MATH 1103- Contemporary College Algebra
Summer 202

Instructor: Frankson Collins II
Section # and CRN: P02- CRN-32430
Office Location: WR Banks; Room 327
Office Phone: 936-261-2091
Email Address: frcollins@pvamu.edu
Office Hours: Virtual zoom MTWR 9-10am
Mode of Instruction: F2F/Hybrid
Course Location: Virtual/ Hobart Thomas Taylor Sr Hall 2G254
Class Days & Times: MTWR 10:15am – 12:55 pm

Catalog Description: Data Collection, Variable Representation, Function, Linear Function, Prediction, Systems of linear equations, Linear Programming, Applications, Modeling across the discipline, Quadratic and other fundamental functions, Probability, Sampling Spaces, Expectations, Models, Consumer Mathematics, Simple and compound interests, finance charges, new balance and monthly payments, annual percentage rate (APR), annuity and amortization. Cannot receive credit for both MATH 1103 and MATH 1113. This course is designed for Non-Stem (Science, Technology, Engineering and Mathematics Majors.)
Prerequisites: TSI exempt or TSIA math score of minimum 350 or a grade of ‘C’ in MATH 0133

Co-requisites: NA or MATH 0300 if not TSI complete (TSIA math score of 347-349)

Required Texts/Resources:

Viewing Life Mathematically: A Pathway to Quantitative Literacy
Denley and Hall; Hawkes Learning

Online access to Hawkes for homework

Calculator: Advanced Scientific up to TI 84 Graphing

Newspapers, Internet

Recommended Texts/Resources: Student Learning Outcomes:

<table>
<thead>
<tr>
<th>Program Learning Outcome #</th>
<th>Core Curriculum Outcome Alignment</th>
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</thead>
<tbody>
<tr>
<td>1.0 Collect, display and interpret data using line, scatter, bar and pie charts</td>
<td>1, 3</td>
</tr>
<tr>
<td>2.0 Recognize basic mathematical patterns and use the patterns to solve problems</td>
<td>1, 2</td>
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<tr>
<td>3.0 Understand the meaning of a variable and the relationships between variables</td>
<td>1, 2</td>
</tr>
<tr>
<td>4.0 Develop functions based on data collected in real-world applications</td>
<td>1, 2</td>
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<tr>
<td>5.0 Identify and determine the difference between polynomial, rational, radical, absolute and transcendental functions</td>
<td>1, 2</td>
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<tr>
<td>6.0 Find the domain and range, intervals of increasing and decreasing, one-to-one and the inverses of functions</td>
<td>1, 2</td>
</tr>
<tr>
<td>7.0 Demonstrate the understanding of linear equations, systems of linear equations, linear inequalities, linear programming and the applications of each</td>
<td>1, 2, 3</td>
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<tr>
<td>8.0 Understand the relationships between linear inequalities and linear programming</td>
<td>1, 2, 3</td>
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<tr>
<td>9.0 Demonstrate the understanding of basic graph transformations</td>
<td>1, 3</td>
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<tr>
<td>10.0 Understand the basic concepts of probability</td>
<td>1, 2</td>
</tr>
<tr>
<td>11.0 Develop problem solving skills and model real-world applications related to appropriate disciplines utilizing multiple approaches</td>
<td>1, 2, 3</td>
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Program Learning Outcomes:
1. Demonstrate basic mathematical computational skills and distinguish uses of concepts in Calculus, Algebra, and Applied Mathematics.
2. Demonstrate the ability to write mathematically rigorous proofs.
3. Demonstrate the ability to perform advanced mathematical.
4. Demonstrate a breadth and depth of knowledge in applied mathematics.

Core Curriculum Learning Outcomes:

1. Critical Thinking Skills
2. Communication Skills
3. Teamwork
4. Empirical and Quantitative Skills
5. Personal Responsibility
6. Social Responsibility

Major Course Requirements

Method of Determining Final Course Grade

<table>
<thead>
<tr>
<th>Course Grade Requirement</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>1) Attendance</td>
<td>10%</td>
</tr>
<tr>
<td>2) Homework</td>
<td>15%</td>
</tr>
<tr>
<td>3) Project Average</td>
<td>25%</td>
</tr>
<tr>
<td>4) Exam Average (1, MT, 3)</td>
<td>30%</td>
</tr>
<tr>
<td>5) Final Exam</td>
<td>20%</td>
</tr>
</tbody>
</table>

Total: 100%

Grading Criteria and Conversion:

A = 90-100
B = 80-89
C = 70-79
D = 60-69
F = below 60
Detailed Description of Major Assignments:

<table>
<thead>
<tr>
<th>Assignment Title or Grade</th>
<th>Requirement</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Homework: 15%</td>
<td></td>
<td>You must purchase the online homework. If you do not, the highest grade possible is an 85 in this course.</td>
</tr>
<tr>
<td>Exams: 30% &amp; 20%</td>
<td></td>
<td>You will have 4 exams in this course. One of the four is the Midterm and another of the four is the Final. Each exam is approximately four weeks apart.</td>
</tr>
<tr>
<td>Projects: 25%</td>
<td></td>
<td>You will have an Individual Project 1 and a Individual Project 2 that are required. All projects will be turned into Ecourse via the modules link. The details of each project will be posted on ecourses.</td>
</tr>
</tbody>
</table>

Course Procedures or Additional Instructor Policies

Taskstream
Taskstream is a tool that Prairie View A&M University uses for assessment purposes. One or more of your assignments may be required for submission as an “artifact,” an item of coursework that serves as evidence that course objectives are met. More information will be provided during the semester, but for general information, you can visit Taskstream via the link in eCourses.

Make Up Work and Late Assignments and Exams
There will be NO makeup test administered or late assignments accepted. If a student will be absent from class due to participation in an excused university activity, they must make arrangements to take the test or turn in assignments prior to the absence. Individual project and Group Projects are submitted according to instructor preference and will not be accepted late. Assignments may be submitted early.

Homework will be submitted online on due dates.

Any unannounced quizzes will be used as bonus points. No make ups will be offered.

Policies for Technology Use

- Use of various technologies is allowed and encouraged only in class and for homework (HW) assignments. However, students are strongly encouraged to make sure understand the problem and the solution rather than just copy from different sources. Justification of solutions in non-automated HW assignments is required.
- All tests must be taken in class and at their scheduled times.
- Any sickness’ supporting document must be verified by the department of mathematics.
- A Makeup test should be taken in the faculty or in the mathematics’ department office.
- For tests, including midterm and final exam, you will be given a one-sheet consisting of complex formulae that can be used for your test, in case it would help you. You should return this sheet along with your test sheet.
• Taking your tests, you are allowed to use a calculator up to the TI 84 level (Graphing calculator). Calculators will NOT be shared on exams.
• Any cellular phone and/or any other device that has access to the Internet and/or is capable of taking picture is not allowed on tests.

Attendance Policy:
Prairie View A&M University requires regular class attendance. Excessive absences will result in lowered grades. Absences accumulate beginning with the first day of class.

Phones in class:
• Do not have a phone or text conversation during class time.
• No watching videos, etc during class time.
• Please put your phone away.

PVAMU Honor Affirmation Statement
“I affirm on my honor that I will abstain from dishonesty in all scholastic work and personal interactions.”
• This Statement will be on all exams and must be included when turning in projects.
• Please see eCourse for pdf about Academic Integrity

Semester Calendar
(Topics & Timeline are subject to change)
A topic outline will also be posted on ecourse.

<table>
<thead>
<tr>
<th>Week</th>
<th>Chapter to Discuss</th>
<th>√</th>
<th>Topic of Discussion</th>
<th>Dates M-F</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Review Ch 8 Statistics</td>
<td></td>
<td>Syllabus, Introductions, Review basic math skills ie order of operations, weighted average, fractions etc. 8.1 Collecting Data, 8.2 Displaying Data, 8.3 Describing &amp; Analyzing Data (stop before st. dev), 8.5 Linear Regression</td>
<td>W 7/7 – T 7/8  Quiz on Thursday, Test On Friday, Project 1: Cell Phone project</td>
</tr>
<tr>
<td>2</td>
<td>Ch 9 Personal finance Ch. 4 Rates, Ratios, Proportions, &amp; Percentages</td>
<td>9.1 Understanding Personal Finance, 4.4 Using percentages(Service Tipping, Sales Tax, Sale Price), 9.2 Understanding Interest, 9.3 Saving money</td>
<td>M07/12 - R07/15, Quiz on Thursday, Test on Friday</td>
<td></td>
</tr>
</tbody>
</table>
| 3  | Ch 9 Personal finance  
    | Ch 1 Critical Thinking & Problem Solving | 9.4 Borrowing Money  
    |                                             | 1.1 Thinking Mathematically  
    |                                             | 1.2 Problem Solving: Processes & Techniques  
    |                                             | 1.3 Estimating & Evaluating | M 7/19 - R 7/22  
    |                                             | Quiz on Thursday  
    |                                             | Project 1 Due on 7/19  
    |                                             | Project 2: Chapter 9 |
| 4  | Ch 5 Mathematics of Growth | 5.1 The Language of Functions  
    |                                             | 5.2 Linear Growth  
    |                                             | 5.3 Discovering Quadratics | M 7/26 – R 7/29  
    |                                             | Quiz on Thursday  
    |                                             | Midterm on Friday |
| 5  | Ch 5 Mathematics of Growth  
    | Ch 7 Probability | 5.3 Discovering Quadratics  
    |                                             | 5.4 Exponential Growth  
    |                                             | 7.1 Intro to Probability(Stop after Classical Probability)  
    |                                             | 7.2 Counting our way to Probability | M 8/2 – R 8/5  
    |                                             | Quiz on Thursday  
    |                                             | Project 2: Chapter 9  
    |                                             | Due M 8/2 |
| 6  | Review & Final Exam | M08/9- T08/10  
    |                                             | M-9th Last day class/T-10th FINAL EXAM |

**Student Support and Success**

**John B. Coleman Library**
The library and its partners have as their mission to provide resources and instructional material in support of the evolving curriculum, as a partner in Prairie View A&M University's mission of teaching, research, and service and to support the University's core values of access and quality, diversity, leadership, relevance, and social responsibility through emphasis on ten key areas of service. It maintains library collections and access both on campus, online, and through local agreements to further the educational goals of students and faculty. [https://www.pvamu.edu/library/](https://www.pvamu.edu/library/)
Phone: 936-261-1500

**University Tutoring Center**
The Center offers tutoring via peer tutoring. The services include workshops (i.e., Save My Semester, Recalculate Your Route), seminars (i.e., Tools You Can Use: TI-84), group review sessions (i.e., College Algebra Topic Reviews, GRE Preparation), group study opportunities (i.e., TSIA, HESI, Study Break, Exam Cram), and test-taking strategies (How to take Notes, Study Buddy, 5 Day Study Guide). The Learning Curve is a nationally certified tutoring program through the National Tutoring Association. The peer tutors are trained and certified by the coordinator each semester. Location: J.B. Coleman Library Rm. 307. Phone: 936-261-1561
The Student Academic Success Center
The Student Academic Success Center is designed to help Prairie View students in their second year and beyond navigate towards graduation by providing the following services: Academic Advisement, Targeted Tutorials for Personalized Learning, Campus-Wide Referrals, and Academic & Social Workshops. Location: J.B. Coleman Library Rm. 306. Phone: 936-261-1040

Writing Center
The Writing Center provides student consultants on all aspects of the writing process and a variety of writing assignments. Writing Center consultations assist students in such areas as prewriting, brainstorming, audience awareness, organization, research, and citation. Students taking on-line courses or courses at the Northwest Houston Center or College of Nursing may consult remotely or by email. Location: Hilliard Hall Rm. 121. Phone: 936-261-3724

Student Counseling Services
The Student Counseling Services unit offers a range of services and programs to assist students in maximizing their potential for success: short-term individual, couples, and group counseling, as well as crisis intervention, outreach, consultation, and referral services. The staff is licensed by the State of Texas and provides assistance to students who are dealing with academic skills concerns, situational crises, adjustment problems, and emotional difficulties. Information shared with the staff is treated confidentially and in accordance with Texas State Law. Location: Owens-Franklin Health Center Rm. 226. Phone: 936-261-3564

Testing
The Department of Testing administers College Board CLEP examinations, the HESI A2 for pre-nursing majors, LSAT for law school applicants and MPRE for second-year law students, the Experiential Learning Portfolio option, the Texas Success Initiative (TSI) Assessment, which determines college readiness in the state, and exam proctoring, among other service such as SAT and ACT for high school students. Phone: 936-261-3627

Office of Disability Services
As a federally-mandated educational support unit, the Office of Disability Services serves as the repository for confidential disability files for faculty, staff, and students. For persons with a disability, the Office develops individualized ADA letters of request for accommodations. Other services include: learning style inventories, awareness workshops, accessibility pathways, webinars, computer laboratory with adapted hard and software, adapted furniture, proctoring of non-standardized test administrations, ASL interpreters, ALDs, digital recorders, livescribe, Kurtzweil, and a comprehensive referral network across campus and the broader community. Location: Evans Hall Rm. 317. Phone: 936-261-3585

Veteran Services
Veterans Services works with student veterans, current military and military dependents to support their transition to the college environment and continued persistence to graduation. The Office coordinates and certifies benefits for both the G.I. Bill and the Texas Hazlewood Act. Location: May Hall Rm. 118. Phone: 936-261-3563

Office for Student Engagement
The Office for Student Engagement delivers comprehensive programs and services designed to meet the cocurricular needs of students. The Office implements inclusive and accessible 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. Location: Memorial Student Center Rm. 221. Phone: 936-261-1340

Career Services
Career Services supports students through professional development, career readiness, and placement and employment assistance. The Office provides one-on-one career coaching, interview preparation, resume and letter writing, and career exploration workshops and seminars. Services are provided for students at the Northwest Houston Center and College of Nursing in the Medical Center twice a month or on a requested basis. Distance Learning students are encouraged to visit the Career Services website for information regarding services provided. Location: Evans Hall Rm. 217. Phone: 936-261-3570
University Rules and Procedures

Disability Statement (Also See Student Handbook):
The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact Disability Services, in Evans Hall, Room 317, or call 936-261-3585/3.

Academic Misconduct (See Student Handbook):
You are expected to practice academic honesty in every aspect of this course and all other courses. Make sure you are familiar with your Student Handbook, especially the section on academic misconduct. Students who engage in academic misconduct are subject to university disciplinary procedures.

Forms of Academic Dishonesty:
1. Cheating: deception in which a student misrepresents that he/she has mastered information on an academic exercise that he/she has not mastered; giving or receiving aid unauthorized by the instructor on assignments or examinations.
2. Academic misconduct: tampering with grades or taking part in obtaining or distributing any part of a scheduled test.
3. Fabrication: use of invented information or falsified research.
4. Plagiarism: unacknowledged quotation and/or paraphrase of someone else's words, ideas, or data as one's own in work submitted for credit. Failure to identify information or essays from the Internet and submitting them as one's own work also constitutes plagiarism.

Nonacademic Misconduct (See Student Handbook)
The university respects the rights of instructors to teach and students to learn. Maintenance of these rights requires campus conditions that do not impede their exercise. Campus behavior that interferes with either (1) the instructor's ability to conduct the class, (2) the inability of other students to profit from the instructional program, or (3) campus behavior that interferes with the rights of others will not be tolerated. An individual engaging in such disruptive behavior may be subject to disciplinary action. Such incidents will be adjudicated by the Dean of Students under nonacademic procedures.

Sexual Misconduct (See Student Handbook):
Sexual harassment of students and employers at Prairie View A&M University is unacceptable and will not be tolerated. Any member of the university community violating this policy will be subject to disciplinary action.

Title IX Statement
Prairie View A&M University (PVAMU) is committed to supporting students and complying with the Texas A&M University System non-discrimination policy. It seeks to establish an environment that is free of bias, discrimination, and harassment. If you experience an incident of sex- or gender-based discrimination, including sexual harassment, sexual assault or attempted sexual assault, we encourage you to report it. While you may talk to a faculty member about an incident of misconduct, the faculty member must report the basic facts of your experience to Ms. Alexia Taylor, PVAMU's Title IX Coordinator. If you would like to speak with someone who may be able to afford you privacy or confidentiality, there are individuals who can meet with you. The Title IX Coordinator is designated to handle inquiries regarding non-discrimination policies and can assist you with understanding your options and connect you with on- and off-campus resources. The Title IX Coordinator can be reached by phone at 936-261-2123 or in Suite 013 in the A.I. Thomas Administration Building.
Class Attendance Policy (See Catalog for Full 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 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.

Student Academic Appeals Process
Authority and responsibility for assigning grades to students rests with the faculty. However, 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 the procedure listed in the Catalog and by doing so within thirty days of receiving the grade or experiencing any other problematic academic event that prompted the complaint.

TECHNICAL CONSIDERATIONS

Minimum Recommended Hardware and Software:
• Intel PC or Laptop with Windows 7; Mac with OS X; Smartphone or iPad/Tablet with Wi-Fi
• High speed Internet access
• 8 GB Memory
• Hard drive with 320 GB storage space
• 15” monitor, 800x600, color or 16 bit
• Sound card w/speakers
• Microphone and recording software
• Keyboard & mouse
• Most current version of Google Chrome or Firefox

Note: Be sure to enable Java & pop-ups in the Web browser preferences

Participants should have a basic proficiency of the following computer skills:
• Sending and receiving email
• A working knowledge of the Internet
• Proficiency in Microsoft Word (or a program convertible to Word)
• Proficiency in the Acrobat PDF Reader
• Basic knowledge of Windows or Mac O.S.

Netiquette (online etiquette):
Students are expected to participate in all discussions and virtual classroom chats as directed. Students are to be respectful and courteous to others on discussions boards. Foul or abusive language will not be tolerated.

Technical Support:
Students should go to https://mypassword.pvamu.edu/ if they have password issues. The page will provide instructions for resetting passwords along with whom to contact if login issues persist. For other technical questions regarding eCourses, call the Center for Instructional Innovation and Technology Services at 936-2613283

Communication Expectations and Standards:
Emails or discussion postings will receive a response from the instructor, usually in less than 48 hours. Urgent emails should be marked as such. Check regularly for responses.

Discussion Requirement:
Online courses often require minimal to no face-to-face meetings. However, conversations about the readings, lectures, materials, and other aspects of the course can take place in a seminar fashion. This will be accomplished by the use of the discussion board. The exact use of discussion will be determined by the instructor.
It is strongly suggested that students type their discussion postings in a word processing application and save it to their PC or a removable drive before posting to the discussion board. This is important for two reasons: 1) If for some reason your discussion responses are lost in your online course, you will have another copy; 2) Grammatical errors can be greatly minimized by the use of the spell-and-grammar check functions in word processing applications. Once the post(s) have been typed and corrected in the word processing application, it/they should be copied and pasted to the discussion board.