 SCH

**Interdisciplinary Major Requirements.....33 SCH**

MATH 2163	Structure of Number Systems	3 SCH
MATH 3003	Math in Elementary School	3 SCH
ENGL 3043	Professional Writing for Electronic Media	3 SCH
SPED 3003	Introduction to Exceptional Children	3 SCH
GEOG 3723	World Regional Geography	3 SCH
RDNG 3603	Evaluation of Reading Performance	3 SCH
RDNG 3623	Linguistics in Reading Instruction	3 SCH
RDNG 3643	Methods of Teaching Elementary Reading	3 SCH
RDNG 4653	Foundations of Reading Instruction	3 SCH
RDNG 4673	Clinical and Laboratory Reading	3 SCH
BIOL 1111*	College Biology Lab	1 SCH
PHSC 1121*	Physical Science Survey	1 SCH
HUPF 1151	Low Organized Games	1 SCH

**Professional Education Requirements (4-8) Social Studies..... 18 SCH**

CUIN 3003^	Educational Foundations	3 SCH
CUIN 3013^	Educational Psychology	3 SCH
CUIN 4103^	Instructional Planning and Assessment	3 SCH
CUIN 4113^	Instructional Methods and Classroom Management	3 SCH
CUIN 4416^^	Advised Student Teaching	6 SCH

\* Labs must correspond to the 6 hours of science taken in the University Core.

^ Candidates must have been accepted into the Teacher Education Program before taking professional education (CUIN) courses.

^^Candidates must be admitted to the Student Teaching Program before registering for student teaching courses.

**GRAND TOTAL..... 121 SCH**

FRESHMAN YEAR					
First Semester		Hours	Second Semester		Hours
ENGL 1123	Freshman Composition I	3	ENGL 1133	Freshman Composition II	3
HIST 1313	U.S. to 1876	3	HIST 1323	U.S. 1876 to Present	3
MATH 1113	College Algebra	3	SPCH 1003	Fund of Speech Comm.	3
BIOL 1113	College Biology	3	MATH 2163	Structure	3
BIOL 1111	College Biology Lab	1	PHSC 1123	Physical Science Survey	3
COMP 1003	Intro to Computer Ed	3	PHSC 1121	Physical Science Lab	1
HUPF	Elective	1	HUPF 1151	Low Organized Games	1
Total		17	Total		17
MATH 1113	College Algebra	3	COMM 1003	Fund of Speech Comm.	3
ARTS 1203	Intro. to Visual Arts	3			
ARTS 1203	Intro to Visual Arts	3	BIOL 1113	College Biology	3
COMP 1003	Intro to Computer Ed	3	BIOL 1111	College Biology Lab	1
HUPF	Low Organized Games Elective	1	SOCG 1013	General Sociology	3
Total		16	Total		16
SOPHOMORE YEAR					
First Semester		Hours	Second Semester		Hours
ENGL 2153	Introduction to Lit	3	ENGL 2143	Advanced Composition	3
POSC 1113	American Government I	3	POSC 1123	American Government II	3
ARTS 1203	Intro to Visual Arts	3	DRAM 1103	Introduction to Theatre	3
BIOL 1034	Botany	4	HIST 1333	History of Texas	3
HLTH 2003	Personal Health	3	SOCG 1013	General Sociology	3
HUPF	Electives	2	POSC 2113	Political Parties	3
Total		18	Total		18
JUNIOR YEAR					
First Semester		Hours	Second Semester		Hours
MATH 2003	Elementary Statistics	3	HIST 1333	History of Texas	3
PHSC 1123	Physical Science Survey I	3	SOCG 1013	General Sociology	3
PHSC 1121	Physical Science Survey	1			
HIST 1333	History of Texas	3	POSC 2113	Political Parties	3
POSC 1113	American Govt. I	3	MATH 2163	Structure of Numbers Sys.	3
			RDNG 3603	Evaluation of Reading Performance	3
				Prin. Of Microeconomics	3
			ECON 2113		
Total		18	Total		18

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JUNIOR YEAR					
First Semester		Hours	Second Semester		Hours
HIST 3923	Historical Methods	3	MATH 2003	Elementary Statistics	3
GEOG 3723	World Regional Geog.	3	CUIN 3013	Educational Psychology	3
POSC 3513	Comparative Politics	3	CUIN 3003	Education Foundations	3
RDNG 3643	Eval Methods of Teach Elementary Reading	3	GEOG 3713	Geography of Texas	3
	Linguistics In Reading Instruction		RDNG 4673	Clinical & Lab Reading Foreign Relations	3
RDNG 3623	Perf	3	HIST 4313		3
SPED 3003	Intro to Ex Child	3	HIST 4313	Foreign Relations	3
Total		18	Total		18
SENIOR YEAR					
First Semester		Hours	Second Semester		Hours
HIST 4513	Europe	3	CUIN 4416	Advised Student Teach	6
RDNG 4633	Dev Reading	3			
CUIN 4103	Instr Plan and Assess	3			
CUIN 4113	Inst Meth & Clssrm Mgt	3			
POSC 4123	Const and Private Rights	3			
Total		15	Total		6
			Grand Total		120

Special Education (EC-12) All Level and Generalist (EC-4) Certification

University Core Curriculum .....	42 SCH
College of Education Requirements .....	9 SCH

Special Education (EC-12) All Level and Generalist (EC-4) Requirements.21 SCH

PHSC 4014	Earth Science	4 SCH
MATH 2183	Informal Geometry	3 SCH
ENGL 3233	American Literature I	3 SCH
ENGL 3053	Survey of Afro-American Literature I	3 SCH
MUSC 1313	Music in Contemporary Life	3 SCH
ARTS 2283	Afro-American Art	3 SCH
SPED 3003	Introduction to Exceptional Children	3 SCH
SPED 3013	Psychology of Retardation	3 SCH
SPED 4003	Psychology of Behavioral Disorders	3 SCH
SPED 4013	Language & Communication Problems	3 SCH
SPED 4023	Psychology for Exceptional Children and Youth.	3 SCH
SPED 4033	Consultation	3 SCH
SPED 4123	Practicum	3 SCH
HUSC 3373	Child Development	3 SCH
RDNG 4653	Foundation of Reading Instruction	3 SCH

Professional Education Requirements Special Education (EC-12)

<b>All Level and Generalist (EC-4) .....</b>		<b>24 SCH</b>
RDNG 3643	Methods of Teaching Elementary Reading	3 SCH
SPED 4113	Methods for Teaching Exceptional	

	Children	3 SCH
SPED 4123	Practicum	3 SCH
<b>Interdisciplinary Major Requirements.....</b>		<b>39 SCH</b>
PHSC 2123	Physical Science II	3 SCH
PHSC 3083	Science of Everyday Things	3 SCH
MATH 2163	Structure of Number Systems	3 SCH
MATH 3003	Math in Elementary School	3 SCH
ENGL 3043	Professional Writing for Electronic Media	3 SCH
SPED 3003	Introduction to Exceptional Children	3 SCH
RDNG 3603	Evaluation of Reading Performance	3 SCH
RDNG 3623	Linguistics in Reading Instruction	3 SCH
RDNG 3643	Methods of Teaching Elementary Reading	3 SCH
RDNG 4643	Children's Literature	3 SCH
RDNG 4653	Foundations of Reading Instruction	3 SCH
RDNG 4673	Clinical and Laboratory Reading	3 SCH
BIOL 1111	*College Biology Lab	1 SCH
PHSC 1121	*Physical Science Survey Lab	1 SCH
HUPF 1151	Low Organized Games	1 SCH
<b>Professional Education Requirements Special Education (EC-12)</b>		
<b>All Level.....</b>		<b>18 SCH</b>
CUIN 3003	^Educational Foundations	3 SCH
CUIN 3013	^Educational Psychology	3 SCH
CUIN 4103	^Instructional Planning and Assessment	3 SCH
CUIN 4113	^Instructional Methods and Classroom Management	3 SCH
CUIN 4403	^Student Teaching/Elementary I	3 SCH
CUIN 4443	^Student Teaching/Special Education	3 SCH
* Labs must correspond to the 6 hours of science taken in the University Core.		
^ Candidates must have been accepted into the Teacher Education Program before taking professional education (CUIN) courses.		
^^Candidates must be admitted to the Student Teaching Program before registering for student teaching courses.		
<b>GRAND TOTAL.....</b>		<b>120 SCH</b>

*Curriculum and Instruction Programs and Degree Plans*

<b>FRESHMAN YEAR</b>					
<b>First Semester</b>		<b>Hours</b>	<b>Second Semester</b>		<b>Hours</b>
ENGL 1123	Freshman Composition I	3	ENGL 1133	Freshman Composition II	3
POSC 1113	American Government I	3	POSC 1123	American Government II	
			COMM 1003	Fund of Speech Comm.	3
			BIOL 1113	College Biology I	3
			BIOL 1111	College Biology I Lab	1
			SOCG 1013	General Sociology	3
COMP 1003	Intro to Computer Ed	3	HIST 1313	U.S. to 1876 History of Texas	3
			HIST1333	Fund. Of Speech Comm.	3
			COMM 1003		
HUPF 1151	Low Organized Games	1	BIOL 1113	College Biology I	3
HIST 1333	U.S. to 1876	3	BIOL 1111	College Biology I Lab	1
MATH 1113	College Algebra	3		General Sociology	
ARTS 1203	Intro to Visual Arts Elective	3	SOCG 1013		3
<b>Total</b>		<b>16</b>	<b>Total</b>		<b>16</b>
<b>SOPHOMORE YEAR</b>					
<b>First Semester</b>		<b>Hours</b>	<b>Second Semester</b>		<b>Hours</b>
ENGL 2153	Introduction to Lit	3	MATH 2183	Informal Geometry	3
ENGL 2153	Intro. to Lit.	3	ARTS 2283	Afro-	3
POSC 1113	American Gov I	3		Intro to Exceptional	
PHSC 1123	Physical Science Survey I	3	SPED 3003	Children	3
			POSC 1123	American Art Gov II	
PHSC 1121	Physical Science Survey I Lab	1	PHSC 2123	Physical Science II	3
			MATH 2163	Structure of Number Systems	3
ENGL 3043	Prof Writing for Electronic Media	3	GEOG 3723	World Regional Geography	
RDNG 3603	Evaluation of Reading Perf.	3		Linguistics in Reading Inst.	3
			GEOG 3723	World Regional Geo.	3
RDNG 3603	Evaluation of Reading Perf	3	HUPF	Elective	1
<b>Total</b>		<b>16</b>	<b>Total</b>		<b>18</b>

## Curriculum and Instruction Programs and Degree Plans

		<b>JUNIOR YEAR</b>			
<b>First Semester</b>		<b>Hours</b>	<b>Second Semester</b>		<b>Hours</b>
HUPF	Elective	1	SPED 4023	Educational Psych. For Excep. Children	3
SPED 3013	Psych of Retardation	3			
	Psych of Behavior		PHSC 3083	Science of Everyday Things	3
SPED 4003	Disorders	3			
	Math in Elementary School		CUIN 3003	Ed. Foundations Ed. Psychology	3
MATH 3003	Language & Comm. Problems	3	CUIN 3013	Foundations of Reading Instr.	3
			RDNG 4653		
SPED 4013	Methods of Teaching Elem Reading	3	RDNG 4673	Clinical and Lab Reading	3
RDNG 3643	Children's Literature	3			
RDNG 4643		3			
<b>Total</b>		<b>18</b>	<b>Total</b>		<b>15</b>
		<b>SENIOR YEAR</b>			
<b>First Semester</b>		<b>Hours</b>	<b>Second Semester</b>		<b>Hours</b>
CUIN 4103	Instr Plan and Assess	3		Inst Meth &Clsrm Mgt	
	Inst. Meth Classrm Mgt.			Stud Teach/Elem I	
CUIN 4113	Consultation	3	CUIN 41134403	Stud Teach/Special Ed	3
					3
SPED 4033	Meth for Teaching	3	CUIN 4433		
SPED 4113	Excep. Children Practicum	3			
SPED 4123		3			
<b>Total</b>		<b>15</b>	<b>Total</b>		<b>15</b>
CUIN 4403	Stud Teach/Elem I	3			
			<b>Grand Total</b>		<b>120</b>

## VOCATIONAL CERTIFICATION

The Vocational Certification requires a minimum of 48 semester hours in a teaching field. The available teaching fields and the courses required in the field are as follows:

<b>Agriculture (Production)</b>	<b>48 SCH</b>
AGEC 1233 Fundamentals of Agricultural Economics or	3 SCH
AGEC 2213 Marketing Agricultural Products	3 SCH
AGEG 1413 Fundamentals of Agricultural Mechanics	3 SCH
AGEG 2423 Agricultural Machinery	3 SCH
AGEG 3413 Agriculture and the Environment or	3 SCH
AGEG 4423 Water Management/Irrigation Systems	3 SCH
AGHR 1313 Agriculture Science and Technology	3 SCH
AGHR 3323 Program Planning	3 SCH
AGHR 4413 Special Topics	3 SCH
AGRO 1703 Crop Science	3 SCH
AGRO 2603 Environmental Soil Science	3 SCH
AGRO 3633 Soil Fertility/Fertilizers	3 SCH
AGRO 3713 General Entomology	3 SCH
ANSC 1513 General Animal Science	3 SCH
ANSC 2523 Poultry Science or	3 SCH
ANSC 2553 Poultry Technology and Marketing	3 SCH

ANSC 3503 Animal Nutrition .....	3 SCH
ANSC 3513 Anatomy and Physiology .....	3 SCH
ANSC 3523 Meat Science .....	3 SCH
<b>Family and Consumer Sciences (Home Economics) .....</b>	<b>48 SCH</b>
HDFM 2533 The Contemporary Family .....	3 SCH
HDFM 2553 Human Development Lifespan .....	3 SCH
HDFM 3513 Individual Family Counseling or .....	3 SCH
HDFM 3503 Early Childhood Environments or	
HUSC 3373 Child Development	
HUNF 2633 Principles of Food Service Systems .....	3 SCH
HUNF 2653 Food Principles and Meal Management .....	3 SCH
HUNF 3633 Advanced Nutrition .....	3 SCH
HUSC 1303 Elementary Textiles.....	3 SCH
HUSC 1313 Color and Design or .....	3 SCH
DESN 1123 Design II	
HUSC 1333 Apparel Selection and Production .....	3 SCH
HUSC 1343 Ecology of Human Nutrition and Food .....	3 SCH
HUSC 2373 Consumers and the Market .....	3 SCH
HUSC 3313 Program Planning I.....	3 SCH
HUSC 3323 Program Planning II .....	3 SCH
HUSC 3343 Advanced Apparel Production or .....	3 SCH
AGHR 4413 Special Topics	
HUSC 3353 Housing and Human Environments.....	3 SCH
HUSC 4303 Family Consumer Economics and Management .....	3 SCH

**CAREER AND TECHNOLOGY EDUCATION PROGRAM**

The Career and Technology Education Program is organized to: (1) meet the growing educational demands of persons who wish to teach Trade and Industrial (T&I) courses in the public schools of Texas, (2) to ascertain the eligibility of prospective teachers to be certified in a specific Trade and Industrial teaching area, and (3) to offer courses that enable teachers to meet certification requirements as stipulated by the Master Plan for Vocational Education.

**CAREER AND TECHNOLOGY EDUCATION CERTIFICATION PROGRAM**

This program meets Texas Educational Agency requirements for the certification of Career and Technology

Education T&I teachers. Persons enrolled in this program must have met prerequisite wage earning experience and must teach two years on an emergency permit in a secondary Career and Technology Education school program before certification can be granted.

**Program course requirements are:**

VOED 4103 Instructional Materials	3 SCH
VOED 4203 Instructional Methods	3 SCH
VOED 4303 Class Organization/Management	3 SCH
VOED 4403 Course-making	3 SCH
VOED 4603 Aims and Objectives	3 SCH
VOED 4803 Human Relations	3 SCH

**Total ..... 18 SCH**



## ***Department of Health and Human Performance***

### **ADMINISTRATIVE OFFICER**

Albert Johnson, *Interim Department Head*

### **FACULTY**

Alvin Blake, *Health and Human Performance*

Angela Branch-Vital, *Health*

Christopher Clay, *Health and Human Performance*

Douglas M. Fowlkes, *Human Performance*

Queen E. Martin, *Health*

Danyale C. Taylor, *Dance*

Angela Williams-Weaver, *Health and Human Performance*

Marsha Kay Wilson, *Health*

### **PURPOSE AND GOALS**

### **MISSION STATEMENT**

The mission of the Department of Health and Human Performance are:

1. To introduce every student to the potential benefits of a well-defined exercise program and to provide planned experiences that will result in knowledge about the value of physical activities, essential motor skill development, stamina, strength and those social qualities that will last a life time.
2. To provide a broad base of knowledge which will enable a student to specialize or adapt to a variety of career opportunities which include: preparation for teaching and/or coaching at the elementary or secondary levels; preparation for graduate study produces productive professionals in health, health promotion, human performance and/or allied health therapeutic sciences; preparation for athletic training; preparation for recreational and/or community service programs; and preparation for professional health and wellness activities at the local, state and national levels by providing a challenging and innovative academic environment.

### **SPECIAL EMPHASIS OPTIONS**

Emphasis options are available in

#### **VISION**

The vision of the Department of Health-Community Focus and Human Performance all-level certification programs. The program also provides options is to serve as a leading and competitive Department that incorporates a holistic approach to health and wellness through cultivating candidates in education, research and service to enhance overall quality of life for Red Cross Certification diverse populations.

## **PROGRAM PURPOSE**

The department is uniquely situated to ensure that candidates understand and practice healthy lifestyles in Water Safety Instruction, Athletic Training and Community order to effectively deliver service to underserved communities. All university candidates are recommended to participate in courses offered by the Department of Health Specialty areas and Human Performance. Candidates are exposed to rigorous programs focusing on improving overall quality of life. The learning environment is structured to provide a solid foundation for research in rural, urban, and suburban issues affecting health, wellness, and physical fitness. In addition, the program offers health and fitness activity classes to every Prairie View A&M student for physical activity participation opportunities.

## **PROFESSIONAL AND SERVICE ORGANIZATIONS**

*Panther Association for Health, Physical Education, Recreation and Dance (PAHPERD)* is open to all majors and minors in the department. A grade point average of 2.0 or higher is required for membership. All Health and Human Performance majors are expected to participate in PAHPERD.

*Texas Association For Health, Physical Education, Recreation and Dance (TAHPERD)* is the professional organization for the State of Texas which supports the fields of Health, Human Performance, and Dance.

*American Alliance For Health, Physical Education Recreation, and Dance (AAHPERD)* is an educational organization at the national level that is structured for the purposes of supporting, encouraging, and providing assistance to member groups and their personnel throughout the nation as they seek to initiate, develop, and conduct programs in health, leisure, and movement-related activities for the enrichment of human life.

*National Association of Sport and Physical Education (NASPE)* is a division of AAHPERD which controls the quality of Physical Education and Sport by is enhancing knowledge, improving professional practice, and increasing support for high quality physical education, sport, and physical activity programs.

*American Association of Health Educators (AAHE)* is a division of AAHPERD which controls the quality of Health Education programs by advancing the profession by serving health educators and others who strive to promote the health of all people through education and other systematic strategies.

*The American College of Sports Medicine (ACSM)* is the driving professional organization in the Sports Sciences. ACSM promotes and integrates scientific research, education, and practical applications of sports medicine and exercise science to maintain and enhance physical performance, fitness, health, and quality of life.

*The National Commission for Health Education Credentialing (NCHEC)* strives to enhance the professional practice of Health Education by promoting and sustaining a

credentialed body of Health Education Specialists. To meet this mission, NCHEC certifies health education specialists, promotes professional development, and strengthens professional preparation and practice.

*The American Council on Exercise (ACE)* is a nonprofit organization committed to enriching quality of life through safe and effective exercise and physical activity. As America's Authority on Fitness, ACE protects all segments of society against ineffective fitness products, programs and trends through its ongoing public education, outreach and research. ACE further protects the public by setting certification and continuing education standards for fitness professionals.

## **ACADEMIC STANDARDS AND ACADEMIC PROGRESS**

### **Program Admittance**

Students choosing to enroll within the Health and Human Performance Department, as a major and/or a minor, must submit a current Criminal History Background Check, a current transcript indicating a 2.25 cumulative GPA, a career statement, a resume, and complete a Pretest within the intended program area of study. Department Head approval for program admittance will not occur unless these four areas have been successfully met.

Students majoring in Health and Human Performance must meet all University and College of Education standards. Additionally, students must also complete all English Composition, Mathematics, and minor course work outside of the University Core, to be counted towards the 120 SCH degree, with a grade of "C" or better.

## **REQUIREMENTS OF UNIFORM APPAREL**

Students enrolled in activity classes are required to purchase and to wear special physical education uniforms in compliance with departmental standards. Regulation gymnasium shoes are also required. Students enrolled in swimming must wear swimming suits and swimming caps recommended by the department. All required apparel is available for purchase in the University Exchange.

## **BACHELOR OF SCIENCE IN HEALTH AND HUMAN PERFORMANCE PROGRAM REQUIREMENTS**

**Core Curriculum/General Education Requirements..... 62 or 63 SCH  
(Depending on major concentration)**

### **All Degrees Offered**

**The Department of Health and Human Performance offer the following two degree programs with four distinct programs.**

**Professional Development .....18 SCH**

*Health and Human Performance Programs and Degree Plans*

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CUIN 3003, 3013, 4103, 4113, 4403, 4813

**Professional Development .....18 SCH**

CUIN 3003, 3013, 4103, 4113, 4403, 4813

Non-Teaching requires 18 hours of Electives to take the place of Professional Development courses. The degree programs and related areas of the 18 hours of Professional Development coursework concentration are as follows:

Bachelor of Science in Human Performance Major All-Level Certification

The All-Level Certification program requires 59 semester hours in Human Performance. Included in this program are courses designed for both the elementary and secondary education levels.

HUPF 1012, 1041, 1082, 1112, 1151, 1172, 1261, 1272, 1301, 1312, 1412..... 18 SCH

HUPF 2022, 2043, 2052, 2063 ..... 10 SCH

HUPF 3023, 3033, 3053, 3063, 3083 ..... 15 SCH

HUPF 4033, 4042, 4053, 4062, 4073, 4083..... 16 SCH

**Total program semester hours for All-Level Certification .....59 SCH**

**Total Degree Requirements .....121 SCH**

**Health Minor**

HLTH 2003, 2023 ..... 6 SCH

HLTH 3013, 3043..... 6 SCH

HLTH 4063, 4073..... 6 SCH

**Total Minor Requirements.....18 SCH**

**Human Performance Minor**

HUPF 1082, 1172 ..... 4 SCH

HUPF 2043 ..... 3 SCH

HUPF 3063 ..... 3 SCH

HUPF 4053, 4062, 4073 ..... 8 SCH

**Total Minor Requirements.....18 SCH**

**Dance Minor**

HUPF 1031, 1041, 1051, 1171, 1191, 1261..... 6 SCH

MUSC 1313, ARTS 1203, DRAM 1323 ..... 9 SCH

HUPF 2011, 2021, 2022, 2061, 2071, 2151..... 7 SCH

HUPF 4042, 4991 (Performance), 4991 (Choreography)..... 4 SCH

**Total Minor Requirements.....26 SCH**

**HEALTH**

**University Core - HUPF Option .....44 SCH**

**Professional Development .....18 SCH**

CUIN 3003, 3013, 4103, 4113, 4403, 4813

<b>Health Major .....</b>	<b>56 SCH</b>
HLTH 1023,1063, 2003, 2023,2033 .....	15 SCH
HLTH 3003,3013, 3033, 3043,3053,3093 .....	18 SCH
HLTH 4063,4073, 4083 .....	9 SCH
HUPF 1131, 1211 .....	2 SCH
HUPF 2023 .....	3 SCH
HUPF 4033, 4053, 4083 .....	9 SCH

<b>Support Requirements.....</b>	<b>3 SCH</b>
PSYC 3533 .....	3 SCH

<b>Minor .....</b>	<b>18-26 SCH</b>
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<b>Total Degree Requirements .....</b>	<b>121 SCH</b>
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## **HEALTH - COMMUNITY CONCENTRATION**

Professional students who seek a baccalaureate degree in Health with a concentration in Community Health are expected to complete the mandatory health curriculum. The concentration area of Community Health is primarily for those students who are interested in community/public health education or working in various health care settings such as hospitals, public and private health facilities, wellness and education agencies, community based organizations and corporate health promotion programs. An internship is required during the senior year.

## **INTERNSHIP/PRACTICUM IN HEALTH AND HUMAN PERFORMANCE**

- The internship is an integral part of the instructional program in the Health, Physical Education, and Community Health curriculum. The experience is designed to enhance the understanding and application of knowledge and research findings to public health and wellness or physical fitness settings by providing an (EC-12)
- Professional (non-teacher track)

## **Bachelor of Science in Health**

- Health Education (EC-12)
- Professional (non-teacher track)

**Student Outcomes**

All degrees within the Department of Health and Human Performance prepare students for various professional preparations in accordance with each degree’s curriculum. The Department offers candidates the opportunity to gain practical experience, at an appropriate level and content, in the Community/Public Health field. All students in the Health and obtain certifications in four areas to further career aspirations. Even though these outcomes are not required for degree completion, they are highly encouraged for each candidate to effectively compete in the current job market.

1. *Bachelor of Science in Human Performance:* EC-12 Physical Education/Community Focus area Teacher Certification- Courses are aligned with NASPE/NCATE and TExES Standards in preparation for becoming an EC-12 Physical Education Teacher.
2. *Bachelor of Science in Human Performance:* Professional (non teacher track) Courses are aligned with ACE Standards in preparation for the Personal Training Certification Exam.
3. *Bachelor of Science in Health:* EC-12 Health Education Teacher Certification- Courses are aligned with AAHE/NCATE and TExES Standards in preparation for becoming an EC-12 Health Education.
4. *Bachelor of Science in Health:* Professional (non teacher track) Courses are aligned with NCHEC Standards in preparation for the Certified Health Education Specialist (CHES) Exam.

**BACHELOR OF SCIENCE IN HUMAN PERFORMANCE  
Concentration: EC-12 PHYSICAL EDUCATION TEACHER  
PROGRAM REQUIREMENTS (120 TOTAL HOURS)**

**Core Curriculum/General University Education Requirements ..... (44 SCH)**

**Academic Specialty ..... (58 SCH)**

HUPF 1012	Sport Skills I	2 SCH
HUPF 1112	Sport Skills II	2 SCH
HUPF 1121	Conditioning and Self-Analysis	1 SCH
HUPF 1151	Low Organized Games	1 SCH
HUPF 1172	Foundations I	2 SCH
HUPF 1211	Aerobic Activities	1 SCH
HUPF 1272	Foundations II	2 SCH
HUPF 1301	Weight Training	1 SCH
HLTH 2003	Health and Wellness	3 SCH
HUPF 2022	Fundamentals of Dance	2 SCH
HUPF 2023	First Aid, Safety, and CPR	3 SCH
HUPF 2043	Coaching Team and Individual Sports	3 SCH
HUPF 2052	Theory and Practice of Intramural Sports	2 SCH
HUPF 2053	Recreation for the Aged	3 SCH
HUPF 2063	Outdoor Performance Activities	3 SCH
HUPF 3012	Fundamentals of Basic Movement	2 SCH
HUPF 3023	Applied Anatomy and Kinesiology	3 SCH
HUPF 3033	Movement Activities: Elementary	3 SCH
HUPF 3053	Theory and Practice of Officiating	3 SCH
HUPF 3063	Theory and Practice of Coaching	3 SCH

HUPF 4033	Measurement and Evaluation	3 SCH
HUPF 4042	Athletic Injuries and CPR	2 SCH
HUPF 4062	Correctives	2 SCH
HUPF 4073	Physical Education: Secondary	3 SCH
HUPF 4083	Administration and Management	3 SCH

**Pedagogy (18 SCH)**

CUIN 3003	Educational Foundations	3 SCH
CUIN 3013	Educational Psychology	3 SCH
CUIN 4003	Instructional Planning/Assessment	3 SCH
CUIN 4013	Instructional Methods and Management	3 SCH
CUIN 4403	Student Teaching/Elementary	3 SCH
CUIN 4813	Student Teaching/Secondary	3 SCH

**TExES Requirements**

Candidates are directed to the College of Education's processes for successful completion of the Texas Examination of Teacher Education Standards (TExES).

**BACHELOR OF SCIENCE IN HUMAN PERFORMANCE**  
**Concentration: PROFESSIONAL NON-TEACHING**  
**PROGRAM REQUIREMENTS (120 TOTAL HOURS)**

**Core Curriculum/General University Education Requirements (44 SCH)**

**Academic Specialty (64 SCH)**

HUPF 1012	Sport Skills I	2 SCH
HUPF 1112	Sport Skills II	2 SCH
HUPF 1121	Conditioning and Self-Analysis	1 SCH
HUPF 1131	Physical Fitness	1 SCH
HUPF 1151	Low Organized Games	1 SCH
HUPF 1172	Foundations I	2 SCH
HUPF 1211	Aerobic Activities	1 SCH
HUPF 1272	Foundations II	2 SCH
HUPF 1301	Weight Training	1 SCH
HLTH 2003	Health and Wellness	3 SCH
HUPF 2022	Fundamentals of Dance	2 SCH
HUPF 2023	First Aid, Safety, and CPR	3 SCH
HUPF 2043	Coaching Team and Individual Sports	3 SCH
HUPF 2052	Theory and Practice of Intramural Sports	2 SCH
HUPF 2053	Recreation for the Aged	3 SCH
HUPF 2063	Outdoor Performance Activities	3 SCH
HUPF 3012	Fundamentals of Basic Movement	2 SCH
HUPF 3023	Applied Anatomy and Kinesiology	3 SCH
HUPF 3033	Movement Activities: Elementary	3 SCH
HUPF 3053	Theory and Practice of Officiating	3 SCH
HUPF 3063	Theory and Practice of Coaching	3 SCH
HUPF 4032	Advanced Athletic Injuries	2 SCH
HUPF 4033	Measurement and Evaluation	3 SCH
HUPF 4042	Athletic Injuries and CPR	2 SCH
HUPF 4053	Special Topics in Health and Human Performance	3 SCH

HUPF 4062	Correctives	2 SCH
HUPF 4073	Physical Education: Secondary	3 SCH
HUPF 4083	Administration and Management	3 SCH
<b>Internship Block</b>		<b>(12 SCH)</b>
HUPF 4093	Practicum in Athletic Training	3 SCH
HUPF 4196	Internship in Health and Human Performance	6 SCH
HUPF 4993	Independent Study in Human Performance	3 SCH

### **Internship**

Candidates under the Bachelor of Science in Health: Professional Non-Teaching must successfully complete their final semester (12 hours) with the following courses: HUPF 4093, HUPF 4993, and HUPF 4196. All students in the Internship Program are required to complete a minimum of two hundred hours of a supervised internship/practicum experience. Further information regarding the internship/practicum will be provided by the Department of Health and Human Performance upon matriculation.

### **Health Major with a Community Focus ACE Personal Training Certification**

Candidates are directed to the American Council on Exercise's program for the Personal Training Certification.

## **BACHELOR OF SCIENCE IN HEALTH Concentration: EC-12 HEALTH EDUCATION TEACHER PROGRAM REQUIREMENTS (120 TOTAL HOURS)**

### **Core Curriculum/General University Education Requirements..... (44 SCH)**

All Health and Human Performance Core Curriculum requirements are shown in the suggested degree program.

### **Professional Development ..... 18 SCH**

### **CUIN 3003, 3013, 4003, 4013, 4826 ..... 18 SCH**

(Non-teaching course work requires either 16 or 18 hours of electives depending on major concentration)

### **Health Major – Common Core**

### **Academic Specialty ..... (58 SCH)**

CURR 1013	Effective Learning	3 SCH
HLTH 1023,	Human Sexuality	3 SCH
HLTH 1063; HUPF 1172 or 1272		8 SCH
HLTH 2003, 2023, 2033; HUPF 2023		12 SCH
HLTH 3003, 3013, 3033, 3043, 3093		15 SCH
HLTH 3053 or 4063 or 4073 (choose two); HUPF 4053		9 SCH
Health Major requires additional electives		13 SCH

### **Total Common Core Requirements ..... 57 SCH**

### **Total Degree Requirements ..... 120 SCH**



Environmental Health Major - Community Focus		
HUPF 1121	Conditioning and Self-Analysis	1 SCH
HUPF 1211	Aerobic Activities	1 SCH
HUSC 1343	Ecology of Human Nutrition	3 SCH
HLTH 2003, 2023, 2033; HUPF 2023		12 SCH
HLTH 3003, 3013, 3033, 3043, 3053, 3093		18 SCH

**Total Community Focus Requirements ..... 58 SCH**

**Total Degree Requirements ..... 120 SCH**

Health Minor with a Non-Human Performance Major and Wellness		3 SCH
HLTH 1023	Communicable and Non-communicable Diseases	3 SCH
HLTH 2003	Aging, Death, and Dying	3 SCH
HLTH 3003	Health Education for Elementary School	3 SCH
SPED 3003	Introduction to Exceptional Children	3 SCH
HLTH 3013	Nutrition	3 SCH
HLTH 3033	Research and Contemporary Issues in Health	3 SCH
HLTH 3043	Consumer Health	3 SCH
HLTH 3053	Public and Community Health	3 SCH
HLTH 3093	Drugs and Health	3 SCH
HUPF 4033	Measurement and Evaluation	3 SCH
HUPF 4062	Correctives	2 SCH
HLTH 4063	Health and Communities	3 SCH

**Total Minor Requirements..... 33 SCH**

### **Health Minor with a Human Performance Major**

HLTH 4073	Community Health Planning and Assessment	3 SCH
HLTH 4083	Problem Solving and Evaluation	3 SCH

**Pedagogy ..... (18 SCH)**

CUIN 3003	Educational Foundations	3 SCH
CUIN 3013	Educational Psychology	3 SCH
CUIN 4003	Instructional Planning/Assessment	3 SCH
CUIN 4013	Instructional Methods and Management	3 SCH
CUIN 4403	Student Teaching/Elementary	3 SCH
CUIN 4813	Student Teaching/Secondary	3 SCH

### **TExES Requirements**

Candidates are directed to the College of Education's processes for successful completion of the Texas Examination of Teacher Education Standards (TExES).

## **BACHELOR OF SCIENCE IN HEALTH Concentration: PROFESSIONAL NON-TEACHING PROGRAM REQUIREMENTS (120 TOTAL HOURS)**

**Core Curriculum/General University Education Requirements (44 SCH)**

**Academic Specialty ..... (46 SCH)**

HLTH 1023	Human Sexuality	3 SCH
HLTH 1063	Environmental Health	3 SCH

**Total Minor Requirements..... 29 SCH**

HUPF 1121	Conditioning and Self-Analysis	1 SCH
HUSC 1343	Ecology of Human Nutrition	3 SCH
HLTH 2003	Health and Wellness	3 SCH
HLTH 2023	Communicable and Non-communicable Diseases	3 SCH
HLTH 2033	Aging, Death, and Dying	3 SCH
HLTH 3013	Nutrition	3 SCH
HLTH 3033	Research and Contemporary Issues in Health	3 SCH
HLTH 3043	Consumer Health	3 SCH
HLTH 3053	Public and Community Health	3 SCH
HLTH 3093	Drugs and Health	3 SCH
HUPF 4033	Measurement and Evaluation	3 SCH
HUPF 4053	Special Topics in Health and Human Performance	3 SCH
HLTH 4063	Health and Communities	3 SCH
HLTH 4073	Community Health Planning and Assessment	3 SCH

**Professional Responsibility ..... (18 SCH)**

MGMT 1013	Introduction to Business	3 SCH
ENGL 1143	Technical Writing	3 SCH
ECON 2123	Principles of Microeconomics	3 SCH
MGMT 2203	Leadership and Ethics	3 SCH
MATH 2003	Elementary Statistics	3 SCH
SOWK 2113	Introduction to Social Work	3 SCH

**Internship Block..... (12 SCH)**

HLTH 4083	Problem Solving and Evaluation	3 SCH
HUPF 4196	Internship in Health and Human Performance	6 SCH
HLTH 4993	Independent Study in Health	3 SCH

## **Internship**

Candidates under the Bachelor of Science in Health: Professional Non-Teaching must successfully complete their final semester (12 hours) with the following courses: HLTH 4083, HLTH 4993, and HUPF 4196. All students in the Internship Program are required to complete a minimum of 144 hours of a supervised internship. Further information regarding the internship will be provided by the Department of Health and Human Performance upon matriculation.

## **CHES Certification**

Candidates are directed to the National Commission for Health Education Credentialing program for Certified Health Education Specialist Exam (CHES).

## **PHYSICAL ACTIVITY PROGRAM**

The goal of this program is to help students develop a lifetime appreciation and commitment to physical activity. These courses are available to any PVAMU student. The courses are designed to offer health and fitness activity classes/opportunities to every PVAMU student.

HUPF 1031	Modern Dance	1 SCH
HUPF 1041	Folk and Ballroom Dance	1 SCH
HUPF 1051	Tap Dance	1 SCH
HUPF 1081	Golf	1 SCH
HUPF 1091	Badminton	1 SCH
HUPF 1101	Basketball and Volleyball	1 SCH
HUPF 1111	Flag and Touch Football	1 SCH
HUPF 1121	Conditioning and Self Analysis	1 SCH
HUPF 1131	Physical Fitness	1 SCH
HUPF 1141	Personal Defense Activities	1 SCH
HUPF 1151	Low Organized Games	1 SCH
HUPF 1171	Modern Jazz	1 SCH
HUPF 1181	Soccer and Field Hockey	1 SCH
HUPF 1191	Ballet	1 SCH
HUPF 1211	Aerobic Activities	1 SCH
HUPF 1221	Jogging and Track and Field Activities	1 SCH
HUPF 1241	Racquetball	1 SCH
HUPF 1261	Body Mechanics and Rhythmic Activities	1 SCH
HUPF 1271	Cycling	1 SCH
HUPF 1281	Tennis	1 SCH
HUPF 1301	Weight Training	1 SCH
HUPF 1401	Restricted Movement	1 SCH

## **ACADEMIC MINORS**

The Department of Health and Human Performance will recognize academic minors within the following three areas. Students who choose to Minor in Health, Human Performance, or Dance must complete all courses counted towards the Minor with a grade of “C” or better.

1. Human Performance: 18 hours of HUPF courses 1000-4999
2. Health: 18 hours of HLTH courses 1000-4999
3. Dance: 18 hours of courses coordinated through the Dance Program

## SUGGESTED HUMAN PERFORMANCE ALL LEVEL CERTIFICATION DEGREE PROGRAM SEQUENCE

FRESHMAN YEAR					
First Semester		Hours	Second Semester		Hours
ENGL 1123	Freshman Composition I	3	ENGL 1133	Freshman Composition II	3
Core HIST	See University Requirements	3	HUPF 1112		2
Core MATH	See University Requirements	3	HUPF 1151	Sport Skills II	1
Core ENGL	See University Requirements	2	HUPF 1272	Organized Games	2
HUPF 1012	See University Requirements	1	HUPF 1211	Foundations I	1
HUPF 1121	See University Requirements		Core HIST	Aerobics Activities	3
			or		
			ENGL 1143		
			HUPF 2022		2
	Sport Skills I			Fundamentals of Dance	
<b>Total</b>		<b>15</b>	<b>Total</b>		<b>17</b>
SOPHOMORE YEAR					
First Semester		Hours	Second Semester		Hours
POSC 1113	American Government I	3	POSC 1123	American Government II	3
HUPF 2052	Theory and	2	COMP 1003	Introduction to	3
	Prac/Intramural Sports			Computer Education	
BIOL 1054	Anatomy and	4	BIOL 1064	Anatomy and	4
	Physiology + Lab			Physiology + Lab	
	Behavioral or Social	3	HUPF 2052	Coaching Indiv Theory	2
	Science Class			and Dual Practice of	
HUPF 1301	Weight Training	1		Intramural Sports	
HUPF 1272	Foundations II	2	Core	See University	3
	Core Humanities	3	Humanities or	Requirements	
	Or		Visual Arts		
	Visual Arts				
<b>Total</b>		<b>16</b>	<b>Total</b>		<b>15</b>
JUNIOR YEAR					
First Semester		Hours	Second Semester		Hours
HLTH 2003	Health Wellness	3	HUPF 3012	Fundamentals of Basic Movement Activities	3
	Kinesiology				
HUPF 2043	Coaching Team Sports	3	HUPF 3023	Applied Anatomy and	3
	Children			Kinesiology Officiating	
HUPF 2023	First Aid, Safety, CPRI	3	HUPF 3033	Movement Activities II	3
HUPF 2053	Recreations for the	3	CUIN 3013	Education Psychology	3
	Aged Performance				
HUPF 2063	Outdoor Performance	3	CUIN 4042	Educational Foundations	2
	Activities Foundations			CPR	
<b>Total</b>		<b>15</b>	<b>Total</b>		<b>14</b>

SENIOR YEAR					
First Semester		Hours	Second Semester		Hours
HUPF 4033	Measurement and Evaluation	3	CUIN 4826	Student Teaching	6
HUPF 4062	Corrective Physical Education	2			
HUPF 4053	Special Topics	3			
HUPF 4083	Admin Mgmt./Human Performance	3			
CUIN 4003	Instructional Planning/Assessment	3			
CUIN 4013	Instructional Method/Class Mgmt.	3			
<b>Total</b>		<b>17</b>	<b>Total</b>		<b>6</b>
			<b>Degree Total</b>		<b>120</b>

### SUGGESTED HEALTH DEGREE PROGRAM SEQUENCE

FRESHMAN YEAR					
First Semester		Hours	Second Semester		Hours
ENGL 1123	Freshman Composition I	3	ENGL 1133 or ENGL 1143	Freshman Composition II	3
HIST 1313	U.S. 1876 to Present or Texas History	3	POSC 1113	Technical Writing American Government I	3
MATH 1113	College Algebra	3	HUPF 1012	Sports Skills I	2
HLTH 1023	Human Sexuality	3	HUPF 1081	Golf I	1
HUPF 1011 or HUPF 1321	Swimming I or Swimming II	1		Behavioral or Social Science Humanities	3
COMM 1003	Fund. of Speech Communication	3			
HUPF 1172 or HUPF 1272	Foundations I or Foundations II	2			
<b>Total</b>		<b>18</b>	<b>Total</b>		<b>15</b>
SOPHOMORE YEAR					
First Semester		Hours	Second Semester		Hours
POSC 1123	American Government II	3	BIOL 1064	Anatomy and Physiology	4
BIOL 1054	Anatomy and Physiology + Lab	4		Visual and Performing Arts	3
HLTH 2003	Health and Wellness	3	COMP 1003	Introduction to Computer Education	3
HLTH 1063	Environmental Health	3	HLTH 2033	Aging, Death & Dying	3
			HUPF 2023	First Aid, Safety & CPR	3
<b>Total</b>		<b>13</b>	<b>Total</b>		<b>16</b>

*Health and Human Performance Programs and Degree Plans*

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JUNIOR YEAR					
First Semester		Hours	Second Semester		Hours
HLTH 3013	Nutrition	3	HLTH 3033	Research/Contemp. Issues in Health	3
HLTH 3003	Health for Children	3	HLTH 3093 HLTH 3053 HLTH 4063 HLTH 4073	Drugs and Health Public/Community Health and/or Health & Communities and/or Community Planning (choose 2 of these 3 classes)	3
HLTH 3043	Consumer Health Electives	3 9	Electives or CUIN 3003 Electives or CUIN 3013	Educational Foundations Educational Psychology	3 3
Total		18	Total		18

SENIOR YEAR					
First Semester		Hours	Second Semester		Hours
Electives or CUIN 4003	Inst. Planning and Assessment	3	Electives or CUIN 4826	Student Teaching	6
Electives or CUIN 4013	Instructional Methods &Classroom Management	3			
		7			
Electives					
Total		13	Total		6
			Degree Total		120

**SUGGESTED HEALTH-COMMUNITY FOCUS DEGREE  
PROGRAM SEQUENCE**

**FRESHMAN YEAR**

First Semester		Hours	Second Semester		Hours
ENGL 1123	Freshman Composition I	3	ENGL 1133 or ENGL 1143	Freshman Composition II	3
HIST 1313	U.S. to 1876	3	POSC 1113	Technical Writing American Government I	3
HIST 1323	U.S. 1876 to Present or				
HIST 1333	Texas History				
MATH 1113	College Algebra	3	HUPF 1012	Sports Skills I	2
HLTH 1023	Human Sexuality	3	HUPF 1081	Golf I	1
COMM 1003	Fund. of Speech Communication	3		Behavioral or Social Science	3
HUPF 1172	Foundations I	2		Humanities	3
or HUPF 1272	Foundations II				
Total		17	Total		15

## *Health and Human Performance Programs and Degree Plans*

### SOPHOMORE YEAR

<b>First Semester</b>		<b>Hours</b>	<b>Second Semester</b>		<b>Hours</b>
POSC 1123	American Government II	3	BIOL 1064	Anatomy and Physiology	4
BIOL 1054	Anatomy and Physiology + Lab	4	COMP 1003	Introduction to Computer Education	3
HLTH 1063	Environmental Health	3	HLTH 2033	Aging, Death & Dying	3
HLTH 2003	Health & Wellness	3	HUPF 2023	First Aid, Safety & CPR	3
HLTH 2023	Communicable/Non-Comm. Diseases	3		Visual and Performing Arts	3
<b>Total</b>		<b>16</b>	<b>Total</b>		<b>16</b>

### JUNIOR YEAR

<b>First Semester</b>		<b>Hours</b>	<b>Second Semester</b>		<b>Hours</b>
HLTH 3003	Health for Children	3	HLTH 3053	Public/Community Health	3
HLTH 3033	Research/Contemporary Issues in Health	3	HLTH 4063	Health & Communities	3
HLTH 3043	Consumer Health	3	HLTH 4073	Community Planning	
Electives or CUIIN 3003	Educational Foundations	3	Electives or CUIIN 3013	Educational Psychology	3
<b>Total</b>		<b>15</b>	<b>Total</b>		<b>18</b>

### SENIOR YEAR

<b>First Semester</b>		<b>Hours</b>	<b>Second Semester</b>		<b>Hours</b>
HLTH 4083	Problem Solving in Comm. Health	3	Electives or CUIIN 4826	Student Teaching	6
HUPF 4042	Athletic Injuries & CPR	2	HUPF 4196		6
HUPF 4053	Special Topics	3			
Electives or CUIIN 4003	Instructional Planning and Assessment	3			
Electives or CUIIN 4013	Instructional Methods & Classroom Management	3			
<b>Total</b>		<b>14</b>	<b>Total</b>		<b>12</b>

## **Roy G. Perry College of Engineering**

### **ADMINISTRATIVE OFFICER**

Kendall T. Harris, *Dean*

### **ADMINISTRATIVE STAFF**

Shield B. Lin, *Associate Dean*

### **PURPOSE AND GOALS**

The modern mission of the Roy G. Perry College of Engineering, in the new millennium, is to sustain an infrastructure that will attract and maintain a world-class faculty that produces graduates with the highest level of professional standards. These graduates will be prepared for a career of life-long learning that will result in leaders, productive workers, innovators and entrepreneurs who will positively impact the increasingly multi-disciplinary and diverse national economy. The College serves as a value added partner within the University to meet the challenge to excel in education and research in engineering, engineering technology, and computer science; and to service and relevance to regional, national, and global communities.

This mission is accomplished through the following six goals:

1. Strive for excellence in engineering education through the dissemination and interpretation of knowledge through the educational programs.
2. Recruit and retain students who have demonstrated a capacity to excel in an environment that integrates advanced information technology with creativity, critical thinking, and problem solving.
3. Recruit and retain a cadre of world-class faculty effective in every endeavor of student-faculty interaction and committed to maintaining an academic standard that will ensure the students are highly competitive for graduate or professional school or for employment in the private or public sectors.
4. Promote scholarly activities through the continual development of our research centers and other collaborations and further enhancing our incorporation of undergraduate and graduate research activities.
5. Continue strong external relations that cultivate and integrate our corporate and alumni constituents into partnerships with the College.
6. Maintain the appropriate infrastructure and support services necessary to provide an atmosphere conducive to learning.



## INSTRUCTIONAL ORGANIZATION

The Roy G. Perry College of Engineering is composed of six academic departments offering the degree programs listed below:

Degree Programs	Degrees Offered
Chemical Engineering	B.S.Ch.E.
Civil Engineering	B.S.C.E.
Computer Engineering	B.S.
Computer Science	B.S.
Electrical Engineering	B.S.E.E.
Mechanical Engineering	B.S.M.E.
Computer Engineering Technology	B.S.CET.
Electrical Engineering Technology	B.S.EET.

## ACCREDITATION STATUS

The Chemical Engineering, Civil Engineering, Electrical Engineering, and Mechanical Engineering programs are accredited by the Engineering Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202 – telephone: 410-347-7700. The Computer Engineering Program was approved in summer 2003 and is targeted for accreditation by 2010.

The Computer Science program is accredited by the Computing Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202 – telephone: 410-347- 7700.

The Computer Engineering Technology and Electrical Engineering Technology programs are accredited by the Engineering Technology Accreditation by the Engineering Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202 – telephone: 410-347-7700.

## SPECIAL PROGRAMS

*Engineering Internship/Cooperative Education.* The primary goal of an internship or cooperative education experience is to strengthen and enhance the theoretical knowledge gained through classroom or distance education-based experiences. The objectives of internships and cooperative education are to:

1. Provide students with opportunities to obtain professional industrial/government internships.
2. Prepare graduates for immediate professional assignments without further on-the-job training.
3. Provide a closer partnership between employers and the Roy G. Perry College of Engineering.
4. Help students determine which type of organizational structure and corporate culture best suits them.

Students in the program are required to enroll in internship or cooperative education courses while they are employed in industry/government. They continue to be governed by College and University regulations concerning professional conduct during the employment period. Students are normally paid wages/salaries by the employing agency.

*The Roy G. Perry College of Engineering Enhancement Institute (CE2I)* is an innovative and intensive summer bridge-to-college program designed to prepare students for the rigors of an Engineering, Computer Science, or Technology Curriculum and to aid with the transition between high school and college. The Institute is a five-week residential program, where participants will complete coursework in Math, Science, Technology, and Professional Development Activities. The Institute is math intensive. A math assessment test will be administered initially to determine the appropriate math placement. The program goal is to achieve a mastery of one math level higher than the student placed when he/she entered the program. The program will also introduce students to basic concepts in chemistry, physics, and computing. Students will experience professional development activities including field trips to area engineering and technology industries; personal and professional development seminars and workshops (i.e. time management, study skills, learning style inventories, effective use of study groups and seven (7) habits of successful people).

## **COLLEGE PROFESSIONAL AND HONOR SOCIETIES**

Among the honor societies designed to support, augment, and supplement the educational and professional development of students are the departmental honor societies and *Tau Apha Pi*, *National Engineering Honor Society*, through the Texas Kappa Chapter. In addition, the Roy G. Perry College of Engineering sponsors the following chapters of national societies:

*The Society of Women Engineers*, Prairie View A&M Student Section is a professional society open for membership to female students majoring in an engineering curriculum at the University. The Section is affiliated with the national professional engineering body, the Society of Women Engineers. The society fosters the intellectual, professional, personal and social development of student members.

*The Society of Hispanic Professional Engineers*

The Prairie View A&M chapter of the *National Society of Black Engineers* is a professional society open to all engineering students at the university. The chapter fosters intellectual and professional development among its members and promotes growth and entry of more minority persons into the engineering profession.

## **COLLEGE ADMISSION AND ACADEMIC REQUIREMENTS**

### **High School Preparation for Admission to the Roy G. Perry College of Engineering**

For students intending to pursue a major in engineering, the recommended curriculum is defined by the "Recommended Texas High School Program Graduation Requirements"

and approved by the State Board of Education in November 1993. The listing below reflects the current State Board recommendation and expands upon the University requirements stated earlier in this catalog:

### **Suggested High School Course Work**

English	4 units
Mathematics	4 units
Algebra I, II	2 units
Geometry	1 unit
<b>Either</b>	
Trigonometry and Additional Advanced Mathematics	1/2 unit each
<b>Or</b>	
Pre-Calculus*	1 unit
Science	4 units
Chemistry	1 unit
Physics	1 unit
Other Science Courses	2 units
Computer Science**	1 unit
Social Science	4 units
U.S. History	1 unit
World History Studies	1 unit
World Geography	1 unit
U.S. Government	1/2 unit
Economics	1/2 unit
Other Courses	4 units
TOTAL	21 units

\* Must explicitly include trigonometry.

\*\* Most desirable syllabus would include computer programming in Pascal, C, C++, or Java and instruction in computer applications which also includes word processing, spreadsheets, and data base management.

In support of the aforementioned requirements, an additional year of advanced mathematics (e.g., Calculus) is strongly recommended. Further, students planning careers in the health or biomedical engineering professions should take one year of biology. Additionally, students are urged to take advantage of advanced placement opportunities and honors programs.

Moreover, a student who enrolls without having completed the above courses will not be optimally prepared and the duration of the student's undergraduate program will likely be extended. In particular, the engineering programs offered by the college are based upon a student being fully prepared to begin study with the following courses:

MATH 1124 Calculus with Analytic Geometry I

CHEM 1034 Chemistry for Engineers

Prerequisites for the above courses are considered deficiencies and are not counted toward an engineering degree.

### **Admission to the Roy G. Perry College of Engineering**

Admission to the Roy G. Perry College of Engineering is based on the University's undergraduate admission requirements plus the following additional admission criteria for the Roy G. Perry College of Engineering. Students may be admitted to the Roy G. Perry College of Engineering in two ways: (1) directly into a major or (2) conditionally admitted. A student is admitted directly into a major only if all admission criteria are met.

#### **First-time Freshmen – Engineering Technology Majors**

First-time freshmen will be evaluated on the basis of the following admission criteria that are applicable for the student:

1. Students must meet the Prairie View A&M University admissions requirements.
2. Students must present a SAT Reasoning Test score of 930 (based on combined verbal and math scores only) or higher or a composite ACT score of 19 or higher.
3. Must have a cumulative high school GPA of 3.0 on a 4.0 scale.
4. Student must be in the top 25 percent of their graduating class.
5. \*Students must have successfully passed or must be exempt from the THEA exam in all areas.

\*THEA requirements have no influence on the admission to the University; however students must satisfy this criterion to be admitted to the Roy G. Perry College of Engineering. Failure to meet this requirement will result in the student's major status being changed.

#### **First-time Freshmen – Engineering Technology Majors**

First-time freshmen will be evaluated on the basis of the following admission criteria that are applicable for the student:

1. Students must meet the Prairie View A&M University admissions requirements.
2. Students must present an SAT Reasoning Test score of 860 (based on combined verbal and math scores only) or higher or a composite ACT score of 18 or higher.
3. Must have a cumulative high school GPA of 2.75 on a 4.0 scale.
4. Student must be in the top 40 percent of their graduating class.
5. \*Students must have successfully passed or must be exempt from the THEA exam in all areas.

\*THEA requirements have no influence on the admission to the University; however students must satisfy this criterion to be admitted to the Roy G. Perry College of Engineering. Failure to meet this requirement will result in the student's major status being changed.

As noted, students who meet these criteria will be admitted directly into a major. Those students that do not meet the criteria will need to have their records reviewed by their academic department and be considered on individual merits for conditional admission.

### **Conditional Admittance**

Those first-time freshmen who do not meet the direct admission standards into the College and wish to be considered for conditional admission must meet the following criteria:

#### **First-time Freshmen – Engineering and Computer Science Majors**

First-time freshmen will be evaluated on the basis of the following admission criteria that are applicable for the student:

1. Students must meet the Prairie View A&M University admissions requirements.
2. Students must present a minimum SAT Reasoning Test score greater than 820 (based on combined verbal and math scores only) or higher or a composite ACT score of 17 or higher.
3. Must have a minimum cumulative high school GPA of 2.5 on a 4.0 scale.
4. Student must be in the top 50 percent of their graduating class.

#### **First-time Freshmen – Technology Majors**

First-time Freshmen will be evaluated on the basis of the following admission criteria that are applicable for the student:

1. Students must meet the Prairie View A&M University admissions requirements.
2. Students must present an SAT Reasoning Test score greater than 820 (based on combined verbal and math scores only) or higher or a composite ACT score of 17 or higher.
3. Must have a minimum cumulative high school GPA of 2.0 on a 4.0 scale.
4. Student must be in the top 60 percent of their graduating class.

Under the Roy G. Perry College of Engineering Conditional Admittance policy, a conditionally admitted student would receive the same academic advisement and will be allowed to take the appropriate engineering, math and science courses as regular admitted students. After 30 hours of academic course work, the conditionally admitted student must petition the Roy G. Perry College of Engineering and show that he/she has completed all deficiency courses and is at least eligible to take the college algebra/trig math course. This petition must be approved before the student is allowed to continue in the Roy G. Perry College of Engineering or that student must receive special approval by the Freshman Advisory Committee within the Roy G. Perry College of Engineering.

### **Students Entering with Transfer Credit**

Transfer students include those from other units within Prairie View A&M University as well as those from other educational institutions. Transfer students external to Prairie View A&M University must furnish an official transcript to the Office of Admissions for evaluation of all college level work completed. Transfer students with less than 30 hours of transferable credit are admitted under the criteria for first-time freshmen.

Transfer students with 30 hours or more of transferable credit must meet the following requirements:

1. Students must meet the Prairie View A&M University and the Roy G. Perry College of Engineering admissions requirements.
2. Must have a "C" or higher in all transfer courses.
3. Must have a minimum cumulative GPA of 2.5 on a 4.0 scale in all math, science, and engineering courses.

Students who meet these criteria will be admitted directly into a major. Those students that do not meet the criteria will need to have their records reviewed by their desired academic department and be considered on individual merits for conditional admission.

### **Placement in an Engineering Major**

Students meeting all admission criteria for entry directly from high school or for entry with transfer credit will be admitted as a program major: CHEG (Chemical Engineering), CVEG (Civil Engineering), CPEG (Computer Engineering), ELEG (Electrical Engineering), MCEG (Mechanical Engineering), CPSC (Computer Science), ELET (Electrical Engineering Technology) and CPET (Computer Engineering Technology). If all criteria are not met, students who have decided on their major may be conditionally admitted: UCHE (Chemical Engineering), UCVE (Civil Engineering), UCPG (Computer Engineering), UELE (Electrical Engineering), UMCE (Mechanical Engineering), UCPS (Computer Science), UELT (Electrical Engineering Technology) and UCPT (Computer Engineering Technology). Students conditionally admitted can apply to their department for advancement after 30 hours of completed course work (see the above Conditional Admittance Section).

Along with meeting the general requirements of the University, students enrolled in the Roy G. Perry College of Engineering must maintain the following performance levels in order to satisfy degree requirements:

1. Earn an overall grade point average of 2.0 or better in courses taken outside of the college and earn a grade of "C" or better in English, Mathematics, and Science courses.
2. Earn a grade of "C" or better in each course taken within the College.
3. Earn a grade of "C" or better in the prerequisite before advancing to the next level course in a sequence for English, Mathematics, and Science courses.
4. Earn a grade of "C" or better in prerequisite courses before advancing to the next level course in College courses.

5. Demonstrate professional standards and ethical conduct.
6. Three-Attempt Rule: A student may not attempt a course in Mathematics, Science, or Engineering in the Roy G. Perry College of Engineering at PVAMU more than three times and apply that course toward his/her degree. Enrollment in a course for a period of time sufficient for assignment of a grade, including a grade of "W", is considered an attempt. After a student failed a course attempt twice by not receiving a grade of "C" or higher, he/she must obtain approval from the Department Head to enroll in the course again.

Students who transfer from other colleges and universities should meet the University's scholastic regulations and additional core curriculum requirements for engineering.

## **ELIGIBILITY TO TAKE UPPER DIVISION COLLEGE COURSES**

The Roy G. Perry College of Engineering has an eligibility standard for the students to take upper division college courses. Students must have completed or be currently enrolled in all lower division (1000 and 2000 level) courses in English, Mathematics, Science, and Engineering to be eligible to enroll in upper division (3000 or 4000 level) courses in the Roy G. Perry College of Engineering. Students must also complete a prescribed set of courses listed in the catalog section outlining specific degree programs and have a minimum Grade Point Average (GPA) of 2.5 to be eligible to enroll in upper division (3000 or 4000 level) courses in the College. Students transferring to the Roy G. Perry College of Engineering with 60 or more semester hours from another institution will be allowed a period of one semester to comply.

## **UNIVERSITY CORE CURRICULUM FOR ENGINEERING PROGRAMS**

The core curriculum concept provides for portability of a basic element of a college degree between higher education institutions. However, certain programs have specific requirements in their programs that must be satisfied for the purpose of accreditation. For a specific program, the core curriculum may look different to most efficiently satisfy both the core and program-specific requirements. For ABET-accredited engineering programs, for example, the math requirement in the core curriculum is best satisfied if the engineering student takes Differential Equations. The program-specific core curriculum requirements presented for degree programs in the Roy G. Perry College of Engineering represent the suggested University Core Curriculum designed for an engineering student to minimize the coursework required.

Students who undertake a more general core curriculum may require additional coursework. For example, the Roy G. Perry College of Engineering requires a programming language course so that some 3-hour courses that satisfy the University Core Curriculum may not be acceptable for the Roy G. Perry College of Engineering degree programs.

## **Five-Year BS/MS Degree Plan Option**

The Five-Year BS/MS Degree Plan Option is available for majors in Chemical Engineering, Civil Engineering, Computer Science, Electrical Engineering, and Mechanical Engineering. The B.S. and M.S. degrees offered through this option are identical to the individual B.S. and M.S. degrees offered in the College. The combined five-year degree plan option provides students with the opportunity to obtain these degrees in less time than would be required when pursuing them independently. Senior engineering or computer science majors may, upon being recommended by the department head, their respective dean of their College and have received provisional acceptance from the Graduate School, register for up to six semester-credit hours of graduate courses. These graduate courses may be used to meet undergraduate upper-level technical electives requirements as well as can be used to meet graduate requirements at Prairie View A&M University.

### **REQUIREMENTS FOR ENERGY ENGINEERING AS A MINOR FIELD**

The Energy Engineering Minor curriculum is designed to prepare students to enter directly into a wide variety of careers in the energy sector serving the greater Houston area, national and the international communities. Students of all majors are encouraged to enroll in the courses offered through the program. The curriculum is designed to work within the structure of the students' majors. The energy engineering spans over broad spectrum of fields. The Energy Engineering Minor has four focuses:

Chemical and Civil/Environmental - Fossil Fuel Focus  
Electrical Engineering - Generation and Distribution Focus  
Mechanical Engineering - Generation and Storage Focus  
Nuclear Energy -Energy and Nuclear Focus

Students shall complete the Energy Engineering Minor through satisfactory completion of 18 SCH from the following courses:

#### **Three Required Energy courses .....9 SCH**

CHEG 3113 - Introduction to Energy Systems  
CVEG 4113 - Energy and Environment  
MCEG 3123 - Renewable Energy and Energy Sustainability

#### **Three Elective courses from the following..... 9 SCH**

CHEG 4103 Special Topics - Intro to Nuclear  
CHEG 4103 Special Topics - Biofuels and Biomass  
CHEG 4103 Special Topics – Fossil Fuels  
CVEG 4103 Nuclear Waste Management  
CVEG 4103 Energy and Waste Management  
ELEG 4013 Electromechanical Energy Conversion  
ELEG 4023 Power Systems Engineering  
ELEG 4223 Photonics and Electronic Materials & Devices  
MCEG 4123 Energy System Design  
MCEG 4163 Special Topics – Heating, Ventilating and Air Conditioning  
MCEG 4163 Special Topics - Power Plants  
Other Energy related courses approved by the College



## ***Department of Chemical Engineering***

### **ADMINISTRATIVE OFFICER**

Irvin W. Osborne-Lee, *Department Head*

### **FACULTY**

Sukesh Aghara, *Nuclear Engineering*  
Kamel H. Fotouh, *Chemical Engineering*  
Jorge F. Gabitto, *Chemical Engineering*  
Michael Gyamerah, *Biochemical Engineering*  
Felecia M. Nave, *Chemical Engineering*  
Irvin W. Osborne-Lee, *Chemical Engineering*  
Safwat Shakir, *Environmental Science*

### **PURPOSE AND GOALS**

Chemical Engineering is unique in the engineering profession in that it requires a strong foundation in chemical principles, as well as in the physical and engineering sciences common to all branches of engineering. An education in Chemical Engineering is one of the broadest—the chemical engineer may find employment in all phases of technical operations. Chemical process industries supply society with a vast array of products, including chemicals, fuels, plastics, metals, foods, pharmaceuticals, textiles, and cryogenic materials. In recent years, Chemical Engineers have found employment in the microelectronics industry and in the advanced materials, biochemical and biomedical engineering fields. Chemical Engineers also serve society by reducing and eliminating pollution.

The primary goal of the department is to prepare engineers who are well qualified to design and operate chemical processes. The goals of the department include the fostering of professional ethics, standards, and practices; the development of conceptual and analytical skills in problem solving; and the development of the student's perception and creative faculties. More specifically, the department has the following objectives, which are to:

1. Achieve success in advanced studies if they so choose, and in pursuing a design a successful professional career in new and emerging areas, as well as traditional chemical engineering areas;
2. Attain leadership roles in professional careers in field of choice, with high levels of competence, ethics and safety consciousness;
3. Maintain and raise their level of engineering competence and achievement by engaging in lifelong learning.

### **Admission Requirements**

***Table 1. First-time Freshmen Requirements for Direct Admission to the Chemical Engineering Program***

Academic Major	Meet PVAMU Admission Standards	High School GPA	SAT Reasoning Test/ACT	High School Rank	THEA Passed
Chemical Engineering	Yes	3.00	930/19	Top 25%	Yes (all subjects)

**Table 2. First-time Freshmen Requirements for Conditional Admission to the Chemical Engineering Program**

Academic Major	Meet PVAMU Admission Standards	High School GPA	SAT Reasoning Test/ACT	High School Rank	THEA Passed
Chemical Engineering	Yes	2.50	820/17	Top 50%	No

**Table 3. Transfer Students Requirements for Direct Admission to the Chemical Engineering Program**

Academic Major	Meet PVAMU Admission Standards	Transfer Grades	Transfer GPA (Math, Science and Engineering)
Chemical Engineering	Yes	“C” or greater	2.50

These tables represent a summary of admission requirements. For more detailed requirements see the section in the catalog pertaining to the Roy G. Perry College of Engineering Admission.

## PROFESSIONAL AND HONOR SOCIETIES

Student organizations play an important role in helping students to adjust to the responsibilities of their profession and in recognizing high academic achievement. Students are encouraged to become active members of the organizations sponsored by the department. The department sponsors the following organizations:

*American Institute of Chemical Engineers (A.I.Ch.E.)* - Student Chapter. This chapter is a part of the national American Institute of Chemical Engineers organization, which is the premier professional society for chemical engineers nationwide. AIChE is the life-long home of chemical engineers nationwide. The student chapter promotes professionalism, professional development, and service to society.

*Iota Beta Chapter of Omega Chi Epsilon.* This is a chapter of the National Honorary Society Omega Chi Epsilon. The objectives of this organization are to promote and recognize chemical engineering academic excellence, graduate research, professionalism, sociability, character, and leadership among the chemical engineering students.

*American Chemical Society (A.C.S.)* - Student Chapter. This chapter is a part of the national professional society for chemists and chemical engineers, and is sponsored in cooperation with the Department of Chemistry.

*American Nuclear Society PV Chapter (ANS-PV)* – Student Chapter. The objectives of this organization are to promote the diverse field of nuclear science and technology, increase awareness and understanding of its diverse application in modern engineering, and to introduce students to the emergent career opportunities in nuclear engineering nationally and internationally. The student chapter is supported by the nuclear engineering program within chemical engineering department. Membership is open to all who are motivated to be enlightened in the growing field of the nuclear science and technology.

*Society of Petroleum Engineers (S.P.E.)* - Student Chapter. This chapter is a part of the national Society of Petroleum Engineers organization. The SPE is an international technical/professional organization dedicated to the advancement of technology associated with oil and gas exploration, production, refining, and processing. Student membership provides students the opportunity to meet practicing professionals and active members in the industry while still attending school.

*National Organization of Black Chemists and Chemical Engineers (N.O.B.C.Ch.E)* - Student Chapter. This chapter is part of the national NOBCCChE organization. Its goals are to promote professionalism and advance technical careers for African Americans, with chemistry and chemical engineers as a particular focus. Membership is open to all who share these objectives. This chapter is co-sponsored with the Department of Chemistry.

Students of chemical engineering are also eligible for membership in the other professional and honor societies of the college and the university.

## ACCREDITATION STATUS

The Chemical Engineering program is accredited by the Engineering Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202 – telephone: 410-347-7700.

## BACHELOR OF SCIENCE IN CHEMICAL ENGINEERING DEGREE PROGRAM REQUIREMENTS

### Core Curriculum..... 42 SCH

All core curriculum requirements are shown in the suggested degree program for majors in chemical engineering.

### College Requirements..... 41 SCH

MATH 1124, 2024, 3685..... 13 SCH

CHEM 1021, 1034..... 5 SCH

PHYS 2511, 2521 .....	2 SCH
CHEG 2043 .....	3 SCH
CVEG 2454 .....	4 SCH
ELEG 2053 .....	3 SCH
CHEG 1011, 1021.....	2 SCH
GNEG 3051 .....	1 SCH
CHEG, CVEG, ELEG, or MCEG 4473, 4483.....	6 SCH
GNEG 1121, 2021 .....	2 SCH

**Major Requirements..... 32 SCH**  
CHEG 2003, 2013, 2053, 3013, 3023, 3043, 3053, 3063, 4011, 4031, 4033, 4043

**Support Area Requirements ..... 14 SCH**  
CHEM 2033, 2043, 3413, 3423, Advanced Chemistry Elective (either 3423, 4023, 4033, 4053, 4063, 4073 or Another Course Approved by the Department.) 2-hour chemistry lab elective (CHEM 3032, 2042, 3422, 3432, 4042, or 4052).

**Technical Electives..... 6 SCH**

**Total Degree Requirements ..... 135 SCH**

**Chemical Engineering Suggested Technical Electives**

CHEG 3153	Intro to Biotechnology
CHEG 4103	Special Topics in Chemical Engineering
CHEG 4133	Process Modeling and Simulation
CHEG 4153	Bioengineering
CHEG 4163	Engineering Optimization
CHEG 4183	Design of Process Engineering Systems
MCEG 4123	Energy System Design
MCEG 4093	Finite Element Design and Analysis
MCEG 4173	Computer-Aided Manufacturing
CHEM 4033	Biochemistry
CHEM 4053	Instrumental Analysis
CHEM 4063	Inorganic Chemistry
CHEM 4073	Topics in Physical Chemistry
CVEG 3013	Mechanics of Materials I
CVEG 4193	Systems Engineering
ELEG 3033	Physical Electronics
MATH 3073	Linear Algebra
MATH 4083	Advanced Calculus I
MATH 4223	Introduction to Complex Analysis
PHYS 3183	Modern Physics

Technical electives must be 3000 level or above. At least one technical elective must be taken in the department. Internship and co-op courses are not suitable as technical electives.

### **Technical Electives through Five-Year BS/MS Degree Plan Option**

Students may, upon approval to the Five-Year BS/MS Degree Plan Option (see Roy G. Perry College of Engineering Academic Programs and Degree Plans), apply up to six semester-credit hours of graduate courses toward technical electives requirements.

### **Eligibility to Take Upper Division College Courses**

The Roy G. Perry College of Engineering requires an eligibility standard for the students to take upper division college courses. Students must have completed or be currently enrolled in all lower division (1000 and 2000 level) courses in English, Mathematics, Science, and Engineering to be eligible to enroll in upper division (3000 or 4000 level) courses in the Roy G. Perry College of Engineering. Students in the Chemical Engineering Program must complete a prescribed list of courses in the following with a minimum Grade Point Average (GPA) of a 2.5 to be eligible to enroll in upper division (3000 or 4000 level) courses in the College. Students transferring to the Roy G. Perry College of Engineering with 60 or more semester hours from another institution will be allowed a period of one semester to comply.

CHEM 1034	Chemistry for Engineers
CHEM 1021	Inorganic Chemistry Lab II
ENGL 1143	Technical Writing
PHYS 2513	University Physics I
PHYS 2511	General University Physics Lab I
MATH 1124	Calculus with Analytic Geometry I
MATH 2024	Calculus with Analytic Geometry II
CHEG 1011	Introduction to Engineering, Computer Science and Technology
CHEG 1021	Introduction to Chemical Engineering Lab
ELEG 1043	Computer Applications in Engineering

### **Requirements for Chemical Engineering as a Minor Field**

Students must complete 27 semester credit hours as listed below to satisfy the requirements for a minor in the discipline of chemical engineering.

CHEG 2013	Material Science
CHEG 2043	Chemical Engineering Thermodynamics I
CHEG 2053	Material and Energy Balances*
CHEG 3013	Heat, Mass, and Momentum Transfer*
CHEG 3023	Unit Operations
CHEG 3043	Equilibrium Stage Separation Processes*
CHEG 3053	Chemical Engineering Thermodynamics II*
CHEG 3063	Chemical Reaction Kinetics and Reactor Design*

Technical Elective (any CHEG 3000-4000 level) 4043 Process Design and Analysis\*

\*Indicates course) requirements not eligible to be met with courses used to meet major requirements.

## CHEMICAL ENGINEERING SUGGESTED DEGREE PROGRAM SEQUENCE (135 CREDIT HOURS REQUIRED)

FRESHMAN YEAR					
First Semester		Hours	Second Semester		Hours
MATH 1124	Calculus I	4	MATH 2024	Calculus II	4
GNEG 1121	Engr. Appl. Lab II for Math	1	GNEG 1121	Engr. Appl. Lab III for Math	1
CHEG 1011 & 1021	Introduction to Chemical Engineering & Lab	2	CHEM 1034	Chemistry for Engineers	4
ELEG 1043	Computer Appl. in Engineering	3	CHEM 1021	Inorganic Chemistry Laboratory II	1
ENGL 1123	Freshman Composition I	3	PHYS 2513	University Physics I	3
COMM 1003	Fund. of Speech Communication	3	PHYS 2511	General University Physics Lab I	1
			ENGL 1143	Technical Writing	3
<b>Total</b>		<b>16</b>	<b>Total</b>		<b>17</b>
SUMMER SESSIONS					
First Term		Hours	Second Term		Hours
POSC 1113	American Government I	3	HIST 1313	U.S. to 1876	3
<b>Total</b>		<b>3</b>	<b>Total</b>		<b>3</b>
SOPHOMORE YEAR					
First Semester		Hours	Second Semester		Hours
CHEG 2013	Materials Science	3	CHEG 2053	Material and Energy Balances	3
CHEG 2043	Chemical Engineering Thermodynamics I	3	CHEM 2043	Organic Chemistry II	3
CHEM 2033	Organic Chemistry I	3	ELEG 2053	Introduction to Electrical Engineering	3
PHYS 2523	University Physics II	3	CVEG 2454	Statics and Dynamics	4
PHYS 2521	General University Physics Lab II	1	CHEG 2003	Economic Analysis and Technical Applications	3
MATH 2043	Differential Equations	3			
<b>Total</b>		<b>16</b>	<b>Total</b>		<b>16</b>
SUMMER SESSIONS					
First Semester		Hours			
*CHEG 2156	Chemical Engineering Internship I	6			
<b>Total</b>		<b>6</b>			

## *Civil and Environmental Engineering Programs and Degree Plans*

JUNIOR YEAR					
First Semester		Hours	Second Semester		Hours
CHEG 3053	Chemical Engineering Thermodynamics II	3	CHEG 3063	Chem. React. Kin./Reactor Design	3
CHEG 3013	Heat, Mass, and Momentum Transport	3	CHEG 3043	Equilibrium Staged Sep. Processes	3
CHEG 3023	Unit Operations	3	MATH 3685	Mathematics for Engineers	5
CHEM 3413	Physical Chemistry I	3		Advanced Chemistry Elective***	3
	Humanities or Visual/Performing Arts Elective	3		Chemistry Lab Elective**	2
<b>Total</b>		<b>15</b>	<b>Total</b>		<b>16</b>
SUMMER SESSIONS					
First Semester		Hours			
*CHEG 3156	Chemical Engineering Internship II	6			
<b>Total</b>		<b>6</b>			
SENIOR YEAR					
First Semester		Hours	Second Semester		Hours
GNEG 3051	Professional Engineering I	1	CHEG 4031	Chemical Engineering Lab III	1
CHEG 4043	Process Design and Analysis	3	CHEG 4483	Senior Design and Professionalism II	3
CHEG 4033	Proc. Dynamics and Control	3		Technical Elective	3
CHEG 4473	Senior Design and Professionalism I	3		Social or Other Behavioral Science Elective	3
CHEG 4011	Chemical Engineering Lab II	1		Visual and Performing Arts Elective	3
HIST 1323	The U.S.-1876 to Present	3			
	Technical Elective	3	POSC 1123	American Government II	3
<b>Total</b>		<b>17</b>	<b>Total</b>		<b>16</b>
<b>Total Hours</b>					<b>135</b>

\*<sup>a</sup> CHEM 1033 and 1043 together meet the same requirement as CHEM 1034. Eligibility for CHEM 1034 is established by completing CHEM 1013 or 1033 as a prerequisite, or passing the Chemistry for Engineers Readiness Test.

<sup>b</sup> ENGL 1133 may be used to meet this requirement with approval of the Head of Chemical Engineering or Dean of Engineering.

<sup>c</sup> Course may be taken for credit during a summer internship, but is not required in degree plan.

\*\*<sup>d</sup> Taking one of the following courses will satisfy this requirement: CHEM 2032, 2042, 3422, 3432, 4042, or 4052. Note that course pre- and co-requisites must also be satisfied.

\*\*\*<sup>e</sup> Taking one of the following courses will satisfy this requirement: CHEM 3423, 4023, 4033, 4053, 4063, or 4073. Note that course pre- and co-requisites must also be satisfied.

**BACHELOR OF SCIENCE IN CHEMICAL ENGINEERING DEGREE WITH A CONCENTRATION IN BIOENGINEERING PROGRAM REQUIREMENTS**

The bioengineering option will require students desiring the concentration to complete 20 hours of course material that build knowledge, skills, and expertise in bioengineering. Specific course requirements are as follow.

CHEG 2153 Biochemical Engineering Fundamentals  
CHEM 4033 Biochemistry  
CHEM 4042 Biochemistry Lab

Bioengineering technical electives (choose from list below)

CHEG 3153 Introduction to Biotechnology  
CHEG 4153 Bioengineering  
CHEG 4103 Special Topics (topic related to bioengineering or nanotechnology)  
CHEG 4473 & 4483 Senior Design & Professionalism I & II (with bioengineering design topic).

The suggested degree plan below shows the sequence of courses for the concentration in bioengineering.

**BIOENGINEERING OPTION IN CHEMICAL ENGINEERING SUGGESTED DEGREE PROGRAM SEQUENCE (138 CREDIT HOURS REQUIRED)**

FRESHMAN YEAR					
First Semester		Hours	Second Semester		Hours
MATH 1124	Calculus I	4	MATH 2024	Calculus II	4
GNEG 1121	Engr. Appl. Lab II for Math	1	GNEG 1121	Engr. Appl. Lab III for Math	1
CHEG 1011 & 1021	Introduction to Chemical Engineering & Lab	2	CHEM 1034 a	Chemistry for Engineers	4
ELEG 1043	Computer Appl. in Engineering	3	CHEM 1021	Inorganic Chemistry Laboratory II	1
ENGL 1123	Freshman Composition I	3	PHYS 2513	University Physics I	3
COMM 1003	Fundamentals of Speech Communication	3	PHYS 2511	General University Physics Lab I	1
			ENGL 1143 b	Technical Writing	3
Total		16	Total		17



*Civil and Environmental Engineering Programs and Degree Plans*

SUMMER SESSIONS					
First Term		Hours	Second Term		Hours
POSC 1113	American Government I	3	HIST 1313	U.S. to 1876	3
<b>Total</b>		<b>3</b>	<b>Total</b>		<b>3</b>

SOPHOMORE YEAR					
First Semester	Fall	Hours	Second Semester	Spring	Hours
CHEG 2013	Materials Science	3	CHEG 2053	Material and Energy Balances	3
CHEG 2043	Chemical Engineering Thermodynamics I	3	CHEM 2043	Organic Chemistry II	3
CHEM 2033	Organic Chemistry I	3	ELEG 2053	Introduction to Elect. Engineering	3
PHYS 2523	University Physics II	3	CVEG 2454	Statics and Dynamics	4
PHYS 2521	University Physics Lab II	1	CHEG 2003+	Economic Analysis and Technical Applications	3
MATH 2043	Differential Equations	3			
<b>Total</b>		<b>16</b>	<b>Total</b>		<b>16</b>

SUMMER SESSIONS					
First Term		Hours	Second Term		Hours
*CHEG 2156	Chemical Engineering Internship I c	6	HIST 1323	The U.S.-1876 to Present	3
<b>Total</b>		<b>6</b>	<b>Total</b>		<b>3</b>

JUNIOR YEAR					
First Semester	Fall	Hours	Second Semester	Spring	Hours
CHEG 3053	Chemical Engin. Thermodynamics II	3	CHEG 3063	Chem. React. Kin./Reactor Design	3
CHEG 3013	Heat, Mass, and Momentum Trans.	3	CHEG 3043	Equilibrium Staged Sep. Processes	3
CHEG 3023	Unit Operations	3	MATH 3685	Mathematics for Engineers	5
CHEM 3413	Physical Chemistry I	3	CHEG 3153	Introduction to Biotechnology	3
	Biochemical Engineering Fundamentals	3		Humanities or Visual/Performing Arts Elective	3
<b>Total</b>		<b>15</b>	<b>Total</b>		<b>17</b>

SUMMER SESSIONS					
First Semester		Hours			
CHEG 3156 c	Chemical Engineering Internship II	6			
<b>Total</b>		<b>6</b>			

## Civil and Environmental Engineering Programs and Degree Plans

First Semester		Hours	Second Semester		Hours	
GNEG 3051	Professional Engineering I	1	CHEG 4031	Chemical Engineering Lab III	3	
CHEG 4043	Process Design and Analysis	3	CHEG 4483	Senior Design and Professionalism II with bioengineering design topic	3	
CHEG 4033	Proc. Dynamics and Control	3		Bioengineering Technical Elective	3	
CHEG 4473	Senior Design and Professionalism I with bioengineering design topic	3		Social or Other Behavioral Science Elective	3	
CHEG 4011	Chemical Engineering Lab II	1		Visual and Performing Arts Elective	1	
CHEM 4033	Biochemistry	3	POSC 1123	American Government II	3	
CHEM 4042	Biochemistry Lab	2				
Total		16	Total		16	
					Total Hours	135

<sup>a</sup> CHEM 1033 and 1043 together meet the same requirement as CHEM 1034. Eligibility for CHEM 1034 is established by completing CHEM 1013 or 1033 as a prerequisite, or passing the Chemistry for Engineers Readiness Test.

<sup>b</sup> ENGL 1133 may be used to meet this requirement with approval of the Head of Chemical Engineering or Dean of Engineering.

<sup>c</sup> Course may be taken for credit during a summer internship, but is not required in degree plan.

Most courses in the Roy G. Perry College of Engineering will be offered only once a year. Courses listed in the **First Semester** in the **SUGGESTED DEGREE PROGRAM SEQUENCE** will be offered in the fall semester and may not be available in the spring and summer semesters. Courses listed in the **Second Semester** in the **SUGGESTED DEGREE PROGRAM SEQUENCE** will be offered in the spring semester and may not be available in the fall and summer semester.

+Course must be approved by the department.

***Department of Civil and Environmental Engineering***

**ADMINISTRATIVE OFFICER**

Raghava R. Kommalapati, *Interim Department Head*

**FACULTY**

Iftekhar Ahmed, *Civil & Environmental Engineering*

Raghava R. Kommalapati, *Civil & Environmental Engineering*

Judy A. Perkins, *Civil & Environmental Engineering*

Ramalingam Radhakrishnan, *Civil & Environmental Engineering*

**PURPOSE AND GOALS**

Civil Engineers are involved in the planning, design, construction, and operation of facilities essential to modern life.

The mission of the Civil and Environmental Engineering Department is to produce Civil Engineers who will become practitioners, leaders, researchers and entrepreneurs. The department will attract and retain high quality faculty and maintain state of the art infrastructure to excel in teaching, research and service. The department through its rigorous curriculum and hands-on laboratory and design projects will educate students and engage them in research and service activities so that they can make significant contributions to society and the advancement of quality of life.

The Department of Civil and Environmental Engineering as a component of the Roy G. Perry College of Engineering subscribes to and supports the goals of the College and the University. The objective of the program is to produce civil engineers for leadership in the profession. The major role of the department is dissemination of excellent instruction, with the ultimate goal of promoting graduate research and encouraging excellence. Specific Civil Engineering Program Educational Objectives are:

Civil Engineering program graduates will be able to:

1. Have careers in civil engineering or related fields that lead to increasing levels of responsibility and leadership;
2. Obtain professional licensure/certifications;
3. Complete graduate studies in civil engineering licensure/certifications;
4. Engage in professional development and service.

**Admission Requirements**

**Table 1. First-time Freshmen Requirements for Direct Admission to the Civil Engineering Program**

Academic Major	Meet PVAMU Admission Standards	High School GPA	SAT Reasoning Test/ACT	High School Rank	THEA Passed
Civil Engineering	Yes	3.00	930/19	Top 25%	Yes (all subjects)

**Table 2. First-time Freshmen Requirements for Conditional Admission to the Civil Engineering Program**

Academic Major	Meet PVAMU Admission Standards	High School GPA	SAT Reasoning Test/ACT	High School Rank	THEA Passed
Civil Engineering	Yes	2.50	820/17	Top 50%	No

**Table 3. Transfer Students Requirements for Direct Admission to the Civil Engineering Program**

Academic Major	Meet PVAMU Admission Standards	Transfer Grades	Transfer GPA (Math, Science and Engineering)
Civil Engineering	Yes	“C” or greater	2.50

These tables represent a summary of admission requirements. For more detailed requirements see the section in the catalog pertaining to the Roy G. Perry College of Engineering Admission.

**HONOR SOCIETIES, CLUBS, AND SERVICE ORGANIZATIONS**

Student organizations play an important role in helping students to adjust to the responsibilities of their profession. They are encouraged to become active members of the organizations sponsored by the department.

The *American Society of Civil Engineers* (ASCE) - the Prairie View A&M University (PVAMU's) ASCE student chapter strives to promote the professional development of civil engineering students through curriculum enriching activities. The most notable of these activities is the annual ASCE Texas Regional Conference, in which students from several Texas and New Mexico universities compete in various team-oriented competitions (i.e., concrete canoe design, concrete canoe race, and steel bridge design and fabrication).

The *Civil Engineering Honors Club* (CEHC) – CEHC's objectives are to promote scholarship, professionalism, sociability, character, and leadership among the civil

engineering students. The members will be inducted into *Texas A&M University's Chi Epsilon Chapter*, which is under the auspices of the *National Civil Engineering Honor Society*.

Students in the department are also eligible for membership in the professional and honor societies of the college and the university.

## **ACCREDITATION STATUS**

The Civil Engineering program is accredited by the Engineering Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202 – telephone: (410) 347-7700.

## **BACHELOR OF SCIENCE IN CIVIL ENGINEERING DEGREE PROGRAM REQUIREMENTS**

**Core Curriculum.....42 SCH**  
All Civil Engineering Core Curriculum requirements are shown in the suggested degree program.

**College Requirements.....46 SCH**  
MATH 1124, 2024, and 3685 ..... 13 SCH  
CHEM 1021 and 1034 ..... 5 SCH  
PHYS 2511 and 2521..... 2 SCH  
CVEG 1011 and 1021 ..... 2 SCH  
GNEG 1121 and 2021 ..... 2 SCH  
CHEG 2003 ..... 3 SCH  
CVEG 2043 and 2053 ..... 6 SCH  
ELEG 2053 ..... 3 SCH  
MCEG 2013..... 3 SCH  
GNEG 3051 ..... 1 SCH  
CVEG 4473 and 4483 ..... 6 SCH

**Major Requirements.....38 SCH**  
Additional Science Elective \*(CHEG 2013, or selected Biology courses), CVEG 2001, 2063, 3023, 3031, 3043, 3053, 3063, 3073, 3083, 4013, 4043, 4053 and 4063.

**Technical Electives.....6 SCH**

**Total Degree Requirements .....132 SCH**

\*Additional Science Elective

Students need to select one of the following courses as an additional science elective; CHEG 2013 or one of the following Biology courses: BIOL 1073, BIOL 1113, BIOL 1123 or BIOL 3073

### **Civil Engineering Suggested Technical Electives**

CVEG 4093 Systems Engineering  
CVEG 4103 Special Topics  
CVEG 4113 Energy and Environment  
CVEG 4123 Hydrology  
CVEG 4143 Engineering Construction  
CVEG 4223 Waste Management  
CVEG 4233 Water Quality Modeling  
CVEG 4243 Fundamentals of Air Pollution and Control  
MATH 4063 Numerical Analysis  
MATH 4083 Advanced Calculus I  
MATH 4223 Introduction to Complex Analysis  
MCEG 4063 Dynamic Systems and Controls  
ARCH 4443 CAD Construction Documents and Codes

Technical electives must be 3000 level or above and must be taken with the approval of the Academic Advisor or Department Head. At least one technical elective must be taken in the department. Internship and Co-op courses are not suitable as technical electives.

### **Technical Electives through Five-Year BS/MS Degree Plan Option**

Students may, upon approval to the Five-Year BS/MS Degree Plan Option (see Roy G. Perry College of Engineering Academic Programs and Degree Plans), apply up to six semester-credit hours of graduate courses toward technical electives requirements.

### **Eligibility To Take Upper Division College Courses**

The Roy G. Perry College of Engineering requires an eligibility standard for students to take upper division college courses. Students must have completed or be currently enrolled in all lower division (1000 and 2000 level) courses in English, mathematics, science, and engineering to be eligible to enroll in upper division (3000 or 4000 level) courses in the Roy G. Perry College of Engineering. Students in the Civil Engineering Program must complete the prescribed courses listed below with a minimum Grade Point Average (GPA) of 2.5 in order to be eligible to enroll in upper division (3000 or 4000 level) courses in the College. Students transferring to the Roy G. Perry College of Engineering with 60 or more semester hours from another institution will be allowed a period of one semester to comply.

CVEG 1011 Introduction to Engineering, Computer Science and Technology  
CVEG 1021 Introduction to Civil Engineering Laboratory  
CHEM 1034 Chemistry for Engineers  
CHEM 1021 Inorganic Chemistry Lab II  
ENGL 1143 Technical Writing  
PHYS 2513 University Physics I  
PHYS 2511 General University Physics Lab I  
MATH 1124 Calculus with Analytic Geometry I  
MATH 2024 Calculus with Analytic Geometry II  
ELEG 1043 Computer Applications in Engineering

## **REQUIREMENTS FOR CIVIL ENGINEERING AS A MINOR FIELD**

Students have two options for the Civil Engineering Minor. Option 1: Civil Engineering and Option 2: Environmental Engineering. Student can use a maximum of 9 hours from their major towards the minor requirements.

### **Option 1: Civil Engineering**

Students must complete 18 SCH to satisfy the minor requirements.

#### **Required courses, 9 SCH:**

CVEG 2043-Engineering Mechanics I

CVEG 2053-Engineering Mechanics II

CVEG 2063-Mechanics of Materials I

#### **Technical Electives, 9 SCH:**

Approved 3000 and 4000 level CVEG courses.

### **Option 2: Environmental Engineering Concentration**

Students must complete 18 SCH to satisfy the minor requirements.

#### **Required courses, 9 SCH:**

MCEG 2013 Thermodynamics I or CHEG 2043 Chemical Engineering Thermodynamics I or equivalent

CVEG 3043 Environmental Engineering

CVEG 4043 Environmental Engineering Design

#### **Technical Electives, 9 SCH:**

CVEG 4223 Waste Management

CVEG 4233 Water Quality Management

CVEG 4243 Fundamentals of Air Pollution and Control

Other related electives with the approval of the Academic Advisor.

## **CIVIL ENGINEERING SUGGESTED DEGREE PROGRAM SEQUENCE**

### **FRESHMAN YEAR**

First Semester		Hours	Second Semester		Hours
ENGL 1123	Freshman Composition I	3	ENGL 1143	Technical Writing	3
MATH 1124	Calculus I	4	MATH 2024	Calculus II	4
GNEG 1121	Engr. Appl. Lab II for Math	1	GNEG 2021	Engr. Appl. Lab III for Math	1
ELEG 1043	Computer Appl. In Engineering	3	CHEM 1021	Inorganic Chemistry Lab II	1
CVEG 1011	Intro Engr. Comp. Sci. &Tech.	1	CHEM 1034	Chemistry for Engineers	4
CVEG 1021	Intro to Civil Engr. Lab	1	PHYS 2511	University Physics Lab I	1
COMM 1003	Fund. of Speech Communication	3	PHYS 2513	University Physics I	3
Total		16	Total		17
SUMMER SESSIONS					

## *Civil and Environmental Engineering Programs and Degree Plans*

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First Semester		Hours
*GNEG 2156	Engineering Cooperative Education I	6
<b>Total</b>		<b>6</b>

### **SOPHOMORE YEAR**

First Semester		Hours	Second Semester		Hours
MATH 2043	Differential Equations I	3	MCEG 2013	Thermodynamics I	3
PHYS 2523	University Physics II	3	ELEG 2053	Introduction to Electrical Engineering	3
PHYS 2521	University Physics Lab II	1	CVEG 2053	Engineering Mechanics II	3
POSC 1113	American Government I	3	CVEG 2063	Mechanics of Materials	3
	Science Elective (CHEG 2012 Materials Science or Selected Biology Course)	3	POSC 1123	American Government II	3
CVEG 2043	Engineering Mechanics I	3	CHEG2003	Economic Analysis and Technical Applications	3
CVEG 2001	Emerging Issues in Civil Engineering	1			
<b>Total</b>		<b>17</b>	<b>Total</b>		<b>18</b>

### **SUMMER SESSIONS**

First Semester		Hours
*CVEG 3156	Civil Engineering Internship I	6
<b>Total</b>		<b>6</b>

### **JUNIOR YEAR**

First Semester		Hours	Second Semester		Hours
MATH 3685	Math for Engineers	5	HIST 1323	The U.S.-1876 to Present	3
CVEG 3073	Structural Analysis	3	CVEG 3023	Geotechnical Engineering	3
CVEG 3063	Hydraulics	3	CVEG 3083	Steel Design	3
	Humanities Electives	3	CVEG 3053	Transportation Engineering	3
HIST 1313	U.S. to 1876	3	CVEG 3043	Environmental Engineering	3
CVEG 3031	Construction Materials Lab	1			
<b>Total</b>		<b>18</b>	<b>Total</b>		<b>15</b>

### **SUMMER SESSIONS**

First Semester		Hours
*CVEG 4156	Civil Engineering Internship II	6
<b>Total</b>		<b>6</b>



*Civil and Environmental Engineering Programs and Degree Plans*

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SENIOR YEAR					
First Semester		Hours	Second Semester		Hours
CVEG 4013	Reinforced Concrete	3	CVEG 4063	Water Resources Engr.	3
CVEG 4053	Transportation Engr. Design	3		Visual and Performing Arts	3
CVEG 4043	Environmental Engr. Design	3		Behavioral or Social Science Elective	3
CVEG 4473	Senior Design and Professionalism I	3	CVEG 4483	Senior Design and Professionalism II	3
	Technical Elective	3		Technical Elective	3
GNEG 3051	Professional Engineering I	1			
Total		16	Total		15
			Total Hours		132

\*Course may be taken for credit during a summer internship, but is not required in degree plan.

Most courses in the Roy G. Perry College of Engineering will be offered only once a year. Courses listed in the *First Semester* in the **SUGGESTED DEGREE PROGRAM SEQUENCE** will be offered in the fall semester and may not be available in the spring and summer semesters. Courses listed in the *Second Semester* in the **SUGGESTED DEGREE PROGRAM SEQUENCE** will be offered in the spring semester and may not be available in the fall and summer semester.

## ***Department of Computer Science***

### **ADMINISTRATIVE OFFICER**

Yonggao Yang, *Interim Department Head*

### **FACULTY**

Kiranmai Bellam, *Computer Science*

Sherri S. Frizell, *Computer Science*

Lei Huang, *Computer Science*

Ravi Iyengar, *Computer Science*

Lin Li, *Computer Science*

Akhtar Lodgher, *Computer Science*

Yi Lu, *Computer Science*

J. D. Oliver, *Computer Science*

Myrtle M. Tompkins, *Computer Science*

The mission of the Department of Computer Science consists of three interrelated components: providing the highest quality instruction to the students, conducting leading-edge research in computer science and engineering, and providing leadership and service to our professional communities. Computer Science's faculty and staff are committed to excellence and updating the program to meet the present and future needs of industry and the society.

### **PURPOSE AND GOALS**

The Bachelor of Science in Computer Science Program is designed to:

1. Provide a high quality degree program in computer science that will prepare students for lifelong learning as they pursue professional careers in computer science and leadership roles in the society in which they serve.
2. Provide our students with a strong foundation, state-of-the-art techniques, methodologies, and tools to specify, design and develop computer-based solutions to complex systems problems.
3. Provide opportunities for faculty and students to contribute to the body of knowledge that serves the profession, by engaging in research, scholarly and other activities which support their interests and are in agreement with the goals and objectives of the College, and the University.
4. Prepare our students to communicate well, both orally and in writing, on moral and ethical development, in knowledge of the liberal arts, and on commitment to services to others.

## Admission Requirements

**Table 1. First-time Freshmen Requirements for Direct Admission to the Computer Science Program**

Academic Major	Meet PVAMU Admission Standards	High School GPA	SAT/ACT	High School Rank	THEA Passed
Computer Science	Yes	3.00	930/19	Top 25%	Yes (all subjects)

**Table 2. First-time Freshmen Requirements for Conditional Admission to the Computer Science Program**

Academic Major	Meet PVAMU Admission Standards	High School GPA	SAT/ACT	High School Rank	THEA Passed
Computer Science	Yes	2.50	820/17	Top 50%	No

**Table 3. Transfer Students Requirements for Direct Admission to the Computer Science Program**

Academic Major	Meet PVAMU Admission Standards	Transfer Grades	Transfer GPA (Math, Science and Engineering)
Computer Science	Yes	“C” or greater	2.50

These tables represent a summary of admission requirements. For more detailed requirements see the section in the catalog pertaining to the Roy G. Perry College of Engineering Admission.

## PROFESSIONAL AND HONOR SOCIETIES

The Department sponsors a certified student chapter of the *Association for Computing Machinery. Membership* (local and national) is open to all fulltime Computer Science majors. The department also sponsors *Upsilon Phi Epsilon* (Computer Science Honor Society) for all Computer Science majors with a GPA of 3.0 or above. Any student having completed 64 semester hours of course work (18 hours of core computer science courses) is eligible for consideration by the society.

## ACCREDITATION STATUS

The Computer Science program is accredited by the Computing Accreditation Commission of ABET, Inc., 111 Market Place, Suite 1050, Baltimore, MD 21202 – Telephone: 410-347- 7700.

**BACHELOR OF SCIENCE IN COMPUTER SCIENCE DEGREE PROGRAM REQUIREMENTS**

<b>Core Curriculum.....</b>	<b>42 SCH</b>
All Computer Science Core Curriculum requirements are shown in the suggested degree program. All Computer Science majors must take ENGL 1123, ENGL 1143, COMP 2013, MATH 3023, PHYS 2513, CHEM 1033 or BIOL 1113 (Please refer to the Science Sequence option in the Natural Science Area requirements section), as part of the University Core Curriculum	
<b>College Requirements.....</b>	<b>10 SCH</b>
MATH 1124 and 2024 .....	8 SCH
GNEG 1121 and 2021 .....	2 SCH
<b>Major Requirements.....</b>	<b>48 SCH</b>
COMP 1011, 1021, 1214, 1224, 2033, 2103, 3033, 3043, 3053, 3063, 3223, 4001, 4072, 4082, 4113, 4123, 4133, and 4953	
<b>Computer Science Electives (Department approved Computer Science Elective) .</b>	<b>6 SCH</b>
<b>Computer Science Electives (All upper division courses).....</b>	<b>6 SCH</b>
<b>Natural Sciences Area Requirements.....</b>	<b>6 SCH</b>
Students are required to take all courses in Sequence 1, or Sequence 2, or Sequence 3. The students meet the 12 hours Science requirement by taking 6 hours from the core curriculum and the remaining 6 hours from the following:	
<b>Science Sequence 1:</b> CHEM 1033, CHEM 1011, CHEM 1043, CHEM 1021, PHYS 2513, and PHYS 2511	
<b>Science Sequence 2:</b> CHEM 1033, CHEM 1011, PHYS 2513, PHYS 2511, PHYS 2523, and PHYS 2521	
<b>Science Sequence 3:</b> BIOL 1113, BIOL 1111, PHYS 2513, PHYS 2511, PHYS 2523, and PHYS 2521	
<b>Math Area Requirements.....</b>	<b>3 SCH</b>
MATH 3073	
<b>Total Degree Requirements .....</b>	<b>121 SCH</b>

### Computer Science Suggested Lower Level Electives

The following two courses cannot be used as upper level Computer Science courses

COMP 2003 Introduction to Web design and Multimedia

COMP 2143 Introduction to Java

### Electives must be 3000 level or above

COMP 1811 Introduction to Game Design and Development

COMP 1821 Introduction to Game Developing Environment

COMP 2813 Game Design and Develop I

COMP 2821 Game Design and Develop II

COMP 3113 Object-Oriented Analysis and Design

COMP 3203 System Analysis and Design

COMP 3213 Graphics and Visual Computing

COMP 3811 Virtual Reality and Visualizing

COMP 3823 Computer Graphics and Programming

COMP 4063 Artificial Intelligence

COMP 4073 Special Topics

COMP 4843 Human-Computer Interaction

COMP 4963 Introduction to Service Computing

COMP 4991 Independent Study

COMP 4992 Independent Study

COMP 4993 Independent Study

### Technical Electives through Five-Year BS/MS Degree Plan Option

Students may, upon approval to the Five-Year BS/MS Degree Plan Option (see Roy G. Perry College of Engineering Academic Programs and Degree Plans), apply up to six semester-credit hours of graduate courses toward technical electives requirements.

### Eligibility to Take Upper Division College Courses

The Roy G. Perry College of Engineering requires an eligibility standard for the students to take upper division college courses. Students must have completed or be currently enrolled in all lower division (1000 and 2000 level) courses in English, mathematics, science, and engineering to be eligible to enroll in upper division (3000 or 4000 level) courses in the Roy G. Perry College of Engineering. Students in Computer Science Program must get a “C” or better in each of the Math, Science, English, and Computer Science courses to be eligible to enroll in upper division (3000 or 4000 level) courses in the College. Students transferring to the Roy G. Perry College of Engineering with 60 or more semester hours from another institution will be allowed a period of one semester to comply.

### Requirements for Computer Science as a Minor Field..... 31 SCH

COMP 1214, 1224, 2013, and 2033 and nine semester hours of upper-division

courses..... 23 SCH

MATH 1124 and 2024..... 8 SCH

COMPUTER SCIENCE SUGGESTED DEGREE PROGRAM SEQUENCE  
(TOTAL 121)

FRESHMAN YEAR					
First Semester		Hours	Second Semester		Hours
MATH 1124	Calculus I	4	ENGL 1123	Freshman Composition I	3
GNEG 1121	Engineering Appln. Lab II for Math	1	MATH 2024	Calculus with Analytic Geometry II	4
	Science Course*	3	GNEG 2021	Engineering Appln. Lab III for Math	1
	Science Course Lab*	1	COMM 1003	Fundamentals of Speech Comm.	3
COMP 1011	Intro to Engr. & CS Tech.	1	COMP 1224	Computer Science and Lab II	4
COMP 1021	Intro to CS Lab.	1			
COMP 1214	Computer Science and Lab I	4			
Total		15	Total		15
SOPHOMORE YEAR					
First Semester		Hours	Second Semester		Hours
COMP 2013	Data Structures	3	COMP 2033	Assembly Language	3
HIST 1313	U.S. to 1876	3	COMP	Elective	3
COMP 2103	Discrete Structure	3	COMP	Elective	3
ENGL 1143	Technical Writing	3	POSC 1113	American Government I	3
	Science Course*	3		Science Course*	3
	Science Course Lab*	1		Science Course Lab*	1
Total		16	Total		16
JUNIOR YEAR					
First Semester		Hours	Second Semester		Hours
POSC 1123	American Government II	3	COMP 3053	Analysis of Algorithms	3
MATH 3073	Linear Algebra	3	COMP 3063	Operating Systems	3
COMP 3033	Digital Logic Circuit	3	COMP 3223	Software Engineering	3
COMP 3043	Computer Organization	3	COMP	Upper-level CS Elective	3
MATH 3023	Probability and Statistics	3		Humanities and Arts	3
Total		15	Total		15

SENIOR YEAR					
First Semester		Hours	Second Semester		Hours
COMP 4001	Ethics and Soc. Issues in Computing	1	COMP 4082	Senior Design Project II	2
COMP 4072	Senior Design Project I	2	COMP 4113	Programming Languages Design	3
COMP 4123	Computer Networks	3	COMP	Upper-level Computer Science	3
COMP 4133	Formal Languages Automata	3	HIST 1323	The U.S.-1876 to Present	3
COMP 4953	Database Management	3		Visual and Performing Arts	3
	Social and Behavioral Science	3			
<b>Total</b>		<b>15</b>	<b>Total</b>		<b>14</b>
				<b>Total Hours</b>	<b>121</b>

\* Allowed Science Sequences:

**Science Sequence 1:** CHEM 1033, CHEM 1011, CHEM 1043, CHEM 1021, PHYS 2513, PHYS 2511

**Science Sequence 2:** CHEM 1033, CHEM 1011, PHYS 2513, PHYS 2511, PHYS 2523, PHYS 2521

**Science Sequence 3:** BIOL 1113, BIOL 1111, PHYS 2513, PHYS 2511, PHYS 2523, PHYS 2521

Most courses in the Roy G. Perry College of Engineering will be offered only once a year. Courses listed in the **First Semester** in the **SUGGESTED DEGREE PROGRAM SEQUENCE** will be offered in the fall semester and may not be available in the spring and summer semesters. Courses listed in the **Second Semester** in the **SUGGESTED DEGREE PROGRAM SEQUENCE** will be offered in the spring semester and may not be available in the fall and summer semester.

## ***Department of Electrical and Computer Engineering***

### **ADMINISTRATIVE OFFICER**

John O. Attia, *Department Head*

### **FACULTY**

Warsame H. Ali, *Electrical and Computer Engineering*  
Annamalai Annamalai, *Electrical and Computer Engineering*  
John O. Attia, *Electrical and Computer Engineering*  
Penrose S. Cofie, *Electrical and Computer Engineering*  
Suxia Cui, *Electrical and Computer Engineering*  
John H. Fuller, *Electrical and Computer Engineering*  
Kelvin K. Kirby, *Electrical and Computer Engineering*  
Siew T. Koay, *Electrical and Computer Engineering*  
A. Anil Kumar, *Electrical and Computer Engineering*  
Franklin Nkansah, *Electrical and Computer Engineering*  
Pamela Obiomon, *Electrical and Computer Engineering*  
Kolawole Olasupo, *Electrical and Computer Engineering*  
Lijun Qian, *Electrical and Computer Engineering*  
Matthew Sadiku, *Electrical and Computer Engineering*  
Charlie L. Tolliver, *Electrical and Computer Engineering*  
Dhadesugoor R. Vaman, *Electrical and Computer Engineering*  
Richard Wilkins, *Electrical and Computer Engineering*

### **PURPOSE AND GOALS**

The primary purpose of the Electrical Engineering Program is to prepare students for a successful professional career in electrical engineering. The curriculum is structured to provide each student with a sound background in mathematics, physical sciences, engineering sciences and a thorough foundation in electrical engineering for the analysis and design of electrical and electronic circuits and systems.

The program educational objectives of the Electrical Engineering program at Prairie View A&M University are:

1. To produce graduates for successful careers in Electrical Engineering and other related fields.
2. To produce graduates who can secure employment within the State of Texas and, the nation, and the world.
3. To produce graduates who engage in self-development activities through professional study and personal research that will allow them to adapt to evolving technological challenges.
4. To produce graduates who can successfully complete graduate degrees in Electrical Engineering or other disciplines that they may choose.



## **Computer Engineering**

Computer Engineering is a field of engineering that is mainly concerned with applying computer hardware and software to solve practical problems. The primary purpose of the Computer Engineering Program is to prepare students for a successful professional career in the field of computer engineering. The curriculum is structured to provide each student with a strong foundation in the basic sciences of Chemistry, Mathematics, and Physics. In addition, Computer Engineering students will take courses in the following areas: electric circuits, electronics, digital logic circuits, computer organization and architecture, computer interfacing, programming languages, data structures, operating systems, software engineering and microprocessor systems.

The program educational objectives of the Computer Engineering program at Prairie View A&M University are:

1. To produce graduates for successful careers in engineering Computer Engineering and other related fields.
2. To produce graduates who can secure employment within the State of Texas, the nation, and the world.
3. To produce graduates who engage in self-development activities through professional study and personal research that will allow them to adapt to evolving technological challenges.
4. To produce graduates who can successfully complete graduate degrees in Computer Engineering or other disciplines that they may choose.

## **Admission Requirements**

**Table 1. First-time Freshmen Requirements for Direct Admission to the Computer and Electrical Engineering Programs**

Academic Major	Meet PVAMU Admission Standards	High School GPA	SAT/ACT	High School Rank	THEA Passed
Computer and Electrical Engineering	Yes	3.00	930/19	Top 25%	Yes (all subjects)

**Table 2. First-time Freshmen Requirements for Conditional Admission to the Computer and Electrical Engineering Programs**

Academic Major	Meet PVAMU Admission Standards	High School GPA	SAT/ACT	High School Rank	THEA Passed
Computer and Electrical Engineering	Yes	2.50	820/17	Top 50%	No

**Table 3. Transfer Students Requirements for Direct Admission to the Computer and Electrical Engineering Programs**

Academic Major	Meet PVAMU Admission Standards	Transfer Grades	Transfer GPA (Math, Science and Engineering)
Computer and Electrical Engineering	Yes	“C” or greater	2.50

These tables represent a summary of admission requirements. For more detailed requirements see the section in the catalog pertaining to the Roy G. Perry College of Engineering Admission.

**PROFESSIONAL AND HONOR SOCIETIES**

The *Eta Kappa Nu Electrical Engineering Honor Society* and the *Institute of Electrical and Electronic Engineer*. The two electrical engineering organizations have student chapters in the department. Additional organizations are listed in the section on college requirements. Electrical engineering and computer engineering majors are eligible for membership in the professional and honor societies of the college and university.

*Institute of Electrical and Electronic Engineers (IEEE)*. A professional society open for membership to engineering students who are majoring in electrical or computer engineering and to other students who have interests in electrical engineering. The chapter is affiliated with the national professional engineering society of the Institute of Electrical and Electronic Engineers.

*Eta Kappa Nu Electrical Engineering Honor Society*. A national honor society recognizing academic excellence in future engineers and those engineers who have made outstanding contributions to society. Membership is by invitation to the top junior and senior students majoring in electrical or computer engineering.

## **Electrical Engineering Program**

### ***Accreditation Status***

The Electrical Engineering program is accredited by the Engineering Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202 – telephone: 410-347-7700.

### **BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING DEGREE PROGRAM REQUIREMENTS**

<b>Core Curriculum.....</b>	<b>42 SCH</b>
All Electrical Engineering Core Curriculum requirements are shown in the suggested degree program. Students in the Electrical Engineering Program are required to take PHYS 2513 and PHYS 2523 to satisfy the Natural Science requirements, ELEG 1043 to satisfy the Computing requirement and MATH 2043 to satisfy Mathematics requirement.	
<b>College and Support Area Requirements .....</b>	<b>44 SCH</b>
MATH 1124, 2024, and 3685 .....	13 SCH
CHEM 1021 and 1034 .....	5 SCH
PHYS 2511 and 2521.....	2 SCH
CHEG 2003 .....	3 SCH
GNEG 1121 and 2011.....	2 SCH
CVEG 2454 .....	4 SCH
ELEG 1011, 1021, and 2023.....	5 SCH
MCEG 2013.....	3 SCH
GNEG 3051 .....	1 SCH
ELEG, CHEG, CVEG, or MCEG 4473 and 4483 .....	6 SCH
<b>Major Requirements.....</b>	<b>37 SCH</b>
ELEG 2011, 3013, 3021, 3033, 3023, 3043, 3063, 3071, 3073, 4003, 4011, 4013, 4033, 4043, and 4073	
<b>Technical Electives.....</b>	<b>6 SCH</b>
<b>Electrical and Computer Engineering Laboratory Elective .....</b>	<b>1 SCH</b>
<b>Total Degree Requirements .....</b>	<b>130 SCH</b>

## **ELECTRICAL ENGINEERING SUGGESTED TECHNICAL ELECTIVES**

At least one technical elective must be taken in the Electrical Engineering Department. In addition, one Electrical Engineering Laboratory elective should be taken to satisfy degree requirements. Internship and co-op courses are not suitable as technical electives.

### **Microelectronics Area:**

ELEG 4223 Electronic and Photonic Materials and Devices

ELEG 4263 VLSI Circuit Design

ELEG 4273 Analog and Mixed Signal Techniques I

ELEG 4393 Analog and Mixed Signal Techniques II

### **Communications/Signal Processing Area:**

ELEG 4053 Digital Signal Processing

ELEG 4163 Digital Signal Processing Design and Testing Techniques

ELEG 4313 Broadband Communication Systems I

ELEG 4323 Broadband Communication Systems II

### **Computer Engineering Area:**

ELEG 4393 Computer Architecture and Organization

ELEG 4253 Embedded Systems Design

ELEG 4263 VLSI Circuit Design

ELEG 4353 Advanced Logic Design

### **Power and Control Systems Area:**

ELEG 4243 Power Electronics

ELEG 4023 Power Systems Engineering

ELEG 4283 Reliability Analysis of Electrical Facilities

### **Electrical and Computer Engineering Laboratory Electives:**

ELEG 3041 Microelectronics Processing and Characterization Lab

ELEG 4031 Communication Laboratory

ELEG 4021 Power Laboratory

ELEG 4151 Digital Signal Processing Solutions Laboratory

ELEG 4291 Mixed Signal Testing Techniques Laboratory

ELEG 4311 Advanced Logic Design Laboratory

### **Other Technical Electives:**

CVEG 4093 Systems Engineering

MCEG 3023 Thermodynamics II

MCEG 3063 Fluid Mechanics

MATH 4063 Numerical Analysis

MATH 3073 Linear Algebra

### **Technical Electives through Five-Year BS/MS Degree Plan Option**

Students may, upon approval to the Five-Year BS/MS Degree Plan Option (see Roy G. Perry College of Engineering Academic Programs and Degree Plans), apply up to six semester-credit hours of graduate courses toward technical electives requirements.

### **Eligibility to Take Upper Division College Courses**

The Roy G. Perry College of Engineering requires an eligibility standard for the students to take upper division college courses. Students must have completed or be currently enrolled in all lower division (1000 and 2000 level) courses in English, Mathematics, Science, and Engineering to be eligible to enroll in upper division (3000 or 4000 level) courses in the Roy G. Perry College of Engineering. Students in the Electrical Engineering Program must complete a prescribed list of courses in the following with a minimum Grade Point Average (GPA) of 2.5 to be eligible to enroll in upper division (3000 or 4000 level) courses in the College.

Students transferring to the Roy G. Perry College of Engineering with 60 or more semester hours from another institution will be allowed a period of one semester to comply.

CHEM 1034 Chemistry for Engineers

CHEM 1021 Inorganic Chemistry Lab II

ENGL 1143 Technical Writing

PHYS 2513 University Physics I

PHYS 2511 General University Physics Lab I

MATH 1124 Calculus with Analytic Geometry I

MATH 2024 Calculus with Analytic Geometry II

ELEG 1011 Introduction to Engineering, Computer Science and Technology

ELEG 1021 Introduction to Electrical Engineering Lab

ELEG 1043 Computer Applications in Engineering

### **Requirements for Electrical Engineering as a Minor Field**

Students must complete the following 23 SCH of courses to satisfy the minor requirements:

ELEG 2011 Electrical Circuit Lab

ELEG 2023 Network Theory I

ELEG 3013 Network Theory II

ELEG 3033 Principles of Solid State Devices

ELEG 3043 Electronics I

ELEG 3063 Logic Circuits

ELEG 3021 Logic Circuits Laboratory

ELEG 3023 Signals and Systems

ELEG 4013 Electromechanical Energy Conversion



## ELECTRICAL ENGINEERING SUGGESTED DEGREE PROGRAM SEQUENCE

FRESHMAN YEAR					
First Semester		Hours	Second Semester		Hours
ENGL 1123	Freshman Composition I	3	ENGL 1143	Technical Writing	3
MATH 1124	Calculus I	4	MATH 2024	Calculus II	4
GNEG 1121	ENGR Appl. Lab II for Math	1	GNEG 2021	Engr Appl. Lab III for Math	1
ELEG 1043	Comp Appl. Engr	3	PHYS 2513	University Physics I	3
ELEG 1011	Intro to Engr. CS & Tech	1	PHYS 2511	General University Physics Lab I	1
ELEG 1021	Intro to Electrical Engr. Lab	1	CHEM 1034	Chem. For Engrs.	4
COMM 1003	Fund. of Speech Communication	3	CHEM 1021	Inorganic Chemistry Laboratory	1
<b>Total</b>		<b>16</b>	<b>Total</b>		<b>17</b>

SOPHOMORE YEAR					
First Semester		Hours	Second Semester		Hours
MATH 2043	Differential Equations	3	ELEG 2023	Network Theory I	3
PHYS 2523	University Physics II	3	ELEG 2011	Elect. Cir. Lab	1
PHYS 2521	General University Physics Lab II	1	MCEG 2013	Thermodynamics I	3
HIST 1313	U.S. to 1876	3	CVEG 2454	Statics and Dynamics	4
POSC 1113	American Government I	3	CHEG 2003	Economic Analysis and Technical Applications	3
	Visual and Performing Arts Elective	3	HIST 1323	The U.S.-1876 to Present	3
<b>Total</b>		<b>16</b>	<b>Total</b>		<b>17</b>

JUNIOR YEAR					
First Semester		Hours	Second Semester		Hours
			ELEG 3023	Signals and Systems	3
MATH 3685	Math for Engineers	5	ELEG 3043	Electronics I	3
ELEG 3013	Network Theory II	3	ELEG 4011	Electronics Lab	1
ELEG 3063	Logic Circuits	3	GNEG 3051	Professional Engineering I	1
ELEG 3021	Logic Circuits Lab	1	ELEG 3023	Signals & Systems	3
ELEG 3033	Principles of Solid State Devices	3		Behavioral or Soc. Science Elective	3
POSC 1123	American Govt. II	3	ELEG 3073	Microprocessor System Design	3
			ELEG 3071	Microprocessor Systems Lab	1
<b>Total</b>		<b>18</b>	<b>Total</b>		<b>15</b>

SENIOR YEAR					
First Semester		Hours	Second Semester		Hours
ELEG 4043	Electronics II	3	ELEG 4073	Control Systems	3
ELEG 4033	Electro. Field Theory	3	ELEG 4483	Senior Design and Professionalism II	3
ELEG 4003	Communication Theory	3	ELEG 4033	Visual &Perf. Arts	3
ELEG 4473	Senior Design and Professionalism I	3		Technical Electives	3
ELEG 4013	Energy Conversion	3		Technical Electives	3
	Technical Elective	3		ECE Lab. Elective	1
Total		15	Total		16
Total Hours					130

Most courses in the Roy G. Perry College of Engineering will be offered only once a year. Courses listed in the *First Semester* in the **SUGGESTED DEGREE PROGRAM SEQUENCE** will be offered in the fall semester and may not be available in the spring and summer semesters. Courses listed in the *Second Semester* in the **SUGGESTED DEGREE PROGRAM SEQUENCE** will be offered in the spring semester and may not be available in the fall and summer semesters.

COMPUTER ENGINEERING PROGRAM

ACCREDITATION STATUS

The Computer Engineering Program is accredited by the Engineering Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202 – telephone: (410) 347-7700.

BACHELOR OF SCIENCE IN COMPUTER ENGINEERING DEGREE PROGRAM REQUIREMENTS

Core Curriculum.....	42 SCH
All Electrical Engineering Core Curriculum requirements are shown in the suggested degree program. Students in the Electrical Engineering Program are required to take PHYS 2513 and PHYS 2523 to satisfy the Natural Science requirements, COMP 1213 to satisfy the Computing requirement and MATH 2043 to satisfy Mathematics requirement.	
College and Support Area Requirements .....	45 SCH
MATH 1124, 2024, 2053, and 3023 .....	14 SCH
CHEM 1021 and 1034 .....	5 SCH
PHYS 2511 and 2521.....	2 SCH
CHEG 2003 .....	3 SCH
CVEG 2454 .....	4 SCH
GNEG 1121 and 2021.....	2 SCH
ELEG 1011, 1021, and 2023.....	5 SCH
MCEG 2013.....	3 SCH
GNEG 3051 .....	1 SCH



ELEG, CHEG, CVEG, or MCEG 4473 and 4483 .....	6 SCH
GNEG 1121, 2021 .....	2 SCH

**Major Requirements.....41 SCH**  
ELEG 2011, 3013, 3021, 3023, 3033, 3043, 3063, 3071, 3073, 4253, 4303, 4333, and 4393; COMP 1211, 1221, 1223, and 2013

**Technical Electives.....3 SCH**

**Total Degree Requirements ..... 131 SCH**

## **COMPUTER ENGINEERING SUGGESTED TECHNICAL ELECTIVES**

Internship and co-op courses are not suitable as technical electives.

### **Electrical and Computer Engineering Courses:**

ELEG 4263 VLSI Circuit Design  
ELEG 4053 Digital Signal Processing  
ELEG 4273 Analog and Mixed Signal Techniques I  
ELEG 4343 Microcontroller Applications  
ELEG 4353 Advanced Logic Design

### **Other Technical Electives:**

MATH 3073 Linear Algebra  
COMP 3113 Object-oriented Analysis and Design  
COMP 3143 Introduction to Java  
COMP 3063 Operating System  
COMP 3223 Software Engineering  
COMP 4953 Data Base Management

### **Eligibility to Take Upper Division College Courses**

The Roy G. Perry College of Engineering requires an eligibility standard for the students to take upper division college courses. Students must have completed or be currently enrolled in all lower division (1000 and 2000 level) courses in English, Mathematics, Science, and Engineering to be eligible to enroll in upper division (3000 or 4000 level) courses in the Roy G. Perry College of Engineering. Students in the Electrical Engineering Program must complete a prescribed list of courses in the following with a minimum Grade Point Average (GPA) of 2.5 to be eligible to enroll in upper division (3000 or 4000 level) courses in the College. Students transferring to the Roy G. Perry College of Engineering with 60 or more semester hours from another institution will be allowed a period of one semester to comply.

CHEM 1034 Chemistry for Engineers  
CHEM 1021 Chemistry Lab II  
ENGL 1143 Technical Writing  
PHYS 2513 University Physics I

PHYS 2511 General University Physics Lab I  
MATH 1124 Calculus with Analytic Geometry I  
MATH 2024 Calculus with Analytic Geometry II  
ELEG 1011 Introduction to Engineering in Computer Science Tech  
ELEG 1021 Introduction to Electrical Engineering Lab  
COMP 1213 Computer Science I

**COMPUTER ENGINEERING SUGGESTED DEGREE PROGRAM SEQUENCE**

		FRESHMAN YEAR			
First Semester		Hours	Second Semester		Hours
ENGL 1123	Freshman Composition I	3	ENGL 1143	Technical Writing	3
MATH 1124	Calculus I	4	MATH 2024	Calculus II	4
COMM 1003	Fund. Of Speech	3	COMP 1224	Computer Science and Lab II	4
GNEG 1121	Engr. Appl. Lab II for Math	1	PHYS 2513	University Physics I	3
ELEG 1011	Intro Engr, CS & Tech	1	PHYS 2511	General University Physics Lab I	1
ELEG 1021	Intro Electrical Engr Lab	1	GNEG 2021	Engr. Appl. Lab III for Math	1
COMP 1214	Computer Science and Lab I	4			
Total		17	Total		16

## Electrical and Computer Engineering Programs and Degree Plans

SOPHOMORE YEAR					
First Semester		Hours	Second Semester		Hours
MATH 2043	Differential Equations	3	ELEG 2023	Network Theory I	3
PHYS 2523	University Physics II	3	MATH 2053	Discrete Math	3
PHYS 2521	General University Physics Lab II	1	MCEG 2013	Thermodynamics I	3
CHEM 1034	Chem. For Engrs.	4	ELEG 2011	Elect. Cir. Lab	1
COMP 2013	Data Structures	3	CVEG 2454	Statics & Dynamics	4
HIST 1313	U.S. to 1876	3	CHEG 2003	Economic Analysis and Technical Applications	3
CHEM 1021	Inorganic Chem Lab	1			
<b>Total</b>		<b>18</b>	<b>Total</b>		<b>17</b>
JUNIOR YEAR					
First Semester		Hours	Second Semester		Hours
MATH 3023	Probability and Statistics	3	ELEG 3023	Signals & Systems	3
ELEG 3013	Network Theory II	3	ELEG 3073	Microprocessor System Design	3
ELEG 3063	Logic Circuits	3	ELEG 3071	Microprocessor System Design Lab	1
ELEG 3021	Logic Circuits Lab	1	ELEG 4393	Comp Arch. & Org	3
HIST 1323	US 1876 to Present	3	ELEG 3043	Electronics I	3
ELEG 3033	Principles of Solid State Devices	3	GNEG 3051	Professional Engineering I	1
			POSC 1113	American Govt. I	3
<b>Total</b>		<b>16</b>	<b>Total</b>		<b>17</b>
SENIOR YEAR					
First Semester		Hours	Second Semester		Hours
ELEG 4253	Embedded Systems Design	3	ELEG 4333	Computer Networks	3
ELEG 4303	Digital Design	3	ELEG 4483	Senior Design & Professionalism II	3
ELEG 4473	Senior Design & Professionalism I	3		Technical Electives	3
POSC 1123	American Govt. II	3		Visual & Perf. Arts	3
	Humanities Elective	3			
	Behavioral & Soc. Sci.	3			
<b>Total</b>		<b>18</b>	<b>Total</b>		<b>12</b>
<b>Total Hours</b>					<b>131</b>

Most courses in the Roy G. Perry College of Engineering will be offered only once a year. Courses listed in the *First Semester* in the **SUGGESTED DEGREE PROGRAM SEQUENCE** will be offered in the fall semester and may not be available in the spring and summer semesters. Courses listed in the *Second Semester* in the **SUGGESTED**

**DEGREE PROGRAM SEQUENCE** will be offered in the spring semester and may not be available in the fall and summer semester.

## ***Department of Engineering Technology***

### **ADMINISTRATIVE OFFICER**

Mohan A. Ketkar, Interim Department Head

### **FACULTY**

Faizul Islam, *Electrical Engineering Technology, Neural Network Model, Stress Analysis of Solids using BEM and FEM*

Bobby Kennard, *Computer-Aided Drafting and Design, Industrial Safety Management*

Mohan A. Ketkar, *Electrical Engineering Technology, Communication Electronics, Instrumentation, Mixed Signals*

David A. Kirkpatrick, *Electrical Engineering Technology, Circuits and Systems*

Sarhan M. Musa, *Computer Engineering Technology, Computer Communications and Networks, Electromagnetics, Nanotechnology, Optics and Laser*

Nripendra N. Sarker, *Computer Engineering Technology, Software & Hardware Engineering*

Yonghui Wang, *Computer Engineering Technology, Image/ Video Processing, Visualization*

Yongpeng Zhang, *Electrical Engineering Technology, Robotics, Controls, Mixed Signals*

### **PURPOSE AND GOALS**

The Department of Engineering Technology offers educational programs and experiences designed to prepare students to meet the challenging demands of industry, society, and the nation as a whole. The department is organized to offer instruction in computer engineering technology and electrical engineering technology. Each program prepares students to work as engineering technologists capable of applying engineering principles to design, construction, operation, and industrial production.

The goal of the Department of Engineering Technology is to produce technology professionals capable of applying engineering principles in design, construction and maintenance of electrical and computer systems.

### **SPECIAL EMPHASIS OPTIONS**

In addition to the degree programs, students may select special options available in the electrical engineering technology and computer engineering technology degree programs.

### **ELIGIBILITY TO TAKE UPPER DIVISION COLLEGE COURSES**

The Roy G. Perry College of Engineering requires an eligibility standard for the students to take upper division college courses. Students must have completed or be currently enrolled in all lower division (1000 and 2000 level) courses in English, Mathematics, Science, and Engineering to be eligible to enroll in upper division (3000 or 4000 level) courses in the Roy G. Perry College of Engineering. Students in the Engineering Technology Programs must complete a prescribed list of courses listed below in the

following with a minimum Grade Point Average (GPA) of 2.5 to be eligible to enroll in upper division (3000 or 4000 level) courses in the College.

Students transferring to the Roy G. Perry College of Engineering with 60 or more semester hours from another institution will be allowed a period of one semester to comply.

MATH 1115 Algebra & Trigonometry  
CPET 1013 Computer Application to Engineering Technology I  
CPET 1023 Computer Application to Engineering Technology II  
ELET 1121 DC/AC Circuits Lab  
ELET 1123 DC/AC Circuits  
ENGL 1133 Freshman Comp II  
PHYS 2113 General Physics I  
PHYS 2111 General Physics Lab I

**Admission Requirements**

**Table 1. First-time Freshmen Requirements for Direct Admission to the Computer Engineering Technology and Electrical Engineering Technology Programs**

Academic Majors	Meet PVAMU Admission Standards	High School GPA	SAT/ACT	High School Rank	THEA Passed
Computer and Electrical Engineering Technology	Yes	2.75	860/18	Top 40%	Yes (all subjects)

**Table 2. First-time Freshmen Requirements for Conditional Admission to the Computer Engineering Technology and Electrical Engineering Technology Programs**

Academic Majors	Meet PVAMU Admission Standards	High School GPA	SAT/ACT	High School Rank	THEA Passed
Computer and Electrical Engineering Technology	Yes	2.00	820/17	Top 60%	No

**Table 3. Transfer Students Requirements for Direct Admission to the Computer Engineering Technology and Electrical Engineering Technology Programs**

Academic Majors	Meet PVAMU Admission Standards	Transfer Grades	Transfer GPA (Math, Science and Engineering)
Computer and Electrical Engineering Technology	Yes	“C” or greater	2.50

These tables represent a summary of admission requirements. For more detailed requirements see the section in the catalog pertaining to the Roy G. Perry College of Engineering Admission.

## **HONOR SOCIETIES, CLUB AND SERVICE ORGANIZATIONS**

*Tau Alpha Pi Engineering Technology Honor Society.* The purpose of this honor society is to provide recognition for a high standard of scholarship among students in the Department of Engineering Technology; to promote and encourage scholastic achievement by offering membership only to outstanding students; and to engender certain desirable qualities of personality, intellect, and character among its members.

*The Engineering Technology Association (ETA)* helps to increase and deepen the interest and knowledge of students enrolled in the electrical engineering technology program. It provides professional orientation in an effort to enlarge students' perspectives and makes them more aware of job opportunities in their field. Membership is open to all students enrolled in the electrical engineering technology program.

The student branch of the *Institute of Electrical and Electronic Engineers (IEEE)*, The IEEE is the world's largest technical professional society. The student branch adheres to the IEEE mission of promoting the engineering technology process of creating, developing, integrating, sharing, and applying knowledge about electronic and information technologies and sciences for the benefit of humanity and the profession. The branch gives the engineering technology students the opportunity to meet and learn from fellow students, as well as faculty members and professionals in the field.

## **BACHELOR OF SCIENCE IN COMPUTER ENGINEERING TECHNOLOGY PROGRAM**

The Bachelor of Science degree program in computer engineering technology is designed to give students a solid foundation in mathematics, basic science, computer hardware and software. Students are provided with a sound technical foundation employing the latest techniques of the discipline. The program is designed to prepare students to assemble, calibrate, install, maintain, troubleshoot, and redesign modern computers and the various peripherals they may control, network design, administration and management.

Graduates of the Computer Engineering Technology Program are in high demand because of the current expansion of computer and computer-related industries. Demand is heightened by the increasing application of computer technology to all aspects of engineering and industrial development, as well as to consumer and consumer-oriented industries. As a result, there is an increasing need for well-trained microprocessor application designers, interface designers, software specialists, and sales representatives.

**PROGRAM EDUCATIONAL OBJECTIVES**

The program educational objectives of the Computer Engineering Technology Program are to produce graduates who will:

- 1. Have successful careers in Computer Engineering Technology and related fields, thereby, fulfilling the special purpose mission of the university in serving a diverse ethnic and socioeconomic population;
- 2. Have the foundation of life-long learning skills for advancing their careers by obtaining professional certifications and registrations, thereby moving into other lucrative professions and leadership positions;
- 3. Be adequately prepared to obtain admissions to pursue graduate degrees and;
- 4. Understand and maintain professional ethics and the need to safeguard the public, the environment, and the natural resources of the nation.

**ACCREDITATION STATUS**

The Computer Engineering Technology Program is accredited by the Engineering Technology Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202 – telephone: 410-347-7700.

**COMPUTER ENGINEERING TECHNOLOGY DEGREE  
PROGRAM REQUIREMENTS**

**Core Curriculum..... 42 SCH**  
All Engineering Technology Core Curriculum requirements are shown in the suggested degree program.

**College Requirements..... 24 SCH**  
PHYS 2111, 2113, 2121, and 2123..... 8 SCH  
TECH 3203..... 3 SCH  
MATH 1115,1124, and 2024..... 8 SCH  
CPET 1011 and 1021..... 2 SCH  
GNEG 1111, 1121, and 2021..... 3 SCH

**Major Requirements..... 48 SCH**  
CPET 1011, 1021, 1023, 2111, 2113, 2503, 3013, 3161, 3163, 3231, 3233, 4051, 4053, 4061, 4063, 4082, 4092, 4111, 4113, 4151, 4153, 4361, 4363, 4381, 4383, and 7 semester credit hours from the software technology or computer hardware special emphasis option.

**Support Area Requirements ..... 12 SCH**  
ELET 1121, 1123, 2221, 2223, 2341, 2343..... 12 SCH

**Total Degree Requirements ..... 126 SCH**

**Requirements for Computer Engineering Technology as a Minor Field..... 25 SCH**  
Students must complete at least 25 SCH of courses from the following list to satisfy the requirements of the Minor of Computer Engineering Technology. Courses from the



following list taken for other major requirement can be reused for CPET minor requirement.

CPET 1013 Computer Application to Engineering Technology I  
CPET 1023 Computer Application to Engineering Technology II  
CPET 2111 Digital Logic Circuits Laboratory  
CPET 2113 Digital Logic Circuits  
CPET 2503 Math Application for Technology  
CPET 3013 Software Engineering Technology I  
CPET 3161 Computer Architecture Hardware Laboratory  
CPET 3163 Computer Architecture  
CPET 3251 Digital Hardware Design Laboratory  
CPET 3253 Digital Hardware Design  
CPET 4051 Computer Systems Design Laboratory  
CPET 4053 Computer Systems Design  
CPET 4061 Data Communication Methods Laboratory  
CPET 4063 Data Communication Methods  
CPET 4361 Computer Networking Laboratory  
CPET 4363 Computer Networking  
CPET 4381 Digital Signal Processing Applications Laboratory  
CPET 4383 Digital Signal Processing Applications

## **TECHNICAL ELECTIVES FOR SPECIAL EMPHASIS OPTIONS**

### **Computer Hardware**

The computer hardware special emphasis option is designed to cover the electronics, hardware, and software aspects of computers in order to provide a graduate of the computer hardware option with a total computer systems perspective. Specific areas covered in the curriculum are electronics, digital circuits, computer architecture, programming languages ranging from assemblies to high level and microcomputer systems. The program interfaces with associate degree programs in computer engineering technology and related programs.

CPET 3251 Digital Hardware Design Laboratory  
CPET 3253 Digital Hardware Design  
CPET 3333 Cooperative Education II  
CPET 4103 Special Topics  
CPET 4151 Micro Computer Peripheral Hardware Laboratory  
CPET 4153 Micro Computer Peripheral Hardware  
CPET 4391 Programmable Microcontrollers Laboratory  
CPET 4393 Programmable Microcontrollers

### **Software Technology**

The software technology special emphasis option curriculum is designed to cover both hardware and software concepts of computers in order to provide a graduate of the program a comprehensive computer system background. Specific areas covered in the

curriculum are software for microprocessor based system management, microprocessor real-time systems, computer networks and software engineering technology management.

Throughout this special emphasis option program, the student works with modern laboratory test equipment, state of the art computers and microprocessor trainers, and peripherals. The program interfaces with associate degree programs in computer engineering technology and related programs.

CPET 3333 Cooperative Education II

CPET 4013 Software Engineering Technology II

CPET 4103 Special Topics

CPET 4111 Application Microprocessor Software Laboratory

CPET 4113 Application Microprocessor Software

ELET 3023 Computer Applications to Electrical Problems

*Technical electives require departmental approval.*

## COMPUTER ENGINEERING TECHNOLOGY SUGGESTED DEGREE PROGRAM SEQUENCE

		<b>FRESHMAN YEAR</b>			
<b>First Semester</b>		<b>Hours</b>	<b>Second Semester</b>		<b>Hours</b>
CPET 1013	Computer Applications I	3	CPET 1011	Intro to Eng Comp Sc& Tech	1
CHEM 1011	Gen. Inorganic Chem Lab	1	CPET 1021	Intro to CPET Lab	1
CHEM 1013	Gen Inorganic Chemistry	3	CPET 1023	Computer Application II	3
ENGL 1123	Freshman Composition I	3	ELET 1121	DC/AC Circuits Lab	1
MATH 1115	Algebra & Trigonometry	5	ELET1123	DC/AC Circuits	3
GNEG 1111	App Lab I for Math Algebra Trig	1	ENGL 1133	Freshman Composition II	3
			MATH 1124	Calculus/Analytic Geometry I	4
			GNEG 1121	App Lab for Calculus/Ana Geo I	1
<b>Total</b>		<b>16</b>	<b>Total</b>		<b>17</b>
		<b>SOPHOMORE YEAR</b>			
<b>First Semester</b>		<b>Hours</b>	<b>Second Semester</b>		<b>Hours</b>
ELET 2341	Circuit Analysis Lab	1	CPET 2111	Digital Logic Circuits Lab	1
ELET 2343	Circuit Analysis	3	CPET 2113	Digital Logic Circuits	3
MATH 2024	Calculus/Analytical Geometry II	4	CPET 2503	Math App for Technology	3
GNEG 2021	App Lab for Cal/Ana Geo II	1	ELET 2221	Electronics I Lab	1
PHYS 2111	General Physics Lab I	1	ELET 2223	Electronics I	3
PHYS 2113	General Physics I	3	PHYS 2121	General Physics Lab II	3
	Humanities	3	PHYS 2123	General Physics II	3
				Visual & Performing Arts Electice	1
<b>Total</b>		<b>16</b>	<b>Total</b>		<b>18</b>
		<b>JUNIOR YEAR</b>			
<b>First Semester</b>		<b>Hours</b>	<b>Second Semester</b>		<b>Hours</b>
CPET 3231	Microcontroller Programming Lab	1	CPET 3161	Computer Architecture Lab	1
CPET 3233	Microcontroller Programming	3	CPET 3163	Computer Architecture	3
COMM 1003	Fund. of Speech Communication	3	CPET 3013	Software Engineering Tech	3
HIST 1313	The U.S. to 1876	3	TECH 3203	Technical Communications	3
POSC 1113	American Government I	3	HIST 1323	The U.S. 1876 to Present	3
	Behavioral/Social Sciences Elective	3	POSC 1123	American Government II	3
<b>Total</b>		<b>16</b>	<b>Total</b>		<b>16</b>

First Semester	SENIOR YEAR				Hours
	Hours	Second Semester		Hours	
CPET 4051	Computer Systems Design Lab	1	CPET 4361	Computer Networking Lab	1
CPET 4053	Computer Systems Design	3	CPET 4363	Computer Networking	3
CPET 4061	Data Comm. Methods Lab	3	CPET 4381	Digital Signal Processing Lab	1
CPET 4063	Data Comm. Methods	3	CPET 4383	Digital Signal Processing	3
CPET 4082	Senior Project I	2	CPET 4092	Senior Project II	2
	CPET Technical Elective	4		CPET Technical Elective	3
Total		14	Total		13
			Total Hours		126

Most courses in the College of Engineering are offered only once a year. Courses listed in the *First Semester* in the **SUGGESTED DEGREE PROGRAM SEQUENCE** are offered in the fall semester and may not be available in the spring and summer semesters. Courses listed in the *Second Semester* in the **SUGGESTED DEGREE PROGRAM SEQUENCE** are offered in the spring semester and may not be available in the fall and summer semesters.

### **BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING TECHNOLOGY PROGRAM**

The Electrical Engineering Technology Program offers a Bachelor of Science degree in electrical engineering technology. Students in this program may choose to concentrate either in communication electronics or digital electronics.

The Communication Electronics option is designed to prepare graduates who are highly skilled in the use of science, mathematics, computers, and electronics for the communications electronics industry. Graduates with a background in communication electronics are in high demand because of the impact of satellites and computers on the communication industry. This demand is heightened by the increasing development of new and advanced methods of transmitting and receiving of digital data in all areas of the industry.

The Digital Electronics option is concerned with the design, fabrication, and utilization of integrated circuits, discrete components, and semiconductors used in various electronic products.

Opportunities are excellent and graduates are qualified to apply their knowledge in a number of electronics and related positions. With the increased use of communications and digital electronic products in the United States, job opportunities for graduates of this program are likely to grow faster than those in any other area.

## **PROGRAM EDUCATIONAL OBJECTIVES**

The program educational objectives of the Electrical Engineering Technology Program are to produce graduates who will:

1. Have successful careers in Electrical Engineering Technology and related fields, thereby, fulfilling the special purpose mission of the university in serving a diverse ethnic and socioeconomic population;
2. Have the foundation of life-long learning skills for advancing their careers by obtaining professional certifications and registrations, thereby moving into other lucrative professions and leadership positions;
3. Be adequately prepared to obtain admissions to pursue graduate degrees, and
4. Understand and maintain professional ethics and the need to safeguard the public, the environment, and the natural resources of the nation.

## **ACCREDITATION STATUS**

The Electrical Engineering Technology program is accredited by the Engineering Technology Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202 – telephone: 410-347-7700.

## **ELECTRICAL ENGINEERING TECHNOLOGY DEGREE PROGRAM REQUIREMENTS**

### **Core Curriculum..... 43 SCH**

All Engineering Technology Core Curriculum requirements are shown in the suggested degree program.

### **College Requirements..... 24 SCH**

PHYS 2111, 2121, and 2123..... 5 SCH

CHEM 1011..... 1 SCH

TECH 3203..... 3 SCH

MATH 1115, and 2024..... 9 SCH

GNEG 1111, 1121, and 2021..... 3 SCH

CPET 2503..... 3 SCH

### **Major Requirements..... 48 SCH**

ELET 1011, 1021, 1121, 1123, 2221, 2223, 2341, 2343, 3151, 3153, 3521, 3523, 3701, 3703, 3911, 3913, 4082, 4092, 4513, 4621, 4623 and 7 semester credit hours from the communications electronics or digital electronics special emphasis option.

Support Area Requirements..... 11 SCH

CPET 1023, 2111, 2113, 4381, and 4383..... 11 SCH

**Total Degree Requirements ..... 126 SCH**

## **Requirements for Electrical Engineering Technology as a Minor Field..... 24 SCH**

Students must complete at least 24 SCH of courses from the following list to satisfy the requirements of the Minor of Electrical Engineering Technology. Courses from the following list taken for other major requirement can be reused for ELET minor requirement.

- ELET 1121 DC/AC Circuits Laboratory
- ELET 1123 DC/AC Circuits
- ELET 2221 Basic Electronics Laboratory I
- ELET 2223 Basic Electronics I
- ELET 2341 Circuits Analysis Laboratory
- ELET 2343 Circuits Analysis
- ELET 3151 Electronics II Laboratory
- ELET 3153 Electronics II
- ELET 3521 Instrumentation, Robotics and Controls Laboratory
- ELET 3523 Instrumentation, Robotics and Controls
- ELET 3701 Communication Circuits Laboratory I
- ELET 3703 Communication Circuits I
- ELET 3911 Mixed Signals I Laboratory
- ELET 3913 Mixed signals I
- ELET 4241 Operational Amplifier Theory and Applications Laboratory
- ELET 4243 Operational Amplifier Theory and Applications
- ELET 4801 Communication Circuits II Laboratory
- ELET 4803 Communication Circuits II

## **TECHNICAL ELECTIVES FOR SPECIAL EMPHASIS OPTIONS**

### **Communication Systems**

The Communications Electronics special emphasis option is designed to provide students with a strong background in all aspects of electrical/electronic communications that involve the transmission, reception, and production of audio, video, and digital data. Students in the communications electronics option will be exposed to state-of-the-art equipment for analog/digital information transmission technology. Graduates will be prepared to work in the communications industry as broadcast engineers, production engineers, technical directors, and transmission systems specialists. The program interfaces with associate degree programs in electrical/electronics engineering technology and with related programs.

- ELET 3003 Antennas and Transmission Systems
- ELET 3333 Cooperative Education II
- ELET 4103 Special Topics
- ELET 4801 Communication Circuits II Laboratory
- ELET 4803 Communication Circuits II
- CPET 4061 Data Communication Methods Laboratory
- CPET 4063 Data Communication Methods

## Digital Electronics

The digital electronics special emphasis option is available to students interested in applications of digital electronics in automation and robotics, and electrical/electronic products and the industrial and electrical systems. This option combines elements of the design and development of digital electronics and the fabrication and manufacture of printed circuits, components, and microelectronics. Graduates of this program find career opportunities in government and industry, particularly in high technology companies utilizing digital electronics technology. The program is designed to interface with associate degree programs in electrical/electronics engineering technology and with related programs.

ELET 3333 Cooperative Education II  
 ELET 3451 Robotics Laboratory  
 ELET 3453 Robotics  
 ELET 3603 Digital Integrated Circuit Devices and Applications  
 ELET 4103 Special Topics  
 ELET 4241 Operational Amplifier Theory and Applications Laboratory  
 ELET 4243 Operational Amplifier Theory and Applications  
 ELET 4471 Control Systems Laboratory  
 ELET 4473 Control Systems

Technical electives require departmental approval.

### ELECTRICAL ENGINEERING TECHNOLOGY SUGGESTED DEGREE PROGRAM SEQUENCE

FRESHMAN YEAR						
First Semester		Hours		Second Semester	Hours	
CPET 1013	Computer Applications	3		ELET 1011	Intro to Eng. Comp Sc & Tech	1
CHEM 1011	Gen. Inorganic Chem Lab	1		ELET 1021	Intro to CPET Lab	1
CHEM 1013	Gen. Inorganic Chem	3		CPET 1023	Computer Applications II	3
ENGL 1123	Freshman Composition I	3		ELET 1121	DC/AC Circuits Laboratory	1
MATH 1115	Algebra and Trig.	5		ELET 1123	DC/AC Circuits	3
GNEG 1111	App Lab for Algebra & Trig	1		ENGL 1133	Freshman Composition II	3
				MATH 1124	Calculus/Analytic Geometry I	4
				GNEG 1121	Engr. Appl. Lab II for Math Calculus/Ana Geo I	1
Total		16		Total		17

## Mechanical Engineering Programs and Degree Plans

SOPHOMORE YEAR					
First Semester		Hours		Second Semester	Hours
ELET 2341	Circuit Analysis Lab	3		CPET 2111	Digital Logic Circuits Lab
ELET 2343	Circuit Analysis	1		CPET 2113	Digital Logic Circuits
MATH 2024	Calculus and Analytical Geom. II	4		CPET 2503	Math App for Technology
GNEG 2021	App Lab for Calc/Ana Geo II	1		ELET 2221	Basic Electronics I Lab
PHYS 2113	General Physics Lab I	3		ELET 2223	Electronics I
PHYS 2111	General Physics I	1		PHYS 2121	General Physics II Lab
	Humanities Elective	3		PHYS 2123	General Physics II
Total		16		Total	15
JUNIOR YEAR					
First Semester		Hours		Second Semester	Hours
ELET 3151	Electronics II Lab	1		ELET 3911	Mixed Signals I Lab
ELET 3153	Electronics II	3		ELET 3913	Mixed Signals I
ELET 3521	Instr Robotics & Controls Lab	1		COMM 1003	Fund of Speech Comm
ELET 3523	Instr Robotics I& Controls	3		TECH 3203	Technical Communications
ELET 3701	Communication Circuits I Lab	1		POSC 1123	American Government II
ELET 3703	Communication Circuits I	3			Visual and Performing Arts Elective
POSC 1113	American Govt I	3			
Total		15		Total	16
SENIOR YEAR					
First Semester		Hours		Second Semester	Hours
ELET 4621	Mixed Signals II Lab	1		ELET 4092	Senior Project II
ELET 4623	Mixed Signals II	3		HIST 1323	The US 1876 to Present
ELET 4082	Senior Project I	2		ELET 4513	Adv Integrated Circuits
HIST 1313	The US to 1876	3		CPET 4381	Digital Signal Processing Lab
	ELET Technical Elective	4		CPET 4383	Senior Project II
	Social and Behavioral Science Elective	3			ELET Technical Elective
				COMM 1003	Fund of Speech Comm
Total		16		Total	18
				Total Hours	126

Most courses in the College of Engineering are offered only once a year. Courses listed in the **First Semester** in the **SUGGESTED DEGREE PROGRAM SEQUENCE** are offered in the fall semester and may not be available in the spring and summer semesters. Courses listed in the **Second Semester** in the **SUGGESTED DEGREE PROGRAM SEQUENCE** are offered in the spring semester and may not be available in the fall and summer semester.



## ***Department of Mechanical Engineering***

### **ADMINISTRATIVE OFFICER**

Jianren Zhou, Department Head, Mechanical Engineering

### **FACULTY**

Paul O. Biney, *Mechanical Engineering*  
Ronald D. Boyd, *Mechanical Engineering*  
Ing Chang, *Mechanical Engineering*  
Surjit S. Grewal, *Mechanical Engineering*  
Kendall T. Harris, *Mechanical Engineering*  
Ziaul Huque, *Mechanical Engineering*  
Shield B. Lin, *Mechanical Engineering*  
Xiaobo Peng, *Mechanical Engineering*  
Jianren Zhou, *Mechanical Engineering*

### **PURPOSE AND GOALS**

As one of the broadest engineering branches, mechanical engineering includes design, analysis, and manufacturing associated with: (1) energy; and (2) structures and motion in mechanical systems. Mechanical Engineers design machines, processes, and systems utilizing mechanical and thermal power. The work of Mechanical Engineers include, but is not limited to, the following areas: machinery design and construction, design and analysis of thermal systems, manufacturing, instrumentation and controls, fluid and solid mechanics, plant engineering, materials specification and evaluation, research and development, and technical sales. Many Mechanical Engineers are promoted to management and administrative positions.

Because of the global consequences of many engineering endeavors, and because of the continually changing technological climate, the Department emphasizes an integrated curriculum that overlaps other engineering branches and the physical sciences. Graduates of the mechanical engineering curriculum will be prepared to be technical leaders in tomorrow's society.

The goal of the Mechanical Engineering Program is to produce industrial, scientific, and technological leaders capable of systematically identifying, addressing, and solving technical problems whose solutions will benefit society. Specific educational objectives of the Mechanical Engineering Program are to produce graduates who will:

1. Have successful careers in engineering and related fields;
2. Advance their careers through increasing levels of responsibilities and leadership;
3. Successfully pursue graduate or advanced professional degrees and continuing professional development; and
4. Actively participate in professional and community services.

## **ELIGIBILITY TO TAKE UPPER DIVISION COLLEGE COURSES**

The Roy G. Perry College of Engineering requires an eligibility standard for the students to take upper division college courses. Students must have completed or be currently enrolled in all lower division (1000 and 2000 level) courses in English, Mathematics, Science, and Engineering to be eligible to enroll in upper division (3000 or 4000 level) courses in the Roy G. Perry College of Engineering. Students in the Mechanical Engineering Program must complete a prescribed list of courses in the following with a minimum Grade Point Average (GPA) of 2.5 to be eligible to enroll in upper division (3000 or 4000 level) courses in the College. Students transferring to the Roy G. Perry College of Engineering with 60 or more semester hours from another institution will be allowed a period of one semester to comply.

CHEM 1034 Chemistry for Engineers  
CHEM 1021 Inorganic Chemistry Lab II  
ENGL 1143 Technical Writing  
PHYS 2513 University Physics I  
PHYS 2511 University Physics Lab I  
MATH 1124 Calculus with Analytic Geometry I  
GNEG 1121 Engineering Applications Lab II for Mathematics  
MATH 2024 Calculus with Analytic Geometry II  
GNEG 2021 Engineering Applications Lab III for Mathematics  
MCEG 1011 Introduction to Engineering, Computer Science, and Technology  
MCEG 1021 Introduction to Mechanical Engineering Drawing and Design Lab I  
ELEG 1043 Computer Applications in Engineering

### **Admission Requirements**

**Table 1. First-time Freshmen Requirements for Direct Admission to the Mechanical Engineering Program**

Academic Major	Meet PVAMU Admission Standards	High School GPA	SAT/ACT	High School Rank	THEA Passed
Mechanical Engineering	Yes	3.00	930/19	Top 25%	Yes (all subjects)

**Table 2. First-time Freshmen Requirements for Conditional Admission to the Mechanical Engineering Program**

Academic Major	Meet PVAMU Admission Standards	High School GPA	SAT/ACT	High School Rank	THEA Passed
Mechanical Engineering	Yes	2.50	820/17	Top 50%	No

**Table 3. Transfer Students Requirements for Direct Admission to the Mechanical Engineering Program**

Academic Major	Meet PVAMU Admission Standards	Transfer Grades	Transfer GPA (Math, Science and Engineering)
Mechanical Engineering	Yes	“C” or greater	2.50

These tables represent a summary of admission requirements. For more detailed requirements see the section in the catalog pertaining to the College of Engineering Admission.

## PROFESSIONAL AND HONOR SOCIETIES

*American Society of Mechanical Engineers (ASME).* The Department sponsors the student chapter of American Society of Mechanical Engineers, the national professional society for mechanical engineering that seeks to develop professional integrity, ethics, and organization skills among the mechanical engineering students on the campus.

*Pi Tau Sigma National Honor Society.* The Mechanical Engineering Department has a chapter of Pi Tau Sigma, the National Mechanical Engineering Honor Society to recognize and honor outstanding mechanical engineering students on the campus.

## ACCREDITATION STATUS

The Mechanical Engineering program is accredited by the Engineering Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202 – telephone: 410-347-7700.

## BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING DEGREE PROGRAM REQUIREMENTS

### Core Curriculum.....42 SCH

All Mechanical Engineering Core Curriculum requirements are shown in the suggested degree program.

### College and Support Area Requirements .....46 SCH

MATH 1124, 2024, and 3685 .....	13 SCH
GNEG 1121 and 2021 .....	2 SCH
CHEM 1021 and 1034 .....	5 SCH
PHYS 2511 and 2521.....	2 SCH
CHEG 2003 .....	3 SCH
CVEG 2043 and 2053.....	6 SCH
ELEG 2053 .....	3 SCH
MCEG 1011, 1021, and 2013 .....	5 SCH
GNEG 3051 .....	1 SCH
MCEG, CHEG, CVEG, or ELEG 4473 and 4483 .....	6 SCH

**Major Requirements.....36 SCH**  
MCEG 2023, 3011, 3013, 3021, 3023, 3031, 3033, 3043, 3053, 3063, 4043, 4063, and 4093; CVEG 2063

**Technical Electives.....6 SCH**

**Total Degree Requirements .....130 SCH**

**Mechanical Engineering Suggested Technical Electives**

Technical electives must be 3000 level or above. At least one technical elective must be taken in the department. Internship and co-op courses are not suitable for technical electives.

MCEG 3073 Automatic Controls  
MCEG 3193 Introduction to Robotics  
MCEG 4123 Energy System Design  
MCEG 4163 Special Topics  
MCEG 4183 Gas Dynamics  
CHEG 4133 Process Modeling and Simulation  
CHEG 4153 Bioengineering  
CHEG 4163 Engineering Optimization  
CVEG 3073 Structural Analysis  
CVEG 3043 Environmental Engineering  
CVEG 4063 Water Resources Engineering  
CVEG 4093 Systems Engineering  
ELEG 3033 Physical Electronics  
ELEG 3063 Logic Circuits  
MATH 3073 Linear Algebra  
MATH 4063 Numerical Analysis

**Technical Electives through Five-Year BS/MS Degree Plan Option**

Students may, upon approval to the Five-Year BS/MS Degree Plan Option (see College of Engineering Academic Programs and Degree Plans), apply up to six semester-credit hours of graduate courses toward technical electives requirements.

**Requirements For Mechanical Engineering as a Minor Field**

Students must complete the following 18 SCH of courses to satisfy the Minor requirements.

MCEG 3023 Thermodynamics II  
MCEG 3033 Manufacturing Processes  
MCEG 3043 Machine Design I  
MCEG 3063 Fluid Mechanics  
and 6 semester hours of approved 3000 or 4000 level MCEG courses.

## MECHANICAL ENGINEERING SUGGESTED DEGREE

### PROGRAM SEQUENCE

#### FRESHMAN YEAR

First Semester		Hours	Second Semester		Hours
MATH 1124	Calculus I	4	MATH 2024	Calculus II	4
GNEG 1121	Engr. Appl. Lab II for Math	1	GNEG 2021	Engr. Appl. Lab III for Math	1
MCEG 1011	Intro Eng CS Tech	1	PHYS 2513	University Physics I	3
MCEG 1021	Mechanical Drawing I	1	PHYS 2511	University Physics Lab I	1
COMM 1003	Fund. of Speech Communication	3	ENGL 1143	Technical Writing	3
ENGL 1123	Freshman Composition I	3	CHEM 1034	Chemistry for Engineers	4
ELEG 1043	Computer Appl. In Engineering	3	CHEM 1021	Inorganic Chemistry Lab II	1
<b>Total</b>		<b>16</b>	<b>Total</b>		<b>17</b>

#### SOPHOMORE YEAR

First Semester		Hours	Second Semester		Hours
HIST 1313	U.S. to 1876	3	MATH 2043	Differential Equations	3
CVEG 2043	Engineering Mechanics I	3	CVEG 2053	Engineering Mechanics II	3
POSC 1113	American Government I	3	CVEG 2063	Mechanics of Materials	3
MCEG 2023	Materials Science and Engineering	3	MCEG 2013	Thermodynamics I	3
PHYS 2523	University Physics II	3	HIST 1323	The U.S.-1876 to Present	3
PHYS 2521	University Physics Lab II	1	CHEG 2003	Economic Analysis and Technical Applications	3
<b>Total</b>		<b>16</b>	<b>Total</b>		<b>18</b>

#### SUMMER SESSIONS

First Semester		Hours
*MCEG 3156	Mechanical Engineering Internship I	6
<b>Total</b>		<b>6</b>

## Mechanical Engineering Programs and Degree Plans

JUNIOR YEAR					
First Semester		Hours	Second Semester		Hours
MCEG 3043	Machine Design I	3	MCEG 3023	Thermodynamics II	3
MCEG 3013	Heat Transfer	3	POSC 1123	American Government II	3
ELEG 2053	Introduction to Electrical Engr	3	MCEG 3033	Manufacturing Processes	3
MCEG 3053	Kinematic Design and Analysis	3	MCEG 3031	Manufacturing Processes Lab	1
MCEG 3063	Fluid Mechanics	3	MCEG 3021	Thermal Science Lab	1
MCEG 3011	Measurement/Instrumentation Lab	1	MATH 3685	Math for Engineers	5
<b>Total</b>		<b>16</b>	<b>Total</b>		<b>16</b>

SUMMER SESSIONS		
First Semester		Hours
*MCEG 4156	Mechanical Engineering Internship II	6
<b>Total</b>		<b>6</b>

SENIOR YEAR					
First Semester		Hours	Second Semester		Hours
MCEG 4473	Senior Design and Professionalism I	3	MCEG 4483	Senior Design and Professionalism II	3
GNEG 3051	Professional Engineering	1	MCEG 4063	Dynamic Systems and Controls	3
MCEG 4093	Finite Element Analysis and Design	3		Social and Behavioral Sciences Elective	3
MCEG 4043	Machine Design II	3		Technical Elective	3
	Visual and Performing Arts Elective	3		Humanities or Visual and Performing Arts Elective	3
	Technical Elective	3			
<b>Total</b>		<b>16</b>	<b>Total</b>		<b>15</b>
			<b>Total Hours</b>		<b>130</b>

\*Course may be taken for credit during a summer internship, but is not required in degree plan.

Most courses in the College of Engineering will be offered only once a year. Courses listed in the *First Semester* in the **SUGGESTED DEGREE PROGRAM SEQUENCE** will be offered in the fall semester and may not be available in the spring and summer semesters. Courses listed in the *Second Semester* in the **SUGGESTED DEGREE PROGRAM SEQUENCE** will be offered in the spring semester and may not be available in the fall and summer semester.

## **College of Juvenile Justice and Psychology**

### **ADMINISTRATIVE OFFICER**

Tamara Brown, Ph.D., *Dean*

Sherill V.C. Morris, Ph.D., *Assistant Dean*

### **ADMINISTRATIVE STAFF**

Myrna Cintrón, Department Head, Department of Justice Studies

Charles Bailey, Coordinator, Undergraduate Criminal Justice Program

Derek Wilson, Coordinator, Undergraduate Psychology Program

Peter Metofe, Interim Coordinator, Undergraduate Psychology Program

### **FACULTY**

Harry Wm. Adams, *Justice Studies*

Aisha Asby, *Psychology*

Charles Bailey, *Justice Studies*

Myrna Cintrón, *Justice Studies*

Sarah Britto, *Justice Studies*

Joe Dickson, *Psychology*

Oko Elechi, *Justice Studies*

Camille Gibson, *Justice Studies*

Angela Heads, *Psychology*

Peter Metofe, *Psychology*

Sharon Morgan, *Psychology*

Gbolahan Solomon Osho, *Justice Studies*

Michelle Rhodes, *Psychology*

Edward Schauer, *Justice Studies*

Bonnie Walker, *Psychology*

Barney Williams, *Psychology*

Derek Wilson, *Psychology*

### **PURPOSE AND GOALS**

The College of Juvenile Justice & Psychology offers undergraduate courses leading to a Bachelor of Science degree in Criminal Justice or Criminal Justice with a specialization in Juvenile Justice as well as a Bachelor of Science degree in Psychology. The College also offers graduate courses leading to a Master of Science degree in Juvenile Justice, a Master of Science degree in Juvenile Forensic Psychology, a Ph.D. degree in Juvenile Justice, and a Ph.D. degree in Clinical Adolescent Psychology.

The College of Juvenile Justice & Psychology is committed to preparing students to be nationally competitive for graduate education and careers in criminal/juvenile justice and psychology. The psychology curriculum is designed to ensure that the student acquires

the research and knowledge competency to complete entry into graduate programs in the chosen area of specialization.

The criminal justice program and the specialization in juvenile justice are designed to produce graduates who are skilled in improving the life experiences of youths in the juvenile/criminal justice systems, law enforcement, and child-helping organizations.

## **INSTRUCTIONAL ORGANIZATION**

The College of Juvenile Justice and Psychology offers undergraduate courses leading to the Bachelor of Science (B.S.) degree in the following areas:

<b>Degree Programs</b>	<b>Degrees Offered</b>
Criminal Justice	B.S.C.J.
Criminal Justice with Specialization in Juvenile Justice	B.S.J.J.
Psychology	B.S.

## **BACHELOR OF SCIENCE IN CRIMINAL JUSTICE AND BACHELOR OF SCIENCE IN CRIMINAL JUSTICE WITH JUVENILE JUSTICE SPECIALIZATION**

### **PURPOSE AND GOALS**

The Criminal Justice Program is designed to produce proficient graduates who can excel in various aspects of the field in leadership, service, research, and innovation. Criminal Justice majors will have the benefit of an informed and caring faculty to challenge them in their preparation to meet the demands of today's workplace and the nation's most rigorous graduate programs.

### **HONOR SOCIETIES, CLUBS AND SERVICE ORGANIZATIONS**

*Alpha Phi Sigma - National Honor Society in Criminal Justice.* The Honor Society was created to recognize scholarship among students of Criminal Justice and provide them with opportunities to attend various conferences sponsored by the national organization. Students are also provided information about opportunities in careers in Criminal Justice as well as educational opportunities in graduate and professional schools.

*National Association of Blacks in Criminal Justice - Student Division.* This is a national organization of Criminal Justice Professionals who provide its members with current information about the field of Criminal Justice. The Prairie View Chapter is one of the largest student chapters and provides its members with opportunities to attend various conferences sponsored by the national organization and regional chapters. Students also have access to career counseling and information about career opportunities with various federal, state, and local agencies.



*The Criminal Justice Club.* This organization is open to any student majoring or minoring in Criminal Justice at this institution. The primary purpose of the organization is to provide its members with information about career opportunities and graduate and professional educational opportunities in the field. They also provide a forum for various recruiters to speak to its members and they also take field trips to area criminal justice agencies to observe and speak with professionals.

**ACADEMIC STANDARDS AND ACADEMIC PROGRESS**

Only courses passed with grades of “C” or higher may be applied to the forty-two (42) semester hours constituting the Major Requirements for Criminal Justice.

**CRIMINAL JUSTICE DEGREE PROGRAM REQUIREMENTS**

**Core Curriculum..... 42 SCH**

**College of Juvenile Justice and Psychology Language Requirements..... 6 SCH**

Foreign Language Electives (one language; one sequence).

Criminal Justice majors must complete 6 semester hours of one language to satisfy the foreign language requirement.

**Support Area Requirements ..... 3 SCH**

Statistics I

Major Requirements for Criminal Justice ..... 42 SCH

CRJS 1133, 2413, 2513, 2613, 2713, 3623, 3823, 4923, 4983 and 15 hours of criminal justice electives

**Minor Requirements for Criminal Justice Majors ..... 24 SCH**

Twenty-four semester credit hours are required, even when the minor selected requires less. The difference will be made up with unrestricted electives. For minors that require more than 24 credit hours, the student is responsible for ensuring that all of the requirements are met. Students are advised to select minors in fields that are supportive of the criminal justice profession such as business, economics, sociology, political science or foreign language. If the minor requires less than 24 credit hours the difference should be made up in unrestricted electives.

**Unrestricted Electives ..... 3 SCH**

If no minor is selected total unrestricted electives would be 27 hours. Students are advised to select electives in fields that are supportive of the criminal justice profession such as business, economics, sociology, political science or foreign language.

**Total Degree Requirements ..... 120 SCH**

**Minor in Criminal Justice for Majors in other Disciplines ..... 27 SCH**

CRJS 1133, 2413, 2513, 2613, 2713, 3623, 4923, 4983 and three hours of criminal justice electives

## CRIMINAL JUSTICE SUGGESTED DEGREE PROGRAM SEQUENCE

FRESHMAN YEAR					
Fall Semester		Hours	Spring Semester		Hours
CRJS 1133	Prin. of Criminal Justice	3	CRJS 2513	Court Systems and Practice Corrections	3
ENGL 1123	Freshman Composition I	3	ENGL 1133	Freshman Composition II	3
MATH 1113	College Algebra	3	POSC 1123	American Government II	3
POSC 1113	American Government I	3		Natural Science	3
COMM 1003	Fundamentals of Speech	3		Humanities or Visual and Performing Arts	3
<b>Total</b>		<b>15</b>	<b>Total</b>		<b>15</b>
SOPHOMORE YEAR					
Fall Semester		Hours	Spring Semester		Hours
CRJS 2613	Court Systems & Practice	3	CRJS 2713	Juvenile Justice Systems	3
HIST 1313	U.S. to 1876	3	CRJS 2413	Police Systems and Practice	3
	Natural Science	3	HIST 1323	U.S.-1876 .to Present	3
	Foreign language I	3		Foreign language II	3
	Elective (minor)	3		Social/Behavioral Science	3
<b>Total</b>		<b>15</b>	<b>Total</b>		<b>15</b>
JUNIOR YEAR					
Fall Semester		Hours	Spring Semester		Hours
	Statistics	3	CRJS 3823	Justice Research I	3
CRJS 3623	Justice Research I	3	CRJS	Electives (Minor)	3
CRJS	Elective	3		Humanities or V Perform Arts	3
CRJS	Elective	3		Computing	3
	Elective (minor)	3		Elective (minor)	3
<b>Total</b>		<b>15</b>	<b>Total</b>		<b>15</b>
SENIOR YEAR					
Fall Semester		Hours	Spring Semester		Hours
CRJS 4923	Criminology	3	CRSJ 4983	Ethical Decision Making in CJ	3
CRJS	Elective	3	CRJS	Elective	3
	Elective (minor)	3		Elective (minor)	3
	Elective (minor)	3		Elective (minor)	3
	Elective (minor)	3		Elective (minor)	3
<b>Total</b>		<b>15</b>	<b>Total</b>		<b>15</b>

**CRIMINAL JUSTICE WITH SPECIALIZATION IN JUVENILE JUSTICE  
DEGREE PROGRAM REQUIREMENTS**

**Core Curriculum.....42 SCH**

**College of Juvenile Justice and Psychology Language Requirements..... 6 SCH**

Foreign Language Electives (one language; sequence).

Criminal Justice majors must complete 6 semester hours to satisfy the language requirement.

**Support Area Requirements .....3 SCH**

Statistics I

**Major Requirements for Criminal Justice with Juvenile Justice**

**Specialization.....42 SCH**

CRJS 1133, 2413, 2513, 2613, 2713, 2723, 2743, 3623, 3733, 3823, 4923, 4983 and 6 hours of criminal justice electives

**Minor Requirements for Criminal Justice Majors .....24 SCH**

Twenty-four semester credit hours are required, even when the minor selected requires less. The difference will be made up with unrestricted electives. For minors that require more than 24 credit hours, the student is responsible for ensuring that all of the requirements are met. Students are advised to select minors in fields that are supportive of the criminal justice profession such as business, economics, sociology, political science or foreign language. If the minor requires less than 24 credit hours the difference should be made up in unrestricted electives.

**Unrestricted Electives.....3 SCH**

If no minor is selected total unrestricted electives would be 27 hours. Students are advised to select electives in fields that are supportive of the criminal justice profession such as business, economics, sociology, political science or foreign language.

**Total Degree Requirements .....120 SCH**

**CRIMINAL JUSTICE WITH SPECIALIZATION IN JUVENILE JUSTICE  
SUGGESTED DEGREE PROGRAM SEQUENCE**

**Total Degree Requirements .....120 SCH**

## CRIMINAL JUSTICE WITH SPECIALIZATION IN JUVENILE JUSTICE SUGGESTED DEGREE PROGRAM SEQUENCE

		<b>FRESHMAN YEAR</b>			
<b>Fall Semester</b>		<b>Hours</b>	<b>Spring Semester</b>		<b>Hours</b>
CRJS 1133	Prin. of Criminal Justice	3	CRJS 2513	Corrections	3
ENGL 1123	Freshman Composition I	3	ENGL 1133	Freshman Composition II	3
MATH 1113	College Algebra	3	POSC 1123	American Government II	3
POSC 1113	American Government I	3		Natural Science	3
COMM 1003	Fundamentals of Speech	3		Humanities or Visual and Performing Arts	3
<b>Total</b>		<b>15</b>	<b>Total</b>		<b>15</b>
		<b>SOPHOMORE YEAR</b>			
<b>Fall Semester</b>		<b>Hours</b>	<b>Spring Semester</b>		<b>Hours</b>
CRJS 2613	Systems & Practice	3	CRJS 2713	Juvenile Justice Systems	3
HIST 1313	U.S. to 1876	3	CRJS 2413	Police Systems and Practice	3
	Natural Science	3	HIST 1323	U.S. 1876 to Present	3
	Foreign language I	3		Foreign language II	3
	Electives (Minor)	3		Social/Behavioral Science Option	3
<b>Total</b>		<b>15</b>	<b>Total</b>		<b>15</b>
		<b>JUNIOR YEAR</b>			
<b>Fall Semester</b>		<b>Hours</b>	<b>Spring Semester</b>		<b>Hours</b>
CRJS 3623	Criminal Law I	3	CRJS 3823	Criminal Justice Research I	3
CRJS 2723	Thry & Dev Juvenile Gangs	3	CRJS 2743	Law of Juvenile Justice	3
CRJS	Elective	3		Humanities or V Perform Arts	3
	Elective (Minor)	3		Computing	3
				Elective (Minor)	3
<b>Total</b>		<b>15</b>	<b>Total</b>		<b>15</b>
		<b>SENIOR YEAR</b>			
<b>Fall Semester</b>		<b>Hours</b>	<b>Spring Semester</b>		<b>Hours</b>
CRJS 4923	Criminology	3	CRJS 4983	Ethical Decision-Making in CJ	3
CRJS 3733	Juvenile Probation and Parole	3	CRJS	Elective	3
	Elective (minor)	3		Elective (minor)	3
	Elective (minor)	3		Elective (minor)	3
	Elective (minor)	3		Elective (minor)	3
<b>Total</b>		<b>15</b>	<b>Total</b>		<b>15</b>
		<b>Total hours</b>			
				<b>120</b>	

## BACHELOR OF SCIENCE DEGREE PROGRAM IN PSYCHOLOGY

The College of Juvenile Justice and Psychology offers undergraduate courses leading to the Bachelor of Science (B.S.) degree in Psychology. The Psychology curriculum is designed to expose students to various areas of specializations in psychology, such as social, developmental, cognitive, cultural, experimental and industrial/organizational. Students are closely advised to help them make knowledgeable decisions regarding their professional direction. Particular focus is placed on developing the student's research and analytical skills while developing understanding of cultural influence in psychology.

The rigorous nature of this program will prepare students to become competitive for entry into graduate school or various professional career paths.

**HONOR SOCIETIES, CLUBS AND SERVICE ORGANIZATIONS**

*Psi Chi* is the National Honor Society in Psychology, founded in 1929 for the purposes of encouraging, stimulating, and maintaining excellence in scholarship, and advancing the science of psychology. Membership is open to graduate and undergraduate students who are making the study of psychology one of their major interests, and who meet the minimum GPA qualifications. Psi Chi is a member of the Association of College Honor Societies and is an affiliate of the American Psychological Association (APA) and the American Psychological Society (APS).

*ABPsi Student Circle* is a member of The Association of Black Psychologists, founded in San Francisco in 1968 to actively address the serious problems facing Black psychologists and the larger Black community. The Student Circle of the Association of Black Psychologists was founded in 1993 to serve as a mentoring program and establish a collective voice for the next generation. ABPsi Student Circle emphasizes community research and outreach and the need to prepare current students for future leadership roles in the field of psychology. The aim is to promote mentorship relations between professionals and psychology students and to aid in the struggle to improve the emotional well-being of people of African descent wherever possible. Membership is extended to students who major or minor in psychology.

*The Psychology Club* is a recognized student organization designed to provide an intellectual and social atmosphere for students. The purpose is to engage students in the exchange of information concerning the field of psychology, encourage student research and scholarship ideas, and to pursue excellence for entering into graduate school.

**PSYCHOLOGY DEGREE PROGRAM REQUIREMENTS**

\* Upon entering the psychology program, sophomore level students are required to be advised by a psychology department advisor.

**University Core Curriculum ..... 42 SCH**  
College of Juvenile Justice and Psychology students must complete SPAN 1013 (recommended) or FREN 1013 to satisfy the language requirement.

**College Requirement ..... 6 SCH**  
Psychology majors must complete two semesters of foreign language, i.e., SPAN 1013 (recommended), Chinese or FREN 1013 to satisfy the language requirement.

**Major Requirements..... 51 SCH**  
PSYC 1113, 2423, 2613, 3223, 3433, 3533, 3543, 3613, 4443, 4843, 4613 and 18 hours of electives in psychology and 4613

**Psychology Electives in Psychology ..... 18 SCH**  
 PSYC 2513, 3233, 3913, 4513, 4253, 4633, and 4823

**Support Area Requirements\* ..... 4 SCH**  
 BIOL 1054 ..... 4 SCH

**Unrestricted Electives ..... 17 SCH**

**Total Degree Requirements ..... 120 SCH**

**Total Requirements to Graduate**

University Core Requirement	42 Semester Hours
College Requirement	6 Semester Hours
Major Requirements	33 Semester Hours
Psychology electives in Psychology	18 Semester Hours
Support Area Requirement	4 Semester Hours
Unrestricted electives	17 Semester Hours

**Minor Requirements for Psychology Majors (Optional)..... 18 SCH**

*Psychology majors have the option to choose a minor offered by the various colleges/schools, in consultation with their academic advisors. Minimum eighteen semester credit hours are required. If the minor requires more than 18 credit hours the student is responsible for ensuring that all of the requirements of the minor are met. A total 142 A minimum 138hours is required credits for graduation with a minor in psychology.*

**Minor in Psychology for Majors in other Disciplines ..... 21 SCH**

PSYC 1113 General Psychology ..... 3 SCH  
 PSYC 2423 Developmental Psychology..... 3 SCH  
 PSYC 2613 Statistics I for Psychology..... 3 SCH  
 PSYC 4613 Physiological Psychology ..... 3 SCH  
 PSYC Electives from PSYC 2513, 3233, 3913, 4513, 4253, 4633, and 4823 ..... 9 SCH

**PSYCHOLOGY DEGREE PROGRAM SEQUENCE**

**FRESHMAN YEAR**

First Semester		Hours	Second Semester		Hours
PSYC 1113	General Psychology	3	PSYC 2423	Developmental Psychology	3
COMM1003	Fund of Speech	3	HIST 1323	The U.S.-1876 – Present	3
HIST 1313	U.S. to 1876	3	ENGL 1123	Freshman Composition II	3
ENGL 1113	Freshman Composition I	3	BIOL 1113	College Biology	3
MATH 1113	College Algebra	3	SOCG 1013	General Sociology	3
Total		15	Total		15

**SOPHOMORE YEAR**

*College of Juvenile Justice and Psychology Academic Programs and Degree Plans*

First Semester		Hours	Second Semester		Hours
PSYC2423	Developmental Psych	3		Unrestricted Elective # 1	3
PSYC 2613	Statistics I	3	PSYC 3613	Statistics II for Psychology	3
			POSC 1123	American Government II	3
POSC 1113	American Government I	3	COMP 1003	Introduction to Computer Education	3
ARTS 2283	African American Art	3	PHIL 2013	Intro to Philosophy	3
BIOL 1054	Anatomy and Physiology I	4			
Total		16	Total		15
JUNIOR YEAR					
First Semester		Hours	Second Semester		Hours
PSYC 3223	Abnormal Psychology	3	PSYC 3433	Experimental Psychology	3
PSYC 3543	History and Systems of Psychology	3		Unrestricted Elective # 3	3
PSYC 2513	Psychology of Personality	3	PSYC 3533	Social/Cultural Psychology	3
PSYC 3233	Psychological Testing	3	PSYC 3913	Industrial and Organizational Psychology	3
	Unrestricted Elective # 2	3	PSYC 4235	Cognitive Psychology	3
Total		15	Total		15
SENIOR YEAR					
First Semester		Hours	Second Semester		Hours
PSYC 4443	Research Methods	3		Foreign Language II	3
PSYC 4613	Physiological Psychology	3	PYSC 4843	Senior Paper	3
PSYC 4253	Clinical Psychology	3	PSYC 4823	Reading and Research	3
	Unrestricted Elective # 4	3		Unrestricted Elective #5	3
	Foreign Language I	3		Unrestricted Elective #6	3
Total		15	Total		15

## **College of Nursing**

### **ADMINISTRATIVE OFFICER**

Betty N. Adams, Dean and Professor

### **ADMINISTRATIVE STAFF**

Jennifer Goodman, *Professor and Director Graduate Program*

Philisie Washington, *Assistant Professor and Interim Undergraduate Director*

Forest Smith, *Lecturer II and Director Student Services*

Flora Thomas, *Coordinator, Pre-Nursing Advising*

Betty Brown, *Business Manager*

### **FACULTY**

Willarena Ashe, *Childbearing Nursing*

Tiffany Bell, *Medical-Surgical Nursing*

Rizalina Bonuel, *Clinical Nurse Specialist/Nurse Administration*

Pamela Brandy-Webb, *Community Health/Maternal Child Nursing*

Joi M. Braswell, *Specialization Education*

E'Loria Campbell-Simon, *Nursing Education*

Emilia Cordero, *Adult Nurse Practitioner*

Huberta Cozart, *Medical Surgical Nursing*

Pamela Cormier, *Pediatric Nursing*

George W. Crippen, *Leadership in Health Care System*

Evonne Cummings, *Nursing Administration*

Hilda Eagleton, *Nursing Administration*

Shunta' Fletcher, *Family Nurse Practitioner*

Janice Boatner-Furbush, *Psychiatric Nursing*

Lakeshur Green, *Family Nurse Practitioner*

Angela Henry, *Family Nurse Practitioner*

Dorothy Harris, *Psychiatric/Mental Health, Clinical Nurse Specialist*

Sheila Harvin, *Psychiatric Health Nursing, Clinical Nurse Specialist*

Shirley Hutchins, *Cardiovascular Nursing and Psych Nursing*

Immaculata Igbo, *Cardiovascular Pharmacology*

Antonea' Jackson, *Nursing Education*

Andrea James, *Adult Nurse Practitioner*

Sandra Jenkins, *Maternal Child Health Nursing*

Debbie Jones, *Childbearing Nursing*

Margie Landson, *Medical Surgical Nursing*

Annette McClinton, *Nursing Research and Education*

Jean McIntosh, *Nursing Leadership in Health Care Systems*

Wynetta McMullin, *Nursing Education, Administration and Research*

Charlzetta McMurray-Horton, *Adult Psychiatric and Mental Health Clin Nurs Specialist*

Vanessa Monroe, *Clinical Nurse Specialist*

Carrie Robertson, *Maternal Child Nursing*

Forest Smith, *Educational Leadership and Organizational Management*

Isaac Smith, *Medical Surgical Nursing*

Abida Solomon, *Community-Based Research and Health Programs*



Megnon Stewart, *Family Nurse Practitioner*  
Ejim Sule, *Medical Surgical Nursing*  
Johnie Tarver, *Nursing Leadership and Management*  
Douglas Wakhu, *Critical Care Nursing/Clinical Specialist*  
Zetha Warren, *Acute Care Nurse Practitioner*  
Philisie Washington, *Psychiatric Mental Health Nursing*  
**FACULTY (continued)**

Evelyn Whitley, *Adult Health Nursing*  
Cindy Williams, *Family Nurse Practitioner*  
Theresa Wooten, *Medical and Surgical Nursing*  
Cynthia Wyllie, *Adult Health Nursing*

## **PURPOSE AND GOALS**

The purpose of the baccalaureate nursing program is to prepare students for beginning professional practice as nurse generalists. Graduates are educated to meet community and state needs and assume leadership roles in the delivery of health care. As nurse generalists, graduates are prepared to assume beginning positions in any area of nursing practice and have the academic foundation for advanced study in nursing or related areas.

The baccalaureate nursing program is approved by The Board of Nursing (BON) by the National League for Nursing Accrediting Commission (NLNAC) and the Commission on Collegiate Nursing Education (CCNE). Completion of the program leads to a Bachelor of Science Degree with a major in nursing. Graduates of the college are eligible to take the *National Council Licensure Examination for Registered Nurses* (NCLEX-RN) to meet requirements for licensure to practice nursing.

**Degree Program**  
*Nursing*

**Degree Offered**  
*Bachelor of Science in Nursing (B.S.N.)*

## **PROGRAM OPTIONS**

The baccalaureate program in nursing is designed to meet the needs of students who choose nursing as a major through three program options: generic/basic, LVN-BSN and RN-BSN. A student may choose nursing as a major as a freshman or transfer student or, may be admitted initially into the upper division clinical studies as a licensed vocational nurse (LVN) or registered nurse (RN). The admissions requirements are designated for each program and illustrated in the catalog. **BACCALAUREATE NURSING PROGRAM (CLINIC STUDIES UPPER DIVISION)**

## **HONOR SOCIETIES, CLUBS, AND SERVICE ORGANIZATIONS**

*National Student Nurses Association (NSNA)*. Membership is opened to pre-clinical (lower division) and nursing majors (upper division). The chapter is a member of the Texas Student Nurses Association and the National Student Nurses Association. The

Prairie View A&M University Chapter of the Texas Student Nurses Association affords opportunities to meet other student nurses in Texas and the nation, promotes interschool affairs, interests and awareness of professional nursing organizations, and prepares students for participation in these organizations and future leadership roles.

*Chi Eta Phi Sorority.* Upper Division, clinical studies student nurses may apply for membership in Zeta Chi Beta Chapter of Chi Eta Phi Sorority. The principal goal of the sorority is to promote scholarship, leadership, and the delivery of health care through participation in civic, community, and health-related activities.

*Sigma Theta Tau, International Honor Society.* Eta Delta is the chartered Prairie View A&M University chapter of Sigma Theta Tau International Honor Society for Nursing. The honor society recognizes superior achievement, leadership, innovation, and professional standards. Membership is by invitation, upper division clinical studies.

*American Red Cross.* Membership is open to all students enrolled in upper division clinical studies and serves as an extension of the Houston Chapter of the American Red Cross. The chapter provides volunteer nursing and health service to the College of Nursing, university, and the community-at-large; provides an auxiliary source of learning for student nurses; and promotes professional development and commitment to community service.

*The American Assembly for Men In Nursing (AAMN).* Membership is open to the male student nurses enrolled in the College of Nursing upper division clinical studies. The purpose of AAMN is to provide a framework for nurses as a group to meet, discuss, and influence factors which affect men as nurses.

*Prairie View A&M International Student Nursing Organization (PVISNO).* Membership is opened to all students enrolled in the College of Nursing upper division clinical studies. The organization promotes peer mentoring and community service while enhancing understanding and appreciation of other cultures. Members of this organization must also be a member of NSNA.

## **ADMISSION REQUIREMENTS**

A student seeking to declare a major in nursing must be admitted to the University through the Office of Admissions in accordance with the defined criteria for admission as outlined in the *Prairie View A&M University Undergraduate Catalog*. An acceptance letter for enrollment in the University does not guarantee a student's acceptance and enrollment in the pre-nursing (lower division) or nursing program (upper division, clinical studies). Admission into the upper division clinical studies is a selective process.

## **PRE-NURSING MAJOR (LOWER DIVISION)**

### **• UNCONDITIONAL ADMISSION REQUIREMENTS**

- High School GPA: 3.0 minimum
- High School Mathematics: 4 years (must include Algebra I, II, and Geometry)

- High School Science: 4 years (must include Biology, Chemistry, and Physics)
- TSI Requirements met through testing (THEA, ACT, SAT, or listed alternative tests)

Any courses taken for dual credit, advance placement, or to satisfy college requirements will be applied appropriately. Applicants are advised to notify the PVAMU Office of Admissions to validate the transfer of pre-college and advanced placement credits.

## PRE-NURSING PROGRAM LOWER DIVISION – OTHER APPLICANTS

Admission to the Pre-Nursing Program (lower division) may be considered when the applicant satisfies the undergraduate admission requirements of the University and the College of Nursing as a freshman, sophomore or transfer student. In addition, students seeking admission as a pre-nursing major must also meet the following criteria:

1. Satisfy all sections of THEA (*Texas Higher Education Assessment*) or equivalent tests by achieving the scores as illustrated or be exempt as described below:

<b>THEA:</b>	Reading 230; Math 230; Writing 220;
<b>ACCUPLACER:</b>	Reading 78; Elementary Algebra 63; Written Essay 6; Sentence Skills 80;
<b>ASSETT:</b>	Reading 41; Algebra 38; Written Essay 6; Writing Skills 40;
<b>COMPASS:</b>	Reading 81; Algebra 39; Written Essay 6; Writing Skills 59.

**Exemption** is based on the student's performance on the following:

Test	Combined	Verbal	Math
<b>SAT</b> (SAT SUBJECT TEST scores are not acceptable)	1070	500 (Minimum)	500 (Minimum)
<b>ACT</b>	23	19 (Minimum)	19 (Minimum)
<b>TAKS</b>	3 Writing	2200 ELA	2200 Math

**SAT** and **ACT** scores are valid for only five years from the date of testing and all requirements listed above must be met on the same test date. Exit level TAKS scores are valid for only three years from the date of testing and scores for exemption purposes must be satisfied on the first attempt of testing.

### Other exemptions include:

- a. A student who has graduated with an associate or baccalaureate degree from an accredited institution of higher education.
- a. A student who is serving on active duty as a member of the Armed Forces of the United States, the Texas National Guard, or as a member of a reserve component of the Armed Forces of the United States and has been serving for at least three years preceding enrollment. A certified copy of orders or documentation showing length of service is required.
- b. A student who, on or after August 1, 1990 was honorably discharged, retired, or released from active duty as a member of a reserve component of the Armed Forces of the United States. A certified copy of the certificate of release is required.

**Note:** The College of Nursing does not accept remedial courses to satisfy the THEA or other equivalent tests requirements in accordance with the *Texas Success Initiative* (TSI).

2. Complete the pre-nursing (lower division) 63 required credit hours with a minimum 2.75 overall cumulative grade-point-average (GPA), and a minimum 2.75 GPA in support courses in the following areas: microbiology, anatomy and physiology, chemistry, sociology, psychology, nutrition, human development life span and statistics.

## **PRE-NURSING PROGRAM (LOWER DIVISION) PROGRESSION REQUIREMENTS**

The pre-nursing (lower division) program is designed to be completed in four academic semesters of full-time study. Students who have not completed the required pre-nursing (lower division) coursework totaling the 63 semester credit hours, satisfy the required grade point average (2.75 cumulative; 2.75 support area), and satisfactory performance on the nursing entrance examination will be allowed one additional semester of study to meet the pre-nursing program requirements. Failure to meet the above requirement after one additional semester will result in the student's ineligibility to continue as a pre-nursing major. It is not advised that pre-nursing majors select a minor or second major of study.

## **WITHDRAWAL POLICY FOR PRE-NURSING PROGRAM (LOWER DIVISION)**

A student is allowed only two (2) withdrawals (W) from pre-nursing support courses. For example, a withdrawal from one course twice constitutes two (2) withdrawals; or withdrawal from two different courses constitutes two (2) withdrawals. A third withdrawal from any support course(s) will result in ineligibility to continue as a pre-nursing major.

A student who withdraws voluntarily from the pre-nursing major and the university in good academic standing is eligible for readmission as a pre-nursing (lower division) major and is subjected to the program requirements as listed in the latest edition of the PVAMU Undergraduate Catalog.

## **FIRST TIME, FRESHMAN AND TRANSFER STUDENTS**

First time college students must satisfy the requirements for unconditional admission to pre-nursing major. Students who have completed satisfactorily less than two academic semesters are required to register through the University College (PVAMU Main Campus), which includes academic advising and other ongoing activities to support the student's success as a pre-nursing major. After the completion of two academic semesters (freshman year of study), students are transferred to the Office of Pre-Nursing Advising (PVAMU Main Campus) for guidance in enrollment management and completion of the lower division.

Transfer students must submit an official transcript(s) of all previous college course work and grades to the Office of Pre-Nursing Advising and meet with a nursing advisor for transcript evaluation and eligibility for placement. Transfer students who have completed

45 or more credit hours of the lower division and plan to complete the remaining lower division requirements at another educational institution(s) must receive approval through the College of Nursing Office of Admissions and Student Services, Houston Center.

## **CHANGE OF MAJOR**

Students desiring to change their major to pre-nursing must meet with an academic advisor in the University College or the Office of Pre-Nursing Advising to complete a **Change of Major Form** prior to the early registration period. Likewise, the same procedure applies to a pre-nursing major seeking a change in academic study.

## **BACCALAUREATE NURSING PROGRAM (CLINICAL STUDIES UPPER DIVISION)**

Application for admission to the Baccalaureate Nursing Program (clinical studies upper division) is a selective admissions process. Applications received in the spring and fall semesters to the Prairie View A&M University, Office of Admissions and Student Services.. Students must be first admitted to the University before being considered for acceptance in the College of Nursing. Admission is selective, competitive, and is dependent on the availability of space. Deadlines for applications are March 1<sup>st</sup> for fall admission and October 1<sup>st</sup> for spring admission.

The College of Nursing, Houston Center is the primary site for the baccalaureate nursing program. Also, the College offers the baccalaureate program through distance education at the Northwest Houston Center and Prairie View A&M University (main campus, Prairie View, Texas). The LVN-BSN and RN-BSN program is offered at both of the above sites.

### **Admissions Requirements (Clinical Studies Upper Division)**

Admission to the clinical studies (upper division) may be considered when the applicant satisfies the undergraduate admission requirements of the University and the College of Nursing as Prairie View A&M University pre-nursing major or as a transfer student.

Students seeking admission to clinical studies must meet the following criteria:

1. Complete the pre-nursing major (lower division) with a minimum 2.75 overall cumulative grade-point-average (GPA) and a minimum 2.75 GPA in support courses in the following areas: microbiology, anatomy and physiology, chemistry, sociology, psychology, nutrition, human development life span and statistics.
  - a. Completion of all natural science courses within the last 5 years of admission with a minimum grade of “C”: anatomy and physiology, microbiology, and chemistry; and completion of all support courses within 10 years of admission: sociology, psychology, nutrition, human development life span, and statistics.
  - b. The validation of dated credits and courses requiring updating is made upon receipt of a completed application to the College of Nursing.

- c. All lower divisions are classified as pre-nursing and the natural science courses (core and support courses) may not be repeated more than once to achieve a passing grade of "C". Also, no more than two pre-nursing lower division courses may be repeated.
- d. Perform satisfactorily on a faculty selected pre-nursing standardized admission examination, which may not be taken more than two times.

### **Admission Procedures for Acceptance to Clinical Studies Upper Division**

The following documentation is required:

1. Submission of an application to the University through the Office of Undergraduate Admissions in accordance with the defined criteria for admissions as outlined in the *Prairie View A&M University Undergraduate Catalog* and the College of Nursing Office of Admissions and Student Services. An acceptance letter for enrollment in the University does not guarantee a student's acceptance to the College of Nursing or enrollment in the baccalaureate nursing program clinical studies (upper division).
2. Submission of documentation for a completed physical examination; a negative Tuberculin (TB) Skin Test and / or negative chest x-ray; required immunizations: Measles, Mumps, Rubella (MMR), Chicken-pox (Varicella), Tetanus, Hepatitis B vaccination series, and all recommended influenza vaccines (i.e. H1N1). Proof of immunity by blood titers is **required** for Hepatitis B, Varicella, and Measles, Mumps and Rubella. Also all students must have documentation of a meningococcal vaccine mandated by the State of Texas for all incoming college students.
3. Submission of a current CPR certification by the American Heart Association (Healthcare Provider Course).
4. Negative criminal background check and drug screening test by a designated approved agency of the College of Nursing. Students may be subjected to additional criminal background check and drug screening to satisfy continuing enrollment in the nursing program.
5. Acquisition of the student professional liability insurance coverage by a designated approved agency of the University.
6. Submission of a current health insurance card.
7. Payment of nursing application fee.

Verification of the applicant's decision to accept the offer of admission to the nursing program must be received in the College of Nursing Office of Admissions and Student Services as directed. Final admission decisions are dependent on completion of the application documents, receipt of the nursing application fee and availability of space for admissions. Applicants not accepted for admission to the clinical studies upper division may be placed on a waiting list for the semester of application only. Applicants not admitted may reapply at the next admissions period.

Any student applying for transfer of courses from another baccalaureate nursing program must first fulfill all requirements for admission to the University and the College of Nursing. Only nursing courses from a nationally accredited baccalaureate program may be considered for possible transfer credit and the student must be in good standing in the previous nursing program attended. Pass/Fail courses are not accepted. Program placement is determined on an individual basis by the College of Nursing.

**Academic Progression (Clinical Studies Upper Division)**

To remain in good academic standing in clinical studies, a minimum grade of “C” must be achieved in all nursing courses. A minimum 2.00 cumulative grade-point-average must be maintained for good standing in the nursing program. The grading scale for clinical studies is as follows:

- A 90-100
- B 81-89
- C 75-80
- D 65-74 (failing)
- F 64 and below (failing)

Satisfactory performance on a written dosage calculation proficiency examination given every semester (including summer sessions) must be achieved for enrollment eligibility in clinical courses. Also, students must perform satisfactorily on semester standardized nursing achievement tests.

**Good Academic Standing (Clinical Studies Upper Division)**

1. Achieve a grade of “C” (minimum 75%) in all nursing courses
2. Achieve satisfactory performance on semester dosage calculation examination with a minimum score of ninety-four per cent (94%)
3. Achieve satisfactory performance on standardized tests
4. Demonstrate professional and academic integrity

**Withdrawal Policy for Clinical Studies (Upper Division)**

Students are allowed only **two** (2) withdrawals (W) from required nursing courses. For example, a withdrawal from one course twice constitutes **two** (2) withdrawals; or a withdrawal from two different courses constitutes **two** (2) withdrawals. Withdrawal from a course that is a companion to a co-requisite course will constitute **one** withdrawal if the grade is passing in one of the co-requisite courses. A third withdrawal from any one or more required courses will result in **dismissal** from the nursing program.

A student who withdraws voluntarily from clinical studies and the University may be considered for readmission to the College of Nursing on an individual basis and pending space availability in the nursing program. Also, a student who is readmitted is subjected to the program requirements as listed in the latest edition of the Prairie View A&M University Undergraduate Catalog.



### **Academic Probation in Clinical Studies (Upper Division)**

1. Students in upper division clinical studies who fail to meet one or more of the requirements for good academic standing will be placed on academic probation in the College of Nursing.
  - a. Failure in a nursing course
  - b. Withdrawal from two (2) nursing courses
  - c. Code of Conduct unbecoming to a student
  - d. Academic misconduct
2. Students will receive notification of academic probation status through written communication, and copies will be sent to the students' academic advisors. Students on academic probation are expected to meet with their academic advisor for revision of the degree plan and to develop strategies for participation in retention and tutorial activities.
3. The probationary period is lifted when the cause of the probation is corrected and; a letter of good standing is sent to the student. The student is advised to continue to participate in retention and tutorial activities.
4. Students are allowed one failure and one opportunity to retake one nursing course only.
5. Two or more failures in nursing courses will result in immediate dismissal from the College of Nursing.

### **Academic Misconduct**

A student may be suspended or dismissed from clinical studies upper division because of academic misconduct for any of the following reasons, but not limited to:

1. Acts of dishonesty
2. Clinical practice performance beyond the role expectations of a student nurse
3. Falsification of credentials; plagiarism
4. Lack of professional integrity and conduct

### **Dismissal from the College of Nursing**

A student will be dismissed from the College of Nursing for any of the following reasons, but not limited to:

1. Failure in a second nursing course
2. Failure to achieve a minimum grade of "C" after repeating a required nursing course
3. Third withdrawal from nursing courses
4. Unsafe clinical practice performance
5. Falsification of records in clinical performance during affiliation in health care agencies

6. Falsification of individual student records submitted for enrollment in the College of Nursing for example but not limited to: CPR certification, physical examination, immunization records.
7. Code of Conduct unbecoming to a student as described in the College of Nursing Undergraduate Student Handbook and the PVAMU Student Rights & Responsibilities and Code of Student Conduct and Handbook (annual student planner).
8. An act of academic dishonesty

Academic **dismissal** becomes effective in the semester of the infraction of the policy.

### **Readmission to the College of Nursing**

1. A student in good standing who is not enrolled in the College of Nursing for one semester must apply for readmission to the University and the College of Nursing. Placement within the upper division clinical studies of the nursing major will be determined on an individual and availability of space for admission. Also, a student who is readmitted is subjected to the program requirements as listed in the latest edition of the PVAMU Undergraduate Catalog.
2. A student who has been dismissed from the College of Nursing may be considered for readmission to the nursing program **two years after the date of dismissal**. The student must complete an application for readmission to the University and the College of Nursing. Eligibility is considered on an individual basis, pending space availability in the nursing program.
3. After readmission, failure to meet one or more requirements for good academic standing in any semester and specifically, failure in one or more nursing courses or withdrawal from any course, will result in immediate **dismissal** from the program and ineligibility for readmission in the future.

### **Graduation Requirements**

The program is designed to be completed within five semesters. In the Upper Division Clinical Studies, students are expected to enroll and progress on a full-time basis. The rigor of the program dictates that students avoid working full time. If students should require more time, the degree plan will be revised to support their expedient progression and completion in the nursing program.

The College of Nursing adheres to all general requirements policies and procedures of the University for satisfying the criteria for graduation. In addition, students are eligible to apply for graduation when the following conditions are met:

1. Completion of the required semester credit hours
2. Completion of the residency requirement of a minimum 64 semester hours of credit (upper division clinical studies) toward the BSN Degree earned at Prairie View A&M University
3. Achievement of a minimum 2.00 GPA
4. Completion of all clinical studies upper division courses
5. Satisfactory performance on comprehensive examinations selected, designed and achieve the minimum score determined by the College of Nursing

### **Application for Graduation**

The College of Nursing adheres to all general requirements and procedures of the University for satisfying the criteria for graduation. In addition, students are eligible to apply for graduation when the following conditions are met:

1. Completion of the required semester credit hours

2. Achievement of a minimum 2.00 cumulative GPA
3. Completion of total degree requirements (lower and upper division courses)
4. Satisfactory performance on the comprehensive examination selected by the College of Nursing (generic/basic and LVN-BSN students only).

**Satisfactory performance on the Texas Board of Nursing Ethics Examination.**

**FINANCIAL AID**

Financial Aid Application Forms may be obtained from the following:

**College of Nursing**  
Prairie View A&M University  
6436 Fannin Street  
Houston, Texas 77030

**Office of Financial Aid**  
Prairie View A&M University  
P.O. Box 519 MS 1005  
Prairie View, Texas 77446

University's website: [www.pvamu.edu](http://www.pvamu.edu)

**CORE PERFORMANCE STANDARDS**

The Prairie View A&M University College of Nursing has adopted the Core Performance Standards developed by the Southern Regional Education Board (SREB) and the Council on Collegiate Nursing Education (CCNE), 2003, for Admission and Progression in compliance with the 1990 Americans with Disabilities Act (ADA).

**LICENSURE AS A REGISTERED NURSE**

**Disciplinary and Licensure Proceedings.**

Each nursing student will receive the following documents regarding licensure eligibility and disciplinary rules for registered professional nurses:

- A.
  - 217.11 Standards of Nursing Practice
  - 217.12 Unprofessional Conduct
  - 301.161 BON Authority to Establish Criminal Investigation
  - 301.252 License Application
  - 301.2511 Criminal History Record for License Applicants
  - Texas Board of Nursing, Nurse Practice Act. Effective September 2011.
- B. Declaratory Order Petition Request Form from the College of Nursing Student Conduct Code and Handbook or from Texas Board of Nursing website: [www.bon.state.tx.us](http://www.bon.state.tx.us)

**BACHELOR OF SCIENCE IN NURSING PROGRAM REQUIREMENTS**

**Core Curriculum.....44 SCH**  
All Nursing Core Curriculum requirements are shown in the suggested degree program.

<b>Support Area Requirements .....</b>	<b>19 SCH</b>
HDFM 2553 Human Development: Life Span .....	3 SCH
HUSC 1343 Ecology of Human Nutrition .....	3 SCH
PSYC 2613 Statistics for Psychology I.....	3 SCH
SOCG 1013 General Sociology .....	3 SCH
CHEM 1053 General Inorganic Chemistry.....	3 SCH
CHEM 1051 General Inorganic Chemistry Lab .....	1 SCH
BIOL 1073 General Microbiology.....	3 SCH

<b>Major Requirements.....</b>	<b>64 SCH</b>
NURS 3013, 3164, 3263, 3023, 3003, 3174, 3273, 3185, 3284, 4013, 4163, 4262, 4173, 4272, 4282, 4183, 4193, 4292, 4403, and Nursing Electives (6 SCH).	

Total Degree Requirements 127 SCH

### NURSING SUGGESTED DEGREE PROGRAM SEQUENCE

FRESHMAN YEAR					
LOWER DIVISION PRE-NURSING STUDIES					
First Semester		Hours	Second Semester		Hours
ENGL 1123	Freshman Composition I	3	ENGL 1133	Freshman Composition II	3
MATH 1113	College Algebra	3	PSYC 1113	General Psychology	3
BIOL 1054	Human Anat. and Phys. I and Lab	4	BIOL 1064	Human Anat. and Phys. II Lab	4
COMM 1003	Fund. of Speech Communication	3	COMP 1003	Introduction to Computer Education	3
HIST 1313	U.S. to 1876	3	HIST 1323	The U.S.-1876 to Present	3
<b>Total</b>		<b>16</b>	<b>Total</b>		<b>16</b>
SOPHOMORE YEAR					
LOWER DIVISION PRE-NURSING STUDIES					
First Semester		Hours	Second Semester		Hours
POSC 1113	American Government I	3	POSC 1123	American Government II	3
SOCG 1013	General Sociology	3	PHIL 2013	Intro Philosophy	3
	Visual and Performing Arts	3	HUSC 1343	Ecology of Human Nutrition	3
HDFM 2553	Human Dev: Life Span	3	PSYC 2613	Statistics for Psychology I	3
CHEM 1053	General Inorganic Chemistry	3	BIOL 1073	General Microbiology	3
CHEM 1051	General Inorganic Chemistry Lab	1			
<b>Total</b>		<b>16</b>	<b>Total</b>		<b>15</b>

JUNIOR YEAR					
UPPER DIVISION CLINICAL STUDIES					
First Semester		Hours	Second Semester		Hours
NURS 3023	Basic Pathophysiology	3	NURS 3003	Introduction to Pharmacology	3
NURS 3013	Individual Health Assessment	3	NURS 3174	Adult Health Nursing I	4
NURS 3164	Basic Concepts of Nursing	4	NURS 3273	Adult Health Nursing I Practicum	3
NURS 3263	Basic Concepts of Nursing Practicum	3	Nursing Elective		3
Total		13	Total		13
SENIOR YEAR					
UPPER DIVISION CLINICAL STUDIES					
Third Semester		Hours	Fourth Semester		Hours
NURS 3185	Family Health Nursing	5	NURS 4163	Mental Health Nursing	3
NURS 3284	Family Health Nursing Practicum	4	NURS 4262	Mental Health Nursing Practicum	2
NURS 4013	Introduction Nursing Research	3	NURS 4183	Adult Health Nursing II	3
			NURS 4282	Adult Health Nursing II Practicum	2
			Nursing Elective	Practicum	3
Total		12	Total		13
SENIOR YEAR Continued CLINICAL STUDIES					
First Semester		Hours			
NURS 4173	Community Health Nursing	3			
NURS 4272	Community Health Practicum	2			
NURS 4193	Leadership/Management	3			
NURS 4292	Leadership/Management Practice	2			
NURS 4403	Nursing Process Seminar	3			

**LVN-BSN  
DISTANCE EDUCATION PROGRAM**

**Licensed Vocational Nurses (LVN)**

Licensed Vocational Nurses (LVNs) who seek admission to the LVN-BSN Program must meet the same lower division requisites and degree requirements as generic students as illustrated in the PVAMU Undergraduate Catalog in the following section: BACCALAUREATE NURSING PROGRAM Admissions Procedures for Acceptance to Clinical Studies Upper Division. Applicants are evaluated on an individual basis and must complete the upper division clinical studies for the major.

**Application Process:**

1. Be a graduate of an accredited Texas or out-of-state vocational technical or a community college program with a 3.0 GPA.
2. Submit a State of Texas Common Application to Prairie View A&M University for admission to the LVN-BSN program. Submit to the College of Nursing Office of Admissions and Student Services a completed application to include a diploma of graduation as a practical/vocational nurse; a Texas Board of Nursing license number as a LVN; verification of practice experience; and, official copies of all transcripts from previously attended institutions by March 1 (fall) and October 1 (spring).
3. Fulfill Texas Success Initiative (TSI) requirements. Test scores displayed on transcript.
4. Complete 63 pre-nursing lower division prerequisite transferrable college-level hours (45 hours to apply) with less than 2 repeated courses.
5. Meet the required 3.0 GPA (cumulative and support area GPA on a 4.0 scale)
6. Submission of official transcripts from all institutions attended to be sent to the Office of Undergraduate Admissions and the College of Nursing Office of Admissions and Student Services.
7. Payment of a nursing application fee
8. Verification of licensure to practice as a LVN in Texas
9. Satisfactory performance on the nursing admission examination. Two attempts are permitted.
10. Submit completed application, diploma, license, practice experience and any current transcripts to the College of Nursing by March 1st (fall) and October 1st (spring) admission.
11. Negative criminal background check and drug screening test by a designated approved agency of the College of Nursing. Students may be subjected to additional criminal background check and drug screening to satisfy continuing enrollment in the nursing program.

### **Process for Advanced Placement**

1. Upon admission to the LVN-BSN program, students may qualify for seven (7) hours of advanced placement through credit by examinations.
2. Advanced placement is achieved by obtaining a satisfactory performance score on two tests which may not be taken more than twice:

National League for Nursing Acceleration Challenge Exams (ACE):

- a. Care of the Adult Client
  - b. Clinical Pharmacology
3. Upon successful completion of the above examinations, the student will receive 7 credit hours for the following courses: NURS 3164 Basic Concepts of Nursing and NURS 3263 Basic Concepts of Nursing Practicum. Subsequently, after satisfactory completion of the first 11 credit hours of the LVN-BSN program and verification of a current LVN license, the student is awarded 10 semester credit hours in nursing courses as advanced placement congruent with the Texas Articulation Model (NURS 3003 Introduction to Pharmacology, NURS 3174 Adult Health Nursing I Theory and NURS 3273 Adult Health Nursing I Practicum.) A total of 17 semester credit hours may be applied through credits by examination and advanced placement in the LVN-BSN Program.

**Graduation Requirements**

The LVN-BSN Program is designed to be completed in four (4) academic semesters. The College of Nursing adheres to all general requirements and procedures of the University for satisfying the criteria for graduation. In addition, students are eligible to apply for graduation when the following conditions are met:

1. Completion of the required semester credit hours
2. Completion of the residency requirement of a minimum 49 semester credit hours (upper division clinical studies) toward the BSN Degree earned at Prairie View A&M University
3. Achievement of a minimum 2.00 GPA
4. Completion of all clinical studies upper division courses.
5. Satisfactory performance on a comprehensive examination selected, designed and achieve the minimum score determined by the College of Nursing.
6. Satisfactory performance on the Texas Board of Nursing Ethics Examination

The LVN-BSN Program is offered at the College of Nursing Houston Center.

**BACHELOR OF SCIENCE IN NURSING PROGRAM REQUIREMENTS  
LVN-BSN PROGRAM  
DISTANCE EDUCATION PROGRAM**

**Core Curriculum.....44 SCH**  
All Nursing Core Curriculum requirements are shown in the suggested degree program.

**Support Area Requirements .....19 SCH**  
NURS 2552 Life Span ..... 3 SCH  
HUSC 1343 Ecology of Human Nutrition ..... 3 SCH  
PSYC 2613 Statistics for Psychology I..... 3 SCH  
SOCG 1013 General Sociology ..... 3 SCH  
CHEM 1053 General Inorganic Chemistry..... 3 SCH  
CHEM 1051 General Inorganic Chemistry Lab ..... 1 SCH  
BIOL 1073 General Microbiology..... 3 SCH

**Major Requirements.....49 SCH**  
NURS 3005, 3013, 3023, 3185, 3284, 4013, 4163, 4262, 4183, 4282, 4173, 4272, 4193, 4292. 4403, and Nursing Electives (3 SCH).

**Advanced Placement.....10 SCH**

**Credit by Examination .....7 SCH**

**Total Degree Requirements .....129 SCH**



**LVN-BSN SUGGESTED DEGREE PROGRAM SEQUENCE**

JUNIOR YEAR					
UPPER DIVISION CLINICAL STUDIES					
<i>First Semester</i>		<i>Hours</i>	<i>Second Semester</i>		<i>Hours</i>
NURS 3023	Basic Pathophysiology	3	NURS 3185	Family Health Nursing	5
NURS 3013	Indiv. Health Assessment	3	NURS 3284	Family Health Nursing Practicum	4
NURS 3005	Transition to Professional Nursing	5	NURS 4013	Intro to Nursing Research	3
<i>Total</i>		<i>11</i>	<i>Total</i>		<i>12</i>
SENIOR YEAR					
UPPER DIVISION CLINICAL STUDIES					
<i>Third Semester</i>		<i>Hours</i>	<i>Fourth Semester</i>		<i>Hours</i>
NURS 4163	Mental Health Nursing	3	NURS 4173	Community Health Nursing	3
NURS 4262	Mental Health Practicum	2	NURS 4272	Community Health Practicum	2
NURS 4183	Adult Health Nursing II	3	NURS 4193	Leadership/Management	3
NURS 4282	Adult Health II Practicum	2	NURS 4292	Leadership/Management Practicum	2
	Nursing Elective	3	NURS 4403	Nursing Process Seminar	3
<i>Total</i>		<i>13</i>	<i>Total</i>		<i>13</i>

**RN-BSN****DISTANCE EDUCATION PROGRAM for Registered Nurses**

(Diploma or Associate Degree Nurses (RN))

The RN-BSN Program is designed to be completed in 12 months (September through August). Registered nurses who seek admission to the RN-BSN Program must meet the degree requirements as illustrated in the PVAMU Undergraduate Catalog in the following section: BACCALAUREATE NURSING PROGRAM. Admission Procedures for Acceptance to Clinical Studies Upper Division. Applicants are evaluated on an individual basis.

The RN-BSN Program is offered via distance education at three College of Nursing sites: Houston Center; Northwest Houston Center; and the Main Campus. Scheduling of distance courses is regulated based on adequate class size.

**Application Process:**

1. Be a graduate of a nursing diploma or associate degree nursing program, which is accredited by the NLNAC for preparing registered nurses.
2. Hold a current license as a registered nurse in the State of Texas.
3. Submit a State of Texas Common Application to Prairie View A&M University. Submit to the College of Nursing Office of Admissions and Student Services a completed application to include a diploma of graduation as a practical/vocational nurse; a Texas Board of Nursing license number as a RN/LVN, verification of

- practice experience and official copies of all transcripts from previously attended institutions..
4. Completion of requisite lower division courses (63 credit hours), including core and support courses with a minimum grade of “C” per course and a cumulative grade-point-average of 2.75.
  5. Submission of official transcripts from all institutions previously attended to be sent to the Office of Undergraduate Admissions and the College of Nursing Office of Admissions and Student Services.
  6. Documentation of nursing practice experience of at least 6 months full-time or one year part-time, or a refresher course with a clinical component within the last two years.
  7. Negative criminal background check and drug screening test by a designated approved agency of the College of Nursing. Students may be subjected to additional criminal background check and drug screening to satisfy continuing enrollment in the nursing program.
  8. Payment of a nursing application fee.

### **Process for Advanced Placement**

1. Upon admission to the RN-BSN program, students may qualify for thirty-six (36) hours of advanced placement and articulation in congruence with the Texas Articulation

Model as commensurate with the above nursing courses: NURS 3164 Basic Concepts of Nursing, NURS 3263 Basic Concepts of Nursing Practicum, NURS 3003 Introduction to Pharmacology, NURS 3174 Adult Health Nursing I, NURS 3273 Adult Nursing I Practicum, NURS 3185 Family Health Nursing, NURS 3284 Family Health Nursing Practicum, NURS 4163 Mental Health Nursing, NURS 4262 Mental Health Nursing Practicum, NURS 4183 Adult Health Nursing II, NURS 4282 Adult Health Nursing II Practicum.

### **Graduation Requirements**

The College of Nursing adheres to all general requirements and procedures of the University for satisfying the criteria for graduation. In addition, students are eligible to apply for graduation when the following conditions are met:

1. Completion of the required semester credit hours for the BSN, 127 credits.
2. Completion of the residency requirement of a minimum 28 semester hours of credit (upper division clinical studies) toward the BSN Degree earned at Prairie View A&M University.
3. Achievement of a minimum 2.00 GPA
4. Completion of all clinical studies upper division courses within five years of the initial admission date

## RN-BSN SUGGESTED DEGREE PROGRAM SEQUENCE BACHELOR OF SCIENCE IN NURSING PROGRAM REQUIREMENTS

**Core Curriculum.....44 SCH**

All Nursing Core Curriculum requirements are shown in the suggested degree program.

**Support Area Requirements .....19 SCH**

NURS 2552 Life Span ..... 3 SCH

HUSC 1343 Ecology of Human Nutrition ..... 3 SCH

PSYC 2613 Statistics for Psychology I..... 3 SCH

SOCG 1013 General Sociology ..... 3 SCH

CHEM 1053 General Inorganic Chemistry..... 3 SCH

CHEM 1051 General Inorganic Chemistry Lab ..... 1 SCH

BIOL 1073 General Microbiology..... 3 SCH

**Major Requirements.....28SCH**

NURS 4003, 3013, 3023, 4013, 4173, 4193, 4272, 4292, nursing electives (6 credits)

**Advanced Placement.....36 SCH**

**Total Degree Requirements .....127 SCH**

JUNIOR YEAR					
UPPER DIVISION CLINICAL STUDIES					
First Semester		Hours	Second Semester		Hours
NURS 3004	Concepts of Prof Nursing Practice	4	NURS 4173	Community Health Nursing	3
NURS 3013	Indiv. Health Assessment	3	NURS 4013	Introduction Nursing Research	3
NURS 3023	Basic Pathophysiology	3		Nursing Elective	3
			NURS 4272	Community Health Nursing Practicum	2
<b>Total</b>		<b>10</b>	<b>Total</b>		<b>11</b>

SENIOR YEAR		
UPPER DIVISION CLINICAL STUDIES		
Third Semester		Hours
NURS 4193	Leadership/Mgt in Nursing	3
NURS 4292	Leadership/Mgt in Nursing Practicum	2
NURS 4032	Trends and Issues in Professional Nursing	2
	Nursing Elective	3
<b>Total</b>		<b>10</b>

**Any questions or concerns call, visit or write:  
Prairie View A&M University**

**Department Pre-Nursing – PV Main Campus**

Anderson Hall 2nd Floor  
P.O. Box 519 MS 2725  
Prairie View, TX 77446  
Phone (936) 261-2920  
Fax (936) 261-1569  
[www.pvamu.edu/prenursing](http://www.pvamu.edu/prenursing)

**College of Nursing- Houston Center**

Office of Admissions & Student Services  
6436 Fannin Street, Suite 102  
Houston, TX 77030  
Phone (713) 797-7019  
Fax (713) 797-7092  
[www.pvamu.edu/nursing](http://www.pvamu.edu/nursing)

**Distance Education Programs**

The central purpose of Distance Education at Prairie View A&M University is the elimination of geographical distance and time as barriers to access to quality courses and programs. Current course offerings include education, agriculture, sociology, engineering, social work, English, Spanish, speech, business, juvenile justice, health, architecture, and nursing.

As a support service for the academic enterprise, Distance Education works collaboratively across the university community to:

- Electronically extend the campus of Prairie View A&M University through the NORTHSTAR and TTVN Telecommunications Networks for video delivery and Moodle through eCourses for online course delivery.
- Provide an open learning environment where teaching and learning occur anytime and anyplace.
- Share the practical applications of the university's knowledge and expertise to benefit society and support the economic growth and vitality of the local community.
- Provide training for faculty and staff involvement in Distance Learning.
- Increase Prairie View A&M University's access to the world and the world's access to the University.
- Research Distance Learning environments and emerging academic technologies.

Distance Education and eCourses are listed in the Schedule of Classes and may also be accessed through Panther Tracks.

**Approved Programs:**

- LVN-BSN Program
- RN-BSN Program
- MSN-Family Nurse Practitioner
- MSJJ-Juvenile Justice
- MBA- Administration
- MSN - Education

**Distance Sites:**

Northwest Houston Center, 9449 Grant Road, Houston, TX

## University Courses

### Academic Enhancement

**ENGL 0100. Writing Basics.** (0-0) Non-Credit. This is a basic writing course designed to focus on the basic elements of composition writing to include the writing process, writing mechanics, sentence structure, and paragraph writing. There is a strong emphasis on identifying correct sentence structure and mechanics in written material and drafting topic sentences that introduce unified, coherent paragraphs. Classroom instruction is enhanced by required lab-based activities. THEA score (0-170), ACCUPLACE Score (0-59), COMPASS Score (0-45).

**ENGL 0112. Intermediate Writing.** (0-2) Credit 2 semester hours. This is an intermediate level writing course designed for those students with a stronger background in grammar skills but who need further help developing paragraphs, essays, and short themes. Emphasis is placed on improving the skills related to writing a thesis statement and writing unified, coherent essays. Classroom instruction is enhanced by required lab-based activities. THEA score (171-200), ACCUPLACE Score (60-69), COMPASS Score (46-51) or successfully complete ENGL 0100.

**ENGL 0131. Pre-Composition.** (0-1) Credit 1 semester hours. This is an advanced writing course designed to prepare students for Freshman Composition I. Students will be expected to write compositions similar to those assigned in Freshman Composition I. Emphasis is placed on the use of enhanced critical thinking skills, editing skills, writing multi-paragraph essays, paraphrasing passages, and an introduction to research writing. THEA score (201-219), ACCUPLACE Score (70-79), COMPASS Score (52-58) or successfully complete ENGL 0112.

**MATH 0100. Pre-Algebra.** (0-0) Non-Credit. This course is designed to improve the student skills involving basic arithmetic computations to include integers, fractions, decimals, and percents. There will be a strong emphasis on solving and graphing linear equations as well as basic polynomial manipulations. Pre-requisite. THEA Score (0-200), ACCUPLACE Score (0-35), COMPASS Score (0-20).

**MATH 0113. Beginning Algebra.** (3-0) Credit 3 semester hours. This course is designed to present a careful and guided review of the basic mathematical concepts to improve and strengthen the student fundamental understanding of mathematics. The topics will include solving and graphing linear equations and inequalities, solving linear systems, determining the equation of a line and slope of lines. The course will also cover manipulation of polynomials to include factoring, ratios, solving rational equations and geometric applications. THEA score (201-217), ACCUPLACE Score (36-49), COMPASS Score (21-29) or successfully complete MATH 0100.

**MATH 0133. Intermediate Algebra.** (3-0) Credit 3 semester hours. This course is design to make the transition to College Algebra more successful. Topics include advanced algebraic operations, factoring with an emphasis on rational, radical, and quadratic equations. Students will be introduced to functions with emphasis on function

evaluation, graphs, composition, and inverse. THEA score (218-229), ACCUPLACE Score (50-62), COMPASS Score (30-38) or successfully complete MATH 0113.

**RDNG 0100. Reading Basics.** (0-0) Non-Credit. This is a basic reading course designed to improve students' overall basic reading and critical reading skills. Emphasis is on reading comprehension, vocabulary development, study techniques, and critical thinking skills. Classroom instruction is enhanced by required lab-based activities. THEA Score (0-199), ACCUPLACE Score (0-55), COMPASS Score (68-80).

**RDNG 0112. Intermediate Reading.** (0-2). Credit 2 semester hours. This is an intermediate level reading course designed to improve efficiency through word analysis skills, vocabulary, comprehension, and rate. Sentence/paragraph writing is required to complement extensive and varied reading activities. Emphasis is placed on external reading assignments. Classroom instruction is enhanced by required lab-based activities. THEA score (200-215), ACCUPLACE Score (56-68), COMPASS Score (55-68) or successfully complete RDNG 0100.

**RDNG 0131. Comprehensive Reading.** (0-1). Credit 1 semester hours. This is an advanced level reading course with an emphasis on learning the higher level reading skills required for college level reading assignments. Emphasis is placed on cross-curriculum reading. Short paragraph writing is required to compliment some reading activities. Additionally, a minimum of one novel will be read and accompanied by a critical analysis paper. THEA score (216-229), ACCUPLACE Score (69-77), COMPASS Score (69-80) or successfully complete RDNG 0112.

## **College of Agriculture and Human Sciences**

**AGEC 1233. Fundamentals of Agricultural Economics.** (3-0) Credit 3 semester hours. Survey of the nature, organization, and operation of the agricultural industry: application of economic principles to production and to the marketing of farm-ranch food and fiber products: and investigation of institutions and government as they affect agriculture. **\*\* (AGRI 2317)**

**AGEC 2213. Marketing Agricultural Products.** (3-0) Credit 3 semester hours. Study of movement of food and fiber products from the production area to the final consumer. Focus on intermediaries, including transportation agents. Efficiency of performing marketing activities under conditions for perfect and imperfect markets will be emphasized. Prerequisite: AGECE 1233 or ECON 2113 or equivalent

**AGEC 2223. Food Distribution Systems.** (3-0) Credit 3 semester hours. Study of the nature and functions of the various components of wholesale and retail food distribution. Facility locations, transportation, warehousing, quality control, inventory control, pricing, and other related topics. Prerequisites: AGECE 1233 and/or ECON 2123.

**AGEC 3203. World Food Seminar.** (3-0) Credit 3 semester hours. Orientation and introduction to domestic and international food distribution employment opportunities. (Emphasis on providing a broader knowledge of careers in transportation, logistics, and distribution.) Prerequisite: AGECE 2213, 2223 and/or ECON 2113; Participation in World Food Distribution Training Center Program and approval of the instructor.

**AGEC 3213. Agricultural Policy.** (3-0) Credit 3 semester hours. Study of the development of agricultural and food policies and evaluation of policies impact on producers and consumers in domestic and international markets. Prerequisite: AGECE 2213

**AGEC 3223. Agricultural Financial Analysis.** (3-0) Credit 3 semester hours. Introduction to principles and concepts of finance. Financial statement analysis, risk and returns, time value of money, valuation concepts, capital budgeting, investments, and cost of capital. Prerequisites: AGECE 2113 or ECON 2113 or equivalent.

**AGEC 3233. Principles of Transportation.** (3-0) Credit 3 semester hours. A course designed to develop basic competencies in the acquisition of transportation services for food and agricultural products. Emphasis will include: selection of transportation services, legal modes of transportation, shipping documents, rates, claims, and the changing environments for the transportation industry. Prerequisite AGECE 2213 or ECON 2113 or equivalent.

**AGEC 3253. International Trade and Logistics.** (3-0) Credit 3 semester hours. Development of basic competencies in international marketing of food and agricultural products. Focus will be on major markets, international competition, and the impacts of

US trade policies and exchange rates on trade. Prerequisite: AGECE 2213, 3213 and/or ECON 2123 or equivalent.

**AGECE 4213. Distribution Logistics.** (3-0) Credit 3 semester hours. A study of logistics systems and management, including coverage of warehousing, inventory, order processing, traffic, material and handling, packaging, and customer service levels. Focus on logistics for food and agricultural products. Prerequisite: AGECE 2213 and/or ECON 2113 or equivalent.

**AGECE 4223. Principles of Agri-business Management.** (3-0) Credit 3 semester hours. Economic and business principles applied to the organization and operation of farms and ranches, and other agri-business industries. Prerequisite: AGECE 1233 or equivalent.

**AGECE 4233. Land and Resource Economics.** (3-0) Credit 3 semester hours. Analysis of the economic, political, and institutional forces involved in the control and use of land and natural resources. Emphasis on land as a factor of production in agriculture. Prerequisite: AGECE 1233 or equivalent.

**AGECE 4253. Agricultural Prices.** (3-0) Credit 3 semester hours. Theories and principles fundamental to the pricing of agriculture commodities. Special emphasis will be placed on marketing conditions affecting price levels. Price and income parity, seasonal and cyclical price variations and futures trading. Prerequisites: senior classification or approval of instructor.

**AGECE 1413. Fundamentals of Agricultural Engineering.** (2-2) Credit 3 semester hours. Introduction to the major areas of agricultural engineering with emphasis on farm workshop methods, tool identification, care and use. Course includes home woodwork. Laboratory fee: \$15.00. \*\*(AGRI 2303)

**AGECE 2423. Agricultural Machinery.** (2-2) Credit 3 semester hours. Identification of agricultural machines and equipment; accessories, attachments, and components of agricultural tractors; inspections, adjustments, and maintenance services; and career opportunities. Laboratory fee: \$15.00.

**AGECE 3413. Environmental Engineering.** (2-2) Credit 3 semester hours. Installation, operation, care and repair of ventilation, heating, lighting, water supply, sewage, refrigeration, and air-conditioning equipment. Laboratory fee: \$15.00.

**AGECE 4423. Farm Drainage.** (2-2) Credit 3 semester hours. Land drainage: terracing, gully control, irrigation, and land reclamation. Laboratory fee: \$15.00

**AGHR 1313. Agricultural Science and Technology.** (3-0) Credit 3 semester hours. Introduction to professions in agricultural sciences and technology. Importance of agriculture in the state, nation and world. Review of research developments; explorations of career and other opportunities and development of human resource skills needed in agriculture.

**AGHR 3323. Program Planning.** (3-0) Credit 3 semester hours. The application of strategies appropriate for delivering agriculture and human resource concepts to varied



audiences. This includes the use of media, materials and supplies; procedures for management, motivation and evaluation. Prerequisite: AGHR 1313.

**AGHR 3996. Cooperative Occupational Experience in Agriculture.** (0-12) Credit 6 semester hours. Pre-baccalaureate work experience in the food and agricultural sciences commensurate with the student's academic emphasis. Written report of activities consistent with program guidelines upon completion of experience. A minimum of 200 clock hours of supervised work activities are required. Prerequisite: Completion of 60 or more hours of credit applicable to the major emphasis.

**AGHR 4413. Special Topics.** (2-2) Credit 3 semester hours. Directed study of a problem affecting some aspect of the food and agricultural science industry. Special work in an identified area of special interest. Reports, discussion and major paper required. Laboratory fee: \$15.00. Prerequisite: Advisor consent.

**AGHR 4992-4993. Independent Study.** (0-4; 0-6) Credit 2 or 3 semester hours. Readings, research and/or field work on selected topics. Prerequisite: Advisor consent.

**AGRO 1703. Crop Science.** (2-2) Credit 3 semester hours. Botanical characteristics of agronomic and horticultural plants; relationship between crops and civilization in both historical and biological terms; nature of crop plants in relation to structure, physiology, environment, growth and development; crop improvement, cropping systems and practices, crop hazards and prevention. Laboratory fee: \$15.00.

**AGRO 2603. Environmental Soil Science.** (2-2) Credit 3 semester hours. An introduction to soils, its components and its relationship the environment. The importance of soils to man, animals and plants. Import physical properties, role of soil constituents; origin, nature, and classification of parent materials; soil genesis, classification and survey; soil fertility and chemical properties; soils and chemical pollution; soils and the world's food supplements. Laboratory fee: \$15.00.

**AGRO 2613. Natural Resource Conservation Management.** (3-0) Credit 3 semester hours. Ecological approach to basic conservation principles, concepts and techniques underlying the management and uses of natural resources that is both efficient and sustainable.

**AGRO 2623. Green House Management**

**AGRO 2633. Forage and Pasture Management.** (2-2) Credit 3 semester hours. Use of forage in grassland agriculture, identification of forage grasses and legumes, cultural practices including weed control, mechanization of forage harvesting and storage; types of pastures, different systems of grazing management and utilization of forages by farm animals. Laboratory fee: \$15.00.

**AGRO 2723. Horticulture.** (2-2) Credit 3 semester hours. Study of the cultural practices in growing flowers, fruits, and scrubs, with emphasis on vegetable culture

(growth and development). Breeding and improvement; crop establishment, fertilizing, weeding, irrigating and mulching; post harvest handling; marketing and controlling insects and diseases. Laboratory fee: \$15.00.

**AGRO 2733. Principles of Crop Production.** (2-2) Credit 3 semester hours. Crop characteristics and classifications, growth patterns, soil and climate requirements (physiology), pest control, storage, distribution, and application of these principles to the management and production of field and vegetable crops for improved food, fiber, and forages. Laboratory fee: \$15.00.

**AGRO 3623. Soil Morphology and Classification.** (2-2) Credit 3 semester hours. The shape and source of soil features materials and processes involved in or produced after the formation of soil with emphasis on variations world-wide and the principles of soil classification, mapping, and interpretation. Additional topics include: soil taxonomy; land capability classification; soil survey and its utilization; and soil interpretations for non-farm uses. Prerequisite: AGRO 1703. Laboratory fee: \$15.00.

**AGRO 3633. Soil Fertility and Fertilizers.** (3-0) Credit 3 semester hours. Chemical, biological and physical processes as they influence soil fertility, manufacture of fertilizers and their reactions with soils and the soil-plant-water system.

**AGRO 3643. Soil and Water Management.** (3-0) Credit 3 semester hours. Sustainable soil productivity and management in agricultural systems involving resource inputs, tillage systems, erosion control, residue management, and water management for a quality environment.

**AGRO 3713. General Entomology.** (2-2) Credit 3 semester hours. Insect morphology, life histories, characteristics and habits of beneficial and harmful insects and their impact on agricultural production and the environment; anatomy and physiology growth and metamorphosis, insect orders, ecological aspects and insect behavior, control of harmful insects. Laboratory fee: \$15.00.

**AGRO 3723. Vegetable Production.**

**AGRO 3733. Plant Pathology.** (2-2) Credit 3 semester hours. Fundamental principles of plant pathology, including parasites and disease development, identification of major agronomic diseases and their biotic and abiotic causes; proper diagnosis of plant diseases, differentiation between signs and symptoms, isolation of pathogens in pure culture; environmental effects on development of infectious plant diseases; control of plant diseases. Laboratory fee: \$15.00.

**AGRO 4613. Soil Microbiology.** (2-2) Credit 3 semester hours. Role of soil microorganisms in soil-plant ecosystems. Microbial ecology, microbes in nutrient cycles important to agriculture, pesticide degradation, bacterial fertilizers, composting, waste disposal, plant microbe interactions. Laboratory estimation of soil microbial populations and measurement of important biological processes in soil and current methods. Laboratory fee: \$15.00.

**AGRO 4623. Environmental Science** (2-2) Credit 3 semester hours. Physical, chemical, biological and agricultural components of the environment and their interaction and effects on pollution and the maintenance and utilization of varied environmental systems. Prerequisite: Senior standing. Laboratory fee: \$15.00.

**ANSC 1513. General Animal Science.** (3-0) Credit 3 semester hours. Introductory course dealing with domestic farm animals common in the United States. Selection, reproduction, nutrition, management and marketing of beef cattle, swine, sheep, goats, and horses.

**ANSC 2513. Animal Production and Marketing.** (2-2) Credit 3 semester hours. Systematic study of methods of breeding, feeding, marketing, sanitation and management of commercial animals (swine, beef and dairy cattle, horses, goats and sheep). Laboratory fee: \$15.00.

**ANSC 2523. Poultry Science.** (2-2) Credit 3 semester hours. Knowledge of the history and development of the poultry industry; the anatomy and physiology of the domestic fowl, especially related to reproduction. Inferences of genetic, environmental and behavioral factors on embryonic development; affects of diet, drugs and toxins. Practices involve artificial incubation, breeding and rearing. Laboratory fee: \$15.00.

**ANSC 2533. Dairy Science.** (3-0) Credit 3 semester hours. Branches of the dairy industry, introduction to dairy types and breeds, the major factors in the management of cattle for milk production, and the common dairy processes. Prerequisite: ANSC 1513. **\*\* (AGRI 1311)**

**ANSC 2543. Diseases and Sanitation.** (3-0) Credit 3 semester hours. Clinical studies of the most common livestock diseases embracing anamnesis, etiology, symptoms, diagnosis, therapeutics, and prophylaxis.

**ANSC 2553. Poultry Technology and Marketing.** (2-2) Credit 3 semester hours. Factors affecting the physical, chemical, microbiological and functional characteristics of poultry and egg products. Product development, processing, quality packaging, and quality control concepts. Laboratory fee: \$15.00.

**ANSC 3503. Animal Nutrition.** (3-0) Credit 3 semester hours. Composition and digestibility of feed, with physiology, preparation, feeding standards, calculation and balancing rations for commercial animal (swine, cattle-beef and dairy, sheep, goats, and horses). Prerequisite: ANSC 1513.

**ANSC 3513. Anatomy and Physiology.** (3-0) Credit 3 semester hours. Comparative approach, anatomically and physiologically of the basic systems of the domestic animals.

**ANSC 3523. Meat Science.** (2-2) Credit 3 semester hours. Methods of slaughtering farm animals, processing, curing preservation and storage of meats and products. Laboratory fee: \$15.00.

**ANSC 4533. Breeding/Genetics.** (3-0) Credit 3 semester hours. Physiology of reproduction, breeding, breeding systems and practices. Application of genetic principles to the problems of animal breeding. Prerequisite: Junior standing.

**DESN 1123. Design II.** (2-2) Credit 3 semester hours. Basic principles applied to composition; form and function; color properties, pigment mixtures, accents, dominance, subordination; analysis of design motifs and organization. Planning and expanding the design experience through computer simulation and composition. Laboratory fee: \$15.00. \*\*(ARTS 1312)

**DESN 2113. Design Illustration.** (2-2) Credit 3 semester hours. Principles and procedures of design illustration of apparel and accessories through use of computer-aided-, pen-and-ink, and brush techniques suitable for contour and line-cut reproduction. Laboratory fee: \$15.00.

**DESN 3123. Historic Costume Design.** (3-0) Credit 3 semester hours. A study of the history of dress as associated with art, history, and ethnology. Analysis of national costumes as sources of inspiration for design. Study of fashion lay-out and design essentials. Offered alternate years. Prerequisites: Junior standing.

**FDSC 3583. Food Quality Assurance and Sanitation.** (2-2) Credit 3 semester hours. Examination of the elements of a comprehensive quality assurance program. Areas of study include sanitation, pest control, waste disposal, food law regulations, sensory testing, panel selection and training, and experimental design and analysis of data. Prerequisite: Junior standing. Laboratory fee: \$15.00.

**FDSC 3593. Food Bacteriology.** (2-2) Credit 3 semester hours. Microbiology of human foods and accessory substances. Raw and processed foods, physical, chemical and biological phases of spoilage. Standard industry techniques of inspection and control. Laboratory fee: \$15.00.

**FDSC 4553. Raw Materials.** (3-0) Credit 3 semester hours. Problems involved with procurement, harvesting, handling and storage of fruits, vegetables, cereal, and dairy products. Prerequisite: HUNF 3623 or Advisor consent.

**FDSC 4573. Food Processing and Engineering.** (2-2) Credit 3 semester hours. Study of the principles and practices of thermal processing, quick freezing, dehydration, fluid flows, heat transfer, pickling and juice manufacture. Prerequisite: Junior standing. Laboratory fee: \$15.00.

**HDFM 2513. Childhood Disorders.** (3-0) Credit 3 semester hours. Review and examination of child psychopathology and disorders. Emphasis on theories of etiology, prevention, intervention and treatment of childhood disorders in varied settings, from infancy through adolescence.

**HDFM 2533. The Contemporary Family in Cross-Cultural Perspective.** (3-0) Credit 3 semester hours. Analysis of family interaction patterns, roles, and functions, throughout the life cycle as influenced by customs, cultural diversity, and socioeconomic status with implications for broader understanding of a multicultural society. Examination of public policies and procedures impacting family functioning.

**HDFM 2543. Pre-Adolescent and Adolescent Development.** (3-0) Credit 3 semester hours. Study and analysis of individual development from age twelve through twenty. Examination of developmental theories and current critical issues with emphasis on the role and relationships among family, peer, school and community interactions during these formative years. Observation, recording and evaluation of behaviors required.

**HDFM 2553. Human Development: Life Span.** (3-0) Credit 3 semester hours. The dynamic processes of co-development of the individual from conception to senescence in physical, sensory, intellectual, emotional, and social development, Pattern of self-development with focus on the interaction between and among individuals.

**HDFM 3503. Early Childhood Environments.** (3-0) Credit 3 Semester hours. Study and analysis of varied environments for children. Guidelines for program planning, identification and selection of creative and expressive materials and equipment, staffing, organization and management, record keeping, licensing requirements, parent/child/teacher interactions, and effective guidance techniques. Observation, participation and assessment required. Prerequisite: Junior standing.

**HDFM 3513. Individual and Family Counseling Strategies.** (3-0) Credit 3 semester hours. Study, assessment and application of basic interviewing and counseling strategies to include varied interviewing models, techniques and methods which facilitate individual and family interactions.

**HDFM 3523. Parenting Issues and Education.** (3-0) Credit 3 semester hours. Principles and patterns, philosophies and theories, methodologies and practices, and resources for the design, implementation, and evaluation of programs for enhancing parenting skills in the parent-child relationship. Prerequisite: Junior standing.

**HDFM 3543. Adulthood and Aging.** (3-0) Credit 3 semester hours. Examination and analysis of theoretical and empirical data related to social, economic, physical, and psychological factors influencing processes and consequences of aging. Research on a selected topic. Written report required. Prerequisite: Junior standing.

**HDFM 4513. The Family in Crisis.** (3-0) Credit 3 semester hours. Theories and intervention strategies for helping families handle crises throughout the life cycle. Examination and analysis of exceptional children. Child, spousal, elder, and drug abuse. Unemployment and underemployment, sexual assaults, alcoholism, illness, death, deviant life-styles, and other crises. Prerequisite: Junior standing.

**HDFM 4543. Human Sexuality Lifespan.**

**HUNF 2633. Food Service Systems.** (3-0) Credit 3 semester hours. Food service organization, layout and design, equipment selection, specifications, safety, sanitation, labor and financial control, consumer distribution.

**HUNF 2653. Food Principles and Meal Management.** (2-2) Credit 3 semester hours. Principles of preparation, organization, and management applied to planning, preparation, serving, and marketing nutritious meals to individuals and groups at varied socioeconomic levels. Management of work areas, organization techniques, and standards for meal service and table appointments. Prerequisite: HUSC 1343. Laboratory fee: \$15.00. \*(HECO 1315)

**HUNF 2663. Food Systems Management.** (2-2) Credit 3 semester hours. Management principles, process and control strategies, roles and responsibilities in food service systems. Application of food preparation and management principles to quantity food production including menu planning, procurement, storage and distribution. Prerequisite: HUNF 2633. Laboratory fee: \$15.00.

**HUNF 3613. Nutrition Throughout the Lifecycle.** (3-0) Credit 3 semester hours. Comparative assessment evaluation of nutrition and dietary requirements through the lifecycle. Pre-pregnancy, pregnancy, lactation, infancy, childhood, adolescence, adulthood, and aging. Nutritional needs on the basis of both physical growth and psychological development are emphasized. Prerequisite: HUSC 1343.

**HUNF 3623. Food Science and Technology.** (2-2) Credit 3 semester hours. Principles and techniques of food processing and preservation and their affects on nutrient retention. Food and drug regulations, food additives and standards of identity. Prerequisites: Credit or concurrent enrollment in CHEM 2033, 2032 and HUNF 2653. Laboratory fee \$15.00.

**HUNF 3623. Food Science and Technology.** (2-2) Credit 3 semester hours. Principles and techniques of food processing and preservation and their affects on nutrient retention. Food and drug regulations, food additives and standards of identity. Prerequisites: Credit or concurrent enrollment in CHEM 2033, 2032 and HUNF 2653. Laboratory fee \$15.00.

**HUNF 3653. Nutrition and Disease.** (2-2) Credit 3 semester hours. Study of the physiological and metabolic anomalies in chronic and acute diseases, and principles of nutritional therapy and prevention. Computer assisted nutritional assessment and diet calculations. Prerequisites: HUNF 2653, 3633 or consent of the instructor. Laboratory fee: \$15.00.

**HUNF 4303. Food and Nutrition Practicum.** (0-0) Credit 3 semester hours. Planned observation and entry-level work experience in selected clinical, hospital, business, industrial, educational or governmental settings in Nutrition, Food Science, Foods, Dietetics or Nutrition Research. Required field experience includes a minimum of 200 clock hours of supervised work activities. Prerequisite: Junior standing and advisor consent.

**HUNF 4413. Special Topics in Nutrition.** (2-2) Credit 3 semester hours. Directed study in theories, behavior change models, nutrition counseling, ADA Scope of Dietetics Practice Framework, the Standards of Professional Performance, the Code of Ethics of Dietetics, interdisciplinary relationships, and current issues in Human Nutrition. Prerequisite: Advisor consent. Laboratory fee: \$15.00

**HUNF 4603. Physicochemical Aspects of Food.** (1-4) Credit 3 semester hours. Covers physical and chemical factors accounting for color, flavors and texture of natural and processed foods. Laboratory experiments to illustrate the effects of varying ingredients and treatment on the quality of food products. Objective testing methods to determine food quality characteristics. Prerequisites: HUSC 1343; HUNF 2653, 2663. Laboratory fee: \$15.00.

**HUNF 4613. Research in Nutrition.** (1-4) Credit 3 semester hours. Investigate special topics in nutrition. Research methodology and computer application including statistical analysis. Proposals prepared by students and presented to instructor for approval. Students work independently, seeking guidance as necessary. Senior standing. Prerequisite: MATH 2003. Laboratory fee: \$15.00.

**HUNF 4663. Medical Nutrition Therapy I .** (2-2) Credit 3 semester hours. Focus will be on Nutrition Care Process in Nutritional Screening, Assessment, Diagnosis of Metabolic, Cardiovascular, Infectious disease states. Emphasis will be on medical terminology, clinical, anthropometric and aging. Nutrition needs on the basis of both physical growth, nutritional data analysis, documentation, and psychological development are emphasized provisions of care. Prerequisites: HUSC 1343, HUNF 3633, 3653. Advisor consent. Laboratory fee: \$15.00

**HUNF 4673. Medical Nutrition Therapy II.** (2-2) Credit semester hours. Focus will be on Nutrition Care Process (NCP) in the treatment of metabolic, cardiovascular and infectious disease states. Emphasis will be on Planning, Monitoring and Evaluation of Nutrition Intervention in the management of disease states. Prerequisites: Advisor consent. Laboratory fee: \$15.00

**HUNF 4693. Community Nutrition and Health.** (3-0) Credit 3 semester hours. Study of human nutrition and health problems from a community perspective; programs and policies related to nutrition at local, state and federal levels; approaches and techniques of effective application and dissemination of nutrition knowledge in communities. Prerequisite: HUSC 1343. Open to non-majors with consent of instructor.

**HUSC 1303. Elementary Textiles.** (1-4) Credit 3 semester hours. A study of fibers, yarns, fabric structure, dyes and finishes of fabrics. Analysis of fiber finish developments; properties of textile use with emphasis on aesthetic quality, mechanical properties, factors of degradation, laundering and cleaning. Review of recent textile trends. Open to non-majors. Laboratory fee: \$15.00. (HECO 1320)

**HUSC 1313. Color and Design.** (1-4) Credit 3 semester hours. Basic design principles applied to everyday living. Study of the relationship of sociological and anthropological principles to current perspectives in related art. Emphasis on art application and the use of computer simulation in the translation of theoretical concepts of space, pattern texture, line and color to the major disciplines in human sciences. Open to non-majors. Laboratory fee: \$15.00.

**HUSC 1333. Apparel Selection and Production.** (1-4) Credit 3 semester hours. Application of elements and principles of color and design and of sociological and psychological concepts of behavior to contemporary apparel design and production. Analysis of the relationship of design to figure type, personality, color, and fabrication. Open to non-majors. Laboratory fee: \$15.00. \*\*(HECO 1329)

**HUSC 1343. Ecology of Human Nutrition and Food.** (2-2) Credit 3 semester hours. Introduction to human nutrition and food. Study of human nutritional needs and problems encountered in providing food for the satisfaction of physiological and socio-cultural systems needs, and the significance of these interrelationships to health. Discussion of current nutritional issues. Open to non-majors. Laboratory fee: \$15.00. \*\*(HECO 1322, 1323)

**HUSC 1351. Human Sciences Perspectives.** (1-0) Credit 1 semester hour. The history and development of home economics as family, consumer and human sciences. Preparation, competencies and enrichment in the broad spectrum of human science professions; career development and career alternatives; interaction techniques for development of satisfying interpersonal skills. Open to non-majors. \*\*(HECO 1101)

**HUSC 2313. Child Family and Community.**

**HUSC 2373. Consumers and the Market.** (3-0) Credit 3 semester hours. Analysis of consumer competencies, attitudes, and concepts of the present market, market practices, aids toward intelligent buying of commodities, and the types of protection including legislation. Open to non-majors. \*\*(HECO 1303)

**HUSC 3313. Program Planning I.** (3-0) Credit 3 semester hours. A study of human sciences and related programs with emphasis on the development of skills in the planning, financing, managing, and marketing of these programs to varied audiences. Includes methods of observation and assessment of human science programs and services rendered to in-school and out-of-school youth and adults. Prerequisite: Junior standing.

**HUSC 3323. Program Planning II.** (3-0) Credit 3 semester hours. Analysis of the application of multiple strategies appropriate for delivering human science concepts to varied audiences utilizing multifaceted mediums. Includes examination and use of media, materials, supplies, equipment, and procedures for management, motivation and evaluation techniques. Prerequisite: Junior standing.

**HUSC 3343. Advanced Apparel Production.** (1-4) Credit 3 semester hours. Application of advanced techniques for the production of apparel using contemporary



fabrics, varied fabric combinations, and variations in garment style rendered from computer designed and commercial pattern alterations. Acquisition of techniques essential for mass apparel production. Prerequisite: HUSC 1333. Laboratory fee: \$15.00.

**HUSC 3353. Housing and Human Environments.** (3-0) Credit 3 semester hours. The physical, psychosocial, and aesthetic relationships between man and his environment with specific reference to housing. Economic, cultural and technological trends in building, equipment, living patterns and design. Comparative analysis of current housing trends and styles required. Prerequisite: Junior standing.

**HUSC 3373. Child Development.** (3-0) Credit 3 semester hours. Study and analysis of individual development and behavior during the early school years to adolescence with emphasis on physical, cognitive, social, language, and emotional areas. Examination of developmental and learning theories, principles of normal and atypical development and varied guidance techniques. Observation, recording and evaluation of behaviors required.

**HUSC 4304. Family Consumer Economics and Management.** (3-2) Credit 4 semester hours. A systems approach to family resource management through theory analysis and exploration of varying family structure, styles, and conditions. Simulated laboratory in group living required. Laboratory fee required. Prerequisite: Senior standing. Laboratory fee: \$15.00.

**HUSC 4306. Human Sciences Internship.** (0-0) Credit 6 semester hours. Planned program of observation and entry-level work experience in selected business or industrial firms, educational or governmental agencies/organizations in the food, agricultural and/or human sciences. Prerequisite: Junior standing and advisor consent.

**HUSC 4363. Family and Community Studies.** (2-2) Credit 3 semester hours. Comprehensive study of the cultural, social, political, and technological influences that impact educational, business, and support service programs for individuals, families and groups in a changing society. Emphasis on philosophy, organization, planning, financing, implementation and assessment of the components of family and community service programs with special attention to the Cooperative Extension Service model. Review and evaluations of school and community based programs required. Prerequisite: Junior standing. Laboratory fee: \$15.00.

**HUSC 4993. Independent Study.** (0-6) Credit 3 semester hours. Readings, research, and/or field work on selected topics. Prerequisite: consent of instructor.

**MERC 3713. Evaluation of Apparel and Home Accessories.** (3-0) Credit 3 semester hours. Study and analysis of design, textures and color coordination in ready-to-wear and home furnishings and accessories. Comparative examination of manufacturing, merchandising, sales and management from a retail/wholesale and consumer perspective.

**MERC 3723. Apparel Selection and Evaluation.** (2-2) Credit 3 semester hours. Study, analysis, and evaluation of textiles for individual apparel and household utilization. Study of fabric design, pattern design and making through use of computer simulation techniques. Comparison of methods for style and size variations, time management and garment cost. Review and analysis of current regulations for domestic and international trade relative to the textile and apparel industry. Prerequisite: DESN 2113; HUSC 1333. Laboratory fee: \$15.00.

**MERC 3743. Fashion Buying.** (3-0) Credit 3 semester hours. Analysis and study of the functions in fashion retail/wholesale organizations. Focus on concepts essential for buying, distribution, merchandising and marketing of ready-to-wear.

**MERC 4743. Fashion.** (3-0) Credit 3 semester hours. Study of the procedures for risk management and merchandising for the fashion retailer/wholesaler. Emphasis on planning, decision-making and management of varied resources and applications through computer simulations. Course work supplemented by case studies in merchandising. Prerequisite: Senior standing.

**MERC 4763. Promotion and Visual Merchandising.** (2-2) Credit 3 semester hours. Promotion of products through visual merchandising including fashion show production, special events, display, selling techniques and other promotional activities in industry and retailing. Coordination of buying, selling, promoting, display, and advertising functions in retail store merchandising. Prerequisite: Senior standing. Laboratory fee: \$15.00.

**MERC 4773. Fashion Study Tour.** (0-0) Credit 3 semester hours. Observation and analysis of domestic and/or foreign costumes, textiles, apparel markets, manufactures/mills, retailers/wholesalers, historic collections and sites; professional seminars. Prerequisite: MERC 3743 or Instructor consent.

**\*\*Transfer equivalent from Texas Community/Junior Colleges.**

## **School of Architecture**

**ARCH 1233. Visual Communications.** (1-4) Credit 3 semester hours. Multimedia techniques in graphics emphasizing orthographic projections, perspective, shade and shadow, and freehand drawing.

**ARCH 1253. Architecture Design I.** (1-4) Credit 3 semester hours. Study of the basic elements of design in both two and three dimensions.

**ARCH 1266. Architecture Design II.** (2-8) Credit 6 semester hours. Basic principles of architectural design and communication including organization, spatial sequence, relationships and problem solving using simple interior and exterior problems. Prerequisite: ARCH 1253.

**ARCH 1273. Introduction to Multimedia Computing.** (2-223-02) Credit 3 semester hours. Development of computer literacy with emphasis on document preparation and basic computer graphics. \*\*(ARCH 1315)

**ARCH 2223. Computer Aided Design.** (3-0) Credit 3 semester hours. Introduction to the range and potential of computer aided design and electronic media in problem solving and conceptual design.

**ARCH 2233. History and Theory of Architecture I.** (3-0) Credit 3 semester hours. Survey of the development of architecture from ancient times through the Renaissance. \*\*(ARCH 1301)

**ARCH 2243. History and Theory of Architecture II.** (3-0) Credit 3 semester hours. Survey of the development of architecture from the Renaissance period to the present. \*\*(ARCH 1302)

**ARCH 2256. Architecture Design III.** (2-8) Credit 6 semester hours. Problem solving and presentation of basic principles, concepts and ideas as applied to simple architectural problems. Prerequisite: ARCH 1266.

**ARCH 2266. Architecture Design IV.** (2-8) Credit 6 semester hours. Basic architectural design projects with an emphasis on site development, function, form and the design process. Prerequisite: ARCH 2256.

**ARCH 2273. Materials and Methods I.** (3-0) Credit 3 semester hours. Introduction to the properties and uses of natural and manufactured building materials and the effect of the nature of materials upon design.

**ARCH 2313. Digital Drawing.** (3-0) Credit 3 semester hours. Drawing using both digital and conventional drawing techniques.

**ARCH 2323. Digital Illustration.** (3-0) Credit 3 semester hours. Visual communication strategies, color theory and advanced drawing.

**ARCH 3013. Construction Estimating.** (3-0) Credit 3 semester hours. Classification of work and quantity survey techniques. Basic estimating applied to simple construction projects. Creation of bills of materials and quantity take-offs.

**ARCH 3256. Architecture Design V.** (2-8) Credit 6 semester hours. Building design as it relates to structure, circulation, context and support systems. Prerequisite: ARCH 2266 and credit or concurrent enrollment in ARCH 3293.

**ARCH 3266. Architecture Design VI.** (2-8) Credit 6 semester hours. Analysis and design of structures of advanced complexity with emphasis on interrelationships of building systems. Prerequisite: ARCH 3256.

**ARCH 3283. Materials and Methods II.** (3-0) Credit 3 semester hours. Emphasis on systems of building structures and on the interrelationships among the components of the systems, the assembly processes and project control.

**ARCH 3293. Structural Systems I.** (3-0) Credit 3 semester hours. A study of theory of various structural concepts. Emphasis placed on statics and strength of materials. Prerequisite: MATH 1123.

**ARCH 3453. Environmental Systems I.** (3-0) Credit 3 semester hours. Fundamentals of environmental systems for buildings. Lighting, electrical, heating, ventilating, air conditioning, plumbing, and life safety.

**ARCH 3463. Sustainable Building.** (3-0) Credit 3 semester hours. Issues facing the design and construction industries in creating and maintaining high performance green buildings. Sustainable building projects will be analyzed, green building rating systems of USGBC's LEED system and the DOE's Energy Star program will be studied and research and presentation of benchmark sustainable case study projects will be accomplished.

**ARCH 3563. Site and Urban Design.** (3-0) Credit 3 semester hours. An introduction to urban planning and the analysis of site characteristics, adaptation of building to site, determination of the interrelationship of intended site use with the environment, and the consideration of climate.

**ARCH 3643. Presentation Techniques.** (3-0) Credit 3 semester hours. Basic graphic communications emphasizing good drafting skills in; perspective drawings, rendering techniques and model building. Prerequisite: junior standing.

**ARCH 4063. Project Planning and Feasibility.** (3-0) Credit 3 semester hours. Principles and practice of residential and commercial land development.

**ARCH 4406. Architectural Internship.** (0-0) Credit 6 semester hours. Approved summer internship in an architecture office, the building construction industry or a planning or public service agency. Prerequisite: Permission of the Dean.

**ARCH 4423. Urban Planning.** (3-0) Credit 3 semester hours. Study of theories and concepts concerning the structure and function of urban communities; spatial and temporal aspects of urban development; problems and consequences of planned and unplanned changes in urban society.

**ARCH 4433. Structural Systems II.** (3-0) Credit 3 semester hours. A study of theory, behavior and design of structural systems in steel and timber. Prerequisite: ARCH 3293.

**ARCH 4443. CAD Construction Documents and Codes.** (3-0) Credit 3 semester hours. The organization, development and preparation of a complete set of working drawings using computer aided design. Prerequisite: ARCH 2223.

**ARCH 4456. Architecture Design VII.** (2-8) Credit 6 semester hours. Exploration of urban design and the human and environmental impact of individual designs in the built environment. Prerequisite: ARCH 3266.

**ARCH 4476. Architecture Design VIII.** (2-8) Credit 6 semester hours. Advanced problems in architecture and planning. Prerequisite: ARCH 4456.

**ARCH 4483. Structure Systems III.**

**ARCH 4503. Methods of Research.** (3-0) Credit 3 semester hours. Study and application of research and programming in architecture.

**ARCH 4523. Historic Preservation and Adaptive Reuse.** (3-0) Credit 3 semester hours. Introduction to the methods and practices of preservation and reuse of architectural heritage.

**ARCH 4613. Landscape Architecture.** (3-0) Credit 3 semester hours. Principles of site development as related to climate, topography, and intended use.

**ARCH 4653. Alternative Energy Design.** (3-0) Credit 3 semester hours. Optimum energy use strategies for buildings, energy audit methods, solar system applications, passive energy application and life-cycle cost analysis. Prerequisite: Consent of instructor.

**ARCH 4673. Introduction to Interior Design.** (3-0) Credit 3 semester hours. Introduction to the profession and practice of interior design.

**ARCH 4733. Advanced Computer Aided Design.** (2-2) Credit 3 semester hours. Comprehensive architectural design and presentation using 2-and 3 modeling software. Emphasis on the role electronic media in the visualization of design projects.

**ARCH 4743. Building Information Modeling.** (3-0) Credit 3 semester hours. Introduction to the fundamentals of Building Information Modeling and how they apply to the design and construction industry and a technology enabled workforce. Introduction to the methods of creation, evaluation and exchange of Building Information Models. Levering BIM and 4D modeling for construction optimization and sustainable building initiatives.

**ARCH 4776. Urban Design Studio.** (2-8) Credit 6 semester hours. Projects with a focus on urban issues and context.

**ARCH 4973. Special Topics.** (3-0) Credit 3 semester hours. The study of various specialized fields of architecture as they relate to contemporary social issues. Topics vary by semester. Course may be repeated for credit when topics vary.

**ARCH 4976. Special Topics.** (2-8) Credit 6 semester hours. Design studio with a focus on a particular issue or area of architecture. Topics vary by semester. Course may be repeated for credit when topics vary.

**ARCH 4986. Special Projects.** (2-8) Credit 6 semester hours. Unique design studio projects tailored to learning objectives. May be repeated for credit.

**ARCH 4993, 4996. Independent Study.** (0-0) Credit 3 or 6 semester hours. Readings, research, and/or field work on selected topics. Prerequisite: consent of advisor.

**ARTS 1001. Art Seminar I.** (1-0) Credit 1 semester hour. Informational seminar meeting once a week to allow staff members and art majors and minors to discuss contemporary visual art developments.

**ARTS 1021. Art Seminar II.** (1-0) Credit 1 semester hour. Informational seminar meeting once a week to allow staff members and art majors and minors to discuss contemporary visual art developments.

**ARTS 1113. Design I.** (1-4) Credit 3 semester hours. Study of the elements and concepts of two-dimensional design. \*\*(ARTS 1311)

**ARTS 1123. Design II.** (1-4) Credit 3 semester hours. A continuation of Design I with emphasis on three-dimensional design. Prerequisite: ARTS 1113. \*\*(ARTS 1312)

**ARTS 1153. Drawing I.** (1-4) Credit 3 semester hours. An introductory course investigating a variety of media and techniques. \*\*(ARTS 1316)

**ARTS 1163. Lettering Advertising Art I.** (1-4) Credit 3 semester hours. A basic course in the techniques of lettering.

**ARTS 1173. Graphics.** (1-4) Credit 3 semester hours. Introduction to basic printmaking techniques with emphasis on the proper use of tools and equipment including the computer. Prerequisite: ARTS 1163.

**ARTS 1183. Drawing II.** (1-4) Credit 3 semester hours. The study of the human anatomy and structural dynamics. \*\*(ARTS 1317)

**ARTS 1203. Introduction to the Visual Arts.** (3-0) Credit 3 semester hours. An introductory course emphasizing the understanding and appreciation of the visual arts: painting, sculpture and architecture. Open to all students. \*\*(ARTS 1301)

**ARTS 1213. Digital Studio Art.** (1-4) Credit 3 semester hours. Painting, drawing and sculpture using both traditional and digital techniques.

**ARTS 2133. Ceramics.** (1-4) Credit 3 semester hours. Investigation and practice in ceramic processes, forming and firing techniques. \*\*(ARTS 2346)

**ARTS 2173. Advertising Art I.** (1-4) Credit 3 semester hours. An introduction to advertising art problems with emphasis on typography, production techniques and the use of tools and materials including the computer.

**ARTS 2183. Advertising Art II.** (1-4) Credit 3 semester hours. Further exploration of graphic design problems related to the various print media with continuing emphasis on typography, production and basic techniques. Prerequisite: ARTS 2173.

**ARTS 2193. Painting.** (1-4) Credit 3 semester hours. Basic principles and elements of painting. Prerequisites: ARTS 1153 and 1183. \*\*(ARTS 2316)

**ARTS 2223. History of Art I.** (3-0) Credit 3 semester hours. A survey of painting, sculpture, architecture and the minor arts from prehistoric times to the 13th century. \*\*(ARTS 1303)

**ARTS 2233. History of Art II.** (3-0) Credit 3 semester hours. Art from the 13th Century to contemporary times including Europe, Asia, the Far East and the Americas. \*\*(ARTS 1304)

**ARTS 2243. Introduction to African Arts.** (3-0) Credit 3 semester hours. Survey of the visual expressions and experiences shaping African art from its inception to the present.

**ARTS 2283. Afro-American Art.** (3-0) Credit 3 semester hours. A survey of Afro-American art from the post- Civil War to the present linking the arts from the African continent.

**ARTS 2313. Graphic Design History.** (3-0) Credit 3 semester hours. Survey and examination of the historical events, technological developments and fine arts movements that have influenced the current state of graphic design.

**ARTS 2353. Color Theory.** (1-4) Credit 3 semester hours. Exploration of the language of color focusing on color properties and relationships, expressive qualities and symbolic meanings. Prerequisites: ARTS 1113 and 1123.

**ARTS 2363. Drawing for Designers.** (1-4) Credit 3 semester hours. Investigation on images and symbols and their meanings within different contexts and employing various image-making techniques. Prerequisite: ARTS 1153.

**ARTS 3113. Oil Painting I.** (1-4) Credit 3 semester hours. Explores the potentials of oil painting media, with emphasis on technique and composition. Prerequisite: 2193.

**ARTS 3123. Advertising Art III.** (1-4) Credit 3 semester hours. Course develops students' ability to deal with design problems of various print media from concept through comprehensive layout including the computers.

**ARTS 3133. Advanced Advertising Art IIIV.** (1-4) Credit 3 semester hours. Further development of ability to work conceptually with design problems. Prerequisite: ARTS 3123.

**ARTS 3143. Sculpture I.** (1-4) Credit 3 semester hours. An exploration of various sculptural approaches in a variety of media, including additive and subtractive techniques.

**ARTS 3173. Watercolor.** (1-4) Credit 3 semester hours. Study and practice in planning and execution of painting in transparent and opaque watercolor.

**ARTS 3193. Printmaking.** (1-4) Credit 3 semester hours. Introduction to basic printmaking techniques, with emphasis on the proper use of tools and equipment.

**ARTS 3323. Typography I.** (1-4) Credit 3 semester hours. Study and exploration into the history of type, expressive qualities of letterform and visual arrangement of type to support content.

**ARTS 3333. Typography II.** (1-4) Credit 3 semester hours. Continuation of Typography I incorporating more advanced and complex problems. Prerequisite: ARTS 3323 Typography.

**ARTS 3343. Graphic Design Procedures.** (1-4) Credit 3 semester hours. Introduction to production and traditional and digital pre-press procedures for print design.

**ARTS 3353. Junior Graphic Design Studio** (1-4) Credit 3 semester hours. Examination of visual communication problems in design with an introduction to design and language theories. Prerequisite: ARTS Graphic Design Procedures.

**ARTS 3513. Crafts Design.** (3-2) Credit 3 semester hours. The study of several crafts including clay, fibers, paper, textiles and plaster.

**ARTS 4103 Creative Photography I.** (1-4) Credit 3 semester hours. An introduction to basic photographic processes and techniques used as an art medium.



**ARTS 4143. Graphic Design I.** (1-4) Credit 3 semester hours. Exploration of advanced design problems related to multi-page pieces such as annual reports, promotional brochures, and in-house publications using the computer.

**ARTS 4153. Graphic Design II.** (1-4) Credit 3 semester hours. Advanced exploration of advertising design problems with emphasis on package design and point-of-purchase advertising.

**ARTS 4183. Motion Graphics.** (1-4) Credit 3 semester hours. Introduction to fundamental concepts for motion graphics with an emphasis on graphic storytelling, storyboarding and screen composition.

**ARTS 4193. Studio Senior Thesis.** (0-6) Credit 3 semester hours. Preparation for Senior Exhibition and final portfolio. Topics include resumes and professional presentation. Prerequisites: ARTS 4143, 4163, 4183.

**ARTS 4992. Independent Study in Art.** (0-0) Credit 2 semester hours. Individual studies in art.

**ARTS 4993. Independent Study in Studio Art.** (0-0) Credit 3 semester hours. Individual studies in studio art.

**CONS 1231. Construction Science Seminar I.** (1-0) Credit 1 semester hour. Informational seminar meeting once a week to allow faculty and construction science majors and minors to discuss opportunities in the construction industry. This course is open to all Majors and Minors.

**CONS 1241. Construction Science Seminar II.** (1-0) Credit 1 semester hour. An advanced seminar meeting once a week directed to the study of research readings, discussions and on-site field work in construction science. This course is open to all Majors and Minors.

**CONS 3533. Managing Construction Operations.** (3-0) Credit 3 semester hours. Managing construction operations from concepts of project selection, estimating, bidding, scheduling, subcontracting practices, cost tracking, project documentation, construction bonds, insurance, payments and the elements of close out. Special emphasis on the development of professional communication skills through student prepared multi-media presentations.

**CONS 3633. Surveying and Soils.** (2-2) Credit 3 semester hours. Principles of surveying; use of surveying instruments, topographical surveys and traverses; field practice and computations. Basic considerations of site management and soils considerations for construction projects.

**CONS 3733. Subdivision and Quantification of Work.** (2-2) Credit 3 semester hours. Construction project planning with emphasis on subdivision and quantification of work; quantity take-off using plans and specifications.

**CONS 4403. Construction Internship.** (0-0)Credit 3 semester hours. Approved summer internship in the building construction industry.

**CONS 4413. Residential Construction.** (3-0) Credit 3 semester hours. Residential construction processes, scheduling, subcontracting, financing, estimating, project control and current trends in site selection, design and energy efficiency.

**CONS 4423. Commercial Construction.** (3-0) Credit 3 semester hours. Focus on the project management of commercial construction projects ranging from high rise office buildings to small tilt-wall and pre-engineered buildings; topics include project acquisitions, mobilization, management, and close out.

**CONS 4433. Industrial Construction.** (3-0) Credit 3 semester hours. Introduction to industrial construction with an emphasis on process and power plant construction from a field office management perspective.

**CONS 4443. Highway/Heavy Construction.** (3-0) Credit 3 semester hours. Focus on the various aspects of highway/heavy construction; topics include earthmoving and paving equipment and utilization principles, pavement design and placement methods, unit price bidding methods, and a project case study.

**CONS 4453. Facilities Management.** (3-0) Credit 3 semester hours. Focus on the various aspects of facilities management; includes budgeting for operations and management, energy management, change management, design-build changes, in house versus out source maintenance, and contracting options.

**CONS 4553. Construction Delivery Systems** (3-0) Credit 3 semester hours. Methods and management techniques utilized in the building process.

**CONS 4603. Construction Labor and Safety.** (3-0) Credit 3 semester hours. Constitutional and legal basis of labor relations in the construction industry; craft and trade unions; dual and merit shop operations; contractor-union agreements; safety on the job site; OSHA and related regulations.

**CONS 4633. Construction Law and Ethics.** (3-0) Credit 3 semester hours. Delineation of contracts used in the construction industry; emphasis on understanding the functions and interrelationships of documents; review of law applied to the industry; application of the contract, and law to case studies; introduction to resources and analytical process used by construction professionals; ethics in the construction industry.

**CONS 4753. Scheduling and Mobilization.** (2-2) Credit 3 semester hours. Project scheduling procedures to include computer applications and resource leveling; project

types, office and field planning required to initiate the work; equipment and construction methods selection processes and an examination of contractual mandates specified.

**CONS 4773. Construction Project Controls.** (3-0) Credit 3 semester hours. Introduction of students to construction related financial documents; includes schedule of values, labor and operations cost reports, and construction budgets, trace construction dollar flow from time sheet to balance sheet.

**CONS 4821. Construction Industry Career Options.** (1-0) Credit 1 semester hour. Graduating senior seminar for Construction Science majors to provide an introduction to industry options with an emphasis on ownership of a business.

**CONS 4831. Starting a Construction Business.** (1-0) Credit 1 semester hour. Graduating senior seminar for Construction Science majors to expose students to the basics of setting up a business.

**CONS 4973. Special Topics.** (3-0) Credit 3 semester hours. The study of specialized fields of construction science as they relate to contemporary issues. Topics vary by semester. Course may be repeated for credit when topic varies.

**CONS 4993. Independent Study.** (3-0) Credit 3 semester hours. Individual reading, research and/or field work in selected topics.

\*\* Transfer equivalent from Texas Community/Junior Colleges.

## **Marvin D. and June Samuel Brailsford College of Arts and Sciences**

**ARAB 1013. Elementary Arabic I.** (3-0) Credit 3 semester hours. Practice in listening, speaking, reading and writing standard Arabic in order to acquire elementary vocabulary and structures and a general knowledge of Arabic cultures.

**ARAB 1023. Elementary Arabic II.** (3-0) Credit 3 semester hours. Continuation of practice in listening, speaking, reading and writing standard Arabic in order to acquire vocabulary, structures, and knowledge of Arabic cultures. Prerequisite: ARAB 1013.

**ARMY 1111-1121. Foundations of Officership I & II.** (1-0) Credit 1 semester hour. Instills awareness of the role that ROTC plays in developing leaders. Students receive introductory seminar on the purpose, role, organization, and mission of the U.S. Army. Basic military skills are developed while providing students with skills and strategies that enable them to make successful transitions to university life.

**ARMY 1171-1181. Leadership Laboratory I and II.** (0-2) Credit 1 semester hour. Considers the fundamentals of leadership. Provides practical exercise in command, organization, and control of small elements, together with physical fitness, using U.S. Army Physical Readiness Training as a model.

**ARMY 2203. Military History.** (3-0) Credit 3 semester hour. Provides a historical perspective to decisions made by American military leaders. The course covers major military engagements from the colonial period through the current operating environment. Students will examine how military leaders motivated their men, devised battle strategies, implemented rules of engagement, managed supplies, managed transportation assets as well as logistics for their troops.

**ARMY 2212. Individual Leadership Studies and Team Work I.** (2-0) Credit 2 semester hours. Enhances basic individual skills, while emphasizing small-unit team building. Develops student leadership potential through study and application of principles and techniques of leadership in a military environment. Topics covered include communications, map reading and land navigation, survival techniques, and customs and laws of war. Prerequisite: ARMY 1111, 1121 or consent of PMS.

**ARMY 2222. Individual Leadership Studies and Team Work II.** (2-0) Credit 2 semester hours. Studies principle in small-unit management, tactics, operations and leadership. Develops students' self-confidence in their leadership ability through progressive application of knowledge, decision making, communication and control. Prerequisite: ARMY 2212 or consent of PMS.

**ARMY 2271-2281. Leadership Laboratory III and IV.** (0-2) Credit 1 semester hour. Considers the fundamentals of leadership. Provides practical exercise in command, organization, and control of small elements, together with physical fitness, using U.S. Army Readiness Training as a model.

**ARMY 3313. Principles and Techniques of Leadership and Management.** (3-0) Credit 3 semester hours. Studies leadership techniques and tactical operations at the small-unit level. An induction to the basic team/squad tactical employment. Instruction covers operation orders, troop leading procedures, and squad movement techniques. Individual skills in map reading, land navigation, basic rifle marksmanship and physical fitness are emphasized. Prerequisites: ARMY 2212, 2222, summer internship or consent of the PMS.

**ARMY 3323. Leadership Skills and Small Unit Tactics.** (3-0) Credit 3 semester hours. Studies leadership techniques and tactical operations at the small-unit level. In-depth analysis of team/squad tactical procedures and techniques. Instruction covers the principals of offensive and defensive combat operations, patrolling, the decision-making process, troop leading procedures, land navigation, and operation orders. Numerous student oral presentations and practical exercises. Prerequisites: ARMY 3313 or consent of PMS.

**ARMY 3371-3381. Leadership Laboratory V and VI.** (0-2) Credit 1 semester hour. Considers the fundamentals of leadership. Provides practical exercise in command, organization, and control of small elements, together with physical fitness, using U.S Army Physical Readiness Training as a model.

**ARMY 3993. Independent Study.** (3-0) Credit 3 semester hour. Studies leadership techniques and tactical operations at the small-unit level. An induction to the basic team/squad tactical employment. Instruction covers operation orders, troop leading procedures, and squad movement techniques. Individual skills in map reading, land navigation, basic rifle marksmanship and physical fitness are emphasized. Or it will be an in-depth analysis of team/squad tactical procedures and techniques. Instruction covers the principals of offensive and defensive combat operations, patrolling, the decision-making process, troop leading procedures, land navigation, and operation orders. Prerequisites: ARMY 2212, 2222, summer internship or consent of the PMS.

**ARMY 4413. Leadership and Management I.** (3-0) Credit 3 semester hours. Considers the role of the junior officer in the U.S. Army. Individual motivational and behavioral processes, leadership, communications, financial planning, counseling, command and staff functions are emphasized.

**ARMY 4423. Leadership and Management II.** (3-0) Credit 3 semester hours. Pre-service overview of Army organization and general concept of operations. Includes a study of administration and logistics for junior officers, including many sub-courses in military justice, Army readiness, ethics and professionalism, and a review of the principles of war.

**ARMY 4471-4481. Leadership Laboratory VII and VIII.** (0-2) Credit 1 semester hour. Considers the fundamentals of leadership. Provides practical exercise in command, organization, and control of small elements, together with physical fitness, using U.S. Army Readiness Training as a model.

**ARMY 4991 – Independent Study.** (1-0) Credit 1 d. Provides practical exercise in command and organization.

**ARMY 4993. Independent Study.** (3-0) Credit 3 semester hour. Considers the role of the junior officer in the U.S. Army. Individual motivational and behavioral processes, leadership, communications, financial planning, counseling, command and staff functions are emphasized. Or it will include an overview of Army organization and general concept of operations. Includes a study of administration and logistics for junior officers, including many sub-courses in military justice, Army readiness, ethics and professionalism, and a review of the principles of war. Prerequisites: ARMY 3313, 3323.

**BIOL 1015. General Biology.** (3-4) Credit 5 semester hours. Basis of life, cell theory, structure and energy transformation, reproduction, and genetic variability. Origins of diversity of organisms.

**BIOL 1021-1031. Biology Seminar.** (1-0) Credit 1 semester hour. Discussion and presentations of current biological topics by students, faculty, and guest lecturers.

**BIOL 1025. General Biology.** (3-4) Credit 5 semester hours. Structure and function of living organism systems. Ecological relationships, natural selection, evolution, and human ecology.

**BIOL 1034. Botany.** (2-4) Credit 4 semester hours. Morphology and physiology of flowering plants. Structure, method of reproduction, and biotic relationships of type representatives of lower plants. Laboratory fee required. \*\* (BIOL 1411)

**BIOL 1054-1064. Anatomy and Physiology.** (2-4) Credit 4 semester hours each. Structure and functions of the human body. The structure of each of the systems demonstrated by models, charts, and animal dissections with their functions studied by experiments. Laboratory fee required. \*\* (BIOL 2401, 2402)

**BIOL 1073. General Microbiology.** (2-2) Credit 3 semester hours. Morphology and physiology of microorganisms related to health and sanitation; disinfection, growth, and control of those organisms causing common infectious diseases. Laboratory fee required. \*\* (BIOL 2421/2420)

**BIOL 1111. College Biology Laboratory.** (2-0) Credit 1 semester hour. Introductory laboratory course for non-biology majors. Emphasis on basic biological principles and their application to human life. Co-requisite: BIOL 1113. \*\* (BIOL 1408)

**BIOL 1113. College Biology I.** (3-0) Credit 3 semester hours. Introductory course for non-biology majors. Emphasis on basic biological principles and their application to human life. Co-requisite: BIOL 1111. \*\* (BIOL 1406)

**BIOL 1123. College Biology II.** (3-0) Credit 3 semester hours. The Ecosystem: A reflection of the interdependence of plants on animals and how man's existence is depending on successful interactions between plants and animals.

**BIOL 2054. Genetics.** (2-4) Credit 4 semester hours. Analysis of the structure, function, and transmission of genetic materials. Prerequisites: BIOL 1015, 1025, 1034, or equivalent. Laboratory fee required. \*\* (BIOL 2416)

**BIOL 2063. Healthcare Minority Communities.**

**BIOL 3014-3024. Human Physiology and Anatomy.** (2-4) Credit 4 semester hours each. For biology and physical education majors. Human structure, physiology, organ systems, and related principles. Prerequisites: BIOL 1015 and 1025 or equivalent. Laboratory fee required.

**BIOL 3034. General Microbiology.** (2-4) Credit 4 semester hours. Morphology, physiology, classification, and cultivation of the microorganism relevant to agriculture, pre-medicine, and industry. Prerequisites: CHEM 1033, BIOL 1015, or equivalent. Laboratory fee required.

**BIOL 3044. Immunology.** (2-4) Credit 4 semester hours. Fundamental aspects of immunology, antigenic systems, hypersensitivity, and serology. Laboratory fee required.

**BIOL 3054. Gross Anatomy.** (2-4) Credit 4 semester hours. Introduce the basic principles and facts relating to the gross anatomy of the human body. Prerequisites: BIOL 1015, 1025 lab required.

**BIOL 3064. Animal Histology.** (2-4) Credit 4 semester hours. Microscopic study of tissues and organs of vertebrates. Relation of structure to function. Laboratory fee required.

**BIOL 3073. Molecular Biology I.** (3-0). Credit 3 semester hours. The dynamics of carbohydrate, fat, protein and nucleic acid metabolism; recombinant DNA evolution, gene structure and function in specialized eukaryotic systems.

**BIOL 3083. Molecular Biology II.** (3-0) Credit 3 semester hours. Regulation of gene function in bacterial cells; the functioning of eukaryotic chromosomes; the extraordinary diversity of eukaryotic viruses.

**BIOL 3134. Synthetic Biology** (2-4) Credit 4 semester hours. The interdisciplinary study of the implementation and application of synthetic biology applied to design and construction of new biological parts, devices and systems. Laboratory fee is required. Prerequisites: BIOL 1015, BIOL 1025, BIOL 2054 and BIOL 3073.

**BIOL 3124. Cell Biology.** (3-3) Credit 4 semester hours. A study of the ultra structure and macro-molecular organization of cells, with emphasis on eukaryotic cells. The

convergence of structure and function in life phenomena will be highlighted. Prerequisites: BIOL 1025 and CHEM 2043.

**BIOL 4012. Medical Terminology.** (2-0) Credit 2 semester hours. Emphasis is on understanding basic medical terms and learning how they are used in documenting and reporting patient care procedures. Practical applications are provided by exercises and medical record analyses in each chapter.

**BIOL 4013. Topics in Genomics.** (3-0). Credit 3 semester hours. The study of the human genome in a holistic manner. Physical mapping and large scale DNA sequencing of the human genome: gene expression and micro arrays; the application of genome data to the incidence of disease markers and gene based therapeutics. Prerequisites: BIOL 1015, 1025, 2054; CHEM 2033, 2043.

**BIOL 4014. Vertebrate Embryology.** (2-4) Credit 4 semester hours. Structure, principles, and progress in vertebrate development. Chickens and pigs as principle laboratory materials. Prerequisites: BIOL 1015, 1025. Laboratory fee required.

**BIOL 4024. Comparative Anatomy.** (2-4) Credit 4 semester hours. Anatomy of organs and organ systems, their function and evolution in major vertebrate types. Prerequisites: BIOL 1015, 1025, or equivalent. Laboratory fee required.

**BIOL 4034. Practicum in Biology.** (0-8) Credit 4 semester hours. Recent advances in biology. Emphasis placed on investigation and inquiry as a means of acquiring knowledge in biology. Laboratory fee required.

**BIOL 4051-4061. Research.** (0-2) Credit 1 semester hour each. Library and laboratory work in specific biological problems.

**CHIN 1013. Elementary Chinese I.** (3-0) Credit 3 semester hour. Practice in listening, speaking, reading, and writing skills in Chinese to acquire elementary vocabulary and structures and a general knowledge of Chinese culture.

**CHIN 1023. Elementary Chinese II.** (3-0) Credit 3 semester hours. Continuation of acquisition of language skills and culture introduced in Elementary Chinese I. Prerequisite: CHIN 1013.

**CHEM 1011. Inorganic Chemistry Laboratory I.** (0-2) Credit 1 semester hour. A general laboratory course covering aspects of qualitative and quantitative analysis and determination of chemical and physical properties. Co-requisite MATH 1113; CHEM 1013 or CHEM 1033. \*\* (CHEM 1111)

**CHEM 1013. General Inorganic Chemistry I.** (3-0) Credit 3 semester hours. This course is designed for non-majors and non-minors. This first semester course entails exploration of the fundamental concepts, laws and theory of chemistry through study of the states of matter. A descriptive view of the periodic chart, chemical properties,



reactions, and chemical bonding theories and stoichiometry. Pre-requisite: MATH 1113. \*\* (CHEM 1311)

**CHEM 1021. Inorganic Chemistry Laboratory II.** (0-2) Credit 1 semester hour. The second semester continuation of CHEM 1011. A general laboratory course covering aspects of qualitative and quantitative analysis and determination of chemical and physical properties. Prerequisite MATH 1113, Co-requisite: CHEM 1023 or CHEM 1043. \*\* (CHEM 1112)

**CHEM 1023. General Inorganic Chemistry II.** (3-0) Credit 3 semester hours. This course is designed for non-majors and non-minors. This second semester course includes theories of acids, bases and salts. Elementary concepts of chemical kinetics, thermodynamics, equilibria, electrochemistry and redox reactions. An introduction to organic chemistry and selected topics. Prerequisite: MATH 1113; CHEM 1013 or CHEM 1033. \*\* (CHEM 1312)

**CHEM 1032. General Inorganic Chemistry Laboratory I.** (0-4) Credit 2 semester hours. For students majoring or minoring in chemistry. A general laboratory course covering aspects of volumetric and gravimetric analysis, qualitative analysis, determination of chemical and physical properties, and chemical synthesis. Co-requisites: MATH 1113; CHEM 1033.

**CHEM 1033. General Inorganic Chemistry I.** (3-0) Credit 3 semester hours. For students majoring or minoring in chemistry. Theory of matter and concepts of measurement, atoms, molecules and ions. Stoichiometry and chemical calculations, reactions in aqueous solutions, kinetics of gases, thermo-chemistry, atomic structure, electron configurations and chemical bonds. Prerequisite: MATH 1113. \*\* (CHEM 1411)

**CHEM 1034. Chemistry for Engineers** (4-0) Credit 4 semester hours. Fundamental and Physical principles in chemistry, bonding, thermodynamics and kinetics with emphasis to engineering applications. Prerequisite: High school AP chemistry or CHEM 1033 or 1013 or departmental approval.

**CHEM 1042. General Inorganic Chemistry Laboratory II.** (0-4) Credit 2 semester hours. For students majoring or minoring in chemistry. A continuation of CHEM 1032. General laboratory course covering aspects of volumetric, gravimetric and qualitative analyses; determination of chemical and physical properties, and chemical synthesis. Prerequisite: MATH 1113, Co-requisite: CHEM 1043.

**CHEM 1043. General Inorganic Chemistry II.** (3-0) Credit 3 semester hours. For students majoring or minoring in chemistry. A continuation of CHEM 1033. Bonding theory and molecular structure, intermolecular forces properties of solutions, chemical kinetics, chemical equilibrium, acid-base equilibria, thermodynamics, electrochemistry and nuclear chemistry and introduction to organic chemistry. Prerequisites: MATH 1113, CHEM 1033. \*\* (CHEM 1412)

**CHEM 1051. General Inorganic Chemistry Laboratory.** (0-2) Credit I semester hour. A laboratory course in general chemistry for students in the health sciences. \*\* (CHEM 1105)

**CHEM 1053. Introduction to General Chemistry.** (3-0) Credit 3 semester hours. A course in general chemistry for students in the health sciences. \*\* (CHEM 1305)

**CHEM 2012. Quantitative Analysis.** (2-0) Credit 2 semester hours. Introduction to the principles and techniques of volumetric and gravimetric analysis employing modern instrumentation. Techniques include potentiometric, spectral-photometric, precipitation, electrochemical, and separation methods. Prerequisites: CHEM 1033-1043.

**CHEM 2032. General Organic Chemistry Laboratory I.** (0-4) Credit 2 semester hours. A laboratory course including qualitative and quantitative investigations focusing on preparation and characterization of organic compounds. Co-requisite: CHEM 2033.

**CHEM 2033. General Organic Chemistry I.** (3-0) Credit 3 semester hours. For chemistry majors and minors, chemical engineering, and science majors. Electronic structure and bonding, introduction to organic compounds, reactions of alkenes, stereochemistry, reactions of alkynes, electron delocalization and resonance, reaction of dienes, substitution and elimination reactions. Prerequisite: CHEM 1043.

**CHEM 2042. General Organic Chemistry Laboratory II.** (0-4) Credit 2 semester hours. This is a continuation of CHEM 2032. Co-requisite: CHEM 2043

**CHEM 2043. General Organic Chemistry II.** (3-0) Credit 3 semester hours. For chemistry majors and minors, chemical engineering, and science majors. A continuation of CHEM 2033. Substitution and elimination reactions, spectroscopic identification of organic compounds, reactions of substituted benzenes, reactions of carbonyl compounds, bioorganic compounds and special topics in organic chemistry. Prerequisite: CHEM 2033.

**CHEM 2112. Quantitative Analysis Laboratory.** (0-4) Credit 2 semester hours. This course is a continuation of the CHEM 2012. Prerequisites: MATH 1113; CHEM 1033, and CHEM 1043.

**CHEM 3413. Physical Chemistry.** (3-0) Credit 3 semester hours. A rigorous treatment of thermodynamics (Laws), thermo-chemistry, application of thermodynamic laws to gases (ideal and real), chemical equilibria, ionic equilibria, and electrochemistry. Prerequisites: MATH 1124; CHEM 1043.

**CHEM 3422. Physical Chemistry Laboratory.** (0-4) Credit 2 semester hours. A laboratory course including experimental studies in chemical thermodynamics, equilibria, chemical kinetics, transport properties, spectroscopy, and molecular structure. Co-requisite: CHEM 3413.

**CHEM 3423. Physical Chemistry.** (3-0) Credit 3 semester hours. A continuation of CHEM 3413. Rate processes, kinetic theory and transport properties of gasses and liquids. An introduction to the Fundamentals of Quantum mechanics and spectroscopy. Atomic and molecular structure. Electric and magnetic properties of molecules. Prerequisites: MATH 2024, CHEM 3413.

**CHEM 3432. Physical Chemistry Laboratory.** (0-4) Credit 2 semester hours. This course is a continuation of CHEM 3422. Co-requisite: CHEM 3423.

**CHEM 4001. Journal Reading and Chemical Literature.** (1-0) Credit 1 semester hour. Initial instruction in the methodology and practice of efficient use of the chemical literature. Detailed study of recent developments in chemistry. Designed to develop and stimulate research attitudes. Prerequisite: major in chemistry or permission from instructor.

**CHEM 4023. Forensic Chemistry.** (3-0) Credit 3 semester hours. Introduction to forensic science, chemical evidence handling, analysis and drug classification. Sampling techniques in forensic chemistry. Prerequisites: CHEM 2033, 2043, 2012, 2112, 3413, 3422

**CHEM 4032. Forensic Chemistry Laboratory.** (0-4) Credit 2 semester hours. Drug identification and confirmatory tests using spectroscopic techniques that include HPLC, GC, ICP/AES, FTIR. Sample handling and storage. Prerequisite: CHEM 4053 or Departmental Approval

**CHEM 4033. Biochemistry.** (3-0) Credit 3 semester hours. A study of the chemistry of biological molecules: proteins, lipids, carbohydrates and nucleic acids. Enzyme catalysis, Bioenergetics, Metabolism of carbohydrates, fats and proteins. Interrelationship of the metabolic pathways. Prerequisites: CHEM 2033 and 2043 or permission from instructor.

**CHEM 4042. Biochemistry Laboratory.** (0-4) Credit 2 semester hours. Experiments in basic methodology for the isolation, purification and characterization of carbohydrates, lipids, proteins, nucleic acids and enzymes from natural products. Co-requisites: CHEM 4033 or permission from instructor.

**CHEM 4051-4061. Research.** (0-2) Credit 1 semester hour each. Library and laboratory work on selected problems.

**CHEM 4052. Instrumental Analysis Laboratory.** (0-4) Credit 2 semester hours. Laboratory course that includes experimental applications of spectroscopy, electro-analytical methods, and chromatography. Co-requisite: CHEM 4053.

**CHEM 4053. Instrumental Analysis.** (3-0) Credit 3 semester hours. An introduction to the theory and application of modern instrumentation and techniques to the analysis of chemical systems. Includes interpretive spectroscopy, computer-assigned experimentation, and the use of the chemical literature. Prerequisite: CHEM 3413.

**CHEM 4063. Inorganic Chemistry.** (3-0) Credit 3 semester hours. Modern atomic theory and the Periodic System, valence and bonding. The constitution of inorganic compounds; coordination chemistry and ligand field theory. The chemistry of nonmetals including polyacids, peracids and hydrides. Reactions in non-aqueous systems. Some interstitial and nonstoichiometric compounds. Radioactivity and atomic integration. Prerequisite: CHEM 3413.

**CHEM 4073. Topics in Physical Chemistry.** (3-0) Credit 3 semester hours. Selected topics in modern physical chemistry from areas including, but not limited to electrochemistry, surface chemistry, kinetics and reaction rate theory equilibria, thermodynamics with applications to problems in chemistry and biology, computers in chemistry, and general mechanisms and pathways involved in the pollution of the environment. Prerequisites: CHEM 3413-3423 and MATH 1124-2024-2034.

**CHEM 4991, 4992, 4993. Independent Study.** (3-0) Credit 1, 2, or 3 semester hours. Readings, research, and/or field work on selected topics. Prerequisite: Consent from advisor.

**CHIN 1013. Elementary Chinese I.** (3-0) Credit 3 semester hours. Practice in listening, speaking, reading, and writing skills in Chinese to acquire elementary vocabulary and structures and a general knowledge of Chinese culture.

**CHIN 1023. Elementary Chinese II.** (3-0) Credit 3 semester hours. Continued practice in listening, speaking, reading, and writing skills in Chinese to acquire elementary vocabulary and structures and a general knowledge of Chinese culture. Prerequisite: CHIN 1013.

**CHIN 2013. Intermediate Chinese I.** (3-0) Credit 3 semester hours. Continuation of acquisition of language skills and culture presented in Elementary Chinese I and II. Prerequisite: CHIN 1023.

**CHIN 2023. Intermediate Chinese II.** (3-0) Credit 3 semester hours. Continuation of acquisition of language skills and culture on an intermediate level with emphasis on reading, speaking, grammar, writing, and translation. Prerequisite: CHIN 2013.

**CHIN 3333. Special Topics in Chinese.** (3-0) Credit 3 semester hours. Course offers a critical examination of a topic within the instructor's field of specialization. Emphasis on advanced study allows students to demonstrate the capacity to bring the information, skills, and ideas to bear on a topic or project in Chinese. May be repeated for up to 6 semester credit hours. Pre-requisite: CHIN 2023 with a "C" or above.

**COMM 1003. Fundamentals of Speech Communication.** (3-0) Credit 3 semester hours. This course is designed to introduce students to fundamental communication theories, principals and practices. Students will develop public speaking skills, interpersonal skills, and practical applications. (SPCH 1003)

**COMM 1601. Forensics Practicum.** (0-1) Credit 1 semester hour. A practice course for students participating in university forensics or speech contest activities. May be taken for one hour credit per semester for a total of three semester credit hours. (SPCH 1001)

**COMM 1713. Introduction to Mass Communication.** (3-0) Credit 3 semester hours. A basic theory course encompassing the history and functions of mass media and the communication process. (COMM 1013)

**COMM 1723. Communication History.** (3-0) Credit 3 semester hours. The course surveys the development of communication by examining a variety of time periods, identifying historical trends and concentrating on a variety of media forms: speech, writing, telegraphy, telephony, radio, television and computer communication. (COMM 1883)

**COMM 2513. Principles of Writing for the Discipline.** (3-0) Credit 3 semester hours. This is a writing course for communication majors, covering source citation, style, research, and content. The course will focus on how to write research papers for both qualitative and quantitative audiences. Students will learn the principles of argument, persuasion, and informative writing for the communication discipline. Prerequisite: ENGL 1133 or equivalent.

**COMM 2523. Broadcast Writing.** (3-0) Credit 3 semester hours. Writing for television and radio with emphasis on acquiring the skills needed in gathering and producing information as news. Begins the practical application of basic principles of broadcast news writing. Prerequisites: COMM 1713, ENGL 1133 or equivalent. (COMM 2113)

**COMM 2533. Screen Writing.** (3-0) Credit 3 semester hours. Basic approaches for conceiving and writing film and contemporary television scripts. The class will cover pitches, treatments, screenplays, and synopses. Students will be required to write a film script and study story structure, arc, and climax. Prerequisites: COMM 1713, ENGL 1133 or equivalent. (COMM 2223)

**COMM 2543. News Writing and Reporting.** (3-0) Credit 3 semester hours. Fundamentals of news writing for print. Identification of newsworthy data, methods of writing leads, and news and feature stories for publication. Prerequisites: COMM 1713, ENGL 1133 or equivalent. (COMM 2313)

**COMM 2603. Interpersonal Communication.** (3-0) Credit 3 semester hours. A study of human symbolic behavior and its effects on people. Emphasizes practical and theoretical implications of face-to-face interaction in social, business, and professional settings. Prerequisites: COMM 1003. (SPCH 2103)

**COMM 2613. Argumentation and Debate.** (3-0) Credit 3 semester hours. An intensive study of the advocacy system with special emphasis on issues identification, use of evidence, and logical proof. Extensive practice in argumentative speaking using current CEDA, NDT, and UIL debate topics: Prerequisite: COMM 1003. (SPCH 2113)

**COMM 2623. Small Group Communication.** (3-0) Credit 3 semester hours. Emphasizes the role of oral communication in the dynamics of small group behavior. Group presentations focus on fact-finding, information-sharing, and problem-solving/decision-making processes. Prerequisite: COMM 1003. (SPCH 2223)

**COMM 2633. Voice and Diction.** (3-0) Credit 3 semester hours. An analysis of the scientific aspects of oral communication: anatomy and physiology of the mechanisms of respiration, phonation, resonance, and articulation. Includes coverage of the International Phonetic Alphabet and an analysis of vowels and consonants and standards of pronunciation. Prerequisite: COMM 1003. (SPCH 2013)

**COMM 2703. Photojournalism.** (3-0) Credit 3 semester hours. Fundamentals of photographic theory and practice as a medium of communication. Experience in cameras, lenses, shutters, lighting, exposure, and development. Prerequisite: COMM 1713 or consent of instructor. (COMM 2603)

**COMM 2713. Visual Communication.** (3-0) Credit 3 semester hours. This course offers an introduction to the history, principles, theories, techniques, technologies, and applications of visual communication in a variety of media. Students will explore visual communication through critical analysis and application. Prerequisite: COMM 1713. (COMM 2813)

**COMM 2723. Copy and Editing Production.** (3-0) Credit 3 semester hours. Journalistic desk work, evaluating news copy, making good news judgment, copy editing of local wire news, headline writing, and fundamentals of page layout. Prerequisites: COMM 1713, ENGL 1133 or equivalent. (COMM 2423)

**COMM 3513. Communication Law and Ethics.** (3-0) Credit 3 semester hours. Examines the idea of free speech as it has developed in the United States with attention to mass media law, including topics such as libel, invasion of privacy and obscenity. In addition to studying media law, students will examine and discuss ethical issues that involve the media. The objective is to develop an understanding of the First Amendment and the role it plays in American society. Prerequisite: COMM 1713. (COMM 3713)

**COMM 3523. Feature and Magazine Writing.** (3-0) Credit 3 semester hours. A study of techniques used for news gathering and writing for newspaper feature articles and magazines. A survey of freelance writing procedures. Prerequisites: Junior standing and COMM 2523 or COMM 2543. (COMM 3423)

**COMM 3603. Persuasion.** (3-0) Credit 3 semester hours. A study of nature, necessity, and ethics of persuasion. Study of the organization and adaptation of persuasive techniques to achieve personal and public goals and extensive practice in the construction and presentation of persuasive speeches. Prerequisites: Junior standing, COMM 1003, COMM 2603, and COMM 2513, or COMM 2523, or COMM 2533, or COMM 2543. (SPCH 3223)

**COMM 3643. Nonverbal Communication.** (3-0) Credit 3 semester hours. This course covers basic nonverbal communication theories and research. Prerequisites: Junior standing, COMM 1003, COMM 2603, and COMM 2513, or COMM 2523, or COMM 2533, or COMM 2524. (SPCH 3113)

**COMM 3653. Gender Communication.** (3-0) Credit 3 semester hours. This course introduces students to contemporary communication theory and research on the interconnections between gender and communication. Prerequisites: Junior standing, COMM 1003, COMM 2603, and COMM 2513, or COMM 2523, or COMM 2533, or COMM 2543. (SPCH 3013)

**COMM 3663. Intercultural Communication.** (3-0) Credit 3 semester hours. This course examines communication between individuals of different cultures and subcultures and explores practical guidelines for mitigating miscommunication across cultures. Prerequisites: Junior standing, COMM 1003, COMM 2603, and COMM 2513, or COMM 2523, or COMM 2533, or COMM 2543. (COMM 3203)

**COMM 3673. Communication and Conflict Management.** (3-0) Credit 3 semester hours. This course evaluates how organizations manage conflict and change in the environment. It examines the parametric approaches used to design and implement strategic change in organizations; a theoretical and case study approach is presented for students to understand the communication strategies used to manage organizational crises. Prerequisites: Junior standing, COMM 1003, COMM 2603, and COMM 2513, or COMM 2523, or COMM 2533, or COMM 2543. (SPCH 3523)

**COMM 3701. Communication Practicum.** (0-2) Credit 1 semester hours. Practical Communication experiences in radio-television production of student newspapers, sports information, news editing, public relations, advertising, and/or speech communication public service. May be taken for one hour credit per semester for a total of three semester credit hours. Prerequisites: permission of department head. (COMM 3001)

**COMM 3713. Communication Technology.** (3-0) Credit 3 semester hours. A study of electronic process and applications in media. Emphasis on current and emerging technologies in telecommunications, radio, TV, satellite, fiber, optics, and computer-mediated communication. Junior standing, COMM 1713, and COMM 1003: COMM 2513, or COMM 2523, or COMM 2533, COMM 2543. (COMM 3913)

**COMM 3723. Digital Video Production I.** (3-0) Credit 3 semester hours. An introductory study of current approaches and practices in digital video production utilizing combination of digital hardware and software for content development and broadcast in a variety of media. Prerequisites: Junior standing, COMM 1713; COMM 2513, or COMM 2523, or COMM 2533, or COMM 2543. (COMM 3103)

**COMM 3733. Television Studio Production.** (3-0) Credit 3 semester hours. An introductory level study of current television studio practices. This course encompasses content development, basic television system operation, and production elements.

Prerequisites: Junior standing, COMM 1713; COMM 2513, or COMM 2523, or COMM 2533, or COMM 2543. (COMM 3113)

**COMM 3743. Principles of Advertising.** (3-0) Credit 3 semester hours. Growth, organization, and practices of the advertising industry. Consumer surveys, creative planning, and approaches to the development of advertising campaigns. Prerequisites: Junior standing, COMM 1713; COMM 2513, or COMM 2523, or COMM 2533, or COMM 2543. (COMM 3813)

**COMM 3753. Principles of Public Relations.** (3-0) Credit 3 semester hours. Introduction to the field of public relations practice and dynamics of process. Analysis and application of public relations techniques used by various organizations. Prerequisites: Six hours of English; junior standing, COMM 1713; COMM 2513, or COMM 2523, or COMM 2533, or COMM 2543. (COMM 3823)

**COMM 4503. Media Criticism.** (3-0) Credit 3 semester hours. Media criticism considers the nature and forms of media, their effects on audiences and society, and literacy appropriate to their understanding and use. Prerequisites: Senior standing, COMM 1713, and COMM 2513, or COMM 2523, or COMM 2533, or COMM 2543. (COMM 3703)

**COMM 4513. Rhetorical Criticism.** (3-0) Credit 3 semester hours. This course involves the study of important decisions in rhetorical criticism with the emphasis on the analysis of standards and methods of evaluation. Prerequisites: Senior standing, COMM 2603; COMM 2513, or COMM 2523, or COMM 2533, or COMM 2543. (SPCH 4923)

**COMM 4523. Communication Theory.** (3-0) Credit 3 semester hours. This course takes a close, critical look at some of the most important contemporary theories of human communication, emphasizing their practical implications for society and our everyday lives. Prerequisites: Junior standing and COMM 2513, or COMM 2523, or COMM 2533, or COMM 2543. (COMM 4013)

**COMM 4533. Communication Research.** (3-0) Credit 3 semester hours. Universal research process from defining ideas and problems to reporting results. Casual interference and relative strengths of various research designs. Fundamentals and specifics applications of most common data-gathering and measurement techniques in Communication research: experimental, survey, content analysis, historical and qualitative. Prerequisites: Senior standing and COMM 2513, or COMM 2523, or COMM 2533, or COMM 2543. (COMM 4923)

**COMM 4543. Advanced Writing For The Discipline.** (3-0) Credit 3 semester hours. Students will learn and apply advanced methods and theories of writing for the communication discipline, producing a major research paper, literature review or performative writing project. This course will cover advanced elements of source citation, style, research writing formats and content. Prerequisites: Junior standing, and COMM 2513.



**COMM 4603. Organizational Communication.** (3-0) Credit 3 semester hours. An advanced course in management of human resources through communication skills in interviewing, briefing, consulting, and decision-making. Focuses on analyzing and evaluating patterns of communication within social, cultural, industrial, and academic organizations. Prerequisites: Junior standing, COMM 1003, COMM 2603, and COMM 2513, or COMM 2523, or COMM 2533, or COMM 2543. (SPCH 4123)

**COMM 4613. Political Communication.** (3-0) Credit 3 semester hours. This course involves a critical evaluation of political campaigns. It examines the theory and practice of selected topics in communication related to political persuasion. Prerequisites: Junior standing, COMM 1003, COMM 2603, and COMM 2513, or COMM 2523, or COMM 2533, or COMM 2543. (SPCH 3503)

**COMM 4623. Rhetoric of Social Movements.** (3-0) Credit 3 semester hours. The course evaluates the philosophical, social, and cultural foundations of rhetorical theory and practices found in different social movements. It looks at the ways in which social groups and persuasive efforts shape public opinion, emphasizing the way in which language symbols, writing, and activates are used as devices of oppression and liberation. Prerequisites: Junior standing, COMM 1003, COMM 2603, and COMM 2513, or COMM 2523, or COMM 2533, or COMM 2543. (SPCH 3513)

**COMM 4693. Special Topics in Communication Studies.** (3-0) Credit 3 semester hours. Intensive study of selected topics in communication studies such as rhetoric, performance, interpersonal, intercultural, and organizational. Areas covered will rotate by term and instructor. This course is repeatable with change in topic up to 6 semester credit hours. Prerequisites: Junior standing, COMM 1003, COMM 2603, and COMM 2513, or COMM 2523, or COMM 2533, or COMM 2543.

**COMM 4703. Professional Internship.** (3-0) Credit 3 semester hours. Semester spent in a professional setting in a communication medium. Direct supervision by media and faculty professionals. This internship will be off-campus unless by permission of department head. This course can be repeated up to 6 semester credit hours. Prerequisites: Prior completion of 18 hours of communication courses. (COMM 3003/4003)

**COMM 4713. Voice and Performance.** (3-0) Credit 3 semester hours. This course gives students a wide range of performance skills suited for live audiences. Students will perform in class and laboratory settings to develop their vocal and kinesthetic abilities in preparation for live performance. Prerequisites: Junior standing, COMM 1003 and COMM 1713; COMM 2513, or COMM 2523, or COMM 2533, or COMM 2543.

**COMM 4723. Digital Video Production II.** (3-0) Credit 3 semester hours. An advanced study of current approaches, practices and trends in digital video production. This course encompasses preproduction, production, and postproduction, including content development, manipulation, and effects. Prerequisites: COMM 3723. (COMM 4103)

**COMM 4733. Advanced Nonlinear Editing.** (3-0) Credit 3 semester hours. This advanced nonlinear editing course builds upon a student's technical knowledge of nonlinear editing, allowing the investigation of the aesthetic and structural challenges faced when editing different types of projects. This course covers advanced editing preference setup, different video capture methods, and video/audio effect applications. Prerequisites: COMM 3723 or equivalent.

**COMM 4793. Special Topics in Mass Communication.** (3-0) Credit 3 semester hours. Intensive study of selected topics in mass Communication areas, including but not limited to media studies, film studies, media production and new media. Area covered will rotate by term and instructor. This course is repeatable with change in topics. Prerequisites: Junior standing, COMM 1713; COMM 2513, or COMM 2523, or COMM 2533, or COMM 2543.

**COMM 4993. Independent Study.** (0-0) Credit 1, 2, or 3 semester hours. Readings, research, and/or field work on selected topics. Prerequisite: consent of department head.

**DRAM 1003. Introduction to Acting.** (1-4) Credit 3 semester hours. This course is designed to provide the student with the fundamentals for craft of acting. The students will be introduced to acceptable and unacceptable acting techniques.

**DRAM 1013. Stage Diction.** (1-4) Credit 3 semester hours. Drills and exercises designed to improve the diction and pronunciation of the actor. Breath control, articulation, phonation, etc.

**DRAM 1103. Introduction to Theatre.** (3-0) Credit 3 semester hours. An orientation course exposing the student to plays and to the various technical skills involved in bringing a play to life. Designed to give the student an understanding of theatre and all its aspects. \*\* (DRAM 1310)

**DRAM 1111. Theatre Practicum.** (0-3) Credit 1 semester hour. This is a workshop course in which the student is assigned to a crew for the purpose of introducing the student to the various areas of specialization in the field of Theatre. This course also provides practical application of performance and technical skills needed to enhance theatrical productions.

**DRAM 1113. Introduction to Theatre Technology.** (2-2) Credit 3 semester hours. An introductory course exposing students to the visual elements (scenic, costumes, lighting, sound, etc.) in a production as approached by the designer, director, and actor.\*\*DRAM 1351

**DRAM 1121. Theatre Practicum.** (0-3) Credit 1 semester hour. This course is a continuation of DRAM 1111, a workshop course in which the student continues to work with assigned to a crew for the purpose of introducing the student to the various areas of specialization in the field of Theatre. This course provides the student with practical applications of performance and technical skills needed to enhance theatrical productions. Prerequisite: DRAM 1111.

**DRAM 1203. Stagecraft.** (1-4) Credit 3 semester hours. Fundamentals of set construction. Practical experience in building and painting stage scenery. Each student is required to assist with construction of a set. \*\* (DRAM 1330)

**DRAM 1303. Stage Makeup.** (1-4) Credit 3 semester hours. Fundamentals of stage makeup: equipment and basic application of straight, character, corrective, and 3-D makeup. \*\* (DRAM 1341)

**DRAM 1323. Stage Movement.** (1-4) Credit 3 semester hours. A course designed to train the student how to use his body on stage. Techniques involving the application of stage movement to music, prose, and mime. \*\* (DRAM 1322)

**DRAM 1411. Acting Lab I.**

**DRAM 1421. Acting Lab II.** (0-2) Credit 1 semester hour each. Drills and exercises, with presentation and execution of scenes.

**DRAM 2013. Intermediate Acting.** (1-4) Credit 3 semester hours. A training course providing the student with the fundamentals of ensemble acting. Includes characterization, play analysis, and stage business. Prerequisite: DRAM 1003. \*\* (DRAM 2351)

**DRAM 2023. Advanced Acting.** (0-0) Credit 3 semester hours. Analysis, preparation, and presentation of monologues and scenes from plays, with emphasis on the individual actor and ensemble acting. Continuation of DRAM 2013. \*\* (DRAM 2352)

**DRAM 2111. Theatre Practicum.** (0-3) Credit 1 semester hour. At this level, the student chooses specific areas of specialization in which to continue working and examining as potential career options in Theatre. Within the chosen specialization crews, the student gains practical application of performance and technical skills needed to enhance theatrical productions. Prerequisite: DRAM 1121.

**DRAM 2113. Theatre History I.** (3-0) Credit 3 semester hours. Origin and development of Western theatre as revealed through play; theories and techniques characteristic of each important period from the Greek to the Elizabethan. \*\* (DRAM 2361)

**DRAM 2121. Theatre Practicum.** (0-3) Credit 1 semester hour. This course is a continuation of DRAM 2111. The student continues to work within chosen specialization crews for the purpose of gaining knowledge and experience in possible career options in Theatre and to gain practical application of performance and technical skills needed to enhance theatrical productions. Prerequisite: DRAM 2111.

**DRAM 2123. Theatre History II.** (3-0) Credit 3 semester hours. A continuation of DRAM 2113 from the 17th century to the development of modern theatre. Prerequisite: DRAM 2113. \*\* (DRAM 2362)

**DRAM 2213. African American Theatre I.** (3-0) Credit 3 semester hours. The study of the origin and development of African American Theatre and Drama from 1847 to World War I through the examination of plays, theories and socio-political themes of the era.

**DRAM 2223. African American Theatre II.** (3-0) Credit 3 semester hours. Continuation of DRAM 2213 exploring African American Theatre from World War I to the present.

**DRAM 2303. Stage Makeup.** (2-2) Credit 3 semester hours. Fundamentals of stage makeup; equipment and basic application of straight, character, corrective, and 3-D makeup.

**DRAM 3103. Dramatic Interpretation.** (2-2) Credit 3 semester hours. Analysis and practice of techniques in the oral interpretation of dramatic literary forms for use of theatre in educational and community-based theatre.

**DRAM 3111. Theatre Practicum.** (0-3) Credit 1 semester hour. A workshop course in which the student at this level assumes leadership roles within the chosen areas of specialization. The course is designed to provide the student with practical application of performance and technical skills needed to enhance theatrical productions. Prerequisite: DRAM 2121.

**DRAM 3113. Contemporary Drama.** (3-0) Credit 3 semester hours. The study of the development of modern theatre from the 19th century concept of realism-naturalism through the present movements away from realism. Prerequisite: DRAM 1103.

**DRAM 3121. Theatre Practicum.** (0-3) Credit 1 semester hour. This course is a continuation of DRAM 3111, a workshop course in which the student continues to explore leadership roles within the chosen areas of specialization. The course is designed to provide the student with practical application of performance and technical skills needed to enhance theatrical productions. Prerequisite: DRAM 3111.

**DRAM 3123. Contemporary Theatre.** (3-0) Credit 3 semester hours. The study and analysis of contemporary plays and playwrights.

**DRAM 3233. Directing.** (3-0) Credit 3 semester hours. A basic course in stage direction, including play and character analysis, ground plans, movement, and business. Each student is required to do a detailed prompt book for a one-set play. Each student is required to direct a one-act play. Provides instruction for prospective teachers.

**DRAM 3333. Drama Workshop I.** (1-4) Credit 3 semester hours. A performance workshop format for students who have had at least three semesters of acting. The workshop will focus on the techniques and philosophies of the master teachers of acting,

e.g., Uta Hagen, Robert Benedetti, Sanford Meisner, Stella Adler, Lee Strasberg, and the father of “method acting” Constantin Stanislavski.

**DRAM 4111. Theatre Practicum.** (0-3) Credit 1 semester hour. This is a workshop course in which the student at this level assumes full responsibility for the daily operations of his/her chosen areas of specialization. The student explores the process of pursuing a career in the chosen areas of specialization. The course is designed to provide the student with practical application of performance and technical skills needed to enhance theatrical productions. Prerequisite: DRAM 3121.

**DRAM 4113. Acting Problems.** (2-2) Credit 3 semester hours. An examination of problems confronting the professional theatre artist. Course includes preparation of resumes, portfolios, audition techniques, etc. Prerequisite: DRAM 3333.

**DRAM 4313. Acting Styles.** (2-2) Credit 3 semester hours. A study of acting styles: Greek, Roman, medieval, Elizabethan, and French neoclassic. Exercises in voice, movement, and manner as related to these periods. Prerequisite: DRAM 3333.

**DRAM 4403. Drama Workshop II.** (0-6) Credit 3 semester hours. This course provides opportunity for students to enhance their knowledge and performance of styles of acting; speaking, and movement skills through performances of scenes in a workshop format. Prerequisite: DRAM 4313.

**DRAM 4441. Senior Theatre Performance.** (0-0) Credit 1 semester hour. Research, practice, performance and evaluation of projects in areas of acting and directing for the senior recital. Prerequisite: DRAM 4111.

**DRAM 4991. Independent Study.** (1-0) Credit 1 Semester hour. Readings, research, projects, and activities in theatre and dramatic arts. Prerequisite: Consent of Advisor. This course is repeatable for up to 6 credit hours.

**DRAM 4992. Independent Study.** (2-0) Credit 2 Semester hours. Readings, research, projects, and activities in theatre and dramatic arts. Prerequisite: Consent of Advisor. This course is repeatable for up to 6 credit hours.

**DRAM 4993. Independent Study.** (0-0) Credit 3 semester hours. Readings, research, and/or recital preparation and presentation, and/or field work on selected topics. Prerequisite: consent of advisor.

**ENGL 1123. Freshman Composition I.** (3-0) Credit 3 semester hours.\*\*Texas Community College Course Equivalents (TCCNS)

**ENGL 1123. Freshman Composition I.** (3-0) Credit 3 semester hours. A writing course focused on composing strong arguments through critical thinking and analysis of primary and secondary source material. The course emphasizes rhetorical awareness in writing

essays for a variety of audiences and purposes. Students will actively participate in peer workshops and demonstrate awareness of general research methods and ethics. Prerequisite: Unconditional admission to the university or satisfactory completion of ENGL 0131.

**ENGL 1133. Freshman Composition II.** (3-0) Credit 3 semester hours. A writing course that emphasizes rhetorical analysis and critical thinking, advanced research and documentation, and writing extended arguments for academic audiences. Students will actively participate in peer workshops and demonstrate an awareness of academic research methods and ethics. Prerequisite: A grade of C or higher in ENGL 1123 or transfer equivalent.

**ENGL 1143. Technical Writing.** (3-0) Credit 3 semester hours. Application of principles of composition and rhetoric to genres of scientific and technical writing including proposals, formal reports, presentations, business and scientific correspondence, manuals, technical articles and reports. Students will undertake a full-scale project through proposal and research with formal oral and written presentations of a documented technical project from the student's major field of study. Prerequisite: "C" or better in ENGL 1123 or equivalent.

**ENGL 2143. Advanced Composition.** (3-0) Credit 3 semester hours. Study and practice of advanced academic reading and writing through cultural studies, research projects, and critical, rhetorical, and literary analysis. Prerequisites: ENGL 1133 or Equivalent.

**ENGL 2153. Introduction to Literature.** (3-0) Credit 3 semester hours. Introductory study of the form, structure, and content of literary genres; interpretation and analytical thinking and intensive writing about literature. Prerequisites: ENGL 1123 and 1133 or Equivalent.

**ENGL 2263. English Literature to 1800.** (3-0) Credit 3 semester hours. Critical examination of poetry, prose, and drama from the Anglo-Saxon to the Neoclassical period, emphasizing their historical and cultural contexts. Prerequisites: ENGL 1133 or Equivalent.

**ENGL 2273. English Literature. 1800 to Present.** (3-0) Credit 3 semester hours. Critical examination of poetry, prose, and drama from the neoclassical period to the present, emphasizing their historical and cultural contexts. Prerequisites: ENGL 1133 or Equivalent.

**ENGL 2283. Introduction to African Literature.** (3-0) Credit 3 semester hours. Critical examination of the development of African literature, emphasizing historical and cultural contexts, and literary analysis. Prerequisite: ENGL 1133 or Equivalent.

**ENGL 2303. Introduction to Film.** (2-1) Credit 3 semester hours. Introducing students to the terminology, concepts, history, and criticism of film, this course enables students to critically examine film as a text within its social, cultural, and historical contexts. Prerequisite: ENGL 1123.

**ENGL 2313. Introduction to Creative Writing.** (3-0) Credit 3 semester hours. Introductory course in the three fundamental creative forms: poetry, prose fiction, and drama. Prerequisites: ENGL 1123 and Prerequisite: ENGL 1133.

**ENGL 2253. Adolescent Literature.** (3-0) Credit 3 semester hours. This course provides a theoretical base for analyzing the content and structure of popular and classical adolescent literature. It emphasizes content, imaginative structures, cultural issues, and the influence of various adolescent texts on other literary forms and on literary history. Prerequisites: ENGL 1123 and ENGL 1133 or Equivalent.

**ENGL 2333. Studies in Literature.** (3-0) Credit 3 semester hours. Study of prose or verse in an area unified by period, theme, language source, or nation of origin, consisting of multiple genres. This course introduces students to studies in such areas as genre, literary movements, gender, and ethnic literatures. Prerequisite: ENGL 1133 or Equivalent.

**ENGL 2293. Introduction to Latin American Literature.** (3-0) Credit 3 semester hours. Critical examination of the development of Latin American literature from its inception to the present, emphasizing historical and cultural contexts, and literary analysis. Prerequisite: ENGL 1133 or Equivalent.

**ENGL 2383. Survey of World Literature.** (3-0) Credit 3 semester hours. A survey of representative works and translations of major authors and texts, from the earliest literature to the present, and from various world cultures. Prerequisites: ENGL 1123 and ENGL 1133.

**ENGL 2423. American Literature to 1865.** (3-0) Credit 3 semester hours. Critical examination of the colonial period to 1865, including poetry, prose, and drama in their historical and cultural contexts. Prerequisite: ENGL 1133 or Equivalent.

**ENGL 2433. American Literature, 1865 to Present.** (3-0) Credit 3 semester hours. Critical examination of the period 1865 to the present, including poetry, prose, and drama in their historical and cultural contexts. Prerequisite: ENGL 1133 or equivalent.

**ENGL 3023. Creative Writing Processes.** (3-0) Credit 3 semester credit hours. This course focuses on the processes of using elements such as significant detail, lyrical language, memorable image; metaphor and simile; voice, dialogue, and characterization that make for vivid, effective writing across genres. We will emphasize fiction and poetry, but will also address genres such as the essay, drama, and screenwriting. Prerequisite: ENGL 1133 or Equivalent.

**ENGL 3043. Professional Writing for Electronic Media.** (3-0) Credit 3 semester hours. Application of principles of effective professional writing to the planning, production, and evaluation of electronic media, emphasizing writing that employs new forms of electronic communication such as electronic mail, web pages, and other dynamic interactive modes. Prerequisite: ENGL 1143 or Equivalent.

**ENGL 3053. Survey of African American Literature.** (3-0) Credit 3 semester hours. Critical examination of selected oral and written poetry, prose, and drama dealing with the African American experience from the colonial period to the present, emphasizing historical and cultural context and literary analysis. Prerequisites: ENGL 1133 or Equivalent.

**ENGL 3063. Studies in African American Literature.** (3-0) Credit 3 semester hours. Comprehensive critical examination of the works of a single writer, group of writers, literary genre, significant period or periods, emphasizing historical and cultural context and literary analysis. Prerequisites: ENGL 1133 or Equivalent.

**ENGL 3153. Literary Theory and Criticism.** (3-0) Credit 3 semester hours. A study of theoretical texts and the critical methods essential to textual analysis. The course will emphasize applications of literary theory and criticism in the interpretation of poetry, fiction, and drama. Prerequisites: ENGL 1123, ENGL 1133, and ENGL 2153 or Equivalent.

**ENGL 3213. History of the English Language.** (3-0) Credit 3 semester hours. Survey of phonological, grammatical, and lexical development of the English language from its proto-Germanic roots to its present form, emphasizing cultural, structural, literary, and socio-political aspects. Prerequisites: ENGL 1133 or Equivalent.

**ENGL 3223. Advanced Grammar.** (3-0) Credit 3 semester hours. Study of morphology, syntax, and semantics of the English language, conventional grammatical terminology, inflectional forms, grammatical classifications, and structural patterns. Prerequisites: ENGL 1123 and 1133.

**ENGL 3243. Studies in American Literature 1865 to Present.** (3-0) Credit 3 semester hours. Comprehensive critical examination of the United States from 1865 to the present, with emphasis upon the works of the American experience portrayed by the major a group of writers of the, literary genre, theme, significant period. Prerequisites or periods, emphasizing historical and cultural context and literary analysis. Prerequisite: ENGL 2153.1133 or Equivalent.

**ENGL 3273. The Romantic Movement.** (3-0) Credit 3 semester hours. Critical examination of prose, poetry, and dramatic works from the Romantic era, including their historical, cultural, and literary contexts. Prerequisites: ENGL 1133 or Equivalent.

**ENGL 3283. Victorian Literature.** (3-0) Credit 3 semester hours. Critical examination of prose, poetry, and dramatic works from the Victorian era, including their historical, cultural, and literary contexts. Prerequisites: ENGL 1133 or Equivalent.

**ENGL 3313. Creative Writing and Poetry.** (3-0) Credit 3 semester hours. Introductory course in a variety of verse forms and styles, from haiku to completion of sonnets to song lyrics to free verse. Prerequisites. ENGL 2313 or permission of instructor.



**ENGL 3323. Creative Writing: Prose.** (3-0) Credit 3 semester hours. Introductory course in prose fiction. Focusing on constructing plots, characters, dialogue, and narrative point of view. Prerequisites: ENGL 2313 or permission of instructor.

**ENGL 3333. Creative Writing: Drama.** (3-0) Credit 3 semester hours. Course in long and short dramatic forms, focusing on play-plotting, character development, and dialogue. Prerequisites: ENGL 2313 or permission of instructor.

**ENGL 4213. Eighteenth-Century Literature.** (3-0) Credit 3 semester hours. Period course in the poetry and prose of the neoclassical period and the pre-Romantics. Prerequisites: ENGL 1123, 1133, or equivalent and 2153 and junior standing.

**ENGL 4223. Shakespeare.** (3-0) Credit 3 semester hours. Critical examination of Shakespeare's representative comedies, histories, and tragedies, emphasizing a study of their historical, cultural, and literary contexts. Course may include his non-dramatic works. Prerequisite: ENGL 1133 or Equivalent and junior standing.

**ENGL 4233. Medieval Literature.** (3-0) Credit 3 semester hours. Critical Comprehensive examination of Anglo Saxon, the works of a single writer, group of writers, literary genre, and/or theme in Medieval English literature (700-1500 A.D.) through intensive reading of Old English heroic, elegiac,, emphasizing historical and cultural context and Middle English romance, allegory, lyric, and drama, including Chaucer literary analysis. Prerequisites: ENGL 2153, 1133 or equivalent and junior standing.

**ENGL 4243. Studies In the Novel.** (3-0) Credit 3 semester hours. Comprehensive critical examination of the works of single novelist, a group of novelists, significant period, or selected theme with an emphasis on the historical, cultural, and literary contexts of the time. Prerequisite: ENGL 1133 or equivalent and junior standing.

**ENGL 4313. Advanced Poetry Writing and Poetics.** (3-0) Credit 3 semester hours. Modernist and postmodern poetics, analysis of examples of poetry from contemporary schools and the writing of a long poem or series of short poems from these perspectives. Prerequisites: ENGL 3313 or permission of instructor.

**ENGL 4323. Advanced Fiction Writing and Theories of Narrative.** (3-0) Credit 3 semester hours. The reading of fiction and short stories, theories of fiction, focusing on students' own experimental writing of prose fiction. Prerequisites: ENGL 3323 or permission of instructor.

**ENGL 4333. Film/Script Writing.** (3-0) Credit 3 semester hours. Course focuses on analysis and writing methods in comedy and the detective film. Prerequisites: ENGL 3333 or permission of instructor.

**ENGL 4433. Special Topics in English.** (3-0) Credit 3 semester hours. Seminar offers a critical examination of a topic within the instructor's field of specialization. Emphasis on

scholarly analysis and research allows students to demonstrate the capacity to bring information, skills, and ideas acquired from the English major and various curricula to bear on a major project. May be repeated once for credit when the topic varies. Prerequisite: One 3000-level course or above and junior standing.

**ENGL 4993. Independent Study.** (0-0) Credit 1, 2, or 3 semester hours. Readings, research, and/or field work on selected topics. Prerequisite: consent of department head.

**FLLT 4993. Independent Study.** (0-0) Credit 1, 2, or 3 semester hours. Readings, research, and/or field work on selected topics. Prerequisite: consent of department head.

**GEOG 1113. Introduction to Geography.** (3-0) Credit 3 semester hours. A survey of the cultural and physical elements of geography, their characteristics, spatial organization, and distribution as viewed in the discipline today. \*\* (GEOG 1302)

**GEOG 1223. Introduction to Physical Geography.** (3-0) Credit 3 semester hours. General introduction to the field of geography, emphasizing the study of the physical earth and of man in his physical environment. \*\* (GEOG 1301)

**GEOG 1333. Economic Geography.** (3-0) Credit 3 semester hours. A commodity approach to the geography of economic activity: consideration of selected agricultural commodities and systems of land used in different physical and cultural settings and of the role of trade and transportation in interregional relationships. \*\* (GEOG 2312)

**GEOG 2113. Introduction to Geographic Information System.** (3-0) Credit 3 semester hours. An introduction to the fundamentals of Geographic Information System (GIS) and science and art of making maps. The course introduces students to the basic principles of using GIS as tool for managing and analyzing spatial data.

**GEOG 2523. Urban Geography.** (3-0) Credit 3 semester hours. Study of the form, function, classification, internal land use and structure, and intercity and city/hinterland relations of urban areas, with particular emphasis on United States

**GEOG 2633. Cultural Geography.** (3-0) Credit 3 semester hours. Economic, social, and political adjustments that man makes to various habitats and to natural environment factors.

**GEOG 2743. Geography of Africa.** (3-0) Credit 3 semester hours. Through an understanding of geographical facts, common myths associated with African history and development are dispelled. As a result, strong emphasis is placed on climates, physiography, natural resources, and social conditions in Africa. Selected countries are discussed in detail.

**GEOG 3713. Geography of Texas.** (3-0) Credit 3 semester hours. Emphasis on the geographic regions of our own state: the problems of proper adaptations of man to environment; the geographical distribution and development of natural resources in the state; and the possibilities of greater human development.

**GEOG 3723. World Regional Geography.** (3-0) Credit 3 semester hours. A survey of the regions and nations of the world and the geographical foundations of their physical and cultural characteristics; a practical and systematic approach to the field of geography; a survey of the world in terms of outlook and regional types.

**GEOG 3733. Political Geography.** (3-0) Credit 3 semester hours. This course examines the influence which the natural environment has on the evolution of cultures, the establishment of political boundaries and political systems and on the nature of international trade and politics.

**HIST 1313. U.S. to 1876.** (3-0) Credit 3 semester hours. American development from the period of discovery to the close of the Civil War; the colonial era; birth of a nation; the young republic; westward expansion; and sectionalism, Civil War, and Reconstruction. Lectures, special readings, discussions, supervised study, and tests. \*\* (HIST 1301)

**HIST 1323. The U.S.-1876 to Present.** (3-0) Credit 3 semester hours. Surveys modern American development: the industrial nation and its problems; expansionist and muckraker; the First Crusade, Normalcy and Reaction, Depression, and the New Deal; and the Second World War and after. Lectures, special readings, discussion, supervised study, and tests. (HIST 3313, 4313, 3323, or 4213 may be substituted for this course.) \*\* (HIST 1302)

**HIST 1333. History of Texas.** (3-0) Credit 3 semester hours. Survey of Texas starting from Spanish colonization to the present. Emphasis will be placed on contributions made to the state of Texas by various ethnic groups. \*\* (HIST 2301, 2303)

**HIST 1343. Introduction to Historical Methods.** (3-0) Credit 3 semester hours. This course is designed to introduce students majoring in History and American studies to methodological developments in the historical profession, with emphasis on twentieth century advances.

**HIST 1813. World Civilization to 1500.** (3-0) Credit 3 semester hours. Survey of the ancient world from the dawn of civilization in Egypt, Mesopotamia, China, India and Mesoamerica through the Middle Ages in Europe. Attention is given to political, social and economic institutions as well as art, literature and religion. \*\* (HIST 2321)

**HIST 1823. World Civilization since 1500.** (3-0) Credit 3 semester hours. Survey of key developments in Western and non-Western civilizations from the Renaissance to the present. Special emphasis is placed on religious conflict, militarism, intellectual and political revolutions, formation of modern nation-states, post-colonialism, and the end of the Cold War. \*\* (HIST 2322)

**HIST 2203. Military History.** (3-0) Credit 3 semester hours. Military History – Past Wars, conflicts and study of war heroes. This course will be cross listed with ARMY 2203.

**HIST 2313. The U.S.-1492 to 1837.** (3-0) Credit 3 semester hours. American development from the period of discovery to the close of Jackson's Presidency. This includes the colonial era, the American Revolution, and the Constitution, the growth of democracy in the young republic, and the conflict between sections that produced national crisis. Lectures, discussions, special maps, and written reports. Offered first semester yearly. Prerequisite: sophomore standing. Required of all majors and minors in history (in lieu of HIST 1313).

**HIST 2323. The U.S.-1837 to 1898.** (3-0) Credit 3 semester hours. Surveys period of bourgeois revolution and the rise of group democracy in America by examining the rise of common man, slavery-abolition-sectional imperialism, popular sovereignty-the last formula, the irrepressible conflict and the new nation, and the problems of industrialism. Also covers postwar industry, labor, and agricultural. Lectures, discussions, special maps and written reports. Prerequisite: HIST 2313. Required of all majors and minors in history (in lieu of 1323).

**HIST 2413. Pre-colonial African History.** (3-0) Credit 3 semester hours. Study of African history before the arrival of the Europeans which examines the growth and evolution of political, social, and economic institutions of various African countries. Special attention will be given to the western portion of Africa (Ghana, Mali, and Songhay) and areas south of the Sahara.

**HIST 2423. Post-Colonial African History.** (3-0) Credit 3 semester hours. Survey of African History since the end of WWII; events and issues leading up to independence; efforts at nation-building; problems of political instability and economic development.

**HIST 2433. Colonial Latin American and Caribbean History.** (3-0) Credit 3 semester hours. This course provides students with an understanding of the historical experience of the region from first contact with Europeans through the wars of independence.

**HIST 2613. African History.** (3-0) Credit 3 semester hours. This course is a systematic study of African History. It looks at the forces impacting the growth and evolution of the political, social, and economic institutions of various countries of Africa, with a concentration on the western portion of Africa (Ghana, Melle, and Songhay region), south of the Sahara.

**HIST 3223. Women in History.** (3-0) Credit 3 semester hours. A survey of selected issues related to the historical status of women in Africa, Asia, Europe, and the Americas, with emphasis on African-American women in the United States since slavery.

**HIST 3233. Studies in American History.** (3-0) Credit 3 semester hours. This course will present a detailed examination of American history. Students will have to deal with the myriad issues which flow from questions of nationality, ethnicity, race, class, and gender in the midst of an industrializing nation with innumerable burgeoning political, economic, social, and cultural institutions.

**HIST 3323. Contemporary United States.** (3-0) Credit 3 semester hours. Analysis of the emergence of the United States as a modern nation and examination of the changing United States' social, political, economic, cultural and diplomatic scene with emphasis on the progressive trends, 1900 – Present.

**HIST 3913. American Historiography.** (3-0) Credit 3 semester hours. Survey of the writing of American history, with emphasis on social-intellectual motivation and historical theory. Representative historical literature of the following periods will be examined: colonial and revolutionary; the “Middle Period,” literary and romantic; and modern and contemporary. Lectures, discussions, independent study, and special reports. Prerequisite: junior standing.

**HIST 4213. African American History to 1865.** (3-0) Credit 3 semester hours. Analysis of the experiences of African Americans from colonial time to the end of the Civil War. Prerequisite: junior standing.

**HIST 4223. African American History 1865-Present.** (3-0) Credit 3 semester hours. Traces the social, economic, cultural, and political activities of African Americans from Reconstruction through the Civil Rights movement. Prerequisite: junior standing.

**HIST 4313. Foreign Relations.** (3-0) Credit 3 semester hours. Diplomatic history of the United States covering: the colonial background and the emergence of the cardinal principles of American foreign policy and its mechanics through the revolutionary and early national periods, the New Nationalism, Manifest Destiny and Westward Expansion, Civil War diplomacy, and projections abroad. Lectures, book reports, forums, and research projects. Prerequisite: upper-class status.

**HIST 4323. Diplomatic History of the U.S.** (3-0) Credit 3 semester hours. A topical survey of United States diplomacy covering: the New Manifest Destiny, and the extension of the nation's commitments, the Great Crusade and after, the United States, the Second World War, and post-war diplomacy. Lectures, book reports, forums, and research projects.

**HIST 4443. Special Topics in History.** (3-0) Credit 3 semester hours. This course will focus on specific historical topics that the professor deems appropriate and student's desire. May be repeated for credit when topics vary.

**HIST 4903. Senior Seminar.** (3-0) Credit 3 semester hours. Advanced training in historical methods and historiography designed to measure student's understanding and mastery of the discipline. Prerequisite: junior standing.

**HIST 4992-4993. Independent Study.** (0-0) Credit 2 or 3 semester hours. Readings, research, and/or field work on selected topics. Prerequisite: consent of advisor.

**MATH 1103. Contemporary College Algebra.** (3-0) Credit 3 semester hours. This course is an alternative to MATH 1113; College Algebra. It is designed to assist students (not intending to enroll in the regular Calculus Sequence). The course will

develop a student for the future by empowering them) to communicate mathematically in a proficient manner. Topics include: Data Collection; Variable Representation; Functions (such as Linear, Quadratic and other fundamental functions) and their applications (basic topics of Probability, Sample Spaces, Expectations); Systems of linear equations; Linear Programming; Applications; Modeling across the disciplines; Concepts of Simple and Compound Interests and their applications. Prerequisite: THEA Math with a score of 230. Must have a “C” or higher in Pre-Algebra, if applicable. (the last mathematics developmental course) if applicable.

**MATH 1113. College Algebra.** (3-0) Credit 3 semester hours. Functions and their graphs, linear and quadratic equations, systems of equations, logarithms, exponential and logarithmic equations, binomial theorem, progressions. \*\* (MATH 1314) Prerequisite: THEA Math 230 and THEA Exwa 301. Must have a “C” or higher in Pre-Algebra, if applicable.

**MATH 1115. College Algebra and Trigonometry.** (5-0) Credit 5 semester hours. A basic course in mathematics for students needing additional pre-calculus skills, including algebra and trigonometry. Topics included are linear, quadratic, and higher degree polynomial functions and identities. Combinational formulas, probability, determinants and systems of linear equations, inverse trigonometric functions, and trigonometric equations. Prerequisite: THEA Math 230 and THEA Exwa 301.

**MATH 1123. Trigonometry.** (3-0) Credit 3 semester hours. Trigonometric functions, radian, inverse trigonometric functions, functions of composite angles, and identities; and trigonometric equations. Prerequisite: MATH 1113 or equivalent with grade of “C” or higher \*\* (MATH 1316).

**MATH 1124. Calculus with Analytic Geometry I.** (4-0) Credit 4 semester hours. Functions and graphs, limits and continuity, derivatives of functions, Mean Value Theorem, applications of derivatives. Fundamental Theorem of Calculus and applications of integrals. Prerequisite: Grade of C or higher in both MATH 1113 and MATH 1123 or MATH 1115 or equivalently ready (passing the Calculus preparedness test administered by the Mathematics Departments) \*\* (MATH 2413).

**MATH 1124(H). Honors Calculus with Analytic Geometry I.** (4-0) Credit 4 semester hours. Functions and their graphs; analytical limits and continuities; Derivatives of functions of variable; The chain rule; Implicit differentiations; Linear approximations; Applications; Extrema and concavities; Curve sketching; Antiderivatives; Indefinite and definite integrals; Integrations by substitutions. Prerequisite: Grade of B or higher in both MATH 1113 and MATH 1123 or in MATH 1115; equivalently ready (passing the Honors Calculus Preparedness Test administered by the Mathematics Department) and Approval of the Mathematics Department Head.

**MATH 1153. Finite Mathematics.** (3-0) Credit 3 semester hours. Linear equations and applications, linear forms and system of equations, matrix algebra and applications, linear programming (linear and simplex method), permutations and combinations, probability and applications, and basic statistics. Course is designed for Business, Life and Social

Science majors. Prerequisites: Math 1103 or MATH 1113 \*(with grade of “C” or higher. \*(MATH 1342)).

**MATH 2003. Elementary Statistics.** (3-0) Credit 3 semester hours. Collection and tabulation of data; bar charts, graphs, sampling averages, dispersion, correlation; index numbers; normal curves; basic probability; and application to various fields. Prerequisites: Math 1103 or MATH 1113 (with a grade of “C” or higher. \*(MATH 1342)).

**MATH 2024. Calculus with Analytic Geometry II.** (4-0) Credit 4 semester hours Applications of integrals, inverse functions, integration techniques, indeterminate forms, improper integrals, parametric equations, polar coordinates, infinite series, power series, Taylor series. Prerequisite: MATH 1124. (with a grade of “C” or higher. \*(MATH 2414)).

**MATH 2043. Differential Equations I.** (3-0) Credit 3 semester hours. Ordinary differential equations with emphasis on first-order linear and higher order ordinary differential equations with constant coefficients and some non constant coefficients applications. Prerequisite: MATH 2024. (with a grade of “C” or higher. \*(MATH 2320)).

**MATH 2053. Discrete Mathematics.** (3-0) Credit 3 semester hours. Designed to provide a bridge between computational mathematics and theoretical mathematics. Topics include induction and recursion, combinatorics, graph theory, proofs and logic. Prerequisite: MATH 1124 or MATH 2153 with grade of “C” or higher.

**MATH 2153. Calculus-Business, Life and Social Sciences.** (3-0) Credit 3 semester hours. Derivatives, curving, sketching, and optimization techniques of differentiation. Marginal functions (Cost, Revenue and Profits); Elasticity of demand; Logarithm and exponential functions with applications, integral techniques application of integrals, multivariate and Multivariate calculus. Prerequisite: MATH 1153 with a grade of “C” or higher.

**MATH 2163. Structure of Number System.** (3-0) Credit 3 semester hours. A logical approach to elementary mathematics, with emphasis on the powers and techniques of the axiomatic approach in mathematics. Topics include sets, logic, number systems, equivalence relations and mathematical proofs in developing the characteristics of number systems. Prerequisite: MATH 1113 or MATH 1103 with grade of “C” or higher.

**MATH 2183. Informal Geometry.** (3-0) Credit 3 semester hours. A brief development of finite geometric systems from an advanced standpoint, with attention given to intuition and didactics. Topics include deductive reasoning, metric and non-metric geometry, transformational geometry, topological notions, graphs, and networks. Prerequisite: MATH 1113 or MATH 1103 with grade of “C” or higher.

**MATH 3003. Mathematics in Elementary Schools.** (3-0) Credits 3 semester hours. A conceptual approach to introducing mathematics concepts and the integrating of content, pedagogy and assessment which include treatments of the nature of selective pre-algebra and discrete topics and the use of EC-4/4-8 TEKS Standards V-VI. Prerequisites: MATH 2163 with grade of “C” or higher.

**MATH 3013. Modern Algebra.** (3-0) Credit 3 semester hours. Number theory, groups, rings, integral domains, and fields. Prerequisite: MATH 2053 with grade of “C” or higher.

**MATH 3014. Calculus with Analytic Geometry III.** (4-0) Credit 4 semester hours. Calculus of functions of several variables, calculus of vector valued functions, partial differentiation, multiple integrals. Prerequisite: MATH 2024 \*\* with grade of “C” or higher.

**MATH 3023. Probability and Statistics.** (3-0) Credit 3 semester hours. Counting problems, probability theory, infinite sample spaces, random numbers and their usage, random variables, basic movements, variances, binomial geometric, uniform, exponential, and normal distributions, point estimation, confidence limits, hypothesis testing, applications of Bayes’ Theorem, sums of independent random variables, law of large numbers, and Central Limit Theorem. Prerequisites: MATH 1124 with grade of “C” or higher.

**MATH 3033. Principles of Statistics I.** (3-0) Credit 3 semester hours. An introduction to probability distributions, inference and hypotheses testing, linear regression, analysis of variance, inference in linear models, and factorial experiments. Prerequisite: MATH 3023 with grade of “C” or higher or Approval of the Mathematics Department Head.

**MATH 3043. Principles of Statistics II.** (3-0) Credit 3 semester hours. Design of experiments, model building, multiple regression, nonparametric techniques, and contingency tables, introduction to decision theory, time series data and statistical quality control. Prerequisite: MATH 3033 or MATH 3023 with grade of “C” or higher or Approval of the Mathematics Department.

**MATH 3073. Linear Algebra.** (3-0) Credit 3 semester hours Systems of linear equations, matrices, real vector spaces, linear transformations, change of bases, determinants, eigenvalues and eigenvectors, diagonalization and inner product spaces. Prerequisite: MATH 2024 with grade of “C” or higher or Approval of the Mathematics Department Head.

**MATH 3103. History of Mathematics.** (3-0) Credit 3 semester hours. The development of mathematical thought from ancient time to the present. Contributions by the great Greek, Roman, and Asian mathematicians, as well as by others. Prerequisite: MATH 1124 or MATH 2153 with grade of “C” or higher Approval of the Mathematics Department Head.

**MATH 3106. Introduction to Cooperative Education.** (2-8) Credit 6 semester hours. Introduces the student to professional experiences and applications of mathematics in the



work place. Attention is given to the role of personality attributes in success on the job and to the role of the applied mathematician in the industrial and professional settings. Prerequisite: Approval of the Mathematics Department Head.

**MATH 3163. Mathematics Investigations and Connections.** (3-0) Credit 3 semester hours. A mathematics in context based course, which includes mathematics investigations, modeling, problem solving and applications, and concepts for levels defined in EC-4-8. TEKS Standards II and V. Prerequisites: MATH 2163 with grade of “C” or higher or Approval of the Mathematics Department Head.

**MATH 3613. Introduction to Biostatistics.** (3-0) Credit 3 semester hours. Review of descriptive statistics, data presentation, counting techniques, probability theory concepts, application of Bayes’ theorem, binomial distribution, Poisson distribution, multinomial distribution, normal distribution, exponential distribution, lognormal distribution, the central limit theorem, covariance, correlation, point and interval estimation, hypothesis testing, p-values, simple linear regression, analysis of categorical data, applications in biology and biomedicine. Prerequisite: MATH 3023 or Approval of the Mathematics Department Head.

**MATH 3685. Math for Engineers.** (5.0) Credit 5 Semester credit hours. Matrices and determinants, Vector Spaces, Eigenvalues and Eigenvectors, Power Series, Laplace Transform, Fourier Series and Orthogonal Functions; Multivariate Functions: Sample Space, Random Variables, Probability Distributions, Moments of a Random Variable, Sum of Independent Variables, Conditional Probability, Law of Large Numbers, Central limit Theorem, Inference Concerning Means, Variances and proportions, Analysis of Variance, Statistical Content of Quality Improvement Programs, Reliability, Probabilistic Description of Stochastic Processes, Poisson Process, Simple Queuing Models in Engineering. Prerequisite: MATH 2043 with grade of “C” or higher.

**MATH 3933. Geometry.** (3-0) Credit 3 semester hours. An in-depth study of the Euclidean geometry of the plane from an advanced standpoint. A brief development of different types of geometries by the use of transformations. Prerequisite: MATH 1124 or MATH 2153 with grade of “C” or higher or Approval of the Mathematics Department Head.

**MATH 4001. Mathematics Colloquium.** (1-0) Credit 1 semester hour. Detailed reports on selected topics in both theoretical and applied mathematics. Mathematics majors are required to conduct research individually and make a presentation on at least one topic of a moderate degree of difficulty as a demonstration of their resourcefulness, ability, and achievement in the field of mathematics. Prerequisite: Approval of the Mathematics Department. May be repeated for credit at most three times.

**MATH 4003. Mathematics Modeling and Applications.** (3-0) Credit 3 semester hours. An advanced treatment of selective EC-12 level mathematics concepts, which includes an integration of content, problem solving strategies, and real world applications and use of technology. Prerequisite: Consent of instructor, advanced standing and successful

completion of MATH 1123 with grade of “C” or higher and Approval of the Mathematics Department Head.

**MATH 4043. Mathematical Statistics.** (3-0) Credit 3 semester hours. Statistically Distribution Theory; expectations; limiting distribution; point estimation; confidence intervals and sufficient statistics. Prerequisites: MATH 3023 with grade of “C” or higher or Approval of the Mathematics Department Head.

**MATH 4053. Foundations.** (3-0) Credit 3 semester hours. A course which gives an advanced treatment of selective units from algebra, geometry, trigonometry, calculus and discrete mathematics, to include standards defined in EC-12 state mathematics standards I-IV. Prerequisites: Approval of the Mathematics Department and 12 semester credit hours of mathematics at the level of College Algebra and above, including MATH 1124 or MATH 2153 with grade of “C” or higher.

**MATH 4063. Numerical Analysis.** (3-0) Credit 3 semester hours. Linear and nonlinear systems, matrix inversions and eigenvalues, polynomial approximations, quadrature interpolation, least square, finite differences, including analyses of algorithms and solutions utilizing numerical methods. Prerequisites: COMP 1143 and MATH 3073 with grade of “C” or higher.

**MATH 4073. Introduction to Linear Models.** (3-0) Credit 3 semester hours. An introduction to the formulation of linear models and the estimation of the parameters of such models, with primary emphasis on least squares. Application to multiple regression and curve fitting. Prerequisites: MATH 3023 and MATH 3073 with grade of “C” or higher or Approval of the Mathematics Department Head.

**MATH 4083. Advanced Calculus I.** (3-0) Credit 3 semester hours. Number sequences, limits, sequential functions, properties of continuous functions, and mean value theorem and Riemann Integral. Prerequisites: Grade of C or higher in both MATH 2043 and MATH 3014.

**MATH 4093. Advanced Calculus II.** (3-0) Credit 3 semester hours. Properties of the Reimann-Stieltjes integral; and the theorems of Stokes and Green. Prerequisite: MATH 4083 with grade of “C” or higher.

**MATH 4113. Differential Equations II.** (3-0) Credit semester hours. Systems of ordinary differential equations. Existence, uniqueness and stability of solutions initial value problems, elementary bifurcation theory, Jordan normal form, higher order equations and Laplace transforms. Prerequisites: MATH 2043 and MATH 3073 with grade of “C” or higher.

**MATH 4123. Introduction to Topology.** (3-0) Credit 3 semester hours. An introduction to topology, including sets, functions, metric spaces, topological spaces, compactness, connectedness, convergences, and continuity. Prerequisites: MATH 3013 with grade of “C” or higher.

**MATH 4133. Fourier Series and Wavelets.** (3-0) Credit 3 semester hours. Fourier series, Fast Fourier Transform; continuous and discrete filters, orthogonality and orthogonal subspaces; Haar wavelets; multi-resolution analysis; Daubechies wavelets; non-orthogonal wavelets; applications such as data compression and image processing. Prerequisites: MATH 2024 or MATH 3685 and MATH 3073 with grade of “C” or higher.

**MATH 4173. Advanced Math for Engineers.** (3-0) Credit 3 semester hours. Matrices and determinants, vector spaces, systems of linear equations, eigenvalues and eigenvectors; power series, Laplace transforms, Fourier series and orthogonal functions, numerical solutions to ordinary differential equations. Prerequisite: MATH 2043 with grade of “C” or higher.

**MATH 4203. Introduction to Operations Research.** (3-0) Credit 3 semester hours. Operations Research with emphasis on the fundamental methods including linear programming, dynamic programming, deterministic models for inventory and production control, and applications to queuing theory. Prerequisites: Approval of the Mathematics Department.

**MATH 4213. Introduction to Analysis.** (3-0) Credit 3 semester hours. Metric spaces, compactness, completeness, connectedness, sequences and series of functions, theorems of Baire, Weierstrass, and Arzela-Ascoli, and Lebesgue integration. Prerequisite: MATH 4083 with grade of “C” or higher.

**MATH 4223. Introduction to Complex Analysis.** (3-0) Credit 3 semester hours. The algebra of complex numbers and their geometric representation; analytic functions; and Cauchy-Riemann equations, elementary functions, complex integration, power series, calculus of residues, conformal mapping, and application. Prerequisite: MATH 3014 with grade of “C” or higher.

**MATH 4233, Special Topics.** (3.0) Credit 3 semester hours. This course is designed to ascertain that faculty with different expertise have the opportunity to relay those to the mathematics majors. Topics are to be chosen from those other than what are in the existing courses in the catalog, such as number theory, stochastic processes, partial differential equations and methods of teaching mathematics to teachers of mathematics. Prerequisite: Consent of Instructor and Approval of the Department Head. This course may be repeated for six semester credit hours.

**MATH 4603. Introduction to Bayesian Statistics.** (3-0) Credit 3 semester hours. Logic, probability and uncertainty, Bayesian inference for discrete random variables, Bayesian inference for continuous random variables, comparison of Bayesian and classical inferences for proportion and mean, Bayesian inference for the difference between two means, Bayesian methods for simple linear regression and robust Bayesian methods. Prerequisite: MATH 3023.

**MATH 4893. Mathematics Capstone Course.** (3.0) Credit 3 semester hours. This course is designed to ascertain that the mathematics major is proficient in the majority of the major requirements such as the Calculus sequence, Differential Equations, Linear Algebra, Abstract/Modern Algebra, Advanced Calculus, Probability, Statistics, and Numerical Analysis. Students will participate in class discussions, write summaries of readings, do group solving, give oral presentations, submit mini projects and complete a major project. The course will provide an integrated experience of the students' program and its intensity will enhance the students' chances of success in the required Major Field Test. Prerequisite: Mathematics major senior standing (with at least 30sch of successful mathematics from the degree plan) and Approval of the Mathematics Department Head.

**MATH 4991. Independent Study.** (0-0) Credit 1 semester hours. Reading, research, and/or field work on selected topics. Prerequisite: Agreement of an instructor and Approval of the Mathematics Department and other chains of command.

**MATH 4993. Independent Study.** (0-0) Credit 3 semester hours. Reading, research, and/or field work on selected topics. Prerequisite: Agreement of an instructor and Approval of the Mathematics Department and other chains of command.

**MATH 4994. Independent Study.** (0-0) Credit 4 semester hours. Reading, research and/or field work on selected topics. Prerequisite: Agreement of an instructor and Approval of the Mathematics Department and other chains of command.

**MATH 4995. Independent Study.** (0-0) Credit 5 semester hours. Reading, research and/or field work on selected topics. Prerequisite: Agreement of an instructor and Approval of the Mathematics Department and other chains of command.

**MUSC 1111. University Band.** (0-5) Credit 1 semester hour. An ensemble devoted to the performance of band music. \*\* (MUSI 2123)

**MUSC 1121. University Choir.** (0-5) Credit 1 semester hour. An ensemble devoted to the performance of choral music. \*\* (MUSI 1142)

**MUSC 1131. Chamber Vocal Ensemble.** (4-0) Credit 1 semester hours. The study of Music for vocal ensembles.

**MUSC 1141. Jazz Band.** (0-3) Credit 1 semester hour. An ensemble devoted to the study and performance of literature written for jazz band.

**MUSC 1151. Brass Ensemble.** (0-3) Credit 1 semester hour. The study and performance of literature written for brass instruments.

**MUSC 1171. Percussion Ensemble.** (0-3) Credit 1 semester hour. The study and performance of literature written for percussion instruments.

**MUSC 1181. Chamber Music.** (1-0) Credit 1 semester hour. The study, rehearsal, and performance of instrumental literature for small ensemble.

**MUSC 1211-1221. Sight Singing and Ear Training I-II.** (1-1) Credit 1 semester hour each. The development of music reading and aural comprehension. Melodic and harmonic diction. \*\* (MUSI 1216, 1217)

**MUSC 1213-1223. Fundamentals of Music.** (3-0) Credit 3 semester hours. An introduction to the basic materials of music. \*\* (MUSC 1306)

**MUSC 1233. Music Theory.** (3-0) Credit 3 semester hours. The study of diatonic harmony in tonal music. Keyboard application and aural comprehension of materials are emphasized. Prerequisite: satisfactory score on the music theory placement test or the equivalent. \*\* (MUSI 1311)

**MUSC 1243. Music Theory.** (3-0) Credit 3 semester hours. Continued study of diatonic harmony in tonal music. Keyboard application and aural comprehension of materials are emphasized. Prerequisite: MUSC 1233. \*\* (MUSI 1312)

**MUSC 1253-1263. Basic Musicianship I-II.** (3-0) Credit 3 semester hours. The study of the basic materials of music through rhythm, melody, and harmony. For music majors and minor only. A requirement for entering music majors who do not pass the piano proficiency examination.

**MUSC 1313. Music in Contemporary Life.** (3-0) Credit 3 semester hours. The study of music of various cultures, with emphasis on such elements as melody, rhythm, form, and timbre. Musical examples from classical, folk, pop, jazz, and religious sources. \*\* (MUSI 1301)

**MUSC 1413. Music Technology.** (3-0) Credit 3 semester hours. The study of technology as it applies to the field of music. Topics include music notation, Musical Instrument Digital Interface (MIDI), sequencing, and technology-assisted instruction. Music Majors only.

**MUSC 1512-1522. Piano Concentration.** (2-0) Credit 2 semester hours. Hanon, The Virtuoso Pianist, Part II; Czerny, The School of Velocity, first half; Bach, Two-part Inventions; Chopin, Preludes; all major and minor scales in four octaves using double and triple rhythms in various accents. Seminar performances.

**MUSC 1513. Piano.** (3-0) Credit 3 semester hours. The study of selected solo literature by Bach, Beethoven, Mendelssohn, Chopin, Schumann, Kabalevsky and Respighi. Technical etudes by Hanon, Czerny and Dischna. Seminar performances.

**MUSC 1522. Piano.** (2-0) Credit 2 semester hours. Private lessons. The study of selected solo literature, together with technical etudes for the piano.

**MUSC 1523. Piano.** (3-0) Credit 3 semester hours. Private lessons. The study of selected solo literature, together with technical etudes for the piano.

**MUSC 1531. Piano.** (1-0) Credit 1 semester hour. Major and minor scales through four flats and four sharps in one octave; simple chord progressions (I IV V I) in keys through four sharps and four flats, completion of two books (e.g., Fletcher, Thompson, Aaron and first section of Basic Piano for the College Student by Zimmerman and others; and technical studies of Clark, Burnam, etc.).

**MUSC 1533-1543. Class Piano.** (3-0) Credit 3 semester hours. Beginning piano studies through group instruction.

**MUSC 1541. Piano.** (1-0) Credit 1 semester hour. Private lessons. The study of selected solo literature, together with technical etudes for the piano.

**MUSC 1551-1561. Functional Piano for Majors I-II.** (1-1) Credit 1 semester hour. An introduction to functional keyboard skills for music majors. Not for piano majors. For music majors and minors.

**MUSC 1611. French Diction.** (1-0) Credit 1 semester hour. Phonetic sounds for singing in French. Not a course in French grammar.

**MUSC 1612-1622. Voice Class.** (1-2) Credit 2 semester hours each. Voice instruction in a group setting. Instruction includes tone production, breath support, and correct diction for singers. Non-majors only. \*\* (MUSI 1183, 1184)

**MUSC 1613. Voice.** (3-0) Credit 3 semester hours. The study of selected solo literature and materials for the voice. Performance majors only. Seminar performances.

**MUSC 1621. German Diction.** (1-0) Credit 1 semester hour. Phonetic sounds for singing in German. Not a course in German grammar. \*\* (MUSI 2160)

**MUSC 1623. Voice.** (3-0) Credit 3 semester hours. The study of selected solo literature and materials for the voice. Performance majors only. Seminar performances.

**MUSC 1631. Italian Diction.** (1-0) Credit 1 semester hour. Phonetic sounds for singing in Italian. Not a course in Italian grammar. \*\* (MUSI 1160)

**MUSC 1632-1642. Voice.** (2-0) Credit 2 semester hours. The study of selected solo literature and materials for the voice. Seminar performances.

**MUSC 1641. English Diction.** (1-0) Credit 1 semester hour. Phonetic sounds for singing in English. Not a course in English grammar.

**MUSC 1712-1722. Brass.** (2-0) Credit 2 semester hours. The study of selected solo literature and technical etudes. Seminar performances.

**MUSC 1713-1723. Brass.** (3-0) Credit 3 semester hours. The study of selected solo literature and technical etudes. Seminar performances.

**MUSC 1771-1781. Wind Ensemble.** (0-6) Credit 1 semester hour. Audition-only instrumental ensemble with the highest standards performing the diverse literature of the past two centuries as well as new and exciting contemporary works.

**MUSC 1812-1822. Woodwinds.** (2-0) Credit 2 semester hours. The study of selected solo literature, scales and technical etudes. Required seminar performances.

**MUSC 1813-1823. Woodwinds.** (3-0) Credit 3 semester hours. The study of selected solo literature, scales and technical etudes. Required seminar performances.

**MUSC 1912-1922. Percussion.** (2-0) Credit 2 semester hours. The study of appropriate literature and technical etudes for percussion instruments. Seminar performances.

**MUSC 1913-1923. Percussion.** (3-0) Credit 3 semester hours. The study of appropriate literature and technical etudes for percussion instruments. Seminar performances.

**MUSC 2111. University Band.** (0-5) Credit 1 semester hour. An ensemble devoted to the performance of band music.

**MUSC 2121. University Choir.** (0-5) Credit 1 semester hour. An ensemble devoted to the performance of choral music.

**MUSC 2181. Chamber Music.** (1-0) Credit 1 semester hour. The study, rehearsal, and performance of instrumental literature for small ensemble.

**MUSC 2211-2221. Sight Singing and Ear Training III-IV.** (1-1) Credit 1 semester hour each. The development of reading and aural comprehension of music. Melodic and harmonic dictation.

\*\* (MUSI 2116, 2118)

**MUSC 2213-2223. Music Theory.** (3-0) Credit 3 semester hours each. The study of chromatic harmony in tonal music. Keyboard application, analysis, and aural comprehension of materials are emphasized. Prerequisite: MUSC 1243. \*\* (MUSI 2311, 2312)

**MUSC 2323. Music Literature.** (3-0) Credit 3 semester hours. A course to develop the listening skills of the music major in preparation for advanced study in Music History and Analysis of Music.

\*\* (MUSI 1309)

**MUSC 2333. Afro-American Music.** (3-0) Credit 3 Semester hours. A survey of historical developments in Afro-American music.

**MUSC 2411. Strings.** (1-1) Credit 1 semester hour. The study of stringed instruments through playing experiences in a group.

**MUSC 2421. Brass Instruments.** (1-1) Credit 1 semester hour. The study of brass instruments through playing experiences in a group.

**MUSC 2431. Woodwind Instruments.** (1-1) Credit 1 semester hour. The study of woodwind instruments through playing experiences in a group.

**MUSC 2441. Percussion Instruments.** (1-1) Credit 1 semester hour. The study of percussion instruments through playing experiences in a group.

**MUSC 2511-2521. Piano.** (1-0) Credit 1 semester hour. Major and minor scales in two octaves for same scales; chord progressions (e.g., I VI IV II 16 V7 I); melodic studies of Burgmuller, Op. 100; easy pieces by Schumann, Beethoven, etc.; completion of Basic Piano for the College Student by Zimmerman; harmonization of simple melodies; chorale and open score reading. Prerequisite: MUSC 1541.

**MUSC 2512-2522. Piano Concentration.** (2-0) Credit 2 semester hours. Hanon, The Virtuoso Pianist completed; Czerny, The School of Velocity completed; Bach, Three-part Invention; early keyboard music; Chopin, Waltzes; Haydn, Sonatas. Seminar performances. Prerequisite: MUSC 1522.

**MUSC 2513-2523. Piano.** (3-0) Credit 3 semester hours. Bach, Well-Tempered Clavier; French and English Suites; Scarlatti; Beethoven, Ecossaises; Sonatas, Op. 2; Rondo, Op. 51; Schuman, Op. 2, 82, 89; Mendelssohn. Variations in E Flat; Chopin, nocturnes and polonaises; Schubert, impromptus. Moments Musicaux; modern; Debussy, Bartok, Gershwin, Dello Joio, Kabalevsky, Shostakovich; technique; major and minor scales in modulatory sequence, dominant seventh, and diminished seventh arpeggios; emphasis on memorization and requirements for the upper division examination. Seminar performances. Prerequisite: MUSC 1523.

**MUSC 2533-2543. Class Piano.** (3-0) Credit 3 semester hours. Intermediate piano studies through group instruction.

**MUSC 2551-2561. Functional Piano for Majors III-IV.** (1-1) Credit 1 semester hour. A continuation of functional keyboard skills for music majors. Not for piano majors. Prerequisite: MUSC 1551-1561

**MUSC 2613-2623. Voice.** (3-0) Credit 3 semester hours. Continuation of technical studies (Vaccai Vocal Method). Literature to include German lieder, British, American, Russian, Scandinavian or Spanish songs, opera and oratorio arias. Seminar performances. Prerequisite: MUSC 1623.

**MUSC 2632-2642. Voice.** (2-0) Credit 2 semester hours. The study of selected solo literature and materials for the voice. Seminar performances. Prerequisite: MUSC 1642.

**MUSC 2712-2722. Brass.** (2-0) Credit 2 semester hours. The study of selected solo literature and technical etudes. Seminar performances. Prerequisite: MUSC 1722.



**MUSC 2713-2723. Brass.** (3-0) Credit 3 semester hours. The study of selected solo literature and technical etudes. Seminar performances. Prerequisite: MUSC 1723.

**MUSC 2771-2781. Wind Ensemble.** (0-6) Credit 1 semester hour. Audition-only instrumental ensemble with the highest standards performing the diverse literature of the past two centuries as well as new and exciting contemporary works.

**MUSC 2812-2822. Woodwinds.** (2-0) Credit 2 semester hours. The study of selected solo literature, scales and technical etudes. Required seminar performances. Prerequisite: MUSC 1822.

**MUSC 2813. Woodwinds.** (3-0) Credit 3 semester hours. The study of selected solo literature, scales and technical etudes. Required seminar performances. Prerequisite: MUSC 1823.

**MUSC 2912-2922. Percussion.** (2-0) Credit 2 semester hours. The study of appropriate literature and technical etudes for percussion instruments. Seminar performances. Prerequisite: MUSC 1922.

**MUSC 2913. Percussion.** (3-0) Credit 3 semester hours. The study of appropriate literature and technical etudes for percussion instruments. Seminar performances. Prerequisite: MUSC 1922.

**MUSC 2913. Percussion.** (3-0) Credit 3 semester hours. The study of appropriate literature and technical etudes for percussion instruments. Seminar performances. Prerequisite: MUSC 1923.

**MUSC 3111. University Band.** (0-5) Credit 1 semester hour. An ensemble devoted to the performance of band music.

**MUSC 3121. University Choir.** (0-5) Credit 1 semester hour. An ensemble devoted to the performance of choral music.

**MUSC 3181. Chamber Music.** (1-0) Credit 1 semester hour. The study, rehearsal, and performance of instrumental literature for small ensemble.

**MUSC 3212. Analysis of Music.** (2-0) Credit 2 semester hours. An introduction to the techniques of musical analysis as applied to different forms of music. Prerequisite: MUSC 2223.

**MUSC 3222. Analysis of Music.** (2-0) Credit 2 semester hours. The study of techniques of musical analysis as applied to different forms of music.

**MUSC 3232-3242. Counterpoint.** (2-0) Credit 2 semester hours each. The study of the technique of counterpoint through the writing of original examples. Prerequisite: MUSC 2223.

**MUSC 3313. Music History.** (3-0) Credit 3 semester hours. A study of musical styles, forms, and developments in western music from antiquity through the baroque period.

**MUSC 3323. Music History.** (3-0) Credit 3 semester hours. A study of musical styles, forms, and developments in Western music from 1750 to the present. Prerequisite: MUSC 3313,

**MUSC 3423. Music Concepts II.** (3-0) Credit 3 semester hours. The study of Music Concepts through the use of the keyboard instruments, directed listening experiences, and singing.

**MUSC 3462. Instrumental Literature and Techniques.** (2-0) Credit 2 semester hours. A study of the representative literature for orchestral and band instruments. The course will explore pedagogical practices used in teaching ensembles composed of these instruments.

**MUSC 3472. Choral Literature and Techniques.** (2-0) Credit 2 semester hours. A survey of literature for chorus with emphasis on the selection of choral repertoire suitable for ensembles at various levels.

**MUSC 3512-3522. Piano.** (2-0) Credit 2 semester hours. Advanced technical studies, including Czerny, The Art of Finger Dexterity; Beethoven, Sonatas; Chopin; Etudes and Ballads; Bach, The Well-Tempered Clavichord, The English Suites and The French Suites; repertory, including solos and concertos of Classical, Romantic and Modern composers. Prerequisite: MUSC 2522.

**MUSC 3513-3523. Piano.** (3-0) Credit 3 Semester hours. The study of selected solo literature and technical etudes. Materials to include solos by Bach, Haydn, Brahms, Schumann, Poulenc, Fauré and Debussy; technical studies by Pischna, Czerny, Cortot. Seminar performances. Prerequisite: MUSC 2523.

**MUSC 3532. Accompanying.** (2-0) Credit 2 semester hours. Instruction and practice in playing accompaniments for vocal and instrumental soloists and groups.

**MUSC 3612-3622. Voice.** (2-0) Credit 2 semester hours. The study of selected solo literature and materials for the voice. Seminar performances. Prerequisite: MUSC 2642.

**MUSC 3613-3623. Voice.** (3-0) Credit 3 Semester hours. Advanced technical studies, 19th and 20th century French art songs; 20th century American and British songs; the study of one (1) song cycle. Seminar performances. Junior recital. Prerequisite: MUSC 2623.

**MUSC 3632. Opera.** (2-0) Credit 2 semester hours. The study of operatic performances and practices.

**MUSC 3712-3722. Brass.** (2-0) Credit 2 semester hours. The study of selected solo literature and technical etudes. Seminar performances. Prerequisite: MUSC 2722.

**MUSC 3713-3723. Brass.** (3-0) Credit 3 semester hours. The study of selected solo literature and technical etudes. Seminar performances. Prerequisite: MUSC 2723.

**MUSC 3771-3781. Wind Ensemble.** (0-6) Credit 1 semester hour. Audition-only instrumental ensemble with the highest standards performing the diverse literature of the past two centuries as well as new and exciting contemporary works.

**MUSC 3812-3822. Woodwinds.** (2-0) Credit 2 semester hours. The study of selected solo literature, scales and technical etudes. Required seminar performances. Prerequisite: MUSC 2822.

**MUSC 3912-3922. Percussion.** (2-0) Credit 2 semester hours. The study of appropriate literature and technical etudes for percussion instruments. Seminar Performances. Prerequisite: MUSC 2922.

**MUSC 3913 Percussion.** (3-0) Credit 3 semester hours. The study of appropriate literature and technical etudes for percussion instruments. Seminar Performances. Prerequisite: MUSC 2923.

**MUSC 4012. Conducting.** (2-0) Credit 2 semester hours. The study of basic conducting techniques. A general conducting course.

**MUSC 4022. Choral Conducting.** (2-0) Credit 2 semester hours. The study of choral conducting techniques.

**MUSC 4032. Instrumental Conducting.** (2-0) Credit 2 semester hours. The study of instrumental conducting techniques.

**MUSC 4111. University Band.** (0-5) Credit 1 semester hour. An ensemble devoted to the performance of band music.

**MUSC 4121. University Choir.** (0-5) Credit 1 semester hour. An ensemble devoted to the performance of choral music.

**MUSC 4181. Chamber Music.** (1-0) Credit 1 semester hour. The study, rehearsal, and performance of instrumental literature for small ensemble.

**MUSC 4512-4522. Piano.** (2-0) Credit 2 semester hours. Advanced technical studies, including Czerny, The Art of Finger Dexterity; Beethoven, Sonatas; Chopin; Etudes and Ballads; Bach, The Well-Tempered Clavichord, The English Suites and The French Suites; repertory, including solos and concertos of Classical, Romantic and Modern composers. Seminar performances. Senior recital. Prerequisite: MUSC 3522.

**MUSC 4513-4523. Piano.** (3-0) Credit 3 Semester hours. The study of selected solo literature and technical etudes. Materials to include solos by Bach, Haydn, Brahms, Schumann, Poulenc, Fauré and Debussy; technical studies by Pischna, Czerny, Cortot. Seminar performances. Prerequisite: MUSC 3523.

**MUSC 4532. Piano Literature.** (2-0) Credit 2 semester hours. A study of piano literature from 1600 to the present.

**MUSC 4533. Piano Pedagogy.** (3-0) Credit 3 semester hours. An in-depth study of historical and current methodologies used in teaching piano in all levels.

**MUSC 4562. Music in the Elementary School.** (2-0) Credit 2 semester hours. A study of music curricula, materials and teaching techniques for general music instruction in the elementary school. For music majors only.

**MUSC 4612-4622. Voice.** (2-0) Credit 2 semester hours. The study of selected solo literature and materials for the voice. Seminar performances. Prerequisite: MUSC 3622.

**MUSC 4632. Opera II.** (2-0) Credit 2 Semester hours. The study of operatic performances and practices.

**MUSC 4613-4623. Voice.** (3-0) Credit 3 Semester hours. Romantic and Contemporary compositions; study one (1) opera role, one (1) oratorio, one (1) song cycle. Seminar performances. Senior recital. Prerequisite: MUSC 3623.

**MUSC 4712-4722. Brass.** (2-0) Credit 2 semester hours. The study of selected solo literature and technical etudes. Seminar performances. Prerequisite: MUSC 3722.

**MUSC 4771-4781. Wind Ensemble.** (0-6) Credit 1 semester hour. Audition-only instrumental ensemble with the highest standards performing the diverse literature of the past two centuries as well as new and exciting contemporary works.

**MUSC 4812-4822. Woodwinds.** (2-0) Credit 2 Semester hours. The study of selected solo literature, scales, and technical studies. Required Seminar Performances. Prerequisite: MUSC 3822.

**MUSC 4813 Woodwinds.** (3-0) Credit 3 Semester hours. The study of selected solo literature, scales, and technical studies. Required Seminar Performances. Prerequisite: MUSC 3823.

**MUSC 4912-4922. Percussion.** (2-0) Credit 2 semester hours. The study of appropriate literature and technical etudes for percussion instruments. Seminar Performances. Prerequisite: MUSC 3922.

**MUSC 4923. Percussion.** (3-0) Credit 3 semester hours. The study of appropriate literature and technical etudes for percussion instruments. Seminar Performances. Prerequisite: MUSC 3913

**MUSC 4991. Independent Study.** (1-0) Credit 1 Semester hour. Readings, research, projects, and performance activities in music and music education. Prerequisite: Consent of advisor. This course is repeatable for up to 3 credit hours.

**MUSC 4992. Independent Study.** (2-0) Credit 2 Semester hour. Readings, research, projects, and performance activities in music and music education. Prerequisite: Consent of advisor. This course is repeatable for up to 6 credit hours.

**MUSC 4993. Independent Study.** (3-0) Credit 3 Semester hours. Readings, research, and/or field work on special topics. Prerequisite: Consent of Advisor.

**\*\*Texas Community College Course Equivalents (TCCNS)**

**NAVY 1013. Introduction to Naval Sciences.** (3-0) Credit 3 semester hours. A general introduction to the naval profession and to concepts of sea power. Instruction emphasizes the mission, organization, and warfare components of the Navy and Marine Corps.

**NAVY 1023. Sea power and Maritime Affairs.** (3-0) Credit 3 semester hours. A survey of U.S. Naval History from the American Revolution to the present, with emphasis on major developments. Included is an in-depth discussion of the geopolitical theory of Mahan.

**NAVY 2013. Leadership and Management I.** (3-0) Credit 3 semester hours. A comprehensive, advanced-level study of organizational behavior and management in the context of the naval organization. Topics include a survey of the management functions of planning, organizing, and controlling; an introduction to individual and group behavior in organization; and extensive study of motivation and leadership. Practical applications are explored by the use of experiential exercises, case studies, and laboratory discussions.

**NAVY 2023. Navigation and Naval Operations I.** (3-0) Credit 3 semester hours. An in-depth study of plotting, including theory, principles, and procedures. Other topics discussed include tides, currents, effects of wind and weather, plotting, use of navigation instruments, types and characteristics of electronic navigation systems, and A Day's Work in Navigation.

**NAVY 3013. Navigation and Naval Operations II.** (3-0) Credit 3 semester hours. A study of relative-motion vector-analysis theory, relative motion problems, formation tactics, and ship deployment. Also included is an introduction to Naval Operations and operations analysis, communications and seamanship. Prerequisite: NAVY 2023.

**NAVY 3023. Naval Ships Systems I (Engineering).** (3-0) Credit 3 semester hours. A detailed study of ship characteristics and types, including ship design, hydrodynamic forces, stability, compartmentation, propulsion, electrical and auxiliary systems, interior communications, ship control, and damage control.

**NAVY 3103. Evolution of Warfare.** (3-0) Credit 3 semester hours. This course traces historically the development of warfare from the dawn of recorded history to the present, focusing on the impact of major military theorists, strategists, tacticians, and technological developments.

**NAVY 3993. Independent Study.** (3-0) Credit 3 semester hours. Navy 3000 level course & reading and/or field work on selected topics. Prerequisite: Agreement of an instructor and approval Department Head. Course can be repeated up to 6 semester hours.

**NAVY 4013. Naval Ships Systems II (Weapons).** (3-0) Credit 3 semester hours. This course outlines the theory and employment of weapons systems. The student explores the processes of detection, evaluation, threat analysis, weapon selection, delivery, guidance, and explosives. Fire control systems and major weapon types are discussed.

**NAVY 4023. Leadership and Management II (Ethics).** (3-0) Credit 3 semester hours. This course is designed to acquaint graduating Midshipmen with the basic elements of naval leadership, ethics, and junior officer responsibilities through the study of the Navy's Core Values, ethics, military justice, naval human resources management, directives and correspondence, naval personnel administration, material management and maintenance, and supply systems. Prerequisite: NAVY 2013

**NAVY 4103. Amphibious Warfare.** (3-0) Credit 3 semester hours. An historical survey of the development of amphibious doctrine and the conduct of amphibious operations. Present-day potential of and limitations of amphibious operations including the Rapid Deployment Task force concept, are explored.

**NAVY 4993. Independent Study.** (3-0) Credit 3 semester hours. Navy 4000 level course & reading and/or field work on selected topics. Prerequisite: Agreement of an instructor and approval Department Head. Course can be repeated up to 6 semester hours.

**PHIL 2013. Introduction to Philosophy.** (3-0) Credit 3 semester hours. Examination of selected philosophical readings concerning the theory of knowledge, the nature of being, the theory of values, social ideals and religion and other philosophical problems and issues. Reading will be taken from original western and non western sources.

**PHIL 2023. Ethics.** (3-0) Credit 3 semester hours. Combines the philosophical study of normative ethics with the study of contemporary applied ethics through examination of a number of tendencies and schools of ethics from various cultures, societies and historical periods. The aim of the course is to enhance the student's awareness and sensitivity to the perplexity of morality and the moral life.

**PHIL 3013. Critical Thinking.** (3-0) Credit 3 semester hours. Course is designed to develop students' ability to recognize and evaluate arguments. Focus will include: The most frequently encountered fallacies and errors in reasoning; the use/abuse of statistics; and principles of logic as applied to daily life.

**PHIL 3023. History of Philosophy.** (3-0) Credit 3 semester hours. A survey of the major philosophers and philosophical problems from the Pre-Socratic through Modern Philosophy (600 B.C.E.—1600 A.C.E.) using primary texts. Among the philosophers studied are Zeno, Socrates, Plato, Aristotle, Augustine, and Duns Scotus. Prerequisite: PHIL 2013

**PHSC 1121. Physical Science Lab.** (0-2) Credit 1 semester hour. Physical science laboratory course designed to enhance knowledge of basic principles of physical science and physical processes in our environment. Selected topics on physics, chemistry, astronomy, meteorology and geology will be emphasized with attention directed to current applications and discoveries.

**PHSC 1123. Physical Science I.** (3-0) Credit 3 semester hours. A course designed for survey and introduction of basic principles of physical science and physical processes in our environment, with focus on current discoveries in physics, geology and astronomy. Topics such as solar system and other systems in the universe, sunspots, life and death of stars, galaxies including the Milky Way Galaxy, pulsars and quasars will be studied. The course is not intended for science majors and may not be substituted for basic courses in any of the science programs. \*\*(PHYS 1315)

**PHSC 2123. Physical Science II.** (3-0) Credit 3 semester hours. A course designed for survey and introduction of basic principles of physical science and physical processes in our environment, with emphases on selected topics from chemistry and meteorology. Topics such as weather forecasting and predictions, observations, climatology, severe weather, hurricane categories, El Nino and La Nina will be studied. Prerequisite: PHSC 1123.

**PHSC 3083. Science of Everyday Life.** (3-0) Credit 3 semester hours. A description of daily phenomena, demonstrating how science provides a basis for comprehending them and discusses relationships between various apparently unrelated phenomena. Prerequisite: PHSC 2123 or PHYS 2123.

**PHSC 3183. Modern Physics for Science Teachers.** (3-0) Credit 3 semester hours. Emphasizes insight into Modern Physics with an introduction to the physics of the 20th century with developments of the 21st century included. Prerequisite: PHSC 2123 or PHYS 2123.

**PHSC 3223 Introduction to Atmospheric Science.** (3-0) Structure of the atmosphere. Physical and chemical phenomena leading to atmospheric changes. Weather patterns and climate control. On-line Weather Studies course is included. Prerequisite: PHSC 2123 or PHYS 2123 or PHYS 2523.

**PHSC 4011. Earth Science Lab.** (0-2) Credit 1 semester hour. Laboratory to support PHSC 4013. Exercises include: classification of minerals and rock types; water testing and analysis; field work. Also covered will be online weather studies, analysis and interpretation of real-time meteorological data. Co-requisite: PHSC 4013

**PHSC 4013. Earth Science.** (3-0) Credit 4 semester hours. Designed for science teachers in junior and senior high schools. It covers basic concepts of earth science and methods of teaching. The content covers a study of geology, meteorology, hydrology, petrology, and mineralogy. A study analysis and evaluation of some of the recent systems and techniques in the teaching of earth science. Elements from Online Weather Studies course are included. Prerequisites: PHSC 2123 or PHYS 2123 or PHYS 2523. Co-requisite: PHSC 4011

**PHSC 4024. Astronomy and Geology.** (3-2) Credit 4 semester hours. An introduction to earth science concepts with a more advanced approach involving research materials, including astronomy, geology, paleontology, and field experiences as content materials. Prerequisites: PHSC 2103 or PHYS 2123 or PHYS 2523.

**PHSC 4163. Special Topics in Physical Science.** (3-0) Credit 3 semester hours. Selected current and emerging topics in physical science. Courses may be repeated for credit when topics vary. Prerequisite: Consent of Advisor

**PHSC 4993. Independent Study.** (0-0) Credit 3 semester hours. Readings, research, and/or field work on selected topics. Prerequisite: Consent of Department Head.

**PHYS 1001 Physics as a Profession.** (1-0) Introductory course in physics. Seminars and lectures on physics as a discipline, relationship of physics to other disciplines.

**PHYS 2111. General Physics Lab I.** (0-3) Credit 1 semester hour. General physics laboratory on concepts of mechanics to include experiments on measurement, vectors-force table, air track, projectile motion, static and kinetic friction, ballistic pendulum, centripetal force, moment of inertia, Hooke's law and simple harmonic motion, standing waves and sound..

**PHYS 2113. General Physics I.** (3-0) Credit 3 semester hours. An algebra and trigonometry based introduction to general physics with topics to include measurement system, motion, vector addition, Newton's laws of motion, statics, dynamics, mechanical energy, gravitation, momentum, circular and angular motion, and torque. Prerequisite: MATH 1113 or MATH 1115 or MATH 1123. \*(PHYS 1401)

**PHYS 2121. General Physics Lab II.** (0-3) Credit 1 semester hour. General physics laboratory to include experiments on determination of absolute zero, linear expansion, calorimetry, force of static electricity, Ohm's Law, color-coded resistors, resistors in series and parallel, RC-series transient circuit, RLC-series circuit, AC circuits, concave and convex lenses, and diffraction gratings.

**PHYS 2123. General Physics II.** (3-0) Credit 3 semester hours. A continuation of PHYS 2113, an algebra and trigonometry based introduction to general physics course includes sound, heat, electricity, magnetism, electromagnetic induction and optics, and introduction to modern physics. Prerequisite: PHYS 2113 or PHYS 2513.



**PHYS 2511. University Physics Lab I.** (0-3) Credit 1 semester hour. Calculus-based physics laboratory on concepts of mechanics to include experiments on measurement, vectors-force table, air track, projectile motion, static and kinetic friction, ballistic pendulum, centripetal force, moment of inertia, Hooke's law and simple harmonic motion, standing waves and sound. Same as PHYS 2111, but with calculus included.

**PHYS 2513. University Physics I.** (3-0) Credit 3 semester hours. A calculus-based introductory physics course for science and engineering students. Course includes measurement, Newton's laws of motion statics, dynamics, mechanical energy, momentum, circular motion, and selected topics from torque, modules, Newton universal law, and fluid mechanics. Prerequisite: MATH 1124. \*\*(PHYS 2425)

**PHYS 2521. University Physics Lab II.** (0-3) Credit 1 semester hour. Calculus-based physics laboratory to include experiments on determination of absolute zero, linear expansion, calorimetry, string standing waves, sound resonance, force of static electricity, Ohm's Law, color-coded resistors, resistors in series and parallel, RC-series transient circuit, RLC-series circuit, AC circuits, concave and convex lenses, and diffraction gratings.

**PHYS 2523. University Physics II.** (3-0) Credit 3 semester hours. A continuation of PHYS 2513, a calculus-based introductory physics course for science and engineering students. Course includes electricity, magnetism, and selected topics from heat, sound and light. Prerequisites: PHYS 2513 and MATH 2024. \*\*(PHYS 2426)

**PHYS 3003. Physics Research Internship.** (6-0) Credit 3 semester hours. Internship for undergraduate majors in physics and for majors in applied physics related disciplines who are engaged in research/co-op in governmental or industrial labs. Prerequisites: Consent of the Advisor and Department Head.

**PHYS 3073. Optics.** (3-0) Credit 3 semester hours. Course on geometrical optics, ray tracing, plane surfaces, spherical surfaces, thin lenses, thick lenses, mirrors, stops, lens aberrations, optical instruments, wave optics, interference, Fraunhofer and Fresnel diffraction, diffraction grating, speed of light measurements, absorption and scattering, polarization, etc. Prerequisite: PHYS 2523 or PHYS 2123.

**PHYS 3103. Mechanics I.** (3-0) Credit 3 semester hours. The course content includes elements of vector analysis, rectilinear motion of a particle, Newton's laws, damped and forced harmonic motion, Fourier series, motion of a particle in three dimensions, rotating coordinate systems, gravitation, central force motion. Prerequisite: PHYS 2523.

**PHYS 3113. Mechanics II.** (3-0) Credit 3 semester hours. A continuation of PHYS 3103. The course content includes motion of systems of particles, center of mass and moment of inertia of rigid bodies, moments and products of inertia, principal axes, Euler's equations, Lagrangian mechanics, coupled harmonic oscillators and normal coordinates, theory of vibrating systems. Prerequisite: PHYS 3103.

**PHYS 3123. Electricity and Magnetism I.** (3-0) Credit 3 semester hours. Basic theory of electrostatics; Coulomb's Law, Gauss's Theorem, simple potential theory, LaPlace's and Poisson's equations. Calculation of electric fields and potentials for point and continuous charge distributions. Computer-based demonstrations are included. Prerequisite: PHYS 2523 and MATH 2034.

**PHYS 3133. Electricity and Magnetism II.** (3-0) Credit 3 semester hours. A continuation of PHYS 3123. Theory of metallic conduction of electricity. Ohm's Law, Kirchoff's Law, electromagnetic induction, Maxwell's Equations, A.C. circuits and electromagnetic radiation; appropriate demonstrations to complement the theory. Computer-based demonstrations are included. Prerequisites: PHYS 3123.

**PHYS 3163. Mathematical Physics I.** (3-0) Credit 3 semester hours. Advanced mathematics for physicists and engineers; vector analysis, curvilinear coordinates, tensor analysis, matrices and determinants, infinite series, functions of a complex variable. Emphasis throughout is on practical applications of theory and techniques as applied to problems in physics and engineering. Computer programs such as Mathematica and MATLAB will be used. Prerequisites: PHYS 2523 and MATH 2034.

**PHYS 3173. Mathematical Physics II.** (3-0) Credit 3 semester hours. A continuation of PHYS 3163. Course topics include second-order differential equations, orthogonal functions, Fourier series and integrals, gamma functions, La Place transforms, Bessel special functions, Greens functions, calculus of variations. Computer programs such as Mathematica and MATLAB will be used. Prerequisite: PHYS 3163.

**PHYS 3183. Modern Physics I.** (3-0) Credit 3 semester hours. Course content includes relativity, wave-particle duality, atomic structure, quantum mechanics, and quantum theory of the hydrogen atom. Prerequisite: PHYS 2523.

**PHYS 3193. Modern Physics II.** (3-0) Credit 3 semester hours. A continuation of PHYS 3183 to include many-electron atoms, molecules, statistical mechanics, the solid state, the atomic nucleus, radioactivity, nuclear reactions, elementary particles. Prerequisite: PHYS 3183.

**PHYS 3243. Introduction to Nuclear, Particle and Radiation Physics.** (3-0) Credit 3 semester hours. Nuclear models, nuclear reactions, fundamentals of particle physics, classification of radiation particles, radiation transport, radiation scattering, radiation decay, radiation measurement, and radiation effects. Prerequisite: PHYS 3183.

**PHYS 3323. Physics of Medical Imaging.** (3-0) Credit 3 semester hours. Provides an introduction to physics of imaging relevant to medical applications, including image storage analysis, compression, and retrieval. Computer applications including vision and visualization concepts for medical applications. Telemedicine applications. Prerequisite: PHYS 3183 or PHYS 3243.

**PHYS 4011-4021. Physics Seminar.** (1-0) Credit 1 semester hour. Guest speakers, oral and written reports, group and/or individual study of interesting special topics in physics. Prerequisite: Consent of the Advisor and Department Head.

**PHYS 4023. Introductory Quantum Mechanics I.** (3-0) Credit 3 semester hours. Inadequacy of classical mechanics, wave-particle duality, wave function, uncertainty relation, Schrödinger equation, expectation values, operator formalism, measurement, the correspondence principle, etc. Prerequisites: PHYS 2523 and PHYS 3163.

**PHYS 4033. Introductory Quantum Mechanics II.** (3-0) Credit 3 semester hours. A continuation of PHYS 4023. Exclusion principle, angular momentum, central forces, matrix representations of wave functions and operators, spin, eigenvalue equations, perturbation theory, Zeeman effect, quantum-statistical mechanics, etc. Prerequisite: PHYS 4023.

**PHYS 4043. Astronomy and Astrophysics.** (3-0) Credit 3 semester hours. An intermediate level Physics/Physical Science course including Kepler's laws, law of gravitation, earth, moon, solar system, sun stars, stellar evolution, nucleosynthesis, quarks to quasars, pulsars, nebulae, black holes, orbital transfers, cosmology. Simulation programs will be used. Prerequisite: PHYS 2523 or PHYS 2123.

**PHYS 4063. Thermodynamics and Statistical Mechanics I.** (3-0) Credit 3 semester hours. Macroscopic thermodynamic systems, kinetic theory, black body radiation, classical and quantum statistical mechanics to include Maxwell-Boltzmann, Bose-Einstein, and Fermi-Dirac Statistics. Prerequisites: PHYS 3183 and MATH 2034.

**PHYS 4073. Thermodynamics and Statistical Mechanics II.** (3-0) Credit 3 semester hours. A continuation of PHYS 4063 to include quantum statistical mechanics, approximate methods, master equation, phase transitions, Ising model, Onsager solution, Landau theory, Mean-Field theory, block spin and renormalization group approaches. Prerequisite: PHYS 4063.

**PHYS 4103. Advanced Physics Lab.** (2-2) Credit 3 semester hours. Computational physics modeling and simulations; several types of physics problem modeled and solved; software including Mathematica, MATLAB, Numerical Recipes, Electronics Workbench, will be utilized. Prerequisite: junior or senior standing.

**PHYS 4163. Special Topics in Physics.** (3-0) Credit 3 semester hours. Selected current and emerging topics in Physics. Courses may be repeated for credit when topics vary. Pre-Requisite: Consent of Advisor.

**PHYS 4473. Senior Research Project.** (3-0). Credit 3 semester hours. Capstone Team Based Project. Covers integrated project team concepts, ethics, responsibility, fiscal aspects, culminating in a comprehensive report and a presentation. Prerequisite: Completion of at least 30 hours of physics engineering or education.

**PHYS 4991 and 4993. Independent Study.** (0-0) Credit 1 and 3 semester hours. Readings, research, and/or field work on selected topics. Prerequisite: Consent of Department Head.

**POSC 1113. American Government I.** (3-0) Credit 3 semester hours. This is a survey course about the national and Texas state constitutions federalism, civil liberties and the relationship between government and linkage institutions such as public opinion, the media, campaigns, voting and elections. \*\* (GOVT 2301)

**POSC 1123. American Government II.** (3-0) Credit 3 semester hours. This course surveys the national and Texas legislative and executive institutions, local government, governmental services, regulatory policies, and foreign affairs. \*\* (GOVT 2302)

**POSC 2113. Political Parties and Elections.** (3-0) Credit 3 semester hours. This course is designed to study the nature, functions, evolution, and organization of the American political parties and elections.

**POSC 2123. Public Administration.** (3-0) Credit 3 semester hours. This course provides an examination of the organization, responsibility, personnel management, fiscal processes, functions, and problems of public administration. \*\* (GOVT 2335)

**POSC 2133. Introduction to Political Science.** (3-0) Credit 3 semester hours. This is an introductory course in the study of politics, the various sub-fields in the discipline, and the variety of approaches used in the study of Political Science. (Required for all majors and minors) \*\* (GOVT 2304).

**POSC 2213. Blacks and the American Political System.** (3-0) Credit 3 semester hours. This course offers a critical analysis of the position of blacks in the American politico-economic system, both historically and contemporarily.

**POSC 2413. Scope and Methods in Political Science.** (3-0) Credit 3 semester hours. This course introduces students to the various approaches and methods of inquiry used in the field of Political Science (Required for all majors and minors).

**POSC 2503. Global Issues.** (3-0) Credit 3 semester hours. Selected issues facing the global community are examined. Issues include hunger, energy, population, war and racism. The course has interdisciplinary and cross-cultural focus.

**POSC 2523. Studies of the Global South .** (3-0) Credit 3 semester hours. The course surveys and analyzes the social, political and economic challenges facing regions of the Global South, including Africa, Asia, and Latin America.

**POSC 2533. Latin American and Caribbean Politics.** (3-0) Credit 3 semester hours. Designed to provide a comprehensive investigation of Latin American and Caribbean politics from a multi disciplinary perspective. Examines the various dimensions of Latin American and Caribbean politics, including political and governmental structures, political and economic development and social stratification patterns. Analyzes the

implications of globalization on Latin American and Caribbean political and socio-economic systems.

**POSC 2543. State and Local Government.** (3-0) Credit 3 semester hours. Analysis of state and local governments in the federal system; encompasses an examination of the state and local politics in the United States with an emphasis on politics and public policy.

**POSC 3123. Modern Political Theory.** (3-0) Credit 3 semester hours. This course is a review of the political theories from the Reformation to the present, with special attention to Machiavelli, Bodin, Hobbes, Locke, Montesquieu, Jefferson, Rousseau, Mills, Hegel, and Marx.

**POSC 3213. Public Policy Analysis.** (3-0) Credit 3 semester hours. The course explores the processes involved in the formulation and implementation of authoritative decisions, with emphasis on alternative models of policy analysis and selected issues pertaining to the federal government and bureaucracy.

**POSC 3313. Political Studies Through Film.** (3-0) Credit 3 semester hours. This course critically analyzes films that portray concepts and issues that are fundamental to the study of political science, including freedom and equality, power imbalances, revolution and war, and political structures and processes. Pre-requisite: POSC 1113 or 1123.

**POSC 3513. Comparative Politics.** (3-0) Credit 3 semester hours. Examines the dynamics of Comparative Politics from the perspective of globalization characterized by the world's increasing interconnectedness, particularly in regards to politics, economics, communication and cultures. Provides a comprehensive analysis of nations encompassing histories, societies, politics and economics. Examines contemporary nations in the context of current trends, including modernization, democracy, the environment, human rights, terrorism, security and globalization. Explores symbolic countries in case studies.

**POSC 3523. Comparative Politics of Developing States.** (3-0) Credit 3 semester hours. The course examines political processes in the developing nations of Africa, Asia, and Latin America, with particular attention to the problems of political integration and nation building.

**POSC 3533. U.S. Foreign Policy.** (3-0) Credit 3 semester hours. This is a study of the American foreign policy, including the objectives, capabilities and formulation process.

**POSC 3543. International Politics.** (3-0) Credit 3 semester hours. The basic problems of international politics, focusing on the power competition among states and other transnational institutions, are the major focus of this course. (Required for all majors and minors).

**POSC 3553. African Politics.** (3-0) Credit 3 semester hours. This course examines the political history and development of African states.

**POSC 3593. Middle East Politics.** (3-0) Credit 3 semester hours. This course makes a comprehensive study of the major issues and dilemmas in contemporary Middle Eastern politics, including the clash of religions and nationalisms, security and stability in the Persian Gulf, the Arab-Israeli conflict, efforts at democratizations, and the role of women.

**POSC 4103. Urban Government and Politics.** (3-0) Credit 3 semester hours. This course examines the structure and functions of urban government. Considerable attention is given to the politics and current problems of metropolitan areas.

**POSC 4113. American Constitutional Law.** (3-0) Credit 3 semester hours. In this course, the principles of the American constitutional system, judicial interpretation and application of these principles, relative to the powers of government and the rights of individuals, are examined in depth. (Required for all majors and minors).

**POSC 4123. The Constitution and Private Rights.** (3-0) Credit 3 semester hours. This course examines the rights and duties of United States citizenship with special attention to individual freedoms, issues of subversion, loyalty, and governmental authority, and the processes of adjudication.

**POSC 4133. The Presidency.** (3-0) Credit 3 semester hours. This course traces the evolution of the office of the President of the United States while examining presidential powers in the areas of politics, administration, legislation, war, and foreign affairs.

**POSC 4143. The Legislative Process.** (3-0) Credit 3 semester hours. The course provides a detailed study of the nature and extent of the legislative process, with special attention to the organization, procedure, and dynamics of the American legislative policy-making.

**POSC 4153. Internship in Political Science.** (3-0) Credit 3 semester hours. The student will participate full time in the ongoing work of selected governmental units. A research paper dealing with the internship experience will be required, which has to be supervised or directed by a faculty member.

**POSC 4193. Special Topics in Political Science.** (3-0) Credit 3 semester hours. This course will focus on specific topics in political science which the professor deems appropriate and students desire. This course is repeatable for up to 9 semester credit hours when topics vary.

**POSC 4203. Judicial Politics.** (3-0) Credit 3 semester hours. This course makes an extensive analysis of the structure, functions and processes of the U.S. judicial and legal systems on both the federal and state levels.

**POSC 4213. Seminar in Political Science.** (3-0) Credit 3 semester hours. This course is devoted to intensive reading, writing, research, and discussion focusing on selected topics.

**POSC 4993. Independent Study.** (0-0) Credit 3 semester hours. Readings, research, and/or field-work on selected topics. Prerequisite: consent of advisor.

**SOCG 1013. General Sociology.** (3-0) Credit 3 semester hours. Introduction to the discipline. Focus on why and how sociologists study social and cultural phenomena such as inequality, race and ethnicity, gender, populations, family, political behavior, deviance, and social change. Prerequisite course to most other sociology courses. Required for the major and minor. \*\* (SOCI 1301)

**SOCG 2003. Sociology of Minorities.** (3-0) Credit 3 semester hours. Sociological study of traditional minorities (race, ethnicity, and religion) and new minorities (gender, sexual orientation and disability). \*\* (SOCI 2319, 2320)

**SOCG 2013. Sociology of Families.** (3-0) Credit 3 semester hours. Study of families as social institutions. Focus on social facts and theories of the size, composition, and life cycle of families, family violence, family diversity, family change, and myths about the family. \*\* (SOCI 2301)

**SOCG 2023. African Family and Culture.** (3-0) credit 3 semester hours. Exploration of the institution of family from perspective of African peoples, cultures, and societies; explores issues of the Diaspora.

**SOCG 2033. Social Psychology.** (3-0) Credit 3 semester hours. Uses major social psychological perspectives to analyze human behavior and the importance of others in determining self-perception, attitudes, motivation, conformity, communication, altruism, and aggression. \*\* (SOCI 2326)

**SOCG 2043. Social Problems.** (3-0) Credit 3 semester hours. Application of sociological principles to major social issues and problems in contemporary and global society with particular emphasis on the United States. \*\* (SOCI 1306)

**SOCG 2053. Social Deviance.** (3-0) Credit 3 semester hours. Analyzes norm violation and social conformity, societal sanctions and social control. Examines the changing definitions of deviance and theoretical explanations of deviant behaviors deviant in different societies.

**SOCG 3013. Urban Sociology.** (3-0) Credit 3 semester hours. Study of human settlement patterns, including the origin and development of cities, types of cities, urban political economy, spatial distribution of lifestyles, urban problems and recent trends in urbanization. Examines globalization and the rise of mega-cities and homelessness.

**SOCG 3023. Correctional Treatment and Public Policy.** (3-0) Credit 3 semester hours. Sociological analysis of the historical development and current policies of the correctional system. Analysis of the justice process from crime to conviction: correctional systems (including jails), detention facilities to include local, state, federal and private penal systems.

**SOCG 3033. Social Stratification in America.** (3-0) Credit 3 semester hours. A consideration of the research findings describing the American class structure. Special attention is given to the various strata, the determinants of membership in these strata, lifestyles and life changes associated with social position and with changes in position.

**SOCG 3043. Juvenile Delinquency.** (3-0) Credit 3 semester hours. Sociological approaches to the nature and extent of juvenile delinquency; historical reasons for considering juvenile delinquency from adult crime perspective; influence of environments that support delinquency such as subcultures, peer groups, and gangs. Examines current societal measures used to address juvenile delinquency.

**SOCG 3053. Addiction and Substance Abuse.** (3-0) Credit 3 semester hours. This course is designed to examine the sources of drug abuse; review and assess the biological, psychological and social forces as causal factors of addiction.

**SOCG 3063. Sociology of Drug Use and Abuse.** (3-0) Credit 3 semester hours. Historical and contemporary analysis of patterns of use and abuse of legal and non-legal drugs in the U.S. and other parts of the world. Social-psychological impact of abuse, dependence, and addiction. Evaluation of consequences and treatment.

**SOCG 3073. Sociology of Drug Enforcement.** (3-0) Credit 3 semester hours. Study of current and historical agencies and policies used in drug enforcement. Emphasizing the roles of drug enforcement officials in the prevention and control of drugs in society.

**SOCG 3083. Sociology of Probation and Parole.** (3-0) Credit 3 semester hours. Examines the organization and administration of probation and parole services, including pre-sentence investigation, probation hearings, conditions of probation, and community supervision. Examines parole administration, including operation of Parole Boards, the selection process for parole, boot camp, shock incarceration and emerging issues in probation and parole.

**SOCG 3223. Political Sociology.** (3-0) Credit 3 semester hours. Comparative analysis of political development and political participation including voting behavior, public opinion, political parties and elites; political power and resource distribution in groups, organizations, institutions, communities, and societies.

**SOCG 4023. Special Topics in Sociology.** (3-0) Credit 3 semester hours. Intensive study of specialized topics in sociology and contemporary social issues. May be repeated for credit when topics vary.



**SOCG 4043. Collective Behavior and Social Change.** (3-0) Credit 3 semester hours. Examines the spontaneous behavior of impermanent, unstructured collections of people, including crowds, disaster, revolutions and social movements.

**SOCG 4053. Social Statistics.** (3-0) Credit 3 semester hours. Presentation of sociological data and introduction to descriptive and inferential statistics for social science majors. Includes computer applications. Prerequisite MATH 1113.

**SOCG 4063. Demography.** (3-0) Credit 3 semester hours. Study of size, composition, growth and distribution of populations; social causes and consequences of population change; and collection and interpretation of vital statistics and census data.

**SOCG 4073. Global Sociology.** (3-0) Credit 3 semester hours. Study of the interaction of culture, technology and environment in the evolution of social life from hunting and gathering bands to global society. Explores recent theories of global society in the post-cold war world.

**SOCG 4143. Environmental Sociology.** (3-0) Credit 3 semester hours. Explores human relationship with the physical world, other animals, and with the land including raw materials. A broad historical and cultural perspective will be employed, comparative cultural analyses, changes over time in relation to progress, and current environmental problems and possible solutions.

**SOCG 4633. Cultural Sociology.** (3-0) Credit 3 semester hours. Study of culture including cultural universals, cultural conflicts, and cultural pluralism from a global perspective. Explores the effect of technology on cultural transmission and cultural change.

**SOCG 4723. Sociological Research Methods.** (3-0) Credit 3 semester hours. Introduction to methods of sociological research including experiments, survey research, secondary analysis, and observation. Includes computer applications.

**SOCG 4733. Sociological Theory.** (3-0) Credit 3 semester hours. Critical survey of major sociological theories from classical to contemporary schools of thought.

**SOCG 4763. Sociology Internship.** (3-0) Credit 3 semester hours. Placement in governmental agency, nonprofit organization or business for supervised experience in applied sociology. May require health examination or security clearance.

**SOCG 4783. Senior Seminar in Sociology.** (3-0) Credit 3 semester hours. Final integration of the major works of theory and research in sociology including subfields. Comprehensive exam and major paper required. Restricted to majors and must be taken the semester prior to graduation.

**SOCG 4993. Independent Study.** (0-0) Credit 3 semester hours. Readings, research, and/or field work on selected topics. Prerequisite: Consent of Division Head.

**SOWK 2113. Introduction to the Field of Social Work.** (3-0) Credit 3 semester hours. Introduction to the profession of social work and the institution of social welfare. Include overviews of social welfare history; the range of contemporary services and agencies, and professional values, ethics, licensing and associates. Generalist social work model presented. Involves agency experience. Required for social work major and minor.

**SOWK 2133. Social Work with Children and Families.** (3-0) Credit 3 semester hours. Examination of social and cultural constructs of childhood including history and development of child welfare services; childhood developmental stages; social policy relevant to children, families and their well-being; assessment, intervention and direct services for children and families.

**SOWK 2173. Multicultural Issues in Mental Health.** (3-0) Credit 3 semester hours. Exploration of the etiology and treatment modalities for addressing mental health issues with culturally diverse populations including African American, Hispanic American, and Asian American.

**SOWK 3113. Social Welfare Policy and Services.** (3-0) Credit 3 semester hours. Introduces social welfare as a system of arrangements, programs, and mechanism for generalist social work practice in meeting human needs; survey of social welfare and issues related to social and economic justice.

**SOWK 3123. Social Welfare Policy Analysis.** (3-0) Credit 3 semester hours. Study of the history, philosophy, structure and function of social welfare services; examination of policy-making processes and models, and effects of legislation on social work practice. Utilizes interdisciplinary approach including social, political, legal, economic and administrative.

**SOWK 3133. Human Behavior and the Social Environment I.** (3-0) Credit 3 semester hours. Dynamics of human behavior and effects of the social environment on individual development. Process of human development adaptation from infancy through adolescence with an examination of developmental states, transitions and problems inclusive of the person in the environment.

**SOWK 3143. Human Behavior and the Social Environment II.** (3-0) Credit 3 semester hours. Continuation of the person in the environment emphasizing theoretical\ orientation, building understanding and knowledge of human behavior as influenced by bio-psycho-social-cultural factors. Emphasis on current perspectives on adulthood and aging, and theories helpful for understanding work with individuals in the context of their social environment. Prerequisite: SOWK 3133

**SOWK 3153. Social Work with At-Risk Juveniles.** (3-0) Credit 3 semester hours. Emphasizes generalist approach to delinquency prevention, and intervention within the correctional system.

**SOWK 3163. Gerontological Social Work.** (3-0) Credit 3 semester hours. Introduction of fundamentals in gerontology (theories, principles, and concepts); interdisciplinary

approaches to aging and life-span development including ecological and systems perspective.

**SOWK 3213. Human and Cultural Diversity Social Work.** (3-0) Credit 3 semester hours. Acquisition and application of methods, theories, and skills sensitive to a wide variety of human differences for competent social work practice with diverse populations. Effects of prejudice, discrimination, and stereotyping at individual and institutional levels. Advocacy for social and economic justice specific to race, ethnicity, gender, age, religion, disability, social class, nationality, and sexual orientation.

**SOWK 4123. Social Work Practice I.** (3-0) Credit 3 semester hours. Introduction to generalist social work practice theory, knowledge, values, and skills in professional practice with individuals, families, and small groups. Emphasis on ecological and systems framework; presents generalist methodological approach for problem solving.

**SOWK 4133. Social Work Practice II.** (3-0) Credit 3 semester hours. Acquisition and application of theories and practice approaches appropriate for professional generalist social work with groups, organizations, and community systems. Emphasizes leadership roles and skills, including analyses of systems processes and interactions. Builds on problem solving approach introduced in SOWK 4123. Thirty-six (36) hours of agency volunteer service required. Restricted to social work majors. Prerequisite: SOWK 4123

**SOWK 4143. Social Work Research I.** (3-0) Credit 3 semester hours. Study of the research process and its application to generalist social work practice. Conceptual foundation of social work research. Quantitative and qualitative methods of inquiry, research designs, data collection, and analysis of ethical and human diversity issues in research. Introduces computer research applications in social work practice.

**SOWK 4153. Social Work Research II.** (3-0) Credit 3 semester hours. Advanced quantitative and qualitative methods of inquiry, research designs, and analysis of ethical and human diversity issues in social work research. Knowledge and skills in using advanced computer research applications in social work. Prerequisite: SOWK 4143

**SOWK 4163. Honors Seminar in Social Work.** (3-0) Credit 3 Semester hours. Special seminar of current events in social welfare. Prerequisite: Junior standing and permission. Elective for Social Work major only.

**SOWK 4176. Field Practicum.** (6-0) Credit 6 semester hours. Supervised learning experience involving field-based placement in social service agency. Integration of theory and practice. All required social work foundation courses must be completed before entering practicum. Co-requisite: SOWK 4183

**SOWK 4183. Integrative Seminar.** (3-0) Credit 3 semester hours. Analysis and evaluation of the field-based experiences. Evaluation of conceptual framework for integrating social work knowledge, skills, and values gained from field experiences including administrative issues related to practicum, agency assignments and other field

related issues for resolution. All required social work foundation courses must be completed before enrolling in this course. Co-requisite: SOWK 4176

**SOWK 4343. Generalist Crisis Intervention.** (3-0) Credit 3 semester hours. Intervention with individuals, families, and communities in crisis using the generalist social work model. Crisis assessment, management and referral.

**SOWK 4353. Intervention with Addicted Family.** (3-0) Credit 3 semester hours. Integration of theory and codependency, mental and physical abuse, and other obsessive behaviors.

**SOWK 4363. Special topics in Social Work.** (3-0) Credit 3 semester hours. Select topics of interest in the field of social work and social welfare. May be repeated for credit when topics vary.

**SOWK 4993. Independent Study.** (3-0) Credit 3 semester hours. Readings, research, and/or field work on selected topics. Prerequisite: Senior standing and consent of Program Director.

**SPAN 1013. Elementary Spanish I.** (3-0) Credit 3 semester hours. Practice in listening, speaking, reading and writing skills in Spanish to acquire elementary vocabulary and structures and a general knowledge of Hispanic culture. \*\* (SPAN 1411)

**SPAN 1023. Elementary Spanish II.** (3-0) Credit 3 semester hours. Continuation of acquisition of language skills and culture introduced in Elementary Spanish I. Prerequisite: SPAN 1013. \*\* (SPAN 1412)

**SPAN 2013. Intermediate Spanish I.** (3-0) Credit 3 semester hours. Continuation of acquisition of language skills and culture presented in Elementary Spanish I and II. Prerequisite: SPAN 1023. \*\* (SPAN 2311)

**SPAN 2023. Intermediate Spanish II.** (3-0) Credit 3 semester hours. Continuation of acquisition of language skills and culture on an intermediate level with emphasis on reading and discussion, grammar review, and use of idioms. Prerequisite: SPAN 2013. \*\* (SPAN 2312)

**SPAN 3023. Survey of Spanish Literature I.** (3-0) Credit 3 semester hours. Representative selections and masterpieces of the literature of Spain from Poema del Cid to the eighteenth century. Prerequisites: SPAN 2023 and permission of the instructor.

**SPAN 3033. Survey of Spanish Literature II.** (3-0) Credit 3 semester hours. Representative selections and masterpieces of the literature of Spain from 1700 to the Generation of 1898. Prerequisites: SPAN 2023 and permission of the instructor.

**SPAN 3063. Spanish-American Literature I.** (3-0) Credit 3 semester hours. A survey of Spanish-American literature from the period of discovery and exploration through the Modernista movement. Prerequisites 2023 and permission of the instructor.

**SPAN 3073. Spanish-American Literature II.** (3-0) Credit 3 semester hours. A survey of Spanish-American literature since the Modernista movement. Prerequisite: SPAN 2023.

**SPAN 3093. Hispanic Civilization and Culture I.** (3-0) Credit 3 semester hours. Main currents of the intellectual, political, and economic history of Spain. Prerequisite: SPAN 2023.

**SPAN 3203. Spanish Conversation.** (3-0) Credit 3 semester hours. Practice in oral composition. Guided conversation involving the vocabulary of everyday situations. Prerequisite: SPAN 2023.

**SPAN 3213. Spanish Composition.** (3-0) Credit 3 semester hours. Practice in written composition. Salient principles of grammar and syntax in written work. Prerequisite: SPAN 2023.

**SPAN 3303. Introduction to Hispanic American Film.** (3-0) Credit 3 semester hours. This course is an introduction to the terminology, concepts, and criticism of film. It enables students to examine film within its social, cultural, and historical contexts with an emphasis on the ways filmmakers use angles, lenses, sound, lighting, color, and editing. Prerequisite: SPAN 2023 or the equivalent.

**SPAN 4003. Hispanic Civilization and Culture II.** (3-0) Credit 3 semester hours. Main currents of the intellectual, political, and economic history of Mexico in particular and of Latin America in general. Prerequisite: SPAN 2023.

**SPAN 4043. Spanish Phonetics.** (3-0) Credit 3 semester hours. A practical study of the principal constituents of Spanish pronunciation, articulation, and accentuation. Prerequisites: SPAN 2023, 3203 and 3213 or permission of course instructor.

**SPAN 4063. Spanish Applied Linguistics.** (3-0) Credit 3 semester hours. Practical study of the application of linguistics to the teaching of Spanish phonology, morphology, syntax, vocabulary, literature, and culture. Prerequisites: SPAN 2023, 3203 and 3213 or permission of course instructor.

**SPAN 4433. Special Topics in Spanish.** (3-0) Credit 3 semester hours. Seminar offers a critical examination of a topic within the instructor's field of specialization. Emphasis on scholarly analysis and research allows students to demonstrate the capacity to bring information, skills, and ideas acquired from the Spanish major and various curricula to bear on a topic or project. Prerequisite: one 3000-level Spanish course with a "C" or above. Repeatable up to 6 SCH.

**SPAN 4993. Independent Study.** (0-0) Credit 1, 2, or 3 semester hours. Readings, research, and/or field work on selected topics. Prerequisite: consent of department head. 3013. Prerequisite: SPCH 2103.

\*\*        Transfer equivalent from Texas Community/Junior Colleges.

## **College of Business**

**ACCT 2113. Financial Accounting.** (3-0) Credit 3 semester hours. An introduction to the communication of relevant financial information to investors, creditors, and analysts with an emphasis on the accounting information cycle and the preparation of the three major financial statements: the balance sheet, the statement of income and retained earnings, and the statement of cash flows. \*\*(ACCT 2301, 2401).

**ACCT 2123. Managerial Accounting.** (3-0) Credit 3 semester hours. Instruction in the managerial decision-making functions using accounting information. Review of internal accounting information systems for planning, monitoring, and decision making with an emphasis on manufacturing cost, budgeting, product pricing, and CVP relationships. Prerequisite: ACCT 2113. \*\*(ACCT 2302, 2402)

**ACCT 3213. Intermediate Accounting I.** (3-0) Credit 3 semester hours. The study of accounting principles and the preparation of financial statements with an emphasis on accounting theory, current and non-current assets, revenues and expenses and the time value of money. Prerequisite: ACCT 2123 and junior/senior classification.

**ACCT 3223. Intermediate Accounting II.** (3-0) Credit 3 semester hours. A continuation of ACCT 3213 with an emphasis on accounting principles and financial statement preparation in the areas: investments, current and long-term liabilities, stockholders' equity, income taxes, leases, accounting changes, pensions, cash flow statements, earnings per share, and financial statement analysis. Prerequisite: ACCT 3213 and junior/senior classification.

**ACCT 3243. Ethics for Accountants.** (3-0) Credit 3 semester hours. A study of the legal, regulatory and ethical issues of business with special emphasis pertaining to accounting. Prerequisite: ACCT 2123.

**ACCT 3313. Cost Accounting.** (3-0) Credit 3 semester hours. The fundamental costs of a manufacturing concern such as raw materials, labor cost, and overhead and the preparation of internal reports for managerial decisions in the areas: planning, control and budgets. Prerequisite: ACCT 2123 and junior/senior classification.

**ACCT 3333. Federal Income Tax I.** (3-0) Credit 3 semester hours. An introduction to the theory and fundamentals of federal income tax as applied to individuals, with an emphasis on individuals involved in business activities or organizations. Includes an introduction to tax research and professional communication of results. Prerequisite: ACCT 2123 and junior/senior classification.

**ACCT 3343. Federal Income Tax II.** (3-0) Covers federal income tax codes as they apply to proprietorships, partnerships and corporations. Also includes tax research. Prerequisite: ACCT 3333 and junior/senior classification.

**ACCT 3393. Accounting Internship I.** (0-0) Credit 3 semester hours. Supervised full-time, off-campus training at accounting firms, private and public business organizations, governmental agencies, and not-for-profit organizations that requires individual conferences with a faculty member, performance evaluations from the work place, and written reports. The duration of the program will be one regular semester or two consecutive summer terms. Prerequisite: Accounting major, completion of 9 hours in accounting including ACCT 3213 or approval of department head.

**ACCT 3493. Accounting Internship II.** (0-0) Credit 3 semester hours. Supervised full-time, off-campus training at accounting firms, private and public business organizations, governmental agencies, and not-for-profit organizations that requires individual conferences with a faculty member, performance evaluations from the work place, and written reports. The duration of the program is one regular semester or two consecutive summer terms. Prerequisite: Accounting major, completion of 12 hours in accounting including ACCT 3213, ACCT 3313, or approval of department head.

**ACCT 4133. International Accounting.** (3-0) Credit 3 semester hours. The course is designed to facilitate an understanding of the fundamental principles and practices of international accounting; includes an analysis of how different social, political, and economic backgrounds influence and interact with accounting, reporting and evaluation processes. Prerequisites: ACCT 3213 and junior classification.

**ACCT 4213. Advanced Accounting.** (3-0) Credit 3 semester hours. Analysis of special problems and theories relative to business combinations, preparation of consolidated financial statements, partnership operations, foreign currency transactions and segment reports. Prerequisite: ACCT 3223 and junior/senior classification.

**ACCT 4223. Auditing.** (3-0) Credit 3 semester hours. The study of auditing concepts and procedures in the areas: auditing standards, internal control, professional ethics and responsibilities, audit evidence, audit documentation, and audit reports. Prerequisite: ACCT 3223 and junior/senior classification.

**ACCT 4253. Oil and Gas Accounting.** (3-0) Credit 3 semester hours. An introduction to oil and gas accounting with emphasis on accounting for costs incurred in the acquisition, exploration, development, and production of oil and natural gas using full cost accounting methods; also covers joint interest accounting, gas pipeline accounting, required disclosures for oil and gas activities, and analysis of oil and gas companies' financial statements. Prerequisites: ACCT 3213 and junior/senior classification.

**ACCT 4313. Accounting Information Systems.** (3-0) Credit 3 semester hours. Study of overall data flow systems emphasizing financial data and computerized systems of accounting. Covers flow and logic concepts and development of meaningful control concepts and data reporting techniques. Prerequisite: ACCT 2123, MISY 2013 and junior/senior classification.

**ACCT 4323. Fund Accounting.** (3-0) Credit 3 semester hours. Features of budgetary and fund accounting as applied to not-for-profit organizations such as colleges,



universities and governmental units. Prerequisite: ACCT 3223 and junior/senior classification.

**ACCT 4343. Financial Statement Analysis.** (3-0) Credit 3 semester hours. A study of financial statements in a variety of firm valuation contexts. The course provides various tools for evaluating a firm's accounting and financial performance, the concept of earnings quality, and other related issues. Cross-listed as FINA 4343. Prerequisites: ACCT 3213, FINA 3103 and junior classification.

**ACCT 4991-4992-4993-4996. Independent Study.** (0-0) Credit 1, 2, 3, or 6 semester hours. Reading, research, and/or field work on selected topics. Prerequisite: Junior/senior classification and consent of instructor and department head.

**BCOM 3303. Business Communication.** (3-0) Credit 3 semester hours. Development of best practices in business communication as it relates to the collection, organization, and preparation of business reports. Emphasis will be placed on techniques of collecting, interpreting and presenting information useful in a corporate setting. Prerequisites: ENGL 1133, MISY 1013 or equivalent and junior classification.

**BLAW 2203. Legal Environment of Business.** (3-0) Credit 3 semester hours. A survey of the U.S. legal system with an emphasis on aspects relevant to business operations. Topics include legal systems, constitutional law, criminal law, property law, torts, and basic contract law. Prerequisite: Pass reading section of THEA.

**BLAW 2213. Business Law.** (3-0) Credit 3 semester hours. Covers topics including the U.S. Uniform Commercial Code, agency law, employment and discrimination law, and regulatory topics. Prerequisite BLAW 2203.

**ECON 2003. Fundamentals of Economics.** (3.0) Credit 3 semester hours. Designed for non-business majors, this course will survey fundamental principles of micro and macroeconomics. More specifically, it will survey basic economics terminology, rudimentary economic models, the concepts of supply and demand, consumer theory, the theory of the firm, market structures and performance, income inequality and environmental degradation, measures of macroeconomic performance, business cycle theory, monetary and fiscal policy, banking and international trade, and long-term economic growth. Prerequisite: none.

**ECON 2113. Principles of Microeconomics.** (3-0) Credit 3 semester hours. Analysis of the principles and problems of production and distribution, market structure, business enterprise, and comparative economic systems. \*\*(ECON 2302) Prerequisite: Pass all sections of THEA.

**ECON 2123. Principles of Macroeconomics.** (3-0) Credit 3 semester hours. Analysis of the principles and problems of money and banking, national income, public finance, international trade, and economic growth. \*\*(ECON 2301)

**ECON 3313. Economic Development.** (3-0) Credit 3 semester hours. A study of the economic factors affecting economic growth and development. Emphasis is on experience of third world countries. Prerequisite: ECON 2113 and 2123 and junior/senor classification.

**ECON 3323. Public Finance.** An examination of the public sector and its contribution to economic welfare. An analysis of alternative forms of taxation and their impact on micro- and macroeconomic decision making. Prerequisite: ECON 2113 and 2123 and junior/senor classification.

**ECON 3343. Economic and Human Resources.** (3-0) Credit 3 semester hours. Examines population growth, poverty, discrimination, human resource development, and training and education. The course is oriented toward explaining the principles, effects, and policies related to each topic. Prerequisite: ECON 2113 and 2123 and junior/senor classification.

**ECON 4213. Intermediate Microeconomic Analysis.** (3-0) Credit 3 semester hours. Analysis of the principles governing price and output decisions of business firms and the allocation of resources under various market structures. Prerequisite: ECON 2113 and junior/senor classification.

**ECON 4223. Intermediate Macroeconomic Analysis.** (3-0) Credit 3 semester hour. Analysis of determinants of the aggregate level of employment, output and income of an economy. Prerequisite: ECON 2113, 2123 and junior/senor classification.

**ECON 4303. Money and Banking.** (3-0) Credit 3 semester hours. Money, credit, commercial and central banking, financial intermediaries, treasury operations, monetary theory and policy, and foreign exchange. Prerequisite: ECON 2113, 2123 and junior/senor classification. Cross-listed as FINA 4303 and junior/senor classification.

**ECON 4343. International Trade.** (3-0) Credit 3 semester hours. Principles and practices of foreign trade with special emphasis on international economic relations. Analysis of foreign exchange, balance of payments, foreign investment, tariff history and policy, and currency problems. Prerequisite: ECON 2123, ECON 2113 and junior/senor classification.

**ECON 4353. Urban Economics.** (3-0) Credit 3 semester hours. Economic analysis of the major problems facing urban areas. Study of the theory of urban industrial and residential locations, including patterns of urban growth and development. Prerequisite: ECON 2113, 2123 and junior/senor classification.

**ECON 4373. Economic Research.** (3-0) Credit 3 semester hours. Introduces the fundamentals of systematic social science research methods commonly used in economics and business disciplines. Includes problems of measurement, study design, sampling, reliability, validity, and ethical considerations and junior/senor classification.

**ECON 4993. Independent Study.** (0-0) Credit 1, 2, 3, or 6 semester hours. Reading, research, and/or field work on selected topics. Prerequisite: Junior/senior classification and consent of instructor and department head.

**ENTR 3013. Economics for Entrepreneurship.** (3-0) Credit 3 SCH. This course elaborates upon and applies economics principles, concepts and techniques useful to entrepreneurs. Topics include supply and demand, revenue management, cost minimization, profit maximization, pricing strategies, labor compensation strategies, game theory and competitive strategies, auctions, the macroeconomic environment, financing strategies, forecasting, and international trade and finance. Prerequisite: For Non-Business Majors: MGMT 1013 Introduction to Business and MGMT 2013 Fundamentals of Entrepreneurship; For Business majors: MGMT 1013 and Junior standing; Guest Students: Consent of the Entrepreneurship Program Coordinator.

**ENTR 3023. Diversity in Entrepreneurship.** (3-0) Credit 3 SCH. This course provides students with an understanding of the historical and contemporary state of women, ethnic (Asian, Middle Eastern and other immigrant groups) and minority (e.g. Black, Hispanic and Native Americans) entrepreneurs. Emphasis is given to how these groups develop ventures and create wealth. Prerequisite For Non-Business Majors: MGMT 1013 Introduction to Business and MGMT 2013 Fundamentals of Entrepreneurship; For Business majors: MGMT 1013 and Junior standing; Guest Students: Consent of the Entrepreneurship Program Coordinator.

**ENTR 3033. Social Entrepreneurship.** (3-0) Credit 3 SCH. Social Entrepreneurship, which refers to the use of business skills to develop innovative approaches to societal problems, will introduce the concept of social enterprises, the challenges unique to starting and growing them, the emerging capital markets for social ventures, the possible trade-offs in social and financial returns, and some unique expectations and challenging management decisions that are inherent in growing social enterprises. Prerequisite: Non-Business Majors: MGMT 1013 Introduction to Business and MGMT 2013 Fundamentals of Entrepreneurship; Business majors: MGMT 1013 and Junior standing; Guest Students: Consent of the Entrepreneurship Program Coordinator.

**ENTR 3093. Special Topics in Entrepreneurship.** (3-0) Credit 3 SCH. This course provides the flexibility of presenting a variety of contemporary topics of interest in entrepreneurship. The ever evolving business environment will present new entrepreneurial opportunities to serve customer needs, involving a variety of goods and services, such as oil and gas, telecommunications, medical services or real estate. Topics addressed in this course will vary depending upon student interest and the needs of the market. Prerequisite: For Non-Business Majors: MGMT 1013 Introduction to Business and MGMT 2013 Fundamentals of Entrepreneurship; For Business majors: MGMT 1013 and Junior standing; Guest Students: Consent of the Entrepreneurship Program Coordinator.

**ENTR 4043. New Venture Creation.** (3-0) Credit 3 Semester hours. This is a hands-on capstone course that focuses on new venture creation and requires a feasibility analysis of

the new organization. Working in teams, students will learn to identify, conceptualize, plan, finance, launch, manage and harvest the rewards of building a new venture. Students will be required to actually do all the planning, create the appropriate documentation and present the complete business plan as though it were going to start in the immediate future. Prerequisites: MGMT 3333 and at least 6 hours of Entrepreneurship Electives.

**FINA 2103. Personal Financial Management and Planning.** (3-0) Credit 3 semester hours. Covers the basics of personal money management and financial planning. The areas covered include personal investments in stocks and bonds, auto and home financing, insurance needs, retirement and estate planning.

**FINA 3013. Fundamentals of Financial Planning.** (3-0) Credit 3 semester hours. This course prepares students for the business of financial planning. Issues covered include the financial planning process, client interaction, time value of money applications, personal financial statement construction and analysis, cash flow and debt management, ethical issues and considerations, and education planning. Prerequisite: FINA 2103 and junior/senior classification.

**FINA 3023. Principles of Insurance.** (3-0) Credit 3 semester hours. Applications of fundamental principles of life, property, and casualty insurance, contracts, premiums, legal statutes, risk, and programming. Prerequisite: ACCT 2123 and junior/senior classification.

**FINA 3103. Principles of Finance.** (3-0) Credit 3 semester hours. Fundamental tools and techniques applicable to financial planning of businesses. Covers valuation of securities, risk-return relationship, capital budgeting, management of current assets and liabilities with extension to international areas. Prerequisite: ACCT 2123 and junior/senior classification.

**FINA 3113. Real Estate Principles.** (3-0) Credit 3 semester hours. An introduction to the study of the economic and legal environment in which real property is transferred and used. Prerequisite: ACCT 2123, ECON 2113 and junior/senior classification.

**FINA 3333. Investment Analysis.** (3-0) Credit 3 semester hours. Survey of the risks and returns of investment media in relationship to the investment objectives of individual and industrial investors. Includes an examination of the capital markets, information flows, and analytical techniques in terms of their impact upon the valuation process. Prerequisite: FINA 3103 and junior/senior classification.

**FINA 3383. Financial Markets and Institutions.** (3-0) Credit 3 semester hours. Domestic financial institutions and markets and their interaction in the flow of funds in the economy and the central bank and other regulatory institutions will be analyzed with an extension to international markets and institutions. Prerequisite: ECON 2123, FINA 3103 and junior/senior classification.

**FINA 3393. Finance Internship I.** (0-0) Credit 3 semester hours. Supervised full-time training in industry, government or other agencies for junior-level finance majors. Individual conferences, company performance evaluations and written reports required. The duration of the program will be one regular semester or two consecutive summer terms. Prerequisite: FINA 3383 and junior classification or approval of department head.

**FINA 4113. Retirement Planning and Employee Benefits.** (3-0) Credit 3 semester hours. The course provides students with knowledge of the different types of public and private retirement and benefit plans; specifics and operations of these plans are analyzed as well as their regulatory framework; application of these plans is stressed in such areas as needs evaluation and analysis, strategies for different life-cycle circumstances, and medical issues. Prerequisite: FINA 3013 and junior/senior classification.

**FINA 4123. Estate Planning.** (3-0) Credit 3 semester hours. The course focuses on the efficient conservation and transfer of wealth, consistent with the client's goals; presents legal, tax, financial, and non-financial aspects of the process, covering such topics as wills, trusts, probate, advanced directives (living wills), charitable giving, wealth transfers and related taxes. Prerequisite: ACCT 3333, FINA 3013 and junior/senior classification.

**FINA 4213. Managerial Finance.** (3-0) Credit 3 semester hours. Issues and problems faced by financial managers with emphasis on financial analysis, capital budgeting, capital structure, dividend policy, and corporate restructuring. Prerequisite: FINA 3103 and junior/senior classification.

**FINA 4303. Money and Banking.** (3-0) Credit 3 semester hours. Money, credit, commercial and central banking, financial intermediaries, treasury operations, monetary theory and policy, and foreign exchange (3-0) Credit 3 semester hours. Covers a wide spectrum of topics and issues in banking and finance, including the role and nature of money in the economy, bank management, technological innovations and the practice of banking, creation and regulation of the money supply and the institutions involved, monetary policies and the role of the Federal Reserve and Treasury Department. Prerequisite: ECON 2123 and junior/senior classification. Cross-listed as ECON 4303.

**FINA 4313. Investment Management.** (3-0) Credit 3 semester hours. Principles of portfolio management, portfolio optimization, asset allocation, asset pricing models, investment strategies, and timing techniques portfolio performance evaluation. Prerequisite: FINA 3333 and junior/senior classification.

**FINA 4343. Financial Statement Analysis.** (3-0) Credit 3 semester hours. A study of financial statements in a variety of firm valuation contexts. The course provides various tools for evaluating a firm's accounting and financial performance, the concept of earnings quality, and other related issues. Cross-listed as ACCT 4343. Prerequisite: ACCT 3213, FINA 3103 and junior classification.

**FINA 4353. International Finance.** (3-0) Credit 3 semester hours. An overview of the international financial markets and the flow of funds, environment with emphasis on exchange rates, effects of changes in exchange rates on firm value, management of exchange rate risk, international portfolio investments and parity relationships, international debt market, and arbitrage Exchange rate risk and its management, short- and long-term financing, asset and liability management, capital budgeting, and direct foreign investments for multinationals; international banking issues. Prerequisite: FINA 3103, ECON 2113, and ECON 2123 and junior/senior classification.

**FINA 4383. Derivative Securities.** (3-0) Credit 3 semester hours. In-depth Valuation of topics related to the options and financial futures; risk management of business operations. Topics may include markets for corporate control, speculative markets, management of financial institutions, etc. Prerequisite: FINA 3103 and hedging applications using options and futures; primary focus on stock options, index options, stock index futures, interest rate futures, foreign exchange futures and futures options. Prerequisites: FINA 3333 and junior/senior classification.

**FINA 4393. Finance Internship II.** (0-0) Credit 3 semester hours. Supervised full-time training in industry, government, or other agencies for senior-level finance majors. Individual conferences, company performance evaluations and written reports required. The duration of the program will be one regular semester or two consecutive summer terms. Prerequisite: FINA 4213 and senior classification or approval of the department head.

**FINA 4453. Special Topics in Finance.** (3-0) Credit 3 semester hours. Supervised full-time training in industry, government, or other agencies for senior-level. The course would provide a forum to bring in special issues/topics of interest in the finance majors. Individual conferences, company performance evaluations and written reports required. The duration of area, such as hedge funds, speculative markets, mergers and acquisitions, and the program management of financial institutions. It will be one regular semester or two consecutive flexible in terms. Prerequisite: FINA 4213 and of content and can be repeated for credit. Prerequisites: ECON 2113, 2123, FINA 3102, and junior/senior classification or approval of the department head. Course can be repeated three times for credit.

**FINA 4993. Independent Study in Finance.** (0-0) Credit 3 semester hours. Reading, research, and/or field work on selected topics. Prerequisite: Junior/senior classification and consent of instructor and department head.

**MGMT 1013. Introduction to Business.** (3-0) Credit 3 semester hours. An overview of business operations and the role of business in modern society. Topics of current interest to the business community will be introduced.

**MGMT 2000. Professional Development for Business.** (0-0). This course is mandatory for College of Business students and highlights the internship process and resources available. The course will orient students towards career-related strategic decision-making and help them better understand the role of internships towards future

job success. Topics include: accessing and leverage digital resources for career development, resume writing and analysis, interviewing, on-the-job performance and the assessment process, and career planning.

**MGMT 2013. Fundamentals of Entrepreneurship.** (3-0) Credit 3 semester hours. This course is designed for non-business majors. It provides students with functional knowledge and skills in business that are required for a broad understanding of the field of entrepreneurship. Topics include identifying and managing critical resources, understanding financial and accounting issues, marketing and sales, and the legal environment of business. Prerequisite: MGMT 1013.

**MGMT 2203. Leadership and Ethics in Business.** (3-0) Credit 3 semester hours. Explores the major elements and the basic frameworks of leadership and ethics with emphasis on the linkages between the two. Considers several cases where leaders faced significant ethical challenges. Students will be expected to write and discuss thoughtful analyses of these cases using the frameworks discussed in class. Prerequisite: ENGL 1133 or a University accepted alternative.

**MGMT 2393. Cooperative Education I** (0-0) Credit 3 semester hours. Cooperative program in approved private and public business organization engaged in planning, organizing, activating and controlling functions in producing and distributing goods and services. Written reports indicating student's work experience are required. Prerequisite: 30 hours of college level course work, MGMT 1013

**MGMT 3013. Business Statistics.** (3-0) Credit 3 semester hours. Statistical concepts, collection and presentation of data, measures of central tendency and dispersion, index numbers, probability concepts, probability distributions, sampling and linear regression. Prerequisite: MATH 1153 or equivalent and junior/senior classification.

**MGMT 3023. Quantitative Methods.** (3-0) Credit 3 semester hours. Linear regression, comparisons of means, comparisons of proportions, tests of independence, analysis of variance, formulation of linear programs, decision theory. Use of MS Excel for these topics. Prerequisite: MGMT 3013 (Business Statistics) or equivalent and junior/senior classification.

**MGMT 3103. Principles of Management.** (3-0) Credit 3 semester hours. Fundamentals of organization and administration. Planning, organizing, directing, coordinating, and controlling business activities. Goal setting; models for thinking about organizations; organizational design; information systems; models for understanding individual behavior; job performance and job satisfaction; motivation and leadership; behavior in work groups and careers in business. Prerequisite: MGMT 1013, ENGL 1133 and junior/senior classification.

**MGMT 3113. Introduction to Organizational Behavior.** (3-0) Credit 3 semester hours. Considers elements of several management theories and the implications of individual and group behavior for organizational effectiveness. Topics include perception; learning;

personality; group dynamics; norms; inter-group relations; motivation; conflict and change. Prerequisite: MGMT 3103 and junior/senior classification.

**MGMT 3333. Entrepreneurship and Small Business Management.** (3-0) Credit 3 semester hours. This course provides students with an opportunity to apply business knowledge and skills through experiential learning. As the capstone course in the Certification in Entrepreneurship program, its emphasis is placed on starting, financing, operating, and growing a small business. Prerequisite: MGMT 2013 for non-business majors; FINA 3103 and MRKT 3103 for business majors and junior/senior classification.

**MGMT 3343. Project Management.** (3-0) Credit 3 semester hours. Application of management processes to complex interdisciplinary organizational environments through the study of program and project management. Uses typical project management microcomputer software for project planning; resource allocation; project budgeting; and control of project cost, schedule and performance. Prerequisite: MGMT 3013, 3103 and junior/senior classification.

**MGMT 3353. Human Resource Management.** (3-0) Credit 3 semester hours. Systematic approach to human resource utilization. Topics include selection, training, promotion, compensation, labor relations, workplace dysfunctions, management of change and human resource accounting. Prerequisite: MGMT 3103 and junior/senior classification.

**MGMT 3363. Industrial Relations.** (3-0) Credit 3 semester hours. A study of the philosophical, strategic, and behavioral aspects of labor-management relations, union contract negotiation and administration within the private and public sectors. Prerequisite: MGMT 3103 and junior/senior classification.

**MGMT 3393. Cooperative Education II.** (0-0) Credit 1 or 3 semester hours. Cooperative program in approved private and public business organizations engaged in planning, organizing, activating and controlling functions in producing and distributing goods and services. Written reports indicating student's work experience are required. Prerequisite: 60 hours of college-level coursework, MGMT 3103.

**MGMT 4303. Strategic Management and Business Policy.** (3-0) Credit 3 semester hours. A capstone course to acquaint the student with strategic management and business policy. Focuses on management of the entire business. Uses the concepts, skills and tools of the entire business curriculum to develop in-depth situational appraisals and specific recommendations regarding strategies and their implementation and control. Prerequisite: MGMT 3103, MRKT 3103, FINA 3103, and senior classification.

**MGMT 4313. Business and Society.** (3-0) Credit 3 semester hours. A survey of the critical current issues in business and their relationship to government and the larger society. Ethical guidelines and principles are examined and the traditional and contemporary views of the business community toward its general environment are surveyed. Prerequisite: MGMT 3103 and junior/senior classification.



**MGMT 4333. Production and Operations Management.** (3-0) Credit 3 semester hours. Major functions, departmental activities and policies for manufacturing firms and service organizations. Organization for production and analysis of production methods. Prerequisite: MGMT 3013 and MGMT 3103 and junior/senior classification.

**MGMT 4383. Management Seminar.** (3-0) Credit 3 semester hours. Directed study of selected problems in the area of management which requires a multidisciplinary approach and analysis. Prerequisite: MGMT 3013, 3103, and junior/senior classification.

**MGMT 4393. Cooperative Education III.** (0-0) Credit 1 or 3 semester hours. Cooperative program in approved private and public business organizations engaged in planning, organizing, activating and controlling functions in producing and distributing goods and services. Written reports indicative of student's work experience are required. Prerequisite: 90 hours college-level work.

**MGMT 4413. International Environment of Business.** (3-0) Credit 3 semester hours. Analyzes the cultural, political, legal, and geographical environments in which international businesses operate as well as various managerial activities appropriate for an international organization. Topics include multinational enterprises, global competition, managing political risks and negotiations, international laws, U.S. trade policies, strategies for U.S. firms, expatriation and repatriation and challenges for U.S. firms, etc. Prerequisite: MKTG 3103; MGMT 3103; ECON 2113 and ECON 2123 and junior/senior classification.

**MGMT 4423. Management Methods.** (3-0) Credit 3 semester hours. Application of management concepts and analytical tools to scenario-based business situations likely to be encountered by newly-hired graduates. Strong emphasis is placed on methods for developing operational solutions that can be implemented in the typical workplace. Prerequisite: MGMT 3103 and MGMT 3013 and junior/senior classification.

**MGMT 4993. Independent Study.** (3-0) Credit 3 semester hours. Reading, research, and/or field work on selected topics. Prerequisite: junior/senior classification and consent of instructor and department head.

**MISY 1013. Introduction to Computer Information Systems.** (3-0) Credit 3 semester hours. An introduction to the role, concepts and terminology of microcomputers. Experience using current word processing, spreadsheet and database management software packages in a Windows environment. Use of Internet tools to search and access information related to business applications. \*\*(BCIS 1301)

**MISY 2013. Fundamentals of MIS.** (3-0) Credit 3 semester hours. The course provides a solid foundation in MIS concepts and theory and gives exposure to current technologies being used in business today. The emphasis is on understanding how information systems are used by managers and professionals to improve organizational performance, teamwork, and productivity. Topics covered include telecommunication, networking,

enterprise systems, IT security, and emerging technologies. Prerequisite: MISY 1013 or equivalent.

**MISY 2123. Information Systems Applications.** (3-0) Credit 3 semester hours. An extension of MISY 1013. Includes case-based problems and management decision-making drills with alternative computer-based solutions structure. Extensive applications of contemporary microcomputer software packages to solve problems in functional areas of business. Recommended as an elective course for non-MISY majors. Prerequisite: MISY 1013. \*(BCIS 1401)

**MISY 2153. VB Net Applications in Business.** (3-0) Credit 3 semester hours. Covers the fundamental concepts of programming using Visual Basic (VB) language as they apply to real world business problems. Exposes students to the VB.Net programming environment and emphasizes hands-on practice. Prerequisite: MISY 2013.

**MISY 3323. Data Communication.** (3-0) Credit 3 semester hours. Covers topics and issues including data communication, transmission facilities and devices, encoding and processing, transmission errors, multiplexing and line control procedures, communication circuits, network architecture and design, and communication protocols. Prerequisite: MISY 2013 and junior/senior classification.

**MISY 3393. Information Systems Internship I.** (0-0) Credit 3 semester hours. Supervised full-time training in industry, government or other agencies for junior-level information systems majors. Individual conferences, company performance evaluations and written reports required. The duration of the program will be one regular semester or two consecutive summer terms. Prerequisite: Junior classification and 9 semester hours of information systems courses or approval of department head.

**MISY 3413. Business Database Applications.** (3-0) Credit 3 semester hours. The course provides a solid foundation in Study of database concepts and design as they apply in business. It covers principles of conceptual as well as relational designs and includes translation of business requirements into entity relationship diagrams, normalization of tables and advanced SQL to address specific business problems. Prerequisite: MISY 2013 and junior/senior classification.

**MISY 3423. Information Systems Analysis and Design.** (3-0) Credit 3 semester hours. Focuses on project management . Study of methods, project scheduling and control techniques, and formal presentations and group dynamics. Emphasizes the tools involved in information systems analysis and design in organizations with exposure to traditional methodologies like system development of a computer application through the life cycle methodology as well as alternative methodologies like object-oriented and agile methodologies; hands-on experience of systems analysis and design provided. Prerequisite: MISY 2013 and junior/senior classification.

**MISY 3433. JAVA Applications in Business.** (3-0) Credit 3 semester hours. The course covers the fundamental concepts of object-oriented programming (OOP) using Java language and emphasizes basic programming skills using hands-on practices. Intensive

exploration of Java programming environment. Prerequisite: MISY 2153 and junior/senior classification.

**MISY 4393. Information Systems Internship II.** (0-0) Credit 3 semester hours. Supervised full-time training in industry, government or other agencies for senior level information systems majors. Individual conferences, company performance evaluations and written reports required. The duration of the program will be one regular semester or two consecutive summer terms. Prerequisite: Senior classification and 12 semester hours of information system courses or approval of department head.

**MISY 4413. E-Commerce.** (3-0) Credit 3 semester hours. The course provides technological as well as strategic and managerial aspects of electronic commerce systems. Topics covered include the use of hardware, software, architecture, payment mechanism, data security, and client and server side scripting in electronic commerce systems. Prerequisite: MISY 3323, MISY 3413 and junior/senior classification.

**MISY 4433. Advanced JAVA Programming & Applications.** (3-0) Credit 3 semester hours. Covers advanced topics of Java programming and emphasizes the hands-on practice of Java applications. Students will be expected to explore Java programming environment intensively and develop adequate Java programming skills particularly in relation to graphical user interface, multimedia, and networking applications. Prerequisite: MISY 3433.

**MISY 4453. Special Topics in MIS.** (3-0) Credit 3 semester hours. The course provides a forum to bring in current issues in the MIS area such as information security, data mining, mobile/wireless technology and IT project management. Topics may vary from semester to semester and course can be repeated. Prerequisite: MISY 3323, MISY 3413, MISY 3423 and junior/senior classification.

**MISY 4523. Strategic Management of IT.** (3-0) Credit 3 semester hours. The course provides strategic management concepts underlying the implementation of information technology (IT) in business. It covers pertinent IT issues such as the analysis of the strategic impact of IT, management of IT security and outsourcing, and development of connectivity infrastructure in the networked organization. The course integrates important issues covered in other MIS courses. Prerequisite: MISY 3323, MISY 3413 and MISY 3423.

**MISY 4993. Independent Study.** (0-0) Credit 3 semester hours. Reading, research, and/or field work on selected topics. Prerequisite: Junior/senior classification and consent of instructor and department head.

**MRKT 3103. Principles of Marketing.** (3-0) Credit 3 semester hours. A study of the importance of marketing in the American economy. An intensive examination of basic marketing variables (product, place, promotion and price) from the viewpoint of management. Prerequisite: MGMT 1013.

**MRKT 3313. Retail Management.** (3-0) Credit 3 semester hours. The nature and functions of retail outlets in the marketing structure are studied. Managerial policies and methods of providing goods and services to the ultimate consumer are also studied. Prerequisite: MRKT 3103.

**MRKT 3323. Salesmanship.** (3-0) Credit 3 semester hours. Concepts of effective selling including selection of sales staff and their training, management and evaluation, are studied. The basic steps in the selling process are stressed. Prerequisite: MRKT 3103.

**MRKT 3333. Consumer Behavior.** (3-0) Credit 3 semester hours. An analysis of the processes underlying the purchasing behavior of consumers and the major influences on consumer behavior, including culture, attitudes, and reference groups. Prerequisite: MRKT 3103, PSYC 1113.

**MRKT 4333. Advertising.** (3-0) Credit 3 semester hours. Fundamentals of the communication process in mass promotion (planning, creating the message, media selection, implementation, and measuring the results). Prerequisite: MRKT 3103, Senior Classification.

**MRKT 4343. Marketing Research.** (3-0) Credit 3 semester hours. Application of the scientific method to the process of obtaining information for structuring marketing strategies and tactics. Emphasis is placed on the role of research in the solution of marketing problems. Prerequisite: MRKT 3103, MGMT 3013.

**MRKT 4353. International Marketing.** (3-0) Credit 3 semester hours. International marketing opportunities and principles. Marketing tools as a means of adapting the individual domestic business line and its marketing methods to the international environment. Prerequisite: MRKT 3103.

**MRKT 4373. Sales Management.** (3-0) Credit 3 semester hours. A study of sales management through the use of analytical and problem-solving skills. Managerial responsibilities such as sales force production, sales planning, training of sales staff, sales compensation, establishing territories and controls are covered. Prerequisite: MRKT 3103.

**MRKT 4393. Marketing Communications.** (3-0) Credit 3 semester hours. An examination of the major elements of promotion including advertising, personal selling, publicity, sales promotion, and the development of an integrated marketing communications plan. Prerequisite: MRKT 3103 and MRKT 3333.

**MRKT 4413. Distribution Management.** (3-0) Credit 3 semester hours. An analysis of the policies, decisions and planning related to the distribution of goods and services for consumer and industrial sectors. Covers concepts related to physical distribution and marketing channels. Prerequisite: MRKT 3103 and senior classification.

**MRKT 4423. Fundamentals of E-Marketing.** (3-0) Credit 3 semester hours. Focuses on key marketing issues in E-commerce via the Internet. Explores concepts of customer

relationship management, online communities, and web brand development. Prerequisite: MRKT 3103 and MISY 2013.

**MRKT 4493. Marketing Strategy and Analysis.** (3-0) Credit 3 semester hours. Capstone course for marketing majors that should be taken in the last semester. The course utilizes projects and problems designed to develop marketing strategies. Emphasizes the dynamics of three major foci: customer, competition, and capabilities of the organization. Prerequisite: MRKT 3103, MRKT 3333, six additional hours in Marketing, and senior classification.

## **Whitlowe R. Green College of Education**

**CUIN 4416. Student Teaching/Elementary II.** (6-0) Credit 6 semester hours. Supervised practicum experiences in a field setting devoted to elementary education classroom instruction. Required of students seeking only teacher certification in elementary education. Prerequisite: Admission to Student Teaching.

**CUIN 4433. Student Teaching/Early Childhood Education.** (3-0) Credit 3 semester hours. Supervised practicum experiences in a field setting devoted to early childhood classroom instruction. Prerequisite: Admission to Student Teaching.

**CUIN 4443. Student Teaching/Special Education.** (3-0) Credit 3 semester hours. Supervised practicum experiences in a field setting devoted to special education classroom instruction. Prerequisite: Admission to Student Teaching.

**CUIN 4813. Student Teaching Secondary - All Level.** (3-0) Credit 3 semester hours. Supervised practicum experiences in a field setting devoted to secondary education. Required of students seeking All-Level certification. Prerequisite: Admission to Student Teaching.

**CUIN 4826. Student Teaching Secondary II.** (6-0) Credit 3 semester hours. Supervised practicum experiences in a field setting devoted to secondary education classroom instruction. Required of students seeking only one teacher certification in secondary education. Prerequisite: Admission to Student Teaching.

**CURR 1013. Principles of Effective Learning.** (3-0) Credit 3 semester hours. The course content is divided into a four-part model (the Effective Learning Model) consisting of self-assessment, cognitive theories, self-regulation, and strategies for self-change. Each part overlaps the other to form a strong framework to foster students' understanding of the learning process and to help students maximize their learning potential.

**ECED 3003. Introduction to Early Childhood.** (3-0) Credit 3 semester hours. Historical, philosophical, and social foundations of early childhood years to include: understanding the principles of underlying social and emotional developments of the young child and the nature of the learner. Observation is included.

**ECED 3013. Health/Motor/Physical Development.** (3-0) Credit 3 semester hours. Fundamentals of health/motor/physical stages and characteristics of development in early childhood with emphasis on health problems common during early childhood; health and safety practices for young children; includes special needs related to young children.

**ECED 4003. Communication and Language Development.** (3-0) Credit 3 semester hours. An overview of theories related to language development and communication usage to demonstrate diverse patterns of verbal and nonverbal communication in the development of the young child. Prerequisites: ECED 3003 or permission of ECED Coordinator.

**ECED 4013. Young Child/Cognitive Development.** (3-0) Credit 3 semester hours. An examination of theories and models in the development of cognition to include stages of development and their characteristics; special needs related to cognition and implications for young children. Prerequisites: ECED 3003, HUSC 3373 or permission of ECED Coordinator.

**ECED 4023. Program Organization.** (3-0) Credit 3 semester hours. A survey of programs for young children to include criteria for the selection and evaluation of the physical environmental needs of children; emphasis will be placed on legislation and public policy as it affects the school, children and their families. Prerequisites: ECED 3003 through ECED 4013 and HUSC 3373 or permission of ECED Coordinator.

**ECED 4113. Instructional Strategies.** (3-0) Credit 3 semester hours. A study of instructional strategies for teaching content to include methodology, setting goals/objectives, evaluating, and creating a conducive learning environment. Emphasis will be placed on alternative instructional strategies and procedures. (15 clock hours of simulated and practical experiences included). Prerequisites: completion of all requirements and permission of ECED Coordinator.

**ECED 4123. Clinical Experiences.** (3-0) Credit 3 semester hours. Field-based experiences involving young children in a classroom setting to include 45 clock hours of classroom observation, recording behavior, planning activities, providing for individual needs, working with other professionals, understanding conference techniques, and professional ethics. Complete all prerequisites: Prerequisites: completion of all requirements and permission of ECED Coordinator.

**HLTH 1023. Human Sexuality.** (3-0) Credit 3 semester hours. Examination of the foundations and characteristics of the American family; factors involved in learning sex roles, biological and emotional motivations, preparation for marriage, family planning, and parental roles.

**HLTH 1053. Health and Wellness.**

**HLTH 1063. Environmental Health.** (3-0) Credit 3 semester hours. Health aspects of environment, including health problems related to water, air, and noise pollution, pesticides, population, and radiation.

**HLTH 2003. Personal Health and Wellness.** (3-0) Credit 3 semester hours. Study of the personal health concepts with emphasis on body systems, emotional health, drug use and abuse, disease, nutrition, and family and community health. Theory and practice in developing, implementing and evaluating philosophies of wellness programs.

**HLTH 2023. Communicable and Noncommunicable Diseases.** (3-0) Credit 3 semester hours. Nature, prevention, control, and treatment of communicable, chronic,

degenerative, and idiopathic human disease, with principles related to causality of disease and to the body's ability to resist.

**HLTH 2033. Aging, Death and Dying.** (3-0) Credit 3 semester hours. Examination of the aging process and health problems of the elderly; differing perceptions of death; dimensions of death and dying; euthanasia; and grief and mourning.

**HLTH 3003. Health Education for the Elementary School.** (3-0) Credit 3 semester hours. Fundamentals of health including health problems, interests, school health appraisal, and promotion of a healthful environment. Emphasis on health agencies and organizations on the local, state, and national levels.

**HLTH 3013. Nutrition.** (3-0) Credit 3 semester hours. Basic scientific information on nutrition and on its relationship to the biological needs of humans. An analysis and review of the selection and quality of nutrients essential to growth, development, and efficiency.

**HLTH 3033. Research and Contemporary Issues in Health.** (3-0) Credit 3 semester hours. Scientific examination of current health concepts. Emphasis on those curricular and evaluative concepts necessary for selecting, appraising, utilizing and analyzing health related materials, resources, and instruments

**HLTH 3043. Consumer Health.** (3-0) Credit 3 semester hours. Investigation and analysis of consumer health problems, with emphasis on the function, organization, and administration of public health services at the local, state, regional and national levels.

**HLTH 3053. Public and Community Health.** (3-0) Credit 3 semester hours. Focus on the aspects of the community that relate to health; identification and analysis of community health programs; organizational patterns and functions of voluntary and governmental health agencies; organizing the community for health action; and coordination of school and community health programs.

**HLTH 3093. Drugs and Health.** (3-0) Credit 3 semester hours. Focus on substances that modify human behavior and emotions; the nature of drugs; historical and contemporary use; drug abuse; social implications; development and implementation of drug programs; and legislative implications.

**HLTH 4063. Health and Communities.** (3-0) Credit 3 semester hours. Principles of community health education as a foundation for subsequent consideration of health issues and problems of populations. In-depth focus on assessment and analysis of specific health problems in defined population of client organizations, institutions, and/or community members. Prerequisites: Junior standing and consent from Department Head for non-majors.

**HLTH 4073. Community Health Planning and Assessment.** (3-0) Credit 3 semester hours. Examines the relationship of community health planning and assessment to health education in both urban and rural communities. Emphasizes theory processes and



methods applicable to the health care services delivery system. Prerequisites: Junior standing and consent from Department Head for non-majors.

**HLTH 4083. Problem Solving and Evaluation for Community Health Programs (3-0)** Credit 3 semester hours. Evaluation of psycho-social-cultural health problems and influences on human behavior and health education strategies and outcome measurement. Prerequisites: Junior standing and consent from Department Head for non-majors.

**HLTH 4991. Independent Study.** (0-0) Credit 1 semester hour. Reading, research, and/or field work on selected topics. Prerequisite: Consent of advisor.

**HLTH 4993. Independent Study.** (0-0) Credit 1, 2, or 3 semester hours. Readings, research, and/or field work on selected topics. Prerequisite: Consent from advisor.

**HUPF 1011-1411. Human Performance Activity Courses in Sports, Aquatics, Dance, Fitness, and Personal Defense.** (0-2) Credit 1 semester hour. Instruction is offered at beginning levels of skills with emphasis on the development of total fitness and recreational skills for leisure time. All classes are coeducational.

- 1011 Swimming I
- 1031 Modern Dance I
- 1041 Folk and Ballroom Dance I
- 1051 Tap Dance I
- 1061 Gymnastics
- 1081 Golf I
- 1091 Badminton I
- 1101 Basketball and Volleyball I
- 1111 Flag and Touch Football I
- 1121 Conditioning and Self Analysis
- 1131 Physical Fitness
- 1141 Personal Defense Activities
- 1151 Low Organized Games
- 1161 Softball, Track and Field I
- 1171 Modern Jazz I
- 1181 Soccer and Field Hockey
- 1191 Ballet I
- 1211 Aerobic Activities
- 1221 Jogging and Track and Field Activities
- 1231 Bowling I
- 1241 Racquetball
- 1251 Wrestling I
- 1261 Body Mechanics and Rhythmic Activities
- 1271 Cycling
- 1281 Tennis I
- 1291 Archery I
- 1301 Weight Training
- 1321 Swimming II \*

1401     Restricted Movement

1411     Restricted Movement

\*Student may enroll without Swimming I as a prerequisite if the student can demonstrate that he/she can swim.

**HUPF 1012. Sports Skills I.** (2-0) Credit 2 semester hours. Theory and application of fundamental skills in flag and touch football, soccer, wrestling and gymnastics I.

**HUPF 1082. Fundamentals of Basic Movement.** (1-2) Credit 2 semester hours. Theory and practice in movement improvisation, exploration, and rhythmic exercising methods, and fundamentals of presenting creative and rhythmic activities to elementary age children.

**HUPF 1112. Sports Skills II.** (2-0) Credit 2 semester hours. Emphasis given to theory and application skills for fundamentals in badminton, bowling, tennis, and racquetball.

**HUPF 1172. Foundations I.** (2-0) Credit 2 semester hours. Foundations of health and human performance. Areas of concentration will focus on history and philosophy, developmental stages, movement- related experiences and career development in health and human performance.

**HUPF 1272. Foundations II** (2-0) Credit 2 semester hours. Areas of concentration will focus on current health and human performance programs, physical fitness, and conditioning and self analysis.

**HUPF 1312. Sports Skills III.** (2-0) Credit 2 semester hours. Emphasis given to theory and application skills for fundamentals in physical fitness, conditioning and self-analysis, archery, and softball.

**HUPF 1401. Restricted Performance Activities.** (0-2) Credit 1 semester hour. (Adapted to individual need and capacity.) Theory and practice of body mechanics, and techniques of relaxation; also quiet games, walking, calisthenics, and health films. Written recommendation of a physician is required.

**HUPF 1411. Restricted Performance Activities.** (0-2) Credit 1 semester hour. (Adapted to individual need and capacity.) Theory and practice of forming habits for good posture; also table tennis, rope jumping, goal shooting, walking and calisthenics. Prerequisite: HUPF 1401. Written recommendation of a physician is required.

**HUPF 1412. Sports Skills IV.** (2-0) Credit 2 semester hours. Emphasis given to theory and application skills for fundamentals in aerobics, body mechanics, folk and ballroom dance, and modern dance.

**HUPF 2011-4431. Human Performance Activity Courses in Sports, Dance, and Aquatics.** (0-2) Credit 1 semester hour. Designed for the student with intermediate

and/or advanced levels of skills; emphasis is on the development of total fitness and recreational skills for leisure time. All classes are coeducational.

2011	Modern Dance II
2021	Tap Dance II
2031	Gymnastics II
2041	Badminton and Tennis II
2051	Basketball and Volleyball II
2061	Folk and Ballroom Dance II
2071	Modern Jazz II
2081	Golf and Archery II
2091	Swimming III
2101	Advanced Basketball
2111	Advanced Volleyball
2121	Competitive Swimming
2131	Softball, Track, and Field II
2141	Flag Football and Track II
2151	Ballet II
3421	Restricted Movement
4431	Restricted Movement

**HUPF 2022. Fundamentals of Dance.** (1-2) Credit 2 semester hours. Application of theory and fundamental skills in dance.

**HUPF 2023. First Aid, Safety, and CPR.** (3-0) Credit 3 semester hours. Certification program (The American Red Cross) for emergency care procedures for illness, injuries, and cardiopulmonary resuscitation.

**HUPF 2032. Life Saving.** (1-2) Credit 2 semester hours. Demonstration and practice in the fundamentals of life saving; opportunity for completion of requirements for the American Red Cross Senior Life Saving Certificate. Prerequisite: Proficiency in five basic strokes (front and back crawls; elementary back, side and breast strokes) or permission from the instructor.

**HUPF 2043. Coaching Individual and Dual Sports.** (3-0) Credit 3 semester hours. Designed for majors with intermediate and advanced skills; deals with strategy, rules, and court layouts, with special emphasis on fundamentals and materials for individual and dual sports. Prerequisites: HUPF 1091, 1101, 1281 and 1291.

**HUPF 2052. Theory and Practice of Intramural Sports.** (1-2) Credit 2 semester hours. Theory and practice in organizing and conducting tournaments, meets, and field days.

**HUPF 2053. Recreation for the Aged.** (3-0) Credit 3 semester hours. A study of the nature, scope, and significance of leisure and recreation. Emphasis is placed on methods and materials for planning, organizing, and conducting social activities for the aged in a variety of social situations.

**HUPF 2063. Outdoor Performance Activities.** (3-0) Credit 3 semester hours. Introduction to outdoor activities with emphasis on principles and purposes; skills and activities for individual and group activities; practices and skills of low and high intensity levels.

**HUPF 3012. Water Safety Instruction.** (1-2) Credit 2 semester hours. Swimming and lifesaving skills required for water safety instruction. Opportunity for completion of requirements for the American Red Cross Water Safety Instructor's Certificate. Prerequisite: Current Red Cross Senior Life Saving Certificate.

**HUPF 3023. Applied Anatomy and Kinesiology.** (3-0) Credit 3 semester hours. A scientific study of the muscles and human movement. Prerequisites: BIOL 1054, 1064 or equivalent; HUPF 1082 or equivalent.

**HUPF 3033. Movement Activities for Elementary Children.** (3-0) Credit 3 semester hours. Theory of human performance for young children; classroom demonstration and field laboratory assignments. Emphasis is placed on stages of development and gross motor skills. Prerequisites: HUPF 1151 and 1261.

**HUPF 3053. Theory and Practice of Officiating.** (3-0) Credit 3 semester hours. Treats the theory and practice of officiating selected sports; emphasis on rules, mechanics, and officiating individual, dual and team sports. Prerequisites: HUPF 2043, 3063.

**HUPF 3063. Theory and Practice of Coaching I.** (3-0) Credit 3 semester hours. Theory and strategy of coaching football, basketball, and volleyball. Prerequisites: HUPF 1101 and 1111.

**HUPF 3083. Theory and Practice of Coaching II.** (3-0) Credit 3 semester hours. Theory and strategy of coaching baseball/softball, track and field, and soccer. Prerequisites: HUPF 1161, 1181, and 1221.

**HUPF 3421. Restricted Performance Activities.** (0-2) Credit 1 semester hour. (Adapted to individual need and capacity.) Theory and practice of physical fitness techniques; also shuffleboard, horse shoes, dance, volleyball, health and safety films, walking and calisthenics. Prerequisite: HUPF 1411. Written recommendation of a physician is required.

**HUPF 4032. Advanced Athletic Injuries.** (2-0) Credit 2 semester hours. This course provides the student athletic trainer with knowledge of clinical techniques, rules and regulations governing licensure and certification. Emphasis will be given to application techniques and therapeutic modalities.

**HUPF 4033. Measurement and Evaluation.** (3-0) Credit 3 semester hours. A study of various kinds of tests and test usage in the field of health and human performance includes practical experience in the construction and administration of tests and in the use

of elementary statistics to interpret test scores. Prerequisites: 12 hours of advanced Human Performance.

**HUPF 4042. Athletic Injuries and CPR.** (1-2) Credit 2 semester hours. Theory and practice of prevention and treatment of athletic injuries; laboratory experience in techniques of massaging and bandaging; emergency care procedures for cardiopulmonary resuscitation.

**HUPF 4053. Special Topics in Health and Human Performance.** (3-0) Credit 3 semester hours. Detailed study of selected topics and activities. Class meets once per week. Consent of the instructor and department head. Cross listed with HLTH 4053. Prerequisite: 12 hours of advanced Human Performance.

**HUPF 4062. Correctives.** (1-2) Credit 2 semester hours. A study of the general organization of programs of therapeutic exercise, recreational sports, and aquatic skills for use in correctional procedures; evaluation and classification of exercises; practice in planning and presenting activities for special programs. Prerequisite: 9 hours of Human Performance.

**HUPF 4073. Research and Contemporary Issues in Human Performance.** (3-0) Credit 3 semester hours. Scientific examination of current human movement concepts. Emphasis on curricular and evaluative concepts designed to assist the student in selecting, appraising, utilizing and analyzing movement related materials, resources, and instruments. Prerequisite: 12 hours of advanced Human Performance.

**HUPF 4083. Administrative Management of Human Performance Programs.** (3-0) Credit 3 semester hours. Principles and fundamentals in the organization, administration and supervision of the health, human performance, intramural, and athletic programs. Prerequisite: 12 hours of advanced Human Performance.

**HUPF 4093. Practicum in Athletic Training.** (3-0) Credit 3 semester hours. Designed to acquaint the Athletic Trainer Intern, Pre-Physical Therapist, and Sports Certified Specialist with the principles of application for an orthopedic examination of the joints and muscles. A hands-on clinical approach to physical assessment and rehabilitations techniques involving basic theories and principles as they relate to applied human anatomy.

**HUPF 4196. Internship in Health and Human Performance.** (6-0) Credit 6 semester hours. Supervised study and practice in community, recreation, sports, fitness and rehabilitation centers, hospitals, clinics and other approved agencies, organizations and institutions. Prerequisites: Senior standing, recommendation from advisor and approval from the Department Head.

**HUPF 4431. Restricted Performance Activities.** (0-2) Credit 1 semester hour. (Adapted to individual need and capacity.) Theory and practice of adaptive corrective exercises;

also archery, badminton, arts and crafts, musical games, calisthenics, and isometric exercises. Prerequisite: HUPF 3421. Written recommendation of a physician is required.

**HUPF 4991-4992-4993. Independent Study.** (0-0) Credit 1, 2 or 3 semester hours. Readings, research, and/or field work on selected topics. Prerequisite: consent from advisor.

**RDNG 3603. Evaluation of Reading Performance.** (3-0) Credit 3 semester hours. Application of basic measurement and evaluation techniques to reading performance.

**RDNG 3613. Language Arts in the Elementary School.** (3-0) Credit 3 semester hours. Highlights conditions necessary for children's best development in the language arts; materials and procedures for improving the quality of instruction. This course will emphasize oral and handwritten expression, listening, spelling, and handwriting.

**RDNG 3623. Linguistics in Reading Instruction.** (3-0) Credit 3 semester hours. A study of the relationships between language dialect, linguistics phonics, and reading. Applications of linguistics to reading.

**RDNG 3633. Readings: Social Studies.** (3-0) Credit 3 semester hours. Readings in social living which emphasize democratic values and processes, organization of subject matter, and development of materials. The purpose of the course is to develop a continuous process in appraising the child's learning in terms of social experiences.

**RDNG 3643. Methods of Teaching Elementary Reading.** (3-0) Credit 3 semester hours. Analysis of various approaches and methods used in teaching reading in the elementary grades.

**RDNG 3653. Readings: Science.** (3-0) Credit 3 semester hours. Readings of basic science concepts, the scientific method, methods of teaching science, selecting and organizing science subject matter, providing a variety of science experiences appropriate for children that use materials, community resources, and visual materials.

**RDNG 4633. Developmental Reading.** (3-0) Credit 3 semester hours. Strategies for sequential skills development in basic reading instruction to emphasize identification of reading levels, and auditory and visual diagnosis.

**RDNG 4643. Children's Literature.** (3-0) Credit 3 semester hours. The reading and evaluation of children's literature to include information about children's books, to develop children's interests in reading, authors, illustrators, and to solve problems in guidance of reading.

**RDNG 4653. Foundations of Reading Instruction.** (3-0) Credit 3 semester hours. Stages in the development of reading ability. Emphasis of readiness, experiential backgrounds, individual needs and interests and enrichment.

**RDNG 4673. Clinical and Laboratory Experiences in Reading.** (3-0) Credit 3 semester hours. Preparation, review, and analysis of case studies, research reports, trends, and issues in the teaching of reading.

**SPED 3003. Introduction to Exceptional Children.** (3-0) Credit 3 semester hours. Basic theories and concepts related to identification and classification of exceptional children and youth. Prerequisite: Junior status.

**SPED 3013. Psychology of Retardation.** (3-0) Credit 3 semester hours. An introduction to the psychology of mental retardation in children and youth. Prerequisite: SPED 3003 or enrolled concurrently.

**SPED 4003. Psychology of Behavior Disorders.** (3-0) Credit 3 semester hours. Various theoretical aspects of the behavior of children with server disturbance to mild emotional problems. Prerequisites: SPED 3003 and SPED 3013.

**SPED 4013. Language and Communication Problems.** (3-0) Credit 3 semester hours. An overview of particular communication problems as they relate to the oral language skills of the exceptional learner. Prerequisite: SPED 3003 and SPED 3013.

**SPED 4023. Psychometrics for Exceptional Children and Youth.** (3-0) Credit 3 semester hours. Legal implications of the assessment of children exhibiting the characteristics of behavior disorders, learning disabilities, and/or mental retardation. Prerequisites: SPED 3003 through SPED 4013.

**SPED 4033. Consultation.** (3-0) Credit 3 semester hours. Models of consultation; interpersonal communication skills; problem-solving approaches; effective interaction with colleagues, paraprofessionals, and parents; transitional mandates; and planning/conducting in-service training for professionals. Prerequisites: SPED 3003 through SPED 4023.

**SPED 4113. Methods for Teaching Exceptional Children.** (3-0) Credit 3 semester hours. Study of instructional problems teaching retarded, behavioral, and/or learning-disabled children and youth; organization of special classes; and curriculum adaptations. Includes 15 clock hours of field-based experiences with exceptional learners. Prerequisite: permission of SPED Coordinator.

**SPED 4123. Practicum.** (3-0) Credit 3 semester hours. Field-based experiences involving exceptional learners in classroom activities. Activities include 15 clock hours of classroom observation, concepts and skills associated with referrals of classroom problems, tests and evaluation procedures. Prerequisites: SPED 3003 through SPED 4033. SPED 4123 must be taken concurrently with SPED 4113.

**VOED 4103. Development, Organization and Use of Instructional Materials.** (3-0) Credit 3 semester hours. Preparation of lesson plans and instructional sheets according to approved formats and designs. Study of available instructional materials and their

adaptations: sources of materials and teaching aids; and organization of instructional materials for maximum effective use in teaching.

**VOED 4203. Instructional Methods.** (3-0) Credit 3 semester hours. Brief review of how people learn. Evaluation of various teaching methods and adaptation of instructional methods to various types of lessons for effective instruction. Includes analysis for lesson content, preparation of lesson plans, and student presentation of various types of lessons.

**VOED 4303. Shop Organization and Classroom Management.** (3-0) Credit 3 semester hours. A study of organizing classroom and training laboratories for efficient instruction and class management. Covers grading, keeping records, taking inventory, purchasing supplies, equipment specifications, equipment installation, climatic conditions, lighting, safety, and accident prevention.

**VOED 4403. Occupational Analysis and Course-making.** (3-0) Credit 3 semester hours. A study of analysis techniques and guidelines. Includes analysis for individual occupations, review of systems analysis and organizing, preparing, and assembling courses.

**VOED 4603. Aims and Objectives of Vocational Education.** (3-0) Credit 3 semester hours. Study of the goals and outcomes of vocational and career education. Considers the history and aims of administration of vocational and career education; federal structure for administration of vocational education; and economic, social and educational values of vocational education.

**VOED 4803. Human Relations.** (3-0) Credit 3 semester hours. The study of personal relationships, drives and motivations, and interdependence of people in a democratic society. Considers the positive ideals of youth and adults. Examines qualities of leadership; principles of interests; principles involved in teaching ideals; behavioral problems; factors behind good human relations; and group dynamics.



## **Roy G. Perry College of Engineering**

**CHEG 1011. Introduction to Engineering, Computer Science and Technology.** (1-0) Credit 1 hour. Introduction to basic engineering, computer science and technology concepts. Students will become aware of the various disciplines of engineering, computer science and technology, ethical and professional responsibilities in these fields, creativity and design. Co-requisite CHEG 1021 or equivalent course determined by department.

**CHEG 1021. Introduction to Chemical Engineering Laboratory.** (0-1) Credit 1 hour. Introduction to the field of engineering, industries, careers, and the curriculum. Basic engineering terms, concepts, calculations problem solving skills, ethics, and computer applications. Co-requisite CHEG 1011 or equivalent course determined by department.

**CHEG 2003. Economic Analysis and Technical Applications.** (3-0) Credit 3 semester hours. Fundamental concepts of economic principles. Evaluation of technical alternatives, economic significance of technical proposals; interest, description, analysis, and forecasting. Prerequisites or co-requisites: MATH 1124.

**CHEG 2013. Materials Science.** (3-0) Credit 3 semester hours. Chemical bonding, atomic order and disorder, transport properties, single phase and multiphase materials, heat treatment, corrosion, and composites. Prerequisite: CHEM 1043 or 1034.

**CHEG 2043. Chemical Engineering Thermodynamics I.** (3-0) Credit 3 semester hours. Introduction to chemical engineering calculations. PVT properties of fluids, equations of state. First and second laws of thermodynamics. Applications to heat effects and flow processes. Prerequisites: CHEM 1043 or 1034; and PHYS 2513.

**CHEG 2053. Material and Energy Balances.** (3-0) Credit 3 semester hours. Application of the laws of conservation of mass and energy to reacting and non-reacting, simple and complex chemical systems. Application of both element and species balances to multiple reaction systems. Application of the degrees-of-freedom analysis to single process units and multi-unit process flow-sheets. Numerical solution techniques for the solution of balance equations. Prerequisites or co-requisites: CHEG 2043.

**CHEG 2153. Biochemical Engineering Fundamentals.** (3-0) Credit 3 semester hours. This course introduces biology fundamentals and associated subjects required for engineers to understand and design multidisciplinary technology in the complementary areas of biological sciences and engineering. To accommodate those who do not have the biological background, the course covers basic biological principles and engineering applications of general biology including: biochemistry, genetics, and physiology. Subsequently, special emphasis is placed on applying engineering concepts to biological problems. Pre-requisite: CHEM 1043 or 1034 and CHEM 2033.

**CHEG 2156. Chemical Engineering Internship I.** (0-0) Credit 6 semester hours. This course is an internship program of work experience with an approved engineering firm. Prerequisite: Consent of advisor.

**CHEG 3011. Chemical Engineering Laboratory I.** (0-3) Credit 1 semester hour. Quantitative experimental study of properties of fluids, fluid mechanics, metering, and heat transfer. Operation and evaluation of equipment, techniques of graphical and statistical data analysis. Strong emphasis is placed on safety, report writing and oral communication. CHEG 3013 Prerequisites: COMM 1003 and ENGL 1133 or 1143; junior or senior standing.

**CHEG 3013. Heat, Mass, and Momentum Transport.** (3-0) Credit 3 semester hours. Macroscopic and differential balances for heat, mass, and momentum. Energy balances and mechanical energy balances. Ideal Newtonian and non-Newtonian fluid behavior. Comparison of the transport processes in laminar and turbulent flow. Dimensional analysis. Prerequisites: CHEG 2053, MATH 2043.

**CHEG 3023. Unit Operations.** (3-0) Credit 3 semester hours. Application of transport theory to the design of equipment for the pumping and transfer of fluids through pipes, heat exchange, interphase transfer of heat and mass for the separation and purification of process streams. Prerequisites: CHEG 2053.

**CHEG 3043. Equilibrium Stage Separation Processes.** (3-0) Credit 3 semester hours. Applications of heat and mass balances and phase equilibria to the design of staged separation processes. Use of graphical methods such as McCabe Thiele and Ponchon Savarit for the treatment of binary systems. Application to distillation, absorption, stripping, and extraction. Prerequisites: CHEG 2053 and 3053.

**CHEG 3051. Professional Engineering I.** (0-3) Credit 1 semester hour. Fundamentals of engineering and related science subjects including biology, chemistry, computers, dynamics, electric circuits, engineering economics, ethics, fluid mechanics, materials science, mathematics, statics, dynamics, mechanics of materials, statistics, and thermodynamics. Passing a mock exam for “fundamentals of engineering” is a requirement of passing this course. Prerequisite: junior standing in engineering major. Course equivalents: CVEG 3051, MATH 2043, CHEG 2003, ELEG 3051 or COMP 1213, CVEG 2053 or 2454, ELEG 2023 or 2053, CHEG 2043 or MCEG 3051, CHEG 2013 or MCEG 2023 or ELEG 3033, and CHEG 3023 or CVEG 3063 or ELEG 3063 or MCEG 3063.

**CHEG 3053. Chemical Engineering Thermodynamics II.** (3-0) Credit 3 semester hours. Properties of ideal and non-ideal binary and multi-component mixtures. Study of phase equilibria for single- and multi-component systems based on methods of corresponding states, equation of states and activity coefficient. Chemical equilibria applied to both homogeneous and heterogeneous systems. Prerequisite: CHEG 2043 and MATH 2043. Pre-requisite or Co-requisite: CHEG 2053.

**CHEG 3063. Chemical Reaction Kinetics and Reactor Design.** (3-0) Credit 3 semester hours. Application of fundamental concepts of reaction stoichiometry, chemical and

biochemical kinetics, and equilibria to the interpretation of reaction rate data. Application of reaction rate and heat and mass transfer correlations to the design of batch reactors, continuous staged reactors, and tubular reactors. Prerequisites: MATH 2043 and, CHEG 2013 and 3053.

**CHEG 3113. Introduction to Energy Systems.** (3-0) Credit 3 semester hours. This course introduces fundamental physical and engineering principles associated with various energy systems. Basic energy concepts will be introduced describing the magnitudes and patterns of human energy needs. Historical evolution and present status of the conventional fossil and nuclear-fuelled energy will be investigated along with others such as hydropower, biofuels, and the developing renewable energy systems. Prerequisite: MATH 2024, PHYS 2523, and CHEM 1034 or equivalent.

**CHEG 3153 Introduction to Biotechnology.** (3-0) Credit 3 semester hours. This course introduces students of chemical engineering, biological sciences, and chemistry to biological concepts and nano-scale considerations in engineering applications. It provides training for effective communication, hands-on skills, and analytical tools needed to pursue careers in biological/biochemical, and biopharmaceutical process industries. Ties to relevant current research will be explored. Pre-requisite: Junior or senior standing in engineering, chemistry or biology, or consent of instructor. CHEG 2153 (or equivalent).

**CHEG 3156. Chemical Engineering Internship II.** (0-0) Credit 6 semester hours. This course is an internship program of work experience with an approved engineering firm. Prerequisite: Junior or senior standing and consent of advisor.

**CHEG 4011. Chemical Engineering Laboratory II.** (0-3) Credit 1 semester hour. Continuation of CHEG 3011, but directed to separation processes such as gas absorption, fractional distillation, extraction, and drying. Study of reaction rates and equilibria in simple chemical systems. Emphasis is placed upon experimental data required for the scale-up to commercial scale equipment. Prerequisites: CHEG 3023 and CHEG 3043; COMM 1003; and ENGL 1133 or 1143.

**CHEG 4031. Chemical Engineering Laboratory III.** (0-3) Credit 1 semester hour. Continuation of CHEG 4011, but with emphasis on reactive and control systems. Measurement of reaction conversion, determination of reaction order and rate in a tubular reactor. Analysis of the dynamic responses of stirred tanks in series. Experimental study of the use of analog and digital controller for heat exchanger and flow and level control systems. Co-requisite or prerequisite: CHEG 4033. Prerequisite: COMM 1003; and ENGL 1133 or 1143.

**CHEG 4033. Process Dynamics and Control.** (3-0) Credit 3 semester hours. Dynamic response and control of chemical process equipment such as reactors, heat exchangers, distillation columns. Use is made of fundamental techniques of servomechanism theory such as block diagrams, transfer functions, and frequency response; stability analysis and

control loop design. Unsteady state modeling and computer simulation of simple control systems. Prerequisites: CHEG 3063 and MATH 4173 or MATH 3685.

**CHEG 4043. Chemical Process Design and Analysis.** (3-0) Credit 3 semester hours. Use of material and energy balance calculations, thermodynamics, transfer operations, reaction kinetics and process economics for the synthesis and analysis of chemical processing systems. Design alternatives are analyzed by the use of case studies, computerized flow sheet modeling and simulation, and optimization methods. Safety and design codes are emphasized. Prerequisites: CHEG 3013, 3023, 3043, and 3063.

**CHEG 4103. Special Topics in Chemical Engineering.** (3-0) Credit 3 semester hours. This course presents selected current and emerging topics in chemical engineering depending on need as determined by the department faculty. Prerequisite: Consent of advisor.

**CHEG 4133. Process Modeling and Simulation.** (3-0) Credit 3 semester hours. Construction and solution of mathematical models of process units and integrated systems for computer simulation. Both steady and dynamic models will be developed. Students will make use of one or more of the commercial flow sheet simulation programs for the analysis of specific systems. Prerequisites: senior standing in any engineering major.

**CHEG 4153. Bioengineering.** (3-0) Credit 3 semester hours. Design and analysis of biochemical systems with applications in biomedical engineering and metabolic processes, enzyme catalyzed reactions and product separation, biomass production, and wastewater treatment. Emphasis is placed upon the application of biochemical systems structure, reaction kinetics, transport processes, and control in the design and use of biochemical reactors and separation units. Prerequisites: Senior standing in any engineering major.

**CHEG 4163. Engineering Optimization.** (3-0) Credit 3 semester hours. Optimization methodology, with a major focus on the techniques and stratagems relevant to engineering applications arising in design, operations and analysis, is emphasized. This includes linear, dynamic and nonlinear optimization techniques applied to engineering examples drawn from the chemical, industrial and mechanical engineering fields. Prerequisite: senior standing in any major engineering discipline.

**CHEG 4183. Design of Process Engineering Systems.** (3-0) Credit 3 semester hours. The course will stress the interdisciplinary nature of systems design and will include structural, hydraulic, process, utilities and control concepts. Development of one or more selected applications in optimal design of continuous and batch systems. Studies will involve the use of computer-aided design, cost estimation, engineering data bases, and project scheduling. Prerequisite: senior standing in any major engineering discipline.

**CHEG 4473. Senior Design and Professionalism I .** (1-4) Credit 3 semester hours. This is the first course of a two-semester capstone experience (CHEG 4483 must immediately follow CHEG 4473 or sequence must restart with CHEG 4473) involving engineering

design of an industrial or advanced team project. Elements of ethics and professionalism in engineering practice are integrated into the project experience. The project will include application of relevant engineering codes and standards, as well as realistic constraints. Design achievements are demonstrated with written reports and oral presentations. Prerequisite: CHEG 3013, 3023, 3043, and 3063. Course equivalents: CVEG 4473, ELEG 4473 or MCEG 4473.

**CHEG 4483. Senior Design and Professionalism II.** (1-4) Credit 3 semester hours. A continuation of CHEG 4473 with required design modifications of the team projects necessary to produce a working prototype of the designs initiated in Senior Design and Professionalism I. Design results are presented in a formal, final oral presentation as well as a final report. Professionalism elements reinforce the importance of professional ethics, corporate culture, life-long learning, and globalization. Prerequisite: CHEG 4473. Course equivalents: CVEG 4483, ELEG 4483 or MCEG 4483. Note; CHEG 4483 must immediately follow 4473 or sequence must restart with 4473.

**CHEG 4991-4992-4993. Independent Study.** (1, 2 or 3-0) Credit 1, 2, or 3 semester hours. Readings, research and/or field work on selected topics. This course is intended as a curriculum supplement for highly motivated students with special areas of interest. An individualized course of study, planned by student and advisor, is executed under the direction of the advisor. Prerequisite: consent of advisor and department head approval.

**COMP 1003. Introduction to Computer Education.** (3-0) Credit 3 semester hours. Emphasis on microcomputer applications such as word-processing, spreadsheets, presentation managers, E-mail, and the world-wide web to enable students to communicate ideas in written documents and presentations, to retrieve and process data, and to share information and technologies with others. Provide students with the fundamentals of computer hardware and information processing. Expose to basic programming, current software and Internet applications.

**COMP 1011. Introduction to Basic Engineering, Computer Science and Technology Concepts.** (1-0) Credit 1 semester hour. Students will become aware of the various disciplines of engineering, computer science and technology, ethical and professional responsibilities in these fields, creativity and design. Corequisite: or Prerequisite: COMP 1021.

**COMP 1013. Introduction to Computer Science.** (3-0) Credit 3 semester hours. Fundamentals of computer science and programming to include algorithm definition, concepts, semantics and logic, fundamental data types (character, integer, and floating-point) and their binary representations and limits, arithmetic and logical operators and precedence, program structure and flow, branching and looping, functions and parameters, and basic input and output methods, emphasizing modular design and implementation of an object-oriented language such as C++.

**COMP 1021. Introduction to Computer Science Laboratory.** (0-2) Credit 1 semester hour. This lab component will cover the overview of the current job opportunities and

some hands-on exercises to understand the current topics. Co-requisite: or Prerequisite: COMP 1011.

**COMP 1133. Visual Basic Programming.** (3-0) Credit 3 semester hours. Fundamentals of programming in Visual Basic including an extensive examination of Graphical User Interface programming, creating classes, Dynamic Data Exchange, Object Linking and Embedding (OLE) and creating OLE Servers. The course also covers client/server development using the built-in database jet engine and using Open Database Connectivity (ODBC) to access other popular database systems.

**COMP 1214. Computer Science I and Laboratory I.** (3-2) Credit 4 semester hours. Introduction to and practice of modern problem solving and programming methods. Special emphasis is placed on top-down modular design and implementation of robust and easily maintainable programs in a high-level, object-oriented language such as C++ to include external files, control structures, loops, scope, functions, output formatting, inline functions and function templates, enumerated data types, arrays, structures, exception handling. Prerequisite: (MATH 1113 and MATH 1123) or (MATH 1115). Repeatable up to 3 times.

**COMP 1224. Computer Science and Laboratory II.** (3-2) Credit 4 semester hour. Continuation of COMP 1214 with continued emphasis on program development techniques, array based lists, pointers, basic linked lists, classes, abstraction, data hiding, polymorphism, inheritance, stacks and queues. Prerequisites: COMP 1214. Corequisite: MATH 1124. Repeatable up to 3 times.

**COMP 1811. Introduction to Game Design and Development.** (1-0) Credit 1 semester hour. Introduction to game design and development, animation/simulation, scientific visualization, and multimedia technology; basic concept of game programming language. Prerequisite: None.

**COMP 1821. Introduction to Game Developing Environment.** (1-0) Credit 1 semester hour. Introduction to various software, tools, and systems for game design, animation, and scientific visualization; game programming language concepts and practice. Prerequisite: COMP 1811.

**COMP 2003. Introduction to Web Design and Multimedia.** (3-0) Credit 3 semester hours. The role of the Internet and as a tool in business: design and development of simple Internet applications using HTML; basics of scripting languages; development of home pages incorporating graphics, and multimedia. Prerequisite: Consent of Advisor

**COMP 2013. Data Structures.** (3-0) Credit 3 semester hours. Fundamental data structures; the implementation and application of binary files, stacks, queues, recursion, advanced linked lists, trees, graphs, data compression, heap, priority queue, and sorting techniques. Prerequisites: COMP 1224.

**COMP 2033. Assembly Language.** (3-0) Credit 3 semester hours. Study of the logical design and internal operation of digital computers and programming using a macro

assembly language. Using several practical exercises to illustrate machine structures and programming techniques for a typical microprocessor environment, such as the Intel processor/IBM PC architecture. Prerequisites: COMP 1224.

**COMP 2103. Discrete Structures.** (3-0) Credit 3 semester hours. A bridge course between data structures/discrete mathematics and analysis of algorithms, to include reviews of functions and relations, basic combinatorics (set operations, counting, combinations, and permutations) and introductions to propositional and predicate logic, discrete probability theory, recursive definitions, computational complexity, and proof techniques including mathematical induction. The concepts are illustrated by applications involving graphs, trees, networks and related algorithms. Prerequisites: COMP 1224.

**COMP 2143. Introduction to Java.** (3-0) Credit 3 semester hours. An introduction to the Java Programming language. Includes coverage of Java Development Kit (JDK), applications, creating applets for enhancing web pages, and an introduction to the object model, and object oriented programming. Prerequisites: Proficiency in at least one programming language. Can be used as a computer science lower level elective.

**COMP 2813. Game Design and Dev. I.** (3-0) Credit 3 semester hours. Fundamental concepts of game design and implementation; High level game development software and tools; Learn hands-on game development experience and skills. Prerequisite: COMP 1821, COMP 1214.

**COMP 2821. Game Design and Dev. II.** **COMP 2821** (1-0) Credit 1 semester hour. Advanced topics on game design and development, including motion tracking, physics-based animation, virtual reality, 3D object authoring tools, and scientific visualization. Prerequisite: COMP 2813.

**COMP 3033. Digital Logic Circuits.** (3-0) Credit 3 semester hours. The design and implementation of digital logic circuits. Combinational and sequential circuit analysis. Digital circuit design optimization methods using random logic gates, multiplexers, decoders, registers, counters, and programmable logic arrays. Prerequisite: COMP 2033.

**COMP 3043. Computer Organization.** (3-0) Credit 3 semester hours. The study of a computer as a series of levels, each one built on its predecessor. Digital logic level, the microprogramming level, the conventional machine level, the operating systems level, and the assembly language level. Prerequisite: COMP 2033.

**COMP 3053. Analysis of Algorithms.** (3-0) Credit 3 semester hours. Introduction to algorithm design and analysis, computational complexity, and NP-completeness theory, emphasizing design, appropriate algorithms and data structures to solve a given problem efficiently, including divide-and-conquer techniques, greedy methods, and dynamic programming. Prerequisites: COMP 2013 and COMP 2103.

**COMP 3063. Operating Systems.** (3-0) Credit 3 semester hours. Basic functions of operating systems including device management, multi-programming, job management, memory management, and input/output processing. Prerequisites: ELEG 4393 or COMP 2013 and COMP 3043.

**COMP 3113. Object-Oriented Analysis and Design.** (3-0) Credit 3 semester hours. Application and benefits of the object-oriented software process model with special consideration to concepts, models, notations, and methods to effectively and efficiently design and implement complex software applications using a practical, state-of-the-art object-oriented method, covering concepts intrinsic to object-oriented technology such as data abstraction, encapsulation, inheritance and polymorphism. State-of-the-art design and implementation tools, such as the unified modeling language (UML) and a high-level object-oriented language such as C++ will be used to illustrate these concepts. Prerequisite: COMP 2013.

**COMP 3203. System Analysis and Design.** (3-0) Credit 3 semester hours. Studying analytical models of system design with emphasis on evaluating system for efficiency, maximum utilization and appropriateness, and on structuring and designing systems. Prerequisites: COMP 1224.

**COMP 3213. Graphics and Visual Computing.** (3-0) Credit 3 semester hours. Principles of interactive computer graphics; Topics include fundamental techniques in graphics, graphic systems, graphic communication, geometric modeling, rendering, computer animation, visualization and virtual reality and other recent developments in computer graphics. Prerequisites: COMP 2013.

**COMP 3223. Software Engineering.** (3-0) Credit 3 semester hours. Formal software development, including the software life-cycle, modular and top-down design, validation and verification, and maintainable systems. Prerequisite: COMP 2013.

**COMP 3811. Virtual Reality and Visualization.** (1-0) credit 1 semester hour. Introduction to advanced virtual reality technology and scientific visualization; Development of VR and visualization applications. Prerequisite: COMP 2821, PHYS 2511, PHYS 2513.

**COMP 3823. Computer Graphics and Programming.** (3-0) Credit 3 semester hours. Principles of interactive computer graphics; Topics include fundamental techniques in graphics, graphic systems, graphic communication, geometric modeling, rendering and other recent developments in computer graphics. Prerequisites: COMP 2013, COMP 2821, PHYS 2521, PHYS 2523.

**COMP 4001. Ethics and Social Issues in Computing.** (1-0) Credit semester hour. Social and ethical implications of computing. Topics include history of computing, social context of computing, methods and tools of analysis, professional and ethical responsibilities, risks and liabilities of computer-based systems, intellectual property, privacy and civil liberties. Prerequisite: Senior standing.



**COMP 4053. Parallel Alg. and Design.** (3-0) Credit 3 semester hours. Hardware organization of vector, array, and parallel processors for high performance computations. Study of interconnection networks and parallel processing. Automatic vectorization and parallelization of scalar programs. Implementation of parallel algorithms for scientific applications. Prerequisite: COMP 3043 and COMP 3053.

**COMP 4063. Artificial Intelligence.** (3-0) Credit 3 semester hours. Introduction to artificial intelligence and expert systems to include heuristic search methods, first-order logic, forward and backward inference, knowledge representation, machine learning, and neural networks. Prerequisite: COMP 2013 and MATH 3023.

**COMP 4072. Senior Design Project I.** (2-0) Credit 2 semester hours. A first of a two-part senior design course for computer science majors. Students will study computer systems design working as a design-team member,, conceptual design methodology, design evaluations, total project planning and management techniques, design optimization, systems manufacturing, cost considerations with an emphasis on students' activities as design professionals. Prerequisite: COMP 3223, COMP 3063, ENGL 1143. Corequisite: COMP 4001.

**COMP 4073. Special Topics.** (3-0) Credit 3 semester hours. Studying selected current and emerging topics in Computer Science. Courses may be repeated for credit when topics vary. Prerequisite: Consent of advisor.

**COMP 4082. Senior Design Project II.** (2-0) Credit 2 semester hours. A continuation of COMP 4072 giving students the opportunities to complete a design project, make formal presentation, research, proposal writing, patents, and literature searches. Prerequisite: COMP 4072.

**COMP 4113. Programming Language Design.** (3-0) Credit 3 semester hours. Overview of programming languages, syntactic and semantic specification, virtual machines and fundamental issues in language design, analyzing of the imperative, object-oriented, functional, and declarative language paradigms. Several programming languages will be analyzed. Prerequisites: COMP 2013.

**COMP 4123. Computer Networks.** (3-0) Credit 3 semester hours. Introduction to the networking of computer systems to include the study of local area (LAN) and wide area (WAN) networks, data transmission, communications software, the architecture of networks, and network communication protocols. Prerequisite: COMP 3063.

**COMP 4133. Formal Languages and Automata.** (3-0) Credit 3 semester hours. Introduction to formal grammars, including Backus-Naur notation studying the formal theory behind the design of a computer language. The corresponding types of automata that will serve as recognizers and generators for a language will be described. Prerequisites: COMP 2103.

**COMP 4843. Human–Computer Interaction.** (3-0) Credit 3 semester hours. Focuses on the dynamics of human-computer interaction (HCI). Provides a broad overview of HCI as a sub-area of computer science and explores user-centered design approaches in information systems applications. Addresses the user interface and software design strategies, user experience levels, interaction styles, usability engineering, and collaborative systems technology. Students will perform formal software evaluations and usability tests. Prerequisite: COMP 3223.

**COMP 4953. Data Base Management.** (3-0) Credit 3 semester hours. File structures and access methods, database modeling design and user interface, components of database management systems. Information storage and retrieval, query languages, high-level language interfaces with database systems. Prerequisite: COMP 2013.

**COMP 4963. Introduction to Service Computing.** (3-0) Credit 3 semester hours. Introduces core techniques of service computing, including service-oriented architecture, the roles of application builders, service specifications, workflow modeling, and specifications, service providers and services brokers, dynamic service discovery and basic ontology, understand major paradigms of computing. Prerequisite: COMP 4953.

**COMP 4991. Independent Study.** (1-0) Credit 1 semester hours. Reading, research and/or field work on selected topics. Pre-requisite: Consent of instructor. Course may be repeated up to 10 times.

**COMP 4992. Independent Study.** (2-0) Credit 2 semester hours. Reading, research and/or field work on selected topics. Pre-requisite: Consent of instructor. Course may be repeated up to 10 times.

**COMP 4993. Independent Study.** (3-0) Credit 3 semester hours. Reading, research and/or field work on selected topics. Prerequisite: Consent of instructor.

**CPET 1011 Intro to Engineering, Computer Science and Technology** (1-0) Credit 1 semester hour. Introduction to basic engineering, computer science and technology concepts. Students will become aware of the various disciplines of engineering, computer science and technology, ethical responsibilities in these fields, creativity and design. Co-requisite CPET 1021 or equivalent course determine by department.

**CPET 1013. Computer Application to Engineering Technology I.** (3-0) Credit 3 semester hours. An introduction to Vista and Linux operating systems, software and applications, use of Microsoft Office components for day to day applications, study of simple programs in solving simple computing and statistical problems and basics of the Internet.

**CPET 1021. Intro to CPET Laboratory** (0-3) Credit 1 semester hour. Introduction to the field of engineering technology, the curriculum, the basic skills of problem solving, and hands-on experiments, the basic concepts and applications on computer technology. Co-requisite: CPET 1011 or equivalent course determined by department.

**CPET 1023. Computer Application to Engineering Technology II.** (3-0) Credit 3 semester hours. Application of Matlab in solving problems, understanding the logic of computer programming, essentials of elementary C programming language, Object Oriented Program design and implementation with C++ language. Pre-requisite: CPET 1013.

**CPET 2006. Cooperative Education I.** (0-6) Credit 6 semester hours. A cooperative arrangement between the University and a company or government agency that provides experiences for students majoring in Computer Engineering Technology. The work assignment must be commensurate with the student's major. A subsequent written report is required. Prerequisite: Department head's approval is required.

**CPET 2111. Digital Logic Laboratory.** (0-3) Credit 1 semester hour. Laboratory experiments and reports in combinational and sequential logic using logic gates and flip-flops, and other logic devices. Experiments stress applications in Computer Engineering Technology. Prerequisite or co-requisite: CPET 2113.

**CPET 2113. Digital Logic Circuits.** (3-0) Credit 3 semester hours. Digital logic with topics in number systems and codes, Boolean algebra and logic minimization methods, and combinational and sequential logic using logic gates and flip flops and other logic devices. Applications in Computer Engineering Technology are stressed. Prerequisites or co-requisite: CPET 2111.

**CPET 2503. Mathematical Applications for Technology.** (3-0) Credit 3 semester hours. A survey of appropriate concepts and techniques from methods with applications to the solution of problems in technology. Pre-requisite: MATH 2024.

**CPET 3013. Software Engineering Technology I.** (3-0) Credit 3 semester hours. Using Software models, technical problem analysis, UML design and development, implementation and testing. Case studies of software technology. Implementation of designs using a high level programming language for software and hardware design. Advanced concepts in a high level programming language manipulating files, tasking and real time interfacing with the computer hardware, Prerequisite: CPET 1023. Pre-requisite: CPET 1013.

**CPET 3161. Computer Architecture Laboratory.** (0-3) Credit 1 semester hour. Laboratory experiments to determine performance characteristics of commercially available microcomputers. Write codes for 8-bit through 32-bit processors to exercise the investigate modern computer architecture design use both software and hardware. Pre-requisites: CPET 2111, CPET 2113 and prerequisite or co-requisite: CPET 3163.

**CPET 3163. Computer Architecture.** (3-0) Credit 3 semester hours. The performance characteristics of commercially available computers. Students will study 8-bit through 32-bit processors. Selection and use of processors. Prerequisites: CPET 2111, CPET 2113 and credit for or concurrent enrollment in CPET 3161.

**CPET 3231. Microcontroller Programming Laboratory.**(0-3) Credit 1 semester hour. Exploring the Intel processor registers, their functionalities and responsibilities in computations, tracing individual instruction executions in debug mode, dedicated memory segments and address spaces in real and protected modes, microprocessor programming in solving engineering technology problems and program analysis at microprocessor level. Pre-requisites: CPET 2111, CPET 2113 and prerequisite or co-requisite: CPET 3233.

**CPET 3233. Microcontroller Programming.** (3-0) Credit 3 semester hours. Microprocessor level data represented in binary and hexadecimal formats, Intel 32-bit architecture, real and protected mode address spaces, processor-memory working relationship, Intel programming mnemonics, program design and microprocessor level programming for solving engineering technology applications. Pre-requisites: CPET 2111, CPET 2113 and prerequisite or co-requisite: CPET 3231.

**CPET 3251. Digital Hardware Design Laboratory.** (0-3) Credit 1 semester hour. Laboratory experiments in design of digital computers and computer controlled devices. The internal operation of a microprocessor and computer. Registers and timing control, programmable gate arrays, array processors as computer models. Prerequisite: CPET 2111, CPET 2113 and credit or concurrent enrollment in CPET 3253.

**CPET 3253. Digital Hardware Design.** (3-0) Credit 3 semester hours. Basic concepts used in the design of digital computers and computer-controlled devices. The internal operation of a microprocessor and computer. Registers and timing control, programmable gate arrays, array processors as computer models. Students will use individual board computers for doing simulation. Prerequisites: CPET 2111, CPET 2113 and prerequisite or co-requisite: CPET 3251.

**CPET 3333. Cooperative Education II.** (0-3) Credit 3 semester hours. A cooperative arrangement between the university and a company or government agency that provides experiences for students majoring in Computer Engineering Technology II. The work assignment must be commensurate with the student's major. A subsequent report is required. Pre-requisite: Department Head's approval required.

**CPET 4013. Operating Systems.** (3-0) Credit 3 semester hours. Operating system structure, kernel and service programs, process scheduling, concurrent processes, synchronization techniques, memory management, virtual memory, input/output, storage management, file systems. Pre-requisites: CPET 2113 and CPET 1023.

**CPET 4051. Computer Systems Design Laboratory.** (0-3) Credit 1 semester hour. Experiments involving interface logic and programmable I/O devices for microprocessor base systems. The course will introduce- based systems. Introduce system design CAD tools, simulation, verification and synthesis. Pre-requisites: CPET 3161, CPET 3163 and prerequisite or co-requisite: CPET 4053.

**CPET 4053. Computer Systems Design.** (3-0) Credit 3 semester hour. Study of modern digital design methodologies, operation, arithmetic operations, and the study of advanced

analysis on microprocessor software engineering systems. Pre-requisites: CPET 3161, CPET 3163 and prerequisite or co-requisite: CPET 4051.

**CPET 4061. Data Communication Methods Laboratory.** (0-3) Credit 1 semester hour. Laboratory experiments in data communication devices. Modems, multiplexers, concentrators, protocols, error checking, front-end processors, USARTS, simplex/duplex transmission, and telecommunications. Pre-requisites: , CPET 2111, CPET 2113, CPET 2503 and prerequisite or co-requisite: CPET 4063.

**CPET 4063. Data Communication Methods.** (3-0) Credit 3 semester hours. Functional and operational aspects of data communication devices and software, including modems, control units, multiplexers, concentrators, front-end processors, codes and procedures, protocols, error checking, and networking. Pre-requisites: CPET 2113, CPET 2111, CPET 2503 and prerequisite or co-requisite: CPET 4061.

**CPET 4082. Senior Project I.** (1-3) Credit 2 semester hours. A two-semester sequence for individual projects supervised by a faculty member of the department. The portions of the first semester course (4082) are devoted to group discussion of professional aspects of engineering ethics, research protocols, and patent considerations. A written proposal describing the project is required. Oral presentation throughout the semester on the research project using a conference style format. Pre-requisites: Senior standing in the department and permission of the course instructor required.

**CPET 4092. Senior Project II.** (1-3) Credit 2 semester hours each. A two-semester sequence for individual and/or team projects supervised by a faculty member of the department. The portions of the second semester course (4092) are devoted to group discussion of professional aspects of engineering technology: research writing, engineering ethics, research protocols, patent considerations. A written proposal describing the project is required. Oral presentations throughout the semester on the research project using culminating in a final written report. Pre-requisite: Senior standing in the department and permission of the course instructor required, and CPET 4082.

**CPET 4101. Special Topics Laboratory.** (0-3) Credit 1 semester hour. Selected current and emerging laboratory topics in Engineering Technology. Pre-requisites: Consent of the Instructor.

**CPET 4102-4103. Special Topics.** (2-0, 3-0) Credit 2 or 3 semester hours. Selected current and emerging topics in Engineering Technology. Pre-requisites: Consent of the Instructor.

**CPET 4111. Applications of Microprocessor Software Laboratory.** (0-3) Credit 1 semester hour. Exercises in industrial applications programs. Use of micro assemblers to write floating point mathematical routines, special purposes languages. Engineering Technology applications are stressed. Pre-requisites: CPET 3231, CPET 3233, and prerequisite or co-requisite: CPET 4113.

**CPET 4113. Software Applications of Microprocessors.** (3-0) Credit 3 semester hours. Assembler-level programming of microprocessors and microcomputers with emphasis on writing industrial application programs. Use of micro assemblers to write floating point mathematical routines, special purpose languages, simulate other microprocessor instructions sets, generate reloadable code, and linking leaders. Applications for Engineering Technology are stressed. Pre-requisites: CPET 3231, CPET 3233, and prerequisite or co-requisite: CPET 4111.

**CPET 4151. Micro Computer Peripheral Hardware Laboratory.** (0-3) Credit 1 semester hour. Hands-on experiments on micro computer peripheral, such as memory, IO devices, interrupts, and etc. Pre-requisites: CPET 3161, CPET 3163, credit or concurrent enrollment in CPET 4153.

**CPET 4153. Micro Computer Peripheral Hardware.** (3-0) Credit 3 semester hours. The elements of microprocessor peripheral hardware and its interfacing. Students will configure and construct microprocessor systems. Topics include series and parallel I/O devices, DMA and interrupt control devices, bus arbitration, and memory management units. Prerequisite: CPET 3161, CPET 3163, and credit for or concurrent enrollment in CPET 4151.

**CPET 4361. Computer Networking Laboratory.** (0-3) Credit 1 semester hour. Experiments and reports involving the hardware and software for computer networks. Experimental topics include LANS, WANS, networking components and techniques, standards and protocols, and networks on a chip. Pre-requisites: CPET 4061, CPET 4063 and prerequisite or co-requisite: CPET 4363.

**CPET 4363. Computer Networking.** (3-0) Credit 3 semester hours. A study of the hardware and software in computer networks. Topics include LANS, WANS, networking components and techniques, standards and protocols, networks on a chip, and networking trends. Pre-requisites: CPET 4061, CPET 4063 and prerequisite or co-requisite: CPET 4361.

**CPET 4381. Digital Signal Processing Applications Laboratory.** (0-3) Credit 1 semester hour. Experiments in Signal Processing using commercial DSP processors for performing various image and speech processing tasks. Emphasis on learning DSP programming techniques. Pre-requisites: CPET 2111, CPET 2113 and prerequisite or co-requisite: CPET 4383.

**CPET 4383. Digital Signal Processing Applications.** (3-0) Credit 3 semester hours. Analog-to-digital and digital-to-analog conversion, discrete-time systems, discrete Fourier Transforms, applications in areas of speech recognition, and digital image processing. Architecture and programming of DSP processors. Pre-requisites: CPET 2111, CPET 2113, and prerequisite or co-requisite: CPET 4381.

**CPET 4391. Programmable Microcontrollers Laboratory.** (0-3) Credit 1 semester hour. Laboratory experiments using microcontrollers to control various devices. Read input from sensors, perform analysis through software, and then provide corresponding

control signals. Interfacing microcontrollers to computers. Pre-requisites: CPET 2111, CPET 2113 and Prerequisite or co-requisite: CPET 4393.

**CPET 4393. Programmable Microcontrollers.** (3-0) Credit 3 semester hours. Introduction to programmable microcontrollers, application of microcontrollers in industrial environment for controlling machines and devices. Downloading control software to microcontrollers from computers. Pre-requisites: CPET 2111, CPET 2113 and prerequisite or co-requisite: CPET 4391.

**CPET 4991-4992-4993 Independent Study.** (1-0, 2-0, 3-0) Credit 1 or 2 or 3 semester hours. Reading, research, and/or laboratory work on selected topics in Engineering Technology. Pre-requisites: Consent of the Instructor.

**CVEG 1011. Introduction to Engineering, Computer Science and Technology.**(1-0) Credit 1 semester hour. Introduction to basic engineering, computer science and technology concepts. Students will become aware of the various disciplines of engineering, computer science and technology, ethical and professional responsibilities in these fields, creativity and design. Co-requisite: CVEG 1021.

**CVEG 1021. Introduction to Civil Engineering Lab.** (0-3) Credit 1 semester hour. Introduction to civil and environmental engineering issues and concerns. Students will become familiar with the many sub-fields of the Civil and Environmental Engineering profession; ethical responsibilities; and concepts of design. Co-requisite: CVEG 1011 or equivalent course determined by department.

**CVEG 2001. Emerging Issues in Civil Engineering.** (0-2) Credit 1 semester hour. An overview of emerging issues and state-of-the-art technologies that are embraced by the Civil Engineering profession. The course will emphasize the use of basic concepts in management, entrepreneurship, public policy, leadership, teamwork and team building skills to write, oral and present written communication and the presentation of appropriate engineering design documentation. Prerequisite: Sophomore Standing. Prerequisites: CVEG 1011 and CVEG 1021 or approval of Department Head.

**CVEG 2043. Engineering Mechanics I.** (3-0) Credit 3 semester hours. Fundamental concepts and principles; vector algebra and applications; equilibrium of particles and rigid bodies in two and three dimensions, moments and couples; distributed forces, centroids, moments of inertia, friction, introduction to analysis of structures. Prerequisite: PHYS 2513.

**CVEG 2053. Engineering Mechanics II.** (3-0) Credit 3 semester hours. Kinematics and kinetics of particles and of rigid bodies as applied to engineering problems; Newton's laws of motion; work and energy; impulse and momentum; translations; rotation; plane motion; motion about a point; general motions; and periodic motions. Prerequisite: CVEG 2043.

**CVEG 2063. Mechanics of Materials.** (3-0) Credit 3 semester hours. Mechanical behavior of engineering materials, plane stress, plane strain, stress-strain relationship, shear and moment, torsion, flexural, column and combined loadings. Introduction to deflections; concepts of stresses at a point; stresses in pressured containers; and theories of failures and thermal stresses. Prerequisites: CVEG 2043 or CVEG 2454 and MATH 2024.

**CVEG 2454. Statics and Dynamics.** (4-0) Credit 4 semester hours. Fundamental concepts; equilibrium of particles and rigid bodies; centroids; moments of inertia; friction; introduction to analysis of structures. Kinematics and Kinetics of particles and of rigid bodies; equations of motion; work and energy; impulse and momentum. Prerequisite: PHYS 2513.

**CVEG 3023. Geotechnical Engineering.** (2-3) Credit 3 semester hours. Physical and mechanical properties of soil; moisture and its movement in soil; moisture density relationships; soil classification; settlement; consolidation; permeability; testing of soil physical and mechanical properties; and laboratory sessions. Prerequisites: CVEG 2001, CVEG 2063, ENGL 1143 or ENGL 1133, PHYS 2511, PHYS 2521 and COMM 1003.

**CVEG 3031. Construction Materials Laboratory.** (0-3) Credit 1 semester hour. Determination of mechanical properties of several engineering materials, including iron-carbon alloys, aluminum alloys, cement, concrete and its ingredients, wood, and composite materials, standards methods of testing and procedures; instrumentation and interpretation of results; and presentation of results in reports and report writing. Prerequisites: CVEG 2063, ENGL 1143 or ENGL 1133, PHYS 2511, PHYS 2521 and COMM 1003.

**CVEG 3043. Environmental Engineering.** (2-3) Credit 3 semester hours. Review of environmental chemistry, mass and energy and biology, introduction to environmental science and engineering, material balance, reaction kinetics, reactor design, introduction to solid and hazardous waste, water and wastewater quality characteristics, laboratory analysis of water and wastewater samples using a variety of techniques. Prerequisites: MCEG 2013, CHEM 1034, and CHEM 1021.

**CVEG 3053. Transportation Engineering.** (2-3) Credit 3 semester hours. Theory and practices of plane, route, boundary, and topographic surveying with basic concepts in transportation engineering. Topics include site planning and design of air, surface, and water transportation facilities; an introduction into the major aspects of regulatory requirements and other issues; and laboratory sessions in the areas of operations and planning. Prerequisites: CHEG 2003, CVEG 2001 and MATH 2043.

**CVEG 3063. Hydraulics.** (2-3) Credit 3 semester hours. Fluid statics; pressure on submerged bodies; continuity equation; Bernoulli equation; principles of momentum and energy; fundamentals of hydraulic modeling; open channel flow; pressure conduit flow; flow measurement; laboratory sessions on selected topics. Prerequisites: CVEG 2053 and , CVEG 2063, ENGL 1143 or ENGL 1133, MATH 2043 and COMM 1003.



**CVEG 3073. Structural Analysis.** (3-0) Credit 3 semester hours. Analysis of determinate structures; reactions, member forces of trusses, shears and bending moments of beams and frames; influence lines; moving loads; deflections; analysis of indeterminate structures by approximate method and energy method; computer application. Prerequisite: CVEG 2063.

**CVEG 3083. Steel Design.** (2-3) Credit 3 semester hours. Analysis and design of tension and compression members, rolled steel beams, plate girders, riveted, welded and pinned joints; and an introduction to design trusses and multistory frames. Prerequisite: CVEG 3073.

**CVEG 3156. Civil Engineering Internship I.** (0-0) Credit 6 semester hours. An internship program of work experience with an approved engineering oriented firm, agency or consulting firm or engineering public service agency serving the civil engineering profession. A comprehensive written report of the work-learning experience is required. Prerequisite: Approval of Department Head.

**CVEG 4013. Reinforced Concrete.** (3-0) Credit 3 semester hours. Properties of concrete and reinforcement; design methods; codes; load; flexure, shear, bonds, and deflections; analysis and design of beams and columns; introduction to design of footings, slabs, and retaining walls; and introduction to computer-aided design. Prerequisites: CVEG 3031 and CVEG 3073.

**CVEG 4043. Environmental Engineering Design.** (3-0) Credit 3 semester hours. Synthesis of environmental engineering fundamentals into an integrated system design which includes the design of physical, chemical, and biological unit operations and processes in water and wastewater treatment. Prerequisite: CVEG 3043.

**CVEG 4053. Transportation Engineering Design.** (3-0) Credit 3 semester hours. Introduction of the transportation design process through a series of comprehensive transportation design projects. Emphasis is placed on the utilization of existing facilities and creation of efficient new facilities through transportation systems management techniques. Energy, environment, mobility and community impacts are considered as measures of effectiveness in the design process. Prerequisite: CVEG 3053.

**CVEG 4063. Water Resources Engineering.** (3-0) Credit 3 semester hours. Control and utilization of water; flood control; water distribution systems; open channel flows; and hydraulic structures. Prerequisite: CVEG 3063 or Equivalent.

**CVEG 4093. Systems Engineering.** (3-0) Credit 3 semester hours. Introduction to systems analysis and design; problem modeling; optimization; linear programming; dynamic programming; network analysis; critical path; economic analysis; and decision theory. Prerequisites: CHEG 2003 and MATH 3685.

**CVEG 4103. Special Topics.** (3-0) Credit 3 semester hours. Selected current and emerging topics in Civil Engineering depending on need determined by the department. Prerequisites: Senior Standing and Approval by the Department Head.

**CVEG 4113. Energy and Environment.** (3-0) Credit 3 semester hours. Introduction to climate and climate change, the carbon cycle, air and water pollution from energy systems, impacts and implications of energy use for human health, current energy and energy-related environmental policies to foster the development of sustainable energy technologies, fuels, and practices, energy alternatives for the future and their impact on the local and global environment. Prerequisite: CHEG 3113.

**CVEG 4123. Hydrology.** (3-0) Credit 3 semester hours. Hydrologic cycle; precipitation; run-off; infiltration; hydrological analysis; unit hydrograph; statistical methods; surface and ground water; flood forecasting; flood routing; flood control; and computer applications. Prerequisite: CVEG 3063 or Equivalent.

**CVEG 4143. Engineering Construction.** (3-0) Credit 3 semester hours. Modern construction methods; history, organization management, planning, and machinery; importance of working drawings programming and economy of good planning; and importance of inspection and checks, including visits to worksites and reports on such visits. Prerequisite: Senior Standing and approval of Advisor, CVEG 3031 or Equivalent.

**CVEG 4156. Civil Engineering Internship II.** (0-0) Credit 6 semester hours. An internship program of advanced work experience with an approved engineering oriented firm, agency, or consulting firm, or engineering public service agency providing practical work experience of the profession on the job. A comprehensive written report of the work-learning experience is required. Prerequisite: Approval of Department Head.

**CVEG 4223. Waste Management.** (3-0) Credit 3 semester hours. Evolution, legislative trends and regulations for solid and hazardous waste management; sources, characteristics and engineering principles of solid and hazardous waste; and treatment and disposal methods for solid and hazardous wastes. Prerequisite: CVEG 3043.

**CVEG 4233. Water Quality Modeling.** (3-0) Credit 3 semester hours. Water quality overview; movement of contaminants in the environment; contaminant interactions with soil, air, and water; and mathematical models to describe the movement of contaminants in various bodies of water including rivers, lakes, oceans and groundwater. Prerequisite: CVEG 3043.

**CVEG 4243. Fundamentals of Air Pollution and Control.** (3-0) Credit 3 semester hours. Fundamentals of air pollution; regulatory aspects; effects and sources of air pollution; atmospheric physics and chemistry; simple air quality models; and basics of air pollution control. Prerequisite: CVEG 3043.

**CVEG 4473. Senior Design and Professionalism I.** (1-4) Credit 3 semester hours. This is the first course of a two-semester capstone experience (CVEG 4483 must immediately follow 4473 or sequence must restart with 4473) involving engineering design of an

industrial or advanced team project. Elements of ethics and professionalism in engineering practice are integrated into the project experience. The project will include application of relevant engineering codes and standards, as well as realistic constraints. Design achievements are demonstrated with written reports, and oral presentation, and professional standards and ethics examinations. Prerequisites: CVEG 3023, CVEG 3043, CVEG 3053, CVEG 3063, and CVEG 3073, Senior Standing and approval of Advisor. Course equivalence: CHEG 4473, ELEG 4473 or MCEG 4473.

**CVEG 4483. Senior Design and Professionalism II.** (1-4) Credit 3 semester hours. A continuation of CVEG 4473 with required design modifications of the team projects necessary to produce a working prototype of the designs initiated in Senior Design and Professionalism I. Design project deliverables include an oral presentation, as well as a final written report. Professionalism education will, and a formal demonstration of prototype, or model, of the design. Elements of professionalism reinforce the importance of professional engineering ethics, corporate culture, life-long learning, and globalization. Prerequisite: CVEG 4473. Course equivalence: CHEG 4483, ELEG 4483 or MCEG 4483. CVEG 44834 must immediately follow CVEG 4473 or sequence must restart with CVEG 4473.

**CVEG 4991-4992-4993. Independent Study.** (0-0) Credit 1, 2, or 3 semester hours. Readings, research, and/or field work in selected topics. Prerequisite: consent of advisor.

**ELEG 1011. Introduction to Engineering, Computer Science and Technology.** (1-0) Credit 1 hour. Introduction to basic engineering, computer science and technology concepts. Students will become aware of the various disciplines of engineering, computer science and technology, ethical and professional responsibilities in these fields, creativity and design. Co-requisite ELEG 1021 or equivalent course determined by department.

**ELEG 1021. Introduction to Electrical Engineering Laboratory .** (0-1) Credit 1 hour. The lab covers the manipulation, storage and transmission of information in electronic form. Topics will include time and frequency domain signals analysis, physics of basic building blocks of electrical systems, sampling, filtering and communications; digital imaging and storage technologies. Co-requisite ELEG 1011 or equivalent course determined by department.

**ELEG 1043. Computer Applications in Engineering.** (2-2) Credit 3 semester hours. C-Programming language; fundamentals, program looping, conditioning statements, arrays, functions, structures, character strings, pointers, preprocessors, input and output. Engineering problem solving using computers, use of engineering software and commercial packages. Prerequisite or co-requisite: MATH 1113. \*\*(COSC 1300)

**ELEG 2011. Electric Circuits Laboratory.** (0-2) Credit 1 semester hour. Operation of basic laboratory-type test and measurement equipment. Experimentation in basic current-voltage relations, circuit laws, and network analysis of linear DC and AC circuits. Use of oscilloscope in circuit analysis. RL, RC, RLC resonance, OP-Amp circuits, and transient

circuit experimentation. Statistical analysis of elements of Electrical Circuits. Prerequisite :ELEG 1011, ELEG 1021, and ENGL 1143. Co-requisite: ELEG 2023.

**ELEG 2023. Network Theory I.** (3-0) Credit 3 semester hours. Study of basic circuit laws and theorems. Study of circuit analysis techniques, use of controlled sources, and transient and sinusoidal circuit analysis. Prerequisites PHYS 2511, PHYS 2521, PHYS 2523, MATH 2024, GNEG 1011, and GNEG 2021; Prerequisite or co-requisite: MATH 2043.

**ELEG 2053. Introduction to Electrical Engineering.** (3-0) Credit 3 semester hours. Introductory course for non-majors. Basic circuit theory, analysis of DC circuits; transient analysis of RLC circuits; steady state analysis; transformers; dc machines and induction motors; diode circuits; operational amplifiers; numbering systems, logic gates and combinational circuits. Prerequisite: PHYS 2511, PHYS 2521, PHYS 2523; Co-requisite or prerequisite: MATH 2043, GNEG 1011, and GNEG 2021 and Prerequisite: MATH 2043.

**ELEG 2083. Introduction to Digital Signal Processing (DSP) Solutions.** (2-2) Credit 3 semester hours. Introduction to signal processing for discrete-time and continuous-time signals. Survey of filtering techniques. Basic principle of frequency response, Fourier Transform and Z-transform. Basic principles of computer-based signal processing. Prerequisite: ELEG 1043

**ELEG 2313. The Digital Information Age.** (3-0) Credit 3 semester hours. Introductory course for non-engineering majors. Introduction to the ideas and principles of digital information systems. The topics include digital sensors, digitizing analog signals, digital logic, computers, information coding, transmission and manipulation. Applications include digital scales, air-bag inflation systems, smart cards, bar-code scanners, digital cellular telephony, and modems. Prerequisites: MATH 1113 or equivalent

**ELEG 3013. Network Theory II.** (3-0) Credit 3 semester hours. Continuation of transient and sinusoidal analysis. Study of average and RMS power, polyphase circuits, complex frequency, frequency response, and magnetic circuits. Prerequisite: ELEG 2023, and MATH 2043.

**ELEG 3021. Logic Circuits Laboratory.** (0-3) Credit 1 semester hour. Experimentation in combinational and sequential logic circuitry. Design of counters, adders, digital display circuitry, shift registers, and control logic. Prerequisite or co-requisite: ELEG 3063.

**ELEG 3023. Signals and Systems.** (3-0) Credit 3 semester hours. Basic discrete and continuous time signals, properties of systems, linear time invariant systems, Fourier analysis, z-transformers, LaPlace Transform. Prerequisite: ELEG 3013.

**ELEG 3033. Physical Electronics. Principles of Solid State Devices .** (3-0) Credit 3 semester hours. Crystal structure, introduction to quantum concepts and discrete energy levels; atomic bonding; phase relationships and kinetics. Band, solid-state band theory,

Fermi-Dirac Statistics; conduction statistics, charge carrier transport, and introduction to semiconductor device physics. Introduction to MOS fabrication and design operation. Prerequisites: PHYS 2023, 2511, PHYS 2521, PHYS 2523, GNEG 1121, GNEG 2021 CHEM 1033, 1021, CHEM 1021 and MATH 2024; Prerequisite or co-requisite: MATH 2043.

**ELEG 3041. Microelectronic Processing and Characterization Lab.** (0-2) Credit 1 semester hour. Basic processes of microelectronic fabrication; doping, oxidation, photolithography, etching, metallization and clean room practices. Basic materials and device characterization. Prerequisite or co-requisite: ELEG 3033.

**ELEG 3043. Electronics I.** (3-0) Credit 3 semester hours. Operational amplifiers. Diodes and nonlinear circuits. Field effect transistors. Analysis and design of linear amplifiers. Biasing, small and large signal behavior. Operation of bipolar junction transistors. Prerequisite or co-requisite: ELEG 3033 and Prerequisite: ELEG 3013.

**ELEG 3063. Logic Circuits** (3,0) Credit 3 semester hours. Number systems and codes. Boolean algebra and logic minimization methods. Combinational and sequential design using logic gates and flip flops. Computer-aided design tools for digital design, simulation, and testing. Pre-requisite: ELEG 2023.

**ELEG 3071. Microprocessor Systems Design Laboratory** (0-3) Credit 1 semester hours. Software and hardware experiments with a microcomputer system. Assembly language and C programming, simple input/output interfacing, and interrupt processing in microcomputer systems. Prerequisite: ELEG 3063, and Co-requisite: ELEG 3073 and ELEG 3021.

**ELEG 3073. Microprocessor Systems Design** (3-0) Credit 3 semester hours. Introduction to architecture, operation, and application of microprocessors; microprocessor programming; address decoding; system timing; parallel, serial, and analog I/O; interrupts and direct memory access; interfacing to static and dynamic RAM; microcontrollers. Introduction to Microcomputers. Prerequisites: ELEG 1043 and ELEG 3063. Co-requisite: ELEG 3071.

**ELEG 3156. Engineering Internship I.** (0-0) Credit 6 semester hours. An internship program or work experience with an approved engineering firm or engineering oriented business agency, planning, public service agency, or consulting firm, providing an introduction to the profession. Prerequisite: approval by the chairman of the department.

**ELEG 4003. Communication Theory.** (3-0) Credit 3 semester hours, Signals and spectra. Transmission and processing of signals. Continuous-wave modulation and pulse modulation. Baseband pulse transmission and passband digital transmission. Signal space analysis. Information measures. Prerequisites: ELEG 3023 and MATH 3685.

**ELEG 4011. Electronics Laboratory.** (0-3) Credit 1 semester hour. Applications of semiconductors diodes. Operational characteristics of transistor amplifiers (inverters,

emitter follower, difference, etc.) FET characteristics and applications. Operational amplifier characteristics and circuit implementation. Frequency response of amplifiers. Prerequisite: ELEG 2011, Prerequisite or co-requisite: ELEG 3043

**ELEG 4013. Electromechanical Energy Conversion.** (3-0) Credit 3 semester hours. Electric and magnetic devices, force and torque measurements, iron core transformers, single phase and polyphase power circuit analysis. Introduction to per unit system. Prerequisites: MATH 3685 and ELEG 3013.

**ELEG 4021. Power Laboratory.** (0-3) Credit 1 semester hour. Operational characteristics of DC and AC machines; power circuit analysis. Prerequisite or co-requisite: ELEG 4013.

**ELEG 4023. Power Systems Engineering.** (3-0) Credit 3 semester hours. Elementary synchronous machines. General considerations of power generation, transmission, distribution and utilization, survey of load flow, faults, transient stability and economic power dispatch. Prerequisite: ELEG 4013.

**ELEG 4031. Communications Lab.** (0-3) Credit 1 semester hour. Laboratory practice of communications theory, AM and FM modulation, transmission and reception. Analysis of signals and effect of noise interference on communications. Prerequisite or co-requisite: ELEG 4003.

**ELEG 4033. Electromagnetic Field Theory I.** (3-0) Credit 3 semester hours. Review of relevant mathematics, electricity, and magnetism. Study of dielectrics, Poisson's and Laplace's equations, magnetic flux, magnetic fields, and magnetic boundary conditions, Ampere's Circuital law, time varying fields and Maxwell's equations. Prerequisites: ELEG 2023 and MATH 3685.

**ELEG 4043. Electronics II.** (3-0) Credit 3 semester hours. Design and analysis of single and multistage transistor amplifiers, difference amplifiers, frequency response of amplifiers. Feedback concepts. Analysis and design using discrete and integrated devices. Prerequisite: ELEG 3043.

**ELEG 4053. Digital Signal Processing.** (3-0) Credit 3 semester hours, Introduction, review of signals and systems, sampling and z-transforms, discrete Fourier transform, fast Fourier transform, nonrecursive filter design, recursive filter design. Use of Matlab and DSP's in signal analysis. Prerequisite: ELEG 3023.

**ELEG 4073. Servomechanism and Control Systems.** (3-0) Credit 3 semester hours. Model of physical systems, system responses, system characteristics, stability design, frequency response analysis and design, discrete -time systems. Prerequisites: ELEG 3023 and MATH 3685.

**ELEG 4103. Special Topics.** (3-0) Credit 3 semester hours. Selected current and emerging topics in Electrical Engineering. Courses may be repeated for credit when topics vary. Prerequisite: Consent of advisor

**ELEG 4151. Digital Signal Processing (DSP) Solutions Lab.** (0-3) Credit 1 semester hour. DSP studies using a Computer-Based Approach. Discrete-Time Signals in the Time-Domain, Discrete-Time Systems in the Time-Domain, Discrete-Time signals in the Frequency-Domain, LTI Discrete-Time Systems in the Frequency-domain, Digital Processing of Continuous-Time Signals, Digital Filter Structures, Design, and implementation, Analysis of Finite Word-Length Effects, Multirate DSP, and Adv. Projects. Co-requisite: ELEG 4053 or ELEG 4163

**ELEG 4156. Engineering Internship II.** (0-0) Credit 6 semester hours. An internship program or work experience with an approved engineering firm or engineering oriented business agency, planning agency, public service agency, or consulting firm which provides an introduction to the profession. Prerequisite: approval by the chairman of the department.

**ELEG 4163. Digital Signal Processing (DSP) Design and Testing Techniques.** (3-0) Credit 3 semester hours. Fundamental techniques of Digital Signal Processing design, algorithm development, system simulation, real-time prototype of DSP systems. Fundamental techniques of DSP testing, DSP software, hardware and different DSP applications. Co-requisite: ELEG 4053.

**ELEG 4223. Electronic and Photonic Materials and Devices.** (3-0) Credit 3 semester hours. Properties of insulators, conductors, semiconductors, electro-optical and magnetic materials. Basic operation of opto-electronic devices and systems. Prerequisite: ELEG 3033

**ELEG 4243. Power Electronics.** (3-0) Credit 3 semester hours. Characteristics of solid state power switches, controlled rectifiers and inverters; DC choppers; AC power controllers; applications to power supplies, electric machine drives, HVDC power transmission and space power systems. Prerequisite: ELEG 3043; Prerequisite or co-requisite: ELEG 4013.

**ELEG 4253 Embedded Systems Design** (3-0) Credit 3 semester hours. Microprocessor and microcomputer structures and applications; programming and design of hardware interfaces; emphasis on student projects. Prerequisites: ELEG 3071 and ELEG 3073.

**ELEG 4263. VLSI Circuit Design.** (3-0) Credit 3 semester hours. Analysis and design of monolithic integrated circuits, device modeling; CAD tools and computer-aided design, design methodologies of VLSI circuits. Prerequisite: ELEG 3043, 3063; Prerequisite or co-requisite: ELEG 4043

**ELEG 4273. Analog and Mixed Signal Techniques I.** (3-0) Credit 3 semester hours. Overview of analog and digital logic circuits, mixed signal circuits and systems, mixed signal test specification process, DC and parametric measurements, tester hardware, DSP-based testing, simulation and design techniques, power management circuits and systems. Prerequisites: ELEG 3043 and ELEG 3063. Co-requisite: ELEG 4003

**ELEG 4283. Reliability Analysis of Electrical Facilities.** (2.5-1) Credit 3 semester hours. Overview of reliability and probabilistic theory, Monte Carlo simulations, preventive and predictive maintenance methodology, computerized maintenance management systems, generation, transmission and distribution networks and loads, field study and power deregulation. Prerequisites: MATH 3685 and ELEG 4013

**ELEG 4291. Mixed Signal Testing Techniques Lab.** (0-3) Credit 3 semester hours. Mixed signal Measurements, Mixed signal Parameters Measurements, Signal sourcing Techniques, Signal capturing Techniques, Frequency Domain Measurements, DSP based testing, DAC testing, ADC testing, Template test and Analog Circuit Review. Co-requisite: ELEG 4273

**ELEG 4293. Analog and Mixed Signal Techniques II.** (3-0) Credit 3 semester hours. Sampled channel testing. Focused calibrations, DAC testing, ADC testing, DIB design. Design for test (DFT), Data Analysis and Test Economics. Current issues relating to Mixed Signal Systems. Prerequisite: ELEG 4273

**ELEG 4303. Digital System Design.** (3-0) Credit 3 semester hours. The use of hardware description language and automated synthesis in design. Hierarchical and modular design of digital systems. Control logic, synchronous and asynchronous sequential circuit design. Programmable logic devices and field programmable gate arrays. Circuit simulation for design verification and analysis. Timing-oriented design. Prerequisites: ELEG 3063 and ELEG 3073.

**ELEG 4311. Advanced Logic Design Laboratory** (0-3) Credit 1 semester hour. Design and laboratory implementation of digital systems using standard, integrated circuits. Co-requisite: ELEG 4313.

**ELEG 4313. Broadband Communication Systems I.** (3-0) Credit 3 semester hours. Introduction to types of high-speed communication system (broadband), telephone subscriber loop environment, twisted-pair channel modeling, transceiver front-end noise models. Channel capacity testing and analysis techniques of XDSL systems. XDSL modulation techniques and deployment considerations. Prerequisites: ELEG 3023

**ELEG 4321. Computer Network Laboratory.** (0-2) Credit 1 semester hour. Use of Linux. Shell and socket programming, Client and server operations, wireshark software for performance monitoring, management and traffic parameters estimation, wireless local area network. Address resolution protocol and troubleshooting. Internet protocols, routing, and fragmentation. Co-requisite: ELEG 4333.

**ELEG 4323. Broadband Communication Systems II.** (3-0) Credit 3 semester hours. Topics include Hybrid Circuits, Analog Front end precision issues, channel equalization, Echo cancellation, Error Correction and Trellis Coding. Varieties of Digital Subscriber Line (XDSL), testing issues relating to XDSLs. Standards and standard related issues with emphasis on Asymmetric Digital Subscriber Line. Prerequisite: 4313



**ELEG 4333. Computer Networks** (3-0) Credit 3 semester hours. Multi-service applications: Voice/IP, Video on-demand and Video Conferencing. Physical layer design issues including the modulation, demodulation, synchronization, bandwidth, SNR, and interfaces. Link layer design including medium access control, error detection and retransmission strategies. Network routing strategies and transport layer functionality. Design of wired and wireless Local Area Networks based on IEEE 802.x standards. Design of INTERNET Architectures configured with network routing, and the use of network components such as routers, switches and hubs. Prerequisite: ELEG 4303.

**ELEG 4343. Microcontroller Applications** (3-0) Credit 3 semester hours. Use and application of single chip microcontrollers in the design of instrumentation and control systems. Prerequisite: ELEG 3043 and ELEG 4303.

**ELEG 4353. Advanced Logic Design** (3-0) Credit 3 semester hours. Introduction to the design, modeling and verification of complex digital system, modem design, methodologies for logic design, development of tools for the design and testing of digital systems. Prerequisite: ELEG 3073, Co-requisite: ELEG 4311

**ELEG 4393. Computer Architecture and Organization** (3-0) Credit 3 semester hours. An introduction to computer organization using assembly and machine language. Number representation, computer arithmetic, instruction sets, I/O interrupts, and programming interrupts. Projects involve detailed study and use of a specific computer hardware and software system. Prerequisite: ELEG 3063

**ELEG 4473. Senior Design and Professionalism I.** (1-4) Credit 3 semester hours. This is the first course of a two-semester capstone design experience (ELEG 4483 must immediately follow ELEG 4473 or sequence must restart with ELEG 4473) involving engineering design of an industrial or advanced team project. Elements of ethics of ethics and professionalism in engineering practice are integrated into the project experience. The design achievement project will include application of relevant engineering codes and standards, as well as realistic constraints. Design achievements are demonstrated by with written report, oral presentation, and professional standards reports and ethics examinations and oral presentations. Prerequisites: ELEG 2011, CHEG 2003, ELEG 3063, ELEG 3043, and senior standing. Course equivalence: CHEG, CVEG or MCEG 4473. COMM 1003.

**ELEG 4483. Senior Design and Professionalism II.** (1-4) Credit 3 semester hours. A continuation of ELEG 4473 with required design modifications of the team projects necessary to produce a working prototype of the designs initiated in Senior Design and Professionalism I. Results of the design are presented in a Design project deliverables include an oral presentation, a written report, and a formal, final, oral presentation, as well as a final report. Professionalism education will demonstration of prototype, or model, of the design. Elements of professionalism reinforce the importance of professional engineering ethics, corporate culture, life-long learning, and globalization. Prerequisite: ELEG 4473. Course equivalence: CHEG, CVEG or MCEG 4483. ELEG 4483 must immediately follow ELEG 4473 or sequence must restart with ELEG 4473.

**ELEG 4991-4992-4993. Independent Study.** (1-0, 2-0, 3-0) Credit 1, 2, or 3 semester hours. Readings, research, and/or field work on selected topics. Prerequisite: consent of advisor.

**ELET 1011 Intro to Engineering, Computer Science and Technology.** (1-0) Credit 1 semester hour. Introduction to basic engineering, computer science and technology concepts. Students will become aware of the various disciplines of engineering, computer science and technology, ethical responsibilities in these fields, creativity and design. Co-requisite ELET 1021 or equivalent course determine by department.

**ELET 1021. Intro to ELET Laboratory.** (0-3) Credit 1 semester hour. Introduction to the field of engineering technology, the curriculum, the basic skills of problem solving, and hands-on experiments, the basic concepts and applications on computer technology. Co-requisite: ELET 1011 or equivalent course determined by department.

**ELET 1121. DC/AC Circuits Laboratory.** (0-3) Credit 1 semester hour. The Applications of Ohm's Law, Kirchhoff's Law, and related theories to the principle of DC and magnetism in conductors and insulators. Prerequisite: credit for or concurrent enrollment in AC circuits, impedance and phasor experiments. Co-requisite: ELET 1123, Pre-requisite: MATH 1113 or MATH 1115.

**ELET 1123. DC/AC Circuits.** (3-0) Credit 3 semester hours. Basic principles of electricity, magnetism, conductors, insulators, electric theory, Ohm's Law, Kirchhoff's Laws, characteristics. Study of DC and AC circuits, series and parallel DC circuits, and basic instruments used in electronics. Prerequisite: MATH 1113 or MATH 1115 and prerequisite or co-requisite ELET 1121.

**ELET 2006. Cooperative Education I.** (0-6) Credit 6 semester hours. A cooperative arrangement between the university and a company or government agency that provides experiences for students majoring in Electrical Engineering Technology. The work assignment must be commensurate with the student's major. A subsequent written report is required. Prerequisite: Department Head's approval is required.

**ELET 2221. Basic Electronics I Laboratory.** (0-3) Credit 1 semester hour. The implementation of semiconductors in electronic circuits and the analysis of basic amplifiers. Prerequisite: MATH 1113, or MATH 1115, ELET 1121, ELET 1123, and prerequisite or co-requisite: ELET 2223.

**ELET 2223. Basic Electronics I.** (3-0) Credit 3 semester hours. Principles of elementary electronics circuit design and analysis. Solid state diodes, bipolar and MOSFET transistors, biasing techniques DC and AC load lines. Analysis of basic amplifiers. Prerequisites: MATH 1113 or MATH 1115, ELET 1121, ELET 1123, and prerequisite or co-requisite: ELET 2221.

**ELET 2341. Circuit Analysis Laboratory.** (0-3) Credit 1 semester hour. Laboratory experiments in circuit analysis, controlled sources, transient and sinusoidal solutions. Pre-

requisite: ELET 1121, ELET 1123 and MATH 1124 and prerequisite or co-requisite ELET 2343.

**ELET 2343. Circuit Analysis.**(3-0) Credit 3 semester hours. Study of circuit analysis techniques, transient and sinusoidal responses. Applications of transform methods for circuit analysis. Pre-requisite: ELET 1123, ELET 1123, and MATH 1124 and prerequisite or co-requisite ELET 2341.

**ELET 3003. Antennas and Transmission Systems.** (3-0) Credit 3 semester hours. Topics that will be covered are VSWR, application of Smith charts, characteristic of antennas, characteristic of transmission lines, fiber optics used in data transmission, characteristic impedance of transmission lines, antenna gain calculations, antenna patterns, antenna grounding, microwave antenna considerations, and field strength measurement. Prerequisites: MATH 2024, ELET 2221, and ELET 2223.

**ELET 3023. Computer Applications to Electrical Problems.** (3-0) Credit 3 semester hours. The development of orderly methods of solving current voltage relations problems, circuit law problems, and electronics problems with the use of the computer. Prerequisite: CPET 1023.

**ELET 3151. Electronics II Laboratory.** (0-3) Credit 1 semester hour. Implementation and measures on field effect transistors as amplifiers, filters, oscillators and voltage regulators. Pre-requisite: ELET 2221, ELET 2223, and PHYS 2123 and prerequisite or co-requisite ELET 3153.

**ELET 3153. Electronics II.** (3-0) Credit 3 semester hours. Theory, operation and applications of different types of field effect transistors. Active filters, oscillators, and transient solutions, regulators. Pre-requisite: ELET 2221, ELET 2223, and PHYS 2123 and prerequisite or co-requisite ELET 3151.

**ELET 3333. Cooperative Education II.** (0-3) Credit 3 semester hours. A cooperative arrangement between the university and a company or government agency that provides experiences for students majoring in Electrical Engineering Technology. The work assignment must be commensurate with the student's major. A subsequent report is required. Pre-requisite: Department Head's approval required.

**ELET 3451. Robotics I Laboratory.** (0-3) Credit 1 semester hour. Experiments with and testing of robotic devices, including sensors, motion systems, electronics components, and control. Prerequisite: ELET 2221, ELET 2223 and prerequisite or co-requisite: ELET 3453.

**ELET 3453. Robotics I.** (3-0) Credit 3 semester hours. Applications of robotic devices, including sensors, motions systems, electronic components, and control systems. Basic programming of robots. Prerequisite: ELET 2221, ELET 2223 and prerequisite or co-requisite: ELET 3451.

**ELET 3521. Instrumentation, Robotics, and Controls Laboratory.** (0-3) Credit 1 semester hour. Laboratory experiments in the theory and application of electrical and electronic measuring instruments and input/output transducers. Programming of robots and application of control systems. Pre-requisites: ELET 2221, ELET 2223, and prerequisite or co-requisite: ELET 3523, PHYS 2123.

**ELET 3523. Instrumentation, Robotics, and Controls Laboratory.** (3-0) Credit 3 semester hours. The theory and applications of electrical application of electronic measuring instruments and input/output transducers. Topics include analog and digital instruments and transducers. Theory and applications of robotic devices and control systems. Pre-requisites: ELET 2221, ELET 2223, and prerequisite or co-requisite: ELET 3251, PHYS 2123.

**ELET 3603. Digital Integrated Circuits Devices and Applications.** (3-0) Credit 3 semester hours. A treatise of LSI and VLSI devices to include memories, interfacing, data transfer, and arithmetic logic units. The application and programming of Motorola's 68000 and Intel's 80286 microprocessors will be covered.

**ELET 3701. Communication Circuits I Laboratory.** (0-3) Credit 1 semester hour. Laboratory experiments in the areas of RF circuits including impedance matching, RF power amplifiers, wideband amplifiers, RF oscillators, and phase shift oscillators. Prerequisite: ELET 2221, ELET 2223, and prerequisite or co-requisite: ELET 3703.

**ELET 3703. Communication Circuits I.** (3-0) Credit 3 semester hours. RF circuits including impedance matching, RF power amplifiers, wideband amplifiers RF oscillators, phase shift oscillators, AM, FM, and PM circuits. Prerequisites: ELET 2221, ELET 2223, and prerequisite or co-requisite: ELET 3701.

**ELET 3911. Mixed Signals I Laboratory.** (0-3) Credit 1 semester hour. Familiarization of mixed signal test equipment and software. Remote controlled equipment using Lab VIEW. Testing of analog and mixed signal devices such as diodes, transistors, op-amps, and comparators. Pre-requisites: ELET 2221 and ELET2223 and prerequisite or co-requisite: ELET 3913.

**ELET 3913. Mixed Signals I.** (3-0) Credit 3 semester hours. Overview of mixed signal testing. Test specification process, tester hardware, DC and parametric measurements, measurement accuracy, and sampling theory. Pre-requisites: ELET 2221 and ELET 2223 and prerequisite or co-requisite: ELET 3911.

**ELET 4082. Senior Project I.** (1-3) Credit 2 semester hours. A two-semester sequence for individual projects supervised by a faculty member of the department. The portions of the first semester course (4082) are devoted to group discussion of professional aspects of engineering ethics, research protocols, and patent considerations. A written proposal describing the project is required. Oral presentation throughout the semester on the research project using a conference style format. Prerequisite: Senior standing in the department and permission of the instructor required.

**ELET 4092. Senior Project II.** (1-3) Credit 2 semester hour. A two-semester sequence for individual and/or team projects supervised by a faculty member of the department. The portions of the second semester course (4092) are devoted to group discussion of professional aspects of engineering technology: research writing, engineering ethics, research protocols, patent considerations. Oral presentations throughout the semester culminating in a final written report. Prerequisite: Senior standing in the department, permission of the course instructor required, and ELET 4082.

**ELET 4101. Special Topics Laboratory.** (0-3) Credit 1 semester hour. Laboratory experiments in selected current and emerging topics in Electrical Engineering Technology. Pre-requisites: Consent of the Instructor.

**ELET 4102-4103. Special Topics.** (2-0, 3-0) Credit 2 or 3 semester hours. Selected current and emerging topics in Electrical Engineering Technology. Pre-requisites: Consent of the Instructor.

**ELET 4241. Operational Amplifier Theory and Applications Laboratory.** (0-3) Credit 1 semester hour. The application of designing and evaluating differential and operational amplifier circuitry, feedback configurations, linear and nonlinear circuitry. Pre-requisites: ELET 2221, ELET 2223, MATH 2024, and prerequisite or co-requisite: ELET 4243.

**ELET 4243. Operational Amplifier Theory and Applications.** (3-0) Credit 3 semester hours. The design and evaluation of differential and operational amplifier circuitry, feedback configurations, operational amplifiers, errors compensation, linear and nonlinear circuitry. Pre-requisites: ELET 2221, ELET 2223, MATH 2024, and prerequisite or co-requisite: ELET 4241.

**ELET 4471. Control Systems Laboratory.** (0-3) Credit 1 semester hour. The laboratory testing of automated controlled circuitry designed and developed with electrical engineering techniques. Automated controlled circuits designed with digital filter circuits will be tested. Pre-requisites: ELET 2341, ELET 2343, and prerequisite or co-requisite: ELET 4473.

**ELET 4473. Control Systems.** (3-0) Credit 3 semester hours. The application of control and automated systems to computers. The analysis and design of transducers and signal converters for process control. The development of electrical circuitry to be used in computer programming. Pre-requisites: ELET 2341, ELET 2343, and prerequisite or co-requisite: ELET 4471.

**ELET 4513. Advanced Integrated Circuits.** (3-0) Credit 3 semester hours. Fabrication of LSI and VLSI devices. Design considerations of PROM, EPROM, EEPROM devices and LIFO, FIFO memories. Students will be required to write computer programs that will perform typical dynamic testing of integrated circuits. Pre-requisites: ELET 2221 and ELET 2223.

**ELET 4621. Mixed Signals II Laboratory.** (0-3) Credit 1 semester hour. Testing of ADC and DAC. Gain and offset measurements, DC and linearity testing, FFT and its effect of aliasing. ATE projects. Pre-requisite: ELET 3911 and ELET 3913 and prerequisite or co-requisite: ELET 4623.

**ELET 4623. Mixed Signals II.** (3-0) Credit 3 semester hours. Sampling theory, DSP based mixed signal testing, analog channel measurements, DAC/ADC testing, focused calibrations, DIB design, data analysis and test economics. Pre-requisites: ELET 3911 and ELET 3913 and prerequisite or co-requisite: ELET 4621.

**ELET 4801. Communications Circuits II Laboratory.** (0-3) Credit 1 semester hour. Laboratory experiments in the areas of analog and digital data communication techniques. Pre-requisites: ELET 2221, ELET 2223, and prerequisite or co-requisite: ELET 4803.

**ELET 4803. Communication Circuits II.** (3-0) Credit 3 semester hours. Analog and Digital Data communications techniques including PPM, PWM, FSK, DM, PAM, and PCM. Data Modem, digital coding/decoding, Interfacing and Codec circuits. Pre-requisites: ELET 2221, ELET 2223, and prerequisite or co-requisite: ELET 4801.

**ELET4991-4992-4993 Independent Study.** (1-0, 2-0, 3-0) Credit 1 or 2 or 3 semester hours. Reading, research, and/or laboratory work on selected topics in Electrical Engineering Technology. Pre-requisites: Consent of the Instructor.

**GNEG 1011-1021. Engineering Professional Concepts.** (1-1) Credit 1 semester hour. Professional orientation and synthesis. Introduction to engineering practices and methods of analysis. Written and oral presentations and discussions by students, faculty, and visiting professionals on topics of timely interest relative to the engineering professional and professional development.

**GNEG 1111. Engineering Applications lab I for Mathematics.** (0-3) Credit 1 semester hour. Practical applications of Algebra and Trigonometry for problems in engineering, computer science and technology. Algebra and Trigonometry concepts will be reinforced through hands-on, physical application in the laboratory. Co-requisite: MATH 1115.

**GNEG 1121. Engineering Applications Lab II for Mathematics.** (0-3) Credit 1 semester hour, Practical applications of the 1st Level Calculus for problems in engineering, computer science and technology. The 1st level Calculus concepts will be reinforced through hands-on, physical application in the laboratory. Co-requisite: MATH 1124.

**GNEG 2021. Engineering Applications Lab III for Mathematics** (0-3) Credit 1 semester hour Practical applications of the 2nd level Calculus for problems in engineering, computer science, and technology. The 2nd level Calculus concepts will be reinforced through hands-on, physical applications in the laboratory. Co-requisite: MATH 2024

**GNEG 2151. Engineering Research I.** (0-0) Credit 1 semester hour. Research methodology course, the content of which includes an introduction to scientific method, formulation of research question, development and implementation of research plan, analysis and evaluation of results, and reporting of findings. Prerequisite: consent of instructor and research advisor.

**GNEG 2156 and 3156. Engineering Cooperative Education I and II.** (0-0) Credit 6 semester hours. A cooperative program of engineering with an approved engineering-based industry, engineering consulting firm, or governmental regulatory agency engaged in planning and administration of engineering functions. The student receives related engineering assignments in a real work situation. The assignment is commensurate with the theoretical engineering experience of the student.

**GNEG 3051 Professional Engineering I** (0-3) Credit 1 semester hour. Fundamentals of engineering and related science subjects include biology, chemistry, computers, electric circuits, engineering economics, ethics, fluid mechanics, materials science, mathematics, statics, dynamics, mechanics of materials, and thermodynamics. Prerequisite: MATH 2043, CHEG 2003, ELEG 1043 or COMP 1214, CVEG 2053 or 2454, ELEG 2023 or 2053, CHEG 2043 or MCEG 2013, CHEG 2013 or MCEG 2023 or ELEG 3033, and CHEG 3023 or CVEG 3063 or ELEG 3063 or MCEG 3063.

**GNEG 3113. Introduction to Engineering Project Management.** (3-0) Credit 3 semester hours. An introduction to engineering project management. The scope includes principles of project management and elements of engineering economics: defining project scope; identification of tasks; work breakdown structure; scheduling and resource allocation; budget management; and estimation of project costs including time value of money. Prerequisites: MATH 1113.

**GNEG 3151. Engineering Research II.** (0-0) Credit 1 semester hour. This is a course of research activities consisting of library, laboratory, or other research activities on selected problems. Results of the research are presented in formal, oral, and written presentations. Prerequisites: GNEG 2151 and consent of instructor and research advisor.

**GNEG 4151. Engineering Research III.** (0-0) Credit 1 semester hour. A continuation of GNEG 3151; in-depth research on selected problems. Results of the research are presented in formal, oral, and written presentations. Prerequisites: GNEG 3151 and consent of instructor and research advisor.

**MCEG 1011. Introduction to Engineering, Computer Science and Technology.** (1-0) Credit 1 semester hour. Introduction to basic engineering, computer science and technology concepts. Students will become aware of the various disciplines of engineering, computer science and technology, ethical responsibilities in these fields, creativity and design. Co-requisite: MCEG 1021 or equivalent course determined by department.

**MCEG 1021. Introduction to Mechanical Engineering Drawing and Design Lab I.** (0-3) Credit 1 semester hour. Introduction to 3D modeling, technical sketching, multiviews and visualization, geometric dimensioning and tolerancing, and working drawings and assembly.

**MCEG 2013. Thermodynamics I.** (3-0) Credit 3 semester hours. First Law, transformation of energy, theoretical limitations, Second Law, absolute temperature, entropy, and available energy, properties of gases, liquids, and vapors, and irreversibility. Prerequisites: MATH 2024 and PHYS 2513.

**MCEG 2023 Materials Science and Engineering.** (3-0) Credit 3 semester hours. Science concepts of crystal structures, atomic scale defects, bonding, phase diagrams and solidification. Relationship between microstructure and thermal, mechanical, optical, electrical and magnetic properties of materials. Prerequisite: CHEM 1034 or CHEM 1033 or equivalent.

**MCEG 3011. Measurement and Instrumentation Laboratory.**(0-3) Credit 1 semester hour. The scope of this course includes fundamentals in measurement theory, statistical analysis of experimental data, uncertainty, accuracy assessments, and calibration techniques. The course includes the use and applications of instruments for measuring area, pressure, time, speed, temperature, strain, hardness, and deflection. Prerequisites: PHYS 2513, PHYS 2511, COMM 1003, ENGL 1143 (or ENGL1133), and CHEM 1021.

**MCEG 3013. Heat Transfer.** (3-0) Credit 3 semester hours. Study of the fundamental modes of heat transfer; conduction, convection, and thermal radiation, separately and in combination. Theoretical, numerical, and design methods of analysis of steady, transient, single, and multidimensional problems will be emphasized. Prerequisite: MATH 2043; Co-requisite or prerequisite: MCEG 3063.

**MCEG 3021. Thermal Science Laboratory.** (0-3) Credit 1 semester hour. This course includes experimental investigation of the performance of various thermal systems, such as engines, combustion unit, heat exchangers, nozzles, boilers and turbo machinery. Prerequisites: MCEG 3011; Co-requisite or prerequisite: MCEG 3013 and ELEG 1043.

**MCEG 3023. Thermodynamics II.** (3-0) Credit 3 semester hours. Continuation of Thermodynamics I, including various power cycles, refrigeration cycles, fluid flow, combustion process, and advanced concepts of gas dynamic such as shock waves. Prerequisites: MCEG 2013 and MATH 2024.

**MCEG 3031. Manufacturing Processes Laboratory.** (0-3) Credit 1 semester hour. This lab includes experiments for metal identification, machinability of materials, effects of factors on surface roughness measurement, material removal rates, and cutting tool force analysis. It also includes illustrations of casting, forging, rolling, and powder metallurgy. Students will be required to design a structure part and perform manufacturing operations. Co-requisite or prerequisite: MCEG 3033.



**MCEG 3033. Manufacturing Processes.** (3-0) Credit 3 semester hours. This course provides the concepts for the conversion of materials into products. It includes measurement and quality assurance, and processes of casting, forming, material removal, and joining. In addition, it involves the study of computer numerical control machines, manufacturing systems, and automation. Prerequisites: MCEG 2023.

**MCEG 3043. Machine Design I.** (2-2) Credit 3 semester hours. Fundamentals of mechanical design methodology, design of machine elements for static and fatigue failure, individual projects and classroom discussions of various design solutions. Prerequisites: CVEG 2063 and MCEG 1021.

**MCEG 3053. Kinematic Design and Analysis.** (2-2) Credit 3 semester hours. This course includes the theory and application for the kinematic design of mechanisms. The students will be required to use computers to model, analyze, and synthesize mechanical systems. Prerequisites: MCEG 1021 and CVEG 2053.

**MCEG 3063. Fluid Mechanics.** (2-3) Credit 3 semester hours. The fundamental conservation laws in fluid statics and dynamics are derived and solved analytically and numerically. Other topics include: analysis of viscous and inviscid flow; laminar and turbulent flows in pipes and on external surfaces; open channel flow; hydraulic machinery; and introduction to compressible flow. Direct applications to problems encountered in practice and in engineering design will be covered. Problem solving and design application will be emphasized. Prerequisites: MCEG 2013; Co-requisite or prerequisite: MATH 2043.

**MCEG 3073. Automatic Controls.** (3-0) Credit 3 semester hours. Analysis and synthesis of continuous time control systems, transfer function, block diagrams, stability, root locus, state space representation, and design considerations for feedback control system. Prerequisites: MATH 3685 and Junior standing.

**MCEG 3123. Renewable Energy and Energy Sustainability.** (3-0) Credit 3 semester hours. The topics of various types of renewable energies, energy conversion, utilization and storage technologies, such as wind, solar, biomass, fuel cells and hybrid systems. For each source, the physical and technological principles are explained and the economics, environmental impacts and future prospects are examined. The course explores the main factors likely to influence the long-term evolution of the world's energy systems and the technologies and policies that could be adopted to create more sustainable energy systems. Prerequisite: CHEG 3113.

**MCEG 3156. Mechanical Engineering Internship I.** (0-0) Credit 6 semester hours, An internship program of work experience with an approved engineering firm. Prerequisite: Junior standing.

**MCEG 3193. Introduction to Robotics.** (3-0) Credit 3 semester hours. Fundamental topics in Robotics covering configuration (forward and reverse) kinematics, motion

kinematics, force/torque relations and trajectory planning. Rudiments of dynamics and position control are also introduced. Prerequisites: MATH 3685 and Junior standing.

**MCEG 4043. Machine Design II.** (2-2) Credit 3 semester hours. This is a design course featuring a design project using strength of materials, kinematics of machines, machine element design (e.g., gears and shafts), and CAD. Prerequisite: MCEG 3043; Co-requisite or prerequisite: MCEG 3053.

**MCEG 4063. Dynamic Systems and Controls.** (3-0) Credit 3 semester hours. The scope of this course includes mathematical modeling, analysis, and feedback control of dynamic systems. Topics include free and forced vibrations of single and multiple degrees of freedom systems. Transient, steady-state, and stability of linear feedback control systems will be studied in the course. Prerequisites: CVEG 2053 and MATH 2043.

**MCEG 4093. Finite Element Analysis and Design.** (3-0) Credit 3 semester hours. An introduction to finite element analysis as a modern computational tool to solve boundary value problems. Applications will be in structural mechanics, fluid flow, and heat transfer. Design and computer projects included. Prerequisite: CVEG 2063; Co-requisite or prerequisite: MCEG 3013.

**MCEG 4113. Modeling and Simulation of Engineering Systems.** (3-0) Credit 3 semester hours. Concepts, models, notations, and methods to effectively and efficiently design and implement complex engineering systems. Provides a hands-on approach to mathematical modeling and computer simulations across physical domains. Constrained and unconstrained systems are considered with examples of analytical and numerical solutions for system modeling and model validation. Prerequisites: ELEG 1043, CVEG 2053, and MCEG 3063 (or CVEG 3063).

**MCEG 4123. Energy System Design.** (3-0) Credit 3 semester hours. A design course emphasizing heat exchangers, heat pipes, heat reclamation devices, piping systems, and solar heating and cooling systems. Prerequisites: MCEG 3013 and MCEG 3023.

**MCEG 4156. Mechanical Engineering Internship II.** (0-0) Credit 6 semester hours. Continuation of MCEG 3156. Prerequisite: Senior standing.

**MCEG 4163. Special Topics.** (3-0) Credit 3 semester hours. Selected current and emerging topics in mechanical engineering depending on need determined by the department. Prerequisite: Consent of advisor.

**MCEG 4183. Gas Dynamics.** (3-0) Credit 3 semester hours. Fundamentals in compressible fluid flow, one dimensional and two dimensional flows, subsonic and supersonic flow. Topics include isentropic flow, normal and oblique shock, Prandtl-Meyer Flow, flow with friction and heat transfer, and various engineering applications. Prerequisites: MCEG 3023 and MCEG 3063.

**MCEG 4473. Senior Design and Professionalism I.** (1-4) Credit 3 semester hours. This is the first course of a two-semester capstone experience (MCEG 4483 must immediately

follow MCEG 4473 or sequence must restart with MCEG 4473) involving engineering design of an industrial or advanced team project. Elements of ethics and professionalism in engineering practice are integrated into the project experience. The project will include application of relevant engineering codes and standards, as well as realistic constraints. Design achievements are demonstrated with written reports and oral presentation. Prerequisites: MCEG 3043 and MCEG 3011; co-requisite or prerequisite: MCEG 3013.

**MCEG 4483. Senior Design and Professionalism II.** (1-4) Credit 3 semester hours. A continuation of MCEG 4473 with required design modifications of the team projects necessary to produce a working prototype of the designs initiated in Senior Design and Professionalism I. Design project deliverables include an oral presentation, a written report, and a formal demonstration of prototype, or model, of the design. Elements of professionalism reinforce the importance of engineering ethics, corporate culture, life-long learning, and globalization. Prerequisite: MCEG 4473. (MCEG 4483 must immediately follow MCEG 4473 or sequence must restart with MCEG 4473).

**MCEG 4991-4993. Independent Study.** (1-0, 3-0) Credit 1 or 3 semester hours. Readings, research, and/or field work on selected topics. Prerequisite: Consent of advisor.

**MCET 3103. Mathematical Applications for Technology.** (3-0) Credit 3 semester hours. A survey of appropriate concepts and techniques from methods with applications to the solution of problems in technology. Prerequisite: MATH 2024.

**TECH 1002. Engineering and Technology Seminar.** (2-0) Credit 2 semester hours. Introduction to the engineering, technology, architecture and computer science fields of study. The history and development of technology and how it affects multi/interdisciplinary studies. Scope and future of the fields of study and examination of the role of professionals in a highly technological society. Content designed especially for assisting students in learning to cope successfully in various interdisciplinary fields of study.

**TECH 1033. Engineering Graphics.** (2-4) Credit 3 semester hours. Introduction to graphics with emphasis on drafting techniques: use of instruments, lettering, geometric construction, multiview projections, auxiliary and sectional views, dimensioning, and pictorial drawings. \*(ENGR 1304)

**TECH 1113. Communication Technology.** (3-0) Credit 3 semester hours. A study of the technologies employed in the communication process. Topics include: the various technical communication systems, introduction to graphics communication, electronic and telecommunication systems and satellite systems. Prerequisite: None

**TECH 1123. Introduction to Technology.** (3-0) Credit 3 semester hours. Provides students an opportunity to explore and experience a large variety of tools, materials, and processes associated with technology. Designed to assist individuals in identifying their

areas of interests. Topics such as communications technology, energy technology, production technology, computer applications, research and development are included.

**TECH 1243. Production Technology.** (2-4) Credit 3 semester hours. A study in the production and planning; design and installation of integrated systems of materials, equipment and personnel; and measurement, testing and management of quality control in the manufacturing and construction industries. Prerequisite: TECH 1123

**TECH 2003. Basic Computer Automated Manufacturing.** (2-2) Credit 2 semester hours. An introductory study of Computer Integrated Manufacturing with emphasis on how subsystems apply to manufacturing applications. The integration of robotics, computers and other machines will be emphasized. Prerequisite: Department Head approval.

**TECH 2103. Computer-Aided Drafting II.** (2-4) Credit 3 semester hours. This course is a continuation of TECH 1103. Use of microcomputers to generate complex engineering drawings and designs. Advanced techniques for data input and drawing generation. Dimensioning, data base management, preparation of isometric drawings and introduction to 3D drawings, and plotting techniques. Prerequisites: Departmental approval.

**TECH 2163. Architectural Drafting.** (2-4) Credit 3 semester hours. Application of basic drafting of architectural working drawings to plans and sections and elevations. Building details are studied using standard components obtained from such references as Sweet's Catalog and Architectural Graphic Standards. Prerequisite: Departmental approval.

**TECH 2303. Photography I.** (2-2) Credit 2 or 3 semester hours. A study of the equipment, procedures, and processes that make photographs and of the ability to communicate through this medium. Instruction encourages competency development. Covers advanced scientific principles of optics, theory of light, camera handling, composition, film processing, print finishing, and photographic evaluation. Prerequisite: Departmental approval.

**TECH 2313. Quality Assurance.** (3-0) Credit 3 semester hours. An introduction to the concepts of applied quality control systems. This course deals with the problems and solution of how to achieve better quality in the production and manufacturing of products or systems. Topics covered include quality responsibility, control chart methods, sampling techniques, and reliability applications as they relate to engineering and technical products or systems. Prerequisite: Departmental approval.

**TECH 3004. Principles of the Computer Integrated Manufacturing System**(2-2) Credit 3 semester hours. A study of techniques of computer integrated manufacturing. Topics will include principles of automation in manufacturing, programmable automation based machines and the integration of robotics and CNC machines into the CIM system. Prerequisites: TECH 2003

**TECH 3013. Industrial Design.** (2-4) Credit 3 semester hours. Introduction to industrial design. Includes the creative process, objectives of design, standard parts and materials commonly used, and basic manufacturing practices to create useful products. Prerequisite: Departmental approval.

**TECH 3103. Manufacturing Processes.** (2-4) Credit 3 semester hours. An analysis of activities related to the production and distribution of goods and services. Instruction includes materials processing, management, and the free enterprise system. Prerequisite: Departmental approval.

**TECH 3113. Energy and Power Technology.** (3-0) Credit 3 semester hours. Considers techniques employed for using and controlling energy to perform work. A study of the generation, conversion transmission, control and use of power. Instruction includes exploration in mechanical, pneumatics, and fluid power. Prerequisite: Departmental approval.

**TECH 3123. Technology of Materials.** (2-4) Credit 3 semester hours. A study of tools, materials and processes common to wood, metals, plastics, and composites industries. Practical applications in the use and shaping of these materials into useful products. Including application and use of CNC machines. Prerequisite: Departmental approval.

**TECH 3203 Engineering and Technical Communications.** (3-0) Credit 3 semester hours. Oral and written presentations and documentations that focus on scientific and technical communications. Intended for professionals preparing for basic and applied sciences, engineering and technology fields of study. Emphasizes principles and use rather than use - it offers. Offers functional explanations rather than formal rules. Prerequisite: ENGL 1133 or ENGL 1143.

**TECH 3223. Electromechanical Drafting.** (2-4) Credit 3 semester hours. Electrical and electronic graphic symbols and terminology. Study of the basic types of electronic drawing block, single line, and schematic lines. Layout and development of mechanical chassis and housings are included. Prerequisites: Departmental approval.

**TECH 3233. Industrial Management and Supervision.** (3-0) Credit 3 semester hours. Principles of industrial management and supervision. Study of industrial organization, production and quality control, plant layout and planning, manufacturing cost analysis, and time and motion. Prerequisite: junior standing.

**TECH 3383. Pipe Drafting.** (2-4) Credit 3 semester hours. Vocabulary and definition of pipe drafting. Fundamental pipe symbols and single line drawings, including standard equipment and fittings. Dimensioning and isometric pipe drafting. Study of flow sheets as related to piping systems and structural systems for pipe supports. Prerequisite: Departmental approval.

**TECH 4072. Senior Project I.** (1-3) Credit 2 semester hours. This is the first part of a two part senior project course for technology majors. Students will be involved with a

special project selected by the student or advisor. Consideration is given to taking a project from the planning stage to implementation. Prerequisite: Senior Standing.

**TECH 4082. Senior Project II.** (1-3) Credit 2 semester hours. Continuation of TECH 4072. Students will complete the project. An oral presentation and written report are required. Prerequisite: TECH 4072.

**TECH 4103. Advanced Computer Aided Design.** (2-2) Credit 3 semester hours. A special problems course in which students may use various CAD software to design and to develop standard engineering documentation to meet specific applications. Students will develop skill in the management of the total CAD system with emphasis on team work in the work environment. Prerequisite: Departmental approval.

**TECH 4113. CAD Programming and Customization.** (1-3) Credit 3 semester hours. An advanced class designed to provide instruction in techniques of designing and customizing CAD programs to specific needs. Topics will include a study of languages and software, techniques of enhancing CAD software, and programming and customization techniques. Prerequisite: Senior classification and Department Advisor approval.

**TECH 4123. Manufacturing Technology Problems.** (2-4) Credit 3 semester hours. A class for advanced students wanting to study problems in manufacturing technology. Courses may be repeated for additional 3 hour credit with in-depth extension of previous problem class. Prerequisite: Senior classification and Department Advisor approval.

**TECH 4273. Industrial Safety Management.** (3-0) Credit 3 semester hours. A comprehensive, in-depth study of accident prevention and safety administration, emphasizing management aspects of safety. This course uses the most recently developed techniques for implementation of successful accident prevention techniques. Prerequisite: Advisor approval.

**TECH 4303. Construction Processes.** (1-4) Credit 3 semester hours. A study of the construction industry. Instruction includes a managed production system study in which roads, tunnels, bridges, dams, and buildings are produced and serviced on the site. Experiences are provided in planning, site preparation, scheduling work, contracting, construction of a structure, support systems, and assembling models. Prerequisite: Departmental approval.

**TECH 4313. Transportation Systems.** (3-0) Credit 3 semester hours. A study of transportation systems. An analysis of transportation in terms of land, sea, air, and aerospace vehicles. An analysis of the factors which affect design, safety, materials, control and ecological effects of transportation systems. Prerequisite: Junior Standing.

**TECH 4403. Machine Drafting.** (2-4) Credit 3 semester hours. A study of working drawings as applied to the machine shop with emphasis on relationship of views and dimensioning, correct interpretation of scale measurement and tolerance, and the application and interpretation of symbols and notes. Prerequisite: TECH 1033.

**TECH 4993. Independent Study.** (3-0) Credit 3 semester hours. Reading, research, and/or field work on selected topics. Prerequisite: Consent of department.

## **College of Juvenile Justice and Psychology**

### **Criminal Justice Undergraduate Program**

**CRJS 1123. Crime in America.** (3-0) Credit 3 semester hours. Presentations from active practitioners and researchers in the field of criminal justice on the current state of crime in America. The course includes an examination of the statements of offenders themselves on the nature of their criminality.

**CRJS 1133. Principles of Criminal Justice.** (3-0) Credit 3 semester hours. Principles of philosophy and history of criminal justice including the constitutional restraints imposed on criminal justice officials. Emphasis will be on the criminal justice officials' role in the prevention and control of crime and delinquency. \*\* (CRIJ 1301, 1314)

**CRJS 2113. Introduction to Geographic Information System.** (3-0) Credit 3 semester hours. An introduction to the fundamentals of Geographic Information System (GIS) and science and art of making maps. The course introduces students to the basic principles of using GIS as tool for managing and analyzing spatial data.

**CRJS 2413. Police Systems and Practices** (3-0) Credit 3 semester hours. A study of the structural aspects and principles of personnel management, program development, fiscal management, and other major components of police organization. \*\* (CRIJ 2332)

**CRJS 2423. Introduction to Criminal Investigation and Identification.** (3-0) Credit 3 semester hours. A survey of scientific crime detection methods, the identification and presentation of evidence, instrumentation, and crime report writing. \*\* (CRIJ 2314)

**CRJS 2433. Police Community Relations.** (3-0) Credit 3 semester hours. An examination of various aspects of police- community relations. It includes the effects of various forms of policing styles on community dynamics, misperceptions and bias on the part of both communities and the police. Other topics include civil rights and civil liberties as they relate to law enforcement policy. \*\* (CRIJ 2318, 2326)

**CRJS 2443.. Introduction to Homeland Security** (3.0) Credit 3 semester hours. The course will introduce students to the history of the Department of Homeland Security as a federal entity and homeland security as an area of study in the United States. It will include major research and theoretical perspectives that have resulted in significant initiatives to keep persons in the United States safe from various threats.

**CRJS 2453. Introduction to Terrorism** (3.0) Credit 3 semester hours. The study of the history and development of terrorism the various types of terrorism, including narco-terrorism, religious terrorism, state-sponsored terrorism and domestic terrorism. Emphasis will be placed on counter-terrorism program.

**CRJS 2513. Corrections: Systems and Practices** (3-0) Credit 3 semester hours. An examination of the organization, administration and management of correctional facilities and programs in the United States. It includes a study of the populations served,



sentencing structures and their outcomes for the individuals, families and communities involved.

**CRJS 2523. Alternatives to Incarceration.** (3-0) Credit 3 semester hours. An examination of various correctional alternatives to incarceration including probation, parole, developments in the technological monitoring of offenders, and community-based reintegration and rehabilitation efforts. \*\* (CRIJ 1321)

**CRJS 2613. Court Systems and Practices.** (3-0) Credit 3 semester hours. The legal procedures for arrest, complaint, presentation before the magistrate, grand jury consideration, indictment or waiver, arraignment, and the admissibility of evidence on these issues; pretrial matters, post verdict motions, sentencing, and appeal. \*\* (CRIJ 1306)

**CRJS 2643. Criminal Procedure.** (3-0) Credit 3 semester hours. An examination of the Fourth, Fifth and Sixth Amendments regarding search and seizure, warrant requirements, the right to counsel, confessions, and the admissibility of evidence. \*\* (CRIJ 2323)

**CRJS 2663. Evidence Law.** (3-0) Credit 3 semester hours. A study of Evidence Law with an emphasis on burden of proof, relevance, judicial notices, real and demonstrative evidence (including documents), the Hearsay Rule and its exceptions, privileges, unlawfully obtained evidence, and presumptions of guilt and innocence.

**CRJS 2713. Juvenile Justice Systems.** (3-0) Credit 3 semester hours. An overview of the Juvenile Justice System including research and theoretical perspectives. It includes an in-depth study of the system and early decision-making process with focus on the police, the juvenile courts and the limits on juvenile sanctions. Community-based corrections with a historical perspective on juvenile probation and juvenile aftercare are also examined. A thorough working knowledge of institutionalization in terms of the treatment of juvenile offenders is provided.

**CRJS 2723. Theories and Development of Juvenile Gangs.** (3-0) Credit 3 semester hours. This course is a comprehensive, in-depth coverage of historical and contemporary reactions to juvenile gangs. Among the key areas to be covered will be the legal and social definitions of juvenile delinquency, the theories, the social context, and the institutional responses. An understanding of public policy and its impact on juvenile gangs will complete the course.

**CRJS 2743. Law of Juvenile Justice.** (3-0) Credit 3 semester hours. The course offers an examination of both substantive and procedural laws related to juvenile justice including criminal law, criminal procedure, evidence, and family codes. The course also examines the institutions that enforce these laws and the principal actors involved. Finally, the course examines current trends and projections in juvenile justice.

**CRJS 2813. Computer Applications in Criminal Justice.** (3-0) Credit 3 semester hours. An introduction to the interface necessary for functioning effectively in various

areas of criminal justice. The course also examines how the use of computers and related technology has changed the process of maintaining law and order nationally and internationally. It includes a review of social engineering techniques (ways that people might enhance personal and institutional security) and the field of computer forensics.

**CRJS 3313. Policy Analysis: Prevention and Control.** (3-0) Credit 3 semester hours. A systematic examination of various crime control efforts involving primary and secondary prevention and the implementation of treatment programs.

**CRJS 3313. Policy Analysis: Prevention and Control.** (3-0) Credit 3 semester hours. A systematic examination of various crime control efforts involving primary and secondary prevention and the implementation of treatment programs.

**CRJS 3463 Transnational Crimes** (3.0) Credit 3 semester hours. The study of criminal behavior that transcends traditional national boundaries. The course will focus on the origins of these types of crimes and the efforts of law enforcement to address them. Cyber-terrorism, cyber-crimes, human trafficking, drug trafficking and patrimonial crimes will be reviewed.

**CRJS 3623. Criminal Law I.** (3-0) Credit 3 semester hours. A study of basic principles of substantive criminal law which include definitions of crimes against persons. Emphasis is on the Texas Penal Code as it pertains to murder, capital murder, voluntary homicide, criminal negligence, homicide, and sexual offenses. \*\* (CRIJ 1310).

**CRJS 3633. Criminal Law II.** (3.0) Credit 3 semester hours. A study of the basic principles of substantive criminal law which includes definitions of crime against property. Emphasis is on the Texas Penal Code related to arson, robbery, burglary, theft, forgery, embezzlement, and false pretense.

**CRJS 3673. International and Federal Criminal Law** (3.0) Credit 3 semester hours. The study of the origin purpose of international laws related to homeland security and terrorism and federal criminal law including crimes against persons, property crimes, principles, defenses and a comparison with state criminal law including the Texas Penal Code.

**CRJS 3733. Juvenile Probation and Parole.** (3-0) Credit 3 semester hours. A survey and analysis of juvenile probation aftercare. The course addresses the history and legal aspects of probation, role and responsibilities of the juvenile probation officer including pre-sentence investigation reports, conducting risk assessment, case planning, caseload supervision, probation officer safety, professional ethics, and trends in the field.

**CRJS 3823. Criminal Justice Research Methods I.** (3-0) Credit 3 semester hours. An introduction to research techniques such as formulating research questions, research design, and data collection methods such as surveys and case studies. The course also examines research ethics, locating data and navigating the special requirements for conducting research with protected populations such as incarcerated adults and juveniles. Students are also introduced to computer applications for research.

**CRJS 3933. Minorities and the Criminal Justice System.** (3-0) Credit 3 semester hours. An analysis of problems frequently encountered by minorities in the American justice system. This includes police-minority confrontations, an examination of possible bias throughout various levels of the justice system and the contributions of minority criminal justice practitioners, scholars, and activists to the development of the field of criminal justice.

**CRJS 4323. Criminal Justice Management Principles.** (3-0) Credit 3 semester hours. A study of basic criminal justice management theories and contemporary practices. This includes an examination of the unique behaviors, social skills and organizational techniques necessary for the criminal justice professional to be successful in various settings. Special attention is given to relating effectively with superiors, colleagues, subordinates and various members of the public impacted by criminal justice agencies.

**CRJS 4416. Undergraduate Internship in Criminal Justice.** (6-0) Credit 6 semester hours. A student may be required to satisfactorily complete a minimum of three month's internship in an approved criminal justice setting preferably between the junior and senior year. This internship program is specifically designed to acquaint the student with practical aspects of criminal justice.

**CRJS 4653. Constitutional Rights of the Criminally Accused.** (3-0) Credit 3 semester hours. A study of the rights of the criminally accused according to the United States Constitution.

**CRJS 4833. Seminar: Criminal Justice Research Methods II.** (3-0) Credit 3 semester hours. Direction in performing an original research project. This involves an examination of how a choice of research question influences methodology. Basic statistical concepts and techniques for obtaining and analyzing large quantitative data sets will be reviewed. The course also examines techniques for conducting qualitative research and a familiarity with the latest qualitative research software packages.

**CRJS 4913. Study of Criminal Justice Systems Abroad.** (3-0) Credit 3 semester hours. An analysis of criminal justice programs and institutions outside of the United States.

**CRJS 4923. Criminology.** (3-0) Credit 3 semester hours. Focus will be a comprehensive analysis of the sociological, psychological and biological aspects of deviant human behavior.

**CRJS 4943. Seminar: Contemporary Issues in Criminal Justice.** (3-0) Credit 3 semester hours. Focus on recent significant and controversial issues which affect the administration of justice especially in law enforcement, the courts and corrections.

**CRJS 4953. Seminar: Special Topics in Criminal Justice.** (3-0) Credit 3 semester hours. This course has a revolving theme from semester to semester. Theme areas include but are not limited to policing, courts, corrections, ethics, women and crime, economics and crime, white collar crime, terrorism, consensual crime, victimology,

alternative dispute resolution, media influences and special topics in juvenile justice. (May be repeated once for credit as the course theme changes). Department approval required.

**CRJS 4963. Philosophy of Crime.** (3-0) Credit 3 semester hours. An examination of religious and economic principles as they shape the definition and response to crime. This includes an analysis of specific concepts such as guilt, shame, care, love, desire and dignity on the evolution of deviance and crime across time and place in the western world.

**CRJS 4973. Women & Criminal Justice.** (3-0) Credit 3 semester hours. An ideological and historical analysis of the role of women and criminal justice as reformers, professionals, scholars, and as offenders.

**CRJS 4983. Ethical Decision-Making in Criminal Justice.** (3-0) Credit 3 semester hours. An overview of ethical theories, concepts, and issues. Illustrates the major unethical themes common in Criminal Justice management. Illustrates ethical dilemmas in policing, courts, prisons, community corrections, and crime prevention. The class works together to develop foundational ethical truths upon which to logically develop practice of moral decision making.

**CRJS 4993. Independent Study.** (3-0) Credit 3 semester hours. Readings, research or fieldwork on selected topics. Prerequisite: Consent of advisor.

## **Psychology Undergraduate Program**

**PSYC 1113. General Psychology.** (3-0) Credit 3 semester hours. Introduction to fundamental psychological concepts derived from the application of scientific method to the study of behavior. \*\* (PSYC 2301)

**PSYC 2423. Developmental Psychology.** (3-0) Credit 3 semester hours. This course surveys the content, theories and methods used by developmental psychologists to study child and adolescent development. Topics covered will include conception, genetics, prenatal development and physical, motor, perceptual and social development from infancy to early adolescence. Theories of social and cognitive development will be covered. Prerequisite: PSYC 1113. \*\* (PSYC 2308)

**PSYC 2513. Psychology of Personality.** (3-0) Credit 3 semester hours. Personality theories, major concepts, methods and problems in the field of psychology. Analysis of theories of personality, with emphasis on personality development in the normal population. Evaluation of theories in the field of psychology. The development of personality as a Statistics I. (3-0) Credit 3 semester hours. Introduces basic statistical concepts and the relevance of statistics in the behavioral sciences. Explores the fundamentals of descriptive statistics, elementary probability and sampling methods, and distributions. The student will be introduced to computer applications such as Statistical Package for the Social Sciences. Prerequisite: MATH 1113, College Algebra, or above.

**PSYC 3223. Abnormal Psychology.** (3-0) Credit 3 semester hours. Disorders in personality and behavior are emphasized. Examines organic and functional types of psychological abnormality. Some emphasis is given to the ways in which personality may become disordered. Evidence and theories on causation are considered together with the challenges of treatment.

**PSYC 3233. Psychological Testing.** (3-0) Credit 3 semester hours. Study of human learning with particular attention to applications in the classroom. Includes laboratory experience in the use of the standardized school tests and practice in devising teacher-made tests. Emphasis is on original research literature and on individual projects. Prerequisite: PSYC 2613.

**PSYC 3513. Psychological Perspectives in Human Diversity.** (3-0) Examines psychological explanations of the major dimensions of human diversity including race, ethnicity, culture, gender, age and sexual orientation. Prerequisites: PSYC 1113 General Psychology.

**PSYC 3533. Social and Cultural Psychology.** (3-0) Credit 3 semester hours. Examines psychological explanations of cultural and racial psychological processes with focus on sociocultural influences from society, family, media, and socio-economic status.

**PSYC 3433. Experimental Psychology.** (3-0) Credit 3 semester hours. Principles of experimental design, evaluation of pattern of strivings manifested in interpersonal

relations. The coverage of constitutional, psychological, social and cultural factors in the development and adjustment of the normal individual. \*\* (PSYC 2316)

**PSYC 2613. Statistics I for Psychology**

research procedures, training in the use of standard apparatus, and repetition and extension of selected classical experiments in psychology. Prerequisite: nine hours of psychology classes.

**PSYC 3543. History and Systems of Psychology.** (3-0) Credit semester hours. A survey of the theories and research paradigms comprised of the foundations of psychology and the impact of culture on practice and theory.

**PSYC 3613. Statistics II for Psychology.** (3-0) Credit 3 semester hours. Applies statistical techniques in the field of psychology. Covers the use of large and small samples for statistical inference, linear and multiple regression, time series models and forecasting, nonparametric methods, the chi square test for cell probabilities, and contingency tables. Statistical packages for the social sciences will be studied in depth. Prerequisite: PSYC 2613.

**PSYC 3913. Industrial and Organizational Psychology.** (3-0) Credit 3 semester hours. A survey of the development and application of psychological principles related to the workplace environment to include leadership, motivation, industrial and organizational influences on behavior drawing upon research methods and major theories.

**PSYC 4253. Introduction to Clinical Psychology.** (3-0) Credit 3 semester hours. A survey of counseling and interview techniques and use of psychological test findings in support of counseling procedures. Prerequisites: six hours of 2000 through 3000 level courses in psychology.

**PSYC 4443. Research Methods in Psychology.** (3-0) Credit 3 semester hours. Work in designing and carrying on research projects both in laboratory and in more life-like situations. The use and understanding of appropriate statistical procedures are emphasized. Prerequisite: PSYC 2613 and 9 additional hours of 2000-3000 level courses in Psychology.

**PSYC 4513. Cognitive Psychology.** (3-0) This course is an overview of the theoretical and empirical aspects of cognition as they apply to knowledge acquisition, storage, transformation and use. Areas of study include visual and auditory recognition; attention and consciousness; working and long-term memory; mental imagery; language acquisition, production and comprehension and problem solving. Prerequisites: PSYC 1113 General Psychology; Co-requisite: PSYC 4613 Physiological Psychology.

**PSYC 4613. Physiological Psychology.** (3-0) Credit 3 semester hours. Neurophysiologic correlates and systems underlying behavior. Physiological processes underlying sensory-motor activity, motivation and learning.

**PSYC 4633. Sensation and Perception.** (3-0) Credit 3 semester hours. Examines the sensory processes, the relationship between physical stimuli and sensory/perceptual experience, and perceptual phenomena. Prerequisite: PSYC 4613.

**PSYC 4823. Readings and Research.** (3-0) Credit 3 semester hours. Offered when demand warrants. Seminar or projects on various topics in psychology.

**PSYC 4843. Senior Paper.** (3-0) Credit 3 semester hours. An in-depth study of a specific research topic in psychology. An oral presentation is a requirement of the course. Prerequisites: PSYC 2613, PSYC 3433, PSYC 3613, and PSYC 4443.

**PSYC 4993. Independent Study.** (3.0) Reading, research and/or field work on selected topics. Prerequisite: Advisor consent.

\*\*Transfer equivalent from Texas Community Junior Colleges.

## **College of Nursing**

**NURS 3001. Seminar I – Historical Perspective and Current Issues.** (1-0) Credit 1 semester hour. This seminar will help the student evolve as a professional by exploring the evolution of issues and trends using a historical perspective. Major issues and policies influencing health care will be included. Consent by Instructor.

**NURS 3003. Introduction to Pharmacology.** (3-0) Credit 3 semester hours. This course discusses basic concepts of pharmacology with emphasis on nursing implications. Prerequisite: NURS 3164, 3263. MATH 1113

**NURS 3004. Concepts of Professional Nursing Practice.** (4-0) Credit 4 semester hours. The philosophy and conceptual framework of the College of Nursing will serve as the foundation for exploring professional nursing, nursing roles, group dynamics, and the nursing process. Major issues and trends influencing health care delivery will be included. For Registered Nurses Only. Prerequisite: PHIL 2013, BIOL 1054, 1064. Admission to RN-BSN Program.

**NURS 3005. Transition to Professional Nursing.** (3-8) Credit 5 semester hours. Designed for the LVN to BSN student to explore the context of professional nursing including critical thinking and evidence based nursing practice. Course content and clinical activities focus on professional roles, values and responsibilities for nursing practice in a dynamic, culturally diverse care environment. Clinical application will focus on care of adults with a variety of health alterations. Prerequisite: BIOL 1054, 1064. Admission to LVN-BSN Program.

**NURS 3011. Seminar I: Introduction to Professional Practice.** (1-0) Credit 1 semester hours. This course partially fulfills the requirements of a clinical internship program. It is designed to introduce students to professional practice. This is a collaborative work-study-scholarship program with a hospital agency and the College of Nursing.

**NURS 3021. Seminar II: Transition to Advance Nursing Practice.** (1-0) Credit 1 semester hours. This course is designed to assist the student transition into the professional nursing practice by demonstration of clinical skills in patient care. This is the second course in a series of four courses required in this internship program.

**NURS 3013. Individual Health Assessment.** (2-2) Credit 3 semester hours. This course introduces basic components and techniques of the health assessment within the framework of the nursing process. It focuses on data collection regarding the individual's adaptation to internal and external factors within the environment. Emphasis is placed on the individual with high level wellness throughout the lifespan. Laboratory experiences include the application of health assessment skills. Prerequisite: BIOL 1073, CHEM 1053/1051. Admission to clinical studies.

**NURS 3021. Seminar II- Trans Adv. Nursing.**



**NURS 3023. Basic Pathophysiology.** (3-0) Credit 3 semester hours. This course explores the basic principles and concepts of human disease processes. Normal, compensatory, and pathological mechanisms related to physiological functioning of the individual in health and illness are discussed. Prerequisite: BIOL 1073, CHEM 1053/1051. Admission to clinical studies.

**NURS 3031. Seminar III: Clinical Practicum.** (1-0) Credit 1 semester hours. This course is designed to assist students practice nursing skills in various advanced patient care situations. This is the third course in a series of four courses required in this internship program.

**NURS 3041. Seminar IV: Clinical Leadership.** (1-0) Credit 1 semester hours. This is the final (fourth) course to fulfill the clinical internship program. Students will demonstrate leadership in providing patient care and application of the professional nursing role.

**NURS 3102. Tools For Success in Nursing.** (2-0) Credit 2 semester hours. This course introduces the student to nursing as a profession. Learners explore historical perspectives, educational pathways and practice roles in nursing. Students will review major concepts which build on prerequisite coursework and develop skills to promote success in nursing, HIST 1313, HIST 1323, PHIL 2012, SOCG 1013

**NURS 3123. Adult Health Concepts.** (3-0). Credit 3 semester hours. This elective course provides a means for students to enrich their knowledge of adult health concepts and principles. Emphasis will be placed on the nursing management of clients with selected health problems and their associated needs, NURS 3164, 3263; Elective.

**NURS 3164. Basic Concepts of Nursing.** (4-0) Credit 4 semester hours. This theory course introduces basic concepts utilized in health promotion and minor health alterations. Emphasis is placed on identifying basic human needs and understanding principles guiding nursing practice. Prerequisite BIOL 1073, 1054, 1064; HUSC 1343. Co-requisite: NURS 3263.

**NURS 3174. Adult Health Nursing I.** (4-0) Credit 4 semester hours. This theory course focuses on the nursing care of adult clients experiencing moderate to major alterations from health. Nursing care of clients with acute and chronic health alterations is explored. Prerequisite or co-requisite: NURS 3003, 3023. Co-requisite: NURS 3273. Prerequisite: NURS 3164, 3263, 3013, 3023.

### **3185. Family Health Nursing.**

**NURS 3185. Family Health Nursing.** (5-0) Credit 5 semester hours. This course focuses on the provision of family centered child care. Emphasis is placed on the nursing management of children and their families in health promotion and adaptation to illness.

**NURS 3223. Introduction to Preoperative Nursing.** (3-0) Credit 3 semester hours. This theory and clinical course provides the student an opportunity to further develop knowledge and skills in the perioperative nursing role. Direct supervision will be provided enabling the student to experience components of the professional and technical role. Participation as a member of the surgical team will be included. Pre-requisites: NURS 3013, 3164, 3174, Elective.

**NURS 3263. Basic Concepts of Nursing Practicum.** (0-12) Credit 3 semester hours. This clinical practicum provides an opportunity for the application of concepts and principles basic to nursing practice. Experiences are provided in a variety of agencies for the utilization of the nursing process in caring for individuals with health promotion needs and minor to moderate health alterations. Co-requisite: NURS 3164.

**NURS 3273. Adult Health Nursing I Practicum.** (0-12) Credit 3 semester hours. This clinical practicum course provides an opportunity for students to use the nursing process to provide care for clients with acute and chronic health alterations. Clinical experiences are provided in a variety of acute care settings. Pre-requisite: NURS 3164. Co-requisite: NURS 3174.

**NURS 3284. Family Health Nursing Practicum.**

**NURS 3284. Family Health Nursing Practicum.** (0-16) Credit 4 semester hours. This clinical practicum provides an opportunity for the student to apply concepts and principles of family health nursing in a variety of health care settings. Implementation of care for childbearing and childrearing families occur within the framework of this course.

**NURS 3333. Media Insights into Nursing and Health Care.** (3-0) Credit 3 semester hours. This course studies literature, drama and the arts as they portray societal perspectives of health and illness and medical care through history. Consent of Instructor. Elective

**NURS 3343. Promoting Lifetime Physical Fitness and Wellness.** (3-0) Credit 3 semester hours. This course uses analysis of the student's lifestyle attitudes and practices related to activity and nutrition to develop a plan to improve individual behavior using a health promotion model. The student will implement and evaluate the effects of the program on his/her general health status and well-being. Consent of Instructor.

**NURS 3353. Camp Nursing: Care of Special Populations.** (3-0) Credit 3 semester hours. This course is designed to allow the undergraduate the opportunity to work with children who have asthma in an environment that emphasizes the wellness aspect of their health problem. The focus will be on the long term side effects, both emotional and physical effects of asthma and how to use the summer camp as an arena to increase education and self-esteem of the child. The clinical learning experiences take place in a camp setting for children with asthma. Pre-requisite: NURS 3174, 3003. Consent of Instructor.

**NURS 3363. Bioethics and the Nursing Professional.** (3-0) Credit 3 semester hours. The Essentials of Baccalaureate Education for Professional Nursing Practice includes Professionalism and Professional Values as Essential VIII. It is clear and relevant that the values set forth by AACN—which also are the core values of bioethics—be incorporated in nursing education to enhance tolerance, patience, and compassion in a changing profession and a changing world.

**NURS 3373. Environmental Health Nursing.** (3-0) Credit 3 semester hours. This course discusses concepts related to the environment and its role in health and in professional nursing. For all nursing students.

**NURS 3383. Nursing Without Borders: Global Health Perspectives.** (2-1) Credit 3 semester hours. This is a lecture/lab course that focuses on a holistic approach to nursing care of families and cultural groups. Emphasis is placed on the nurse's role in health promotion, health maintenance and illness prevention in families from cultures in a national and international setting. Environmental influences on the family are explored. This course is repeatable up to 6 semester credit hours. Pre-requisites: NURS 3024: Pathophysiology and NURS 3003: Pharmacology

**NURS 4013. Introduction to the Research Process.** (3-0) Credit 3 semester hours. This course discusses basic research methodology and its application to the practice of nursing. Computer aids to research are considered. Prerequisite: Completion of Semester II. PSYC 2613, COMM 1003, NURS 3174, NURS 3003.

**NURS 4032. Trends and Issues in Professional Nursing.** (2-0) Credit 2 semester hours. This course explores legal and ethical issues using a decision making framework to guide the practice of nursing. Major policies influencing health care and professional nursing will be included. For Registered Nurses Only. Pre-requisites: NURS 3004; NURS 4173.

**NURS 4123. Special Topics in Nursing.** (3-0) Credit 3 semester hours. The study of various areas in nursing and health care as they relate to contemporary social issues. Course may be repeated for credit when topics vary. Prerequisite: Consent of instructor. Elective

**NURS 4163. Mental Health Nursing.** (3-0) Credit 3 semester hours. This theory course focuses on the application of the nursing process in providing care to clients experiencing psychopathological conditions along the wellness-illness continuum. Prerequisite: NURS 3193, 3183, PSYC 1113. Corequisite: NURS 4262.

**NURS 4173. Community Health Nursing.** (3-0) Credit 3 semester hours. This theory course focuses on the synthesis of public health concepts within a preventive framework to promote and maintain the health of communities. The nursing process is used in community assessment, risk identification and application of community health nursing strategies. Prerequisite: NURS 3004, 4163, 4183. Co-requisite: NURS 4272.

**NURS 4183. Adult Health Nursing II.** (3-0) Credit 3 semester hours. This theory course emphasizes the utilization of the nursing process in providing care for clients experiencing major physiological deviations from wellness. Nursing care of clients with multi-system complex health alterations is explored. Prerequisite: NURS 3183, 3193. Co-requisite: NURS 4282.

**NURS 4193. Nursing Leadership and Management.** (3-0) Credit 3 semester hours. This theory course focuses on concepts and principles of leadership and management. Functions of beginning nurse management roles are explored. Prerequisite: NURS 4183, 4163. Co-requisite: NURS 4173, 4272, 4292.

**NURS 4262. Mental Health Nursing Practicum.** (0-8) Credit 2 semester hours. This clinical practicum course focuses on the application of the nursing process when providing health, promotion, protection, and restoration care for culturally diverse individuals, groups and families at varying levels of risk for psychological impairment in a variety of clinical settings. Prerequisite: NURS 3193, 3183. Co-requisite: NURS 4163.

**NURS 4272. Community Health Nursing Practicum.** (0-8) Credit 2 semester hours. This clinical practicum provides the student an opportunity to synthesize the nursing process with public health concepts in the nursing care of individuals, families, groups and communities with a focus on preventive nursing care. Prerequisite: NURS 4183, 4163 Co-requisite: NURS 4173, 4193.

**NURS 4282. Adult Health Nursing II Practicum.** (0-8) Credit 2 semester hours. This clinical practicum course provides an opportunity for students to apply the nursing process when caring for client with multi-system complex health alterations. Clinical experiences in a variety of settings are used. Prerequisite: NURS 3183, 3193 Co-requisite: NURS 4183.

**NURS 4292. Nursing Leadership and Management Practicum.** (0-8) Credit 2 semester hours. This clinical practicum provides an opportunity for the transition of nursing students into professional nursing practice. Students will apply leadership and management principles and concepts to patient care coordinator of care, and functions of healthcare organizations. Prerequisite: NURS 4183, 4163. Co-requisite: NURS 4193, 4173, 4272.

**NURS 4313. Nursing and Cultural Diversity.** (3-0) Credit 3 semester hours. This course examines application of the nursing process as it relates to selected cultures. The primary concerns will be diverse communication systems and cultural norms within the health care delivery system. Consent of Instructor. Elective.

**NURS 4323. Introduction to Disaster/Emergency Preparedness and Response.** (3-0) Credit 3 semester hours. This course provides a foundation in the principles of disaster planning and management from a disaster team perspective. The roles of different members of the disaster team are examined with a focus on the role of the nurse. Various classifications of disasters, including natural and human-made disasters, are identified and defined and various biological, chemical and nuclear agents are discussed. Nursing

care of physical injuries and psychological/behavior manifestations of disaster victims and workers involved in natural and man-made disasters are highlighted. Consent of Instructor. Elective.

**NURS 4343. Group Dynamics and the Nursing Process.** (3-0) Credit 3 semester hours. This course focuses on the understanding of group dynamics and its impact on nursing practice. An exposure to small-group theory and research, a weekly sensitivity training group, and clinical utilization of theory in a nursing care setting are integral parts of the course. Prerequisite: Advisor Consent. Consent of Instructor. Elective.

**NURS 4353. Advanced Nursing Concepts.** (3-0) Credit 3 semester hours. This course explores advanced clinical and theoretical issues relating to nursing practice. Prerequisites: NURS 3183, 3193. Elective.

**NURS 4363. Human Sexuality: Implications for Nursing.** (3-0) Credit 3 semester hours. This course explores the sexual needs of patients as these needs relate to the provision of nursing care for individuals who are ill or disabled. Consent of Instructor. Elective

**NURS 4373. Nursing and the Aged.** (3-0) Credit 3 semester hours. This course examines the utilization of the nursing process with aged clients. Major problems of aging are emphasized. Consent of Instructor. Elective

**NURS 4383. Patient Education and Nursing Practice.** (3-0) Credit 3 semester hours. This course discusses patient education relative to the prevention of illness and to the maintenance and restoration of health. Consent of Instructor. Elective

**NURS 4403. Nursing Process Seminar.** (3-0) Credit 3 semester hours. This course culminates professional socialization by focusing on the integration of behaviors essential in the transition from nursing student to professional nursing. Comprehensive review and evaluation of essential concepts and principles within the professional knowledge base including adult health, maternal/child, mental health, community health, and management. Prerequisite: Completion of Semester IV, NURS 4163, 4183.

**NURS 4991-4992-4993. Independent Study.** (1, 2, or 3-0) Credit 1, 2, or 3 semester hours. Selected topics are explored through reading, research, and/or field work. Consent of Instructor.

**PRAIRIE VIEW A&M UNIVERSITY**

**Officers of Instruction for 2008-2010**

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ABROM-JOHNSON, TENEINGER D.

B.S., Prairie View A&M University, 1989

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B.S., Prairie View A&M University, 1969

M.A., Prairie View A&M University, 1990

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B.S., University of Philippines, 1957  
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### **School of Architecture**

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