



**PRAIRIE VIEW
A&M UNIVERSITY**



**PRAIRIE VIEW A&M UNIVERSITY
SCHOOL OF ARCHITECTURE**

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SYLLABUS

Course Title:	Advanced Computer Aided Design		
Course Prefix:	ARCH	Course No.:	4373
		Section No.:	Y01-Y81

Computational Design will change the way you work: you can explore multiple design options; get under the hood and access your data; automate repetitive tasks; test what your design is REALLY doing; and think algorithmically.

School of Architecture	Department: <input checked="" type="checkbox"/> Architecture <input type="checkbox"/> Construction Science <input type="checkbox"/> Art <input type="checkbox"/> Digital Media Art <input type="checkbox"/> Community Development
Class Meeting Days, Times, Location:	Tuesday; 6 - 8:50 PM and 9 - 10:50 PM Nathelyne Archie Kennedy Building, Computer Lab, Room 223
Catalog Description:	(2-2) Credit 3 semester hours.
Prerequisites:	
Co-requisites:	
Mode of Instruction:	<input type="checkbox"/> Face-to-face <input type="checkbox"/> On-line <input checked="" type="checkbox"/> Hybrid
Instructor:	Mehdi Azizkhani, PhD, LEED AP
Office Location:	School of Architecture, Prairie View A&M University Office #244
Office Telephone:	(936) 261-9800
Email Address:	mnazizkhani@pvamu.edu
U.S. Postal Service Address:	Prairie View A&M University P.O. Box 519 Mail Stop 2100 Prairie View, TX 77446
Office Hours:	Tuesday 4-6pm, By Appointment Students are advised to make appointments with the professor ahead of time and be specific with the subject matter to be discussed. Students must prepare for their appointment by having all applicable materials and information submitted to the instructor prior to the meeting.
Virtual Office Hours:	By Appointment
Required Text:	
Optional Text:	<i>Grasshopper Primer 3rd Edition</i>
Recommended Text/Readings:	<i>Essentials of Mathematics for Computational Design 4th Edition</i>

Course Goals and Overview:

	The main goal of this course is to learn about the application of Advanced CAD modeling, parametric design, and computation in the process of design/construction and the associated benefits. We will use Advanced CAD software to build upon our knowledge and skills, not just for two-dimensional or three-dimensional modeling, but for adding other Dimensions to the design and construction of projects including parametric qualities and quantities.
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Course Outcomes/Learning Objectives :

At the end of this course, the students will:

No.	Learning Objectives	Core Curriculum Outcome Alignment
4373.1	Demonstrate parametric modeling processes and their applications	4B, 5A – ACCE8
4373.2	Apply parametric modeling strategies to a design and construction project	5F – ACCE8
4373.3	Use parametric tools to assess integration of building form components	4B, 5A – ACCE8
4373.4	Use parametric design tools for design optimization	5A – ACCE8
4373.5	Apply 3D modeling strategies to create static and dynamic models	4B – ACCE8

Course Requirements & Evaluation Methods

This course will utilize the following instruments to determine student grades and proficiency of the learning

- **Assignments/Papers/Exercises:** Written assignments designed to supplement and reinforce course material
- **Quiz:** Written tests designed to measure knowledge of presented course material
- **Projects:** Assignments designed to measure ability to apply presented course material
- **Class Attendance/Participation:** For online classes this is your weekly login and dedication for complete work submission on-time. For Hybrid classes this expands to include also your class attendance/participation in Face2Face class sessions.

Grading Matrix: *Note that students can interact with each other on the assignments for an improved learning experience. However, each student should complete and submit the assignments/projects individually.*

Instrument	Value (points or percentages)	Total
Assignments	Class assignments	30%
Papers		0
Exercises		0
Exams		0
Projects	2 projects at 30% each	60%
Mid Term Exam		0
Class Attendance/Participation		10%
Final Exam		0
Total:		100%
Additional Credit/Bonus		
Total:		100%
Grade Determination:	<p>A = 90-100 points B = 80–89 points C = 70–79 points D = 60–69 points; F = 59 points or below</p> <p>If a student has stopped attending the course (i.e. “stopped out”) at any point after the first day of class but did not officially withdraw from the course and has missed assignments and exams and performed below the grade level of a D, a grade of FN (failed non-attendance) will be assigned for the final course grade to ensure compliance with the federal Title IV financial aid regulations. In contrast, if the student has completed all assignments and exams, but performed below the grade level of a D, a grade of F will be assigned for the final course grade</p>	
Grade Grubbing:	<p>‘Grade grubbing’ is a new term that has come about due to students bothering, harassing, or pestering their instructors over grades when the fault for performance lies with the student. This sort of behavior has no place in this institution of higher learning. Forcing instructors to compromise their ethics with threatening requests or any requests to inflate grades is an unfair responsibility</p>	

	<p>placed on the instructor and a poor reflection on the student. This behavior is rude, offensive and wastes the instructor's time.</p> <p>Examples:</p> <ul style="list-style-type: none"> • “Rounding up my grade will help my GPA.” • “I need a passing grade to keep my scholarship.” • “I need a passing grade to get off of academic probation/suspension.” • “Can you give me a few points to get a higher grade?” • “I understand that you don’t accept late work, but I did the assignment or my part of the group project, can you please make an exception?” • “I know you do not offer extra credit, but can I write an essay to bring up my grade?” • “I misunderstood the instructions. Can I still turn in my assignment late?” • “I was wondering if there is anything I can do to bring up my grade, I am so close to an A.” • “I need a passing grade to graduate/get into medical school.” • “My grade should be rounded up because I worked hard, came to every class, and never missed assignments.” • “If I do not get a passing grade, I will be in trouble with my parents.” <p>Wearing down the instructor by arguing, begging, and pleading to possess academic expectations without taking personal responsibility is harassment, disrespectful, and inappropriate and will be reported to the Office of Student Conduct.</p>
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Course Procedures:

CANVAS	CANVAS is a tool that Prairie View A&M University uses for assessment purposes. One of your assignments may be considered an "artifact," an item of coursework that serves as evidence that course objectives are met. More information will be provided during the semester.
Class Attendance Policy (See Catalog for Full Attendance Policy)	<p>Prairie View A&M University requires regular class attendance. Attending all classes supports the 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 the internet. Excessive absenteeism, whether excused or unexcused, may result in a student’s course grade being reduced or in the 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.</p> <p>Participation and absences are accumulated beginning with the first day of class on January 16, 2024. If you do not attend the class, you may assume that you have received zero (0) points for the class period unless you have a university-approved excuse.</p> <p>*Attendance Reporting Period: January 16 - 24 (Show (SH) / No Show (NS)). Students who do not attend classes during this period by January 24, will be marked as a no show (NS) in Panthertracks, have the course removed, and financial aid reduced or cancelled!</p> <p>If you are not able to attend class during the Attendance Reporting Period, you must contact your professor immediately with an explanation via email before noon on January 24.</p>
Makeup Work for Legitimate Absences	Prairie View A&M University recognizes that there are a variety of legitimate circumstances in which students will miss coursework and that accommodations for makeup work will be made. If a student’s absence is excused, the instructor must either provide the student an opportunity to make up any quiz, exam, or other work contributing to the final grade or provide a satisfactory alternative by a date agreed upon by the student and instructor.

	<p>Students are encouraged to work with instructors to complete makeup work before known scheduled absences (University-sponsored events, administrative proceedings, etc.). Students are responsible for planning their schedules to avoid excessive conflicts with course requirements.</p> <p>Excused absences are in one of the following classifications:</p> <ol style="list-style-type: none"> 1. Participation in an activity appearing on the University authorized activity list from the athletics coach, band director, organization advisors, etc. 2. Death or major illness in a student's immediate family. 3. Illness of a dependent family member. 4. Participation in legal proceedings that requires a student's presence. 5. Religious holy day. 6. Confinement because of illness. 7. Required participation in military duties. <p>If you miss class for one of these reasons, you must provide a memorandum plus supporting documentation to clear the absence from your record to the Dean of Students/Office of Student Conduct using the <i>Request for a University Excused Absence form</i>. See Absence Verification Process in the syllabus.</p> <p>The excuse/s will be accepted after your professor receives the authorized university excuse letter. There will be NO exceptions to this rule. Email documents from students will not be accepted to clear these absences.</p> <p>In accepting your decision to miss class, you must also be willing to accept the instructor's decision not to award you involvement points for the class or classes that are missed.</p> <p>Do not wait until the last minute to complete your assigned tasks. Sending requests for assistance at the last minute will not guarantee a quick response from the instructor.</p> <p>All work must be turned in before or on the due dates noted in the syllabi and/or documents issued by the instructor.</p> <p>Extensions/makeups will only be granted with proof of officially documented emergencies. You must provide documentation within the week the assigned tasks are due. It is your responsibility to make sure that you can access CANVAS and all digital requirements. Extensions will not be granted due to procrastination, forgetfulness, not following directions, or not purchasing access to required programs/software.</p> <p>If you are having trouble with CANVAS, contact CIITS at 936-261-3283 or send an email to ciits@pvamu.edu or submit a trouble ticket to CIITS Troubleshooting. Any issues with (*add name of your required programs/software), call (800) 123-4567 (request an email confirmation with your case number if you make a phone call).</p> <p>Always provide documentation with a timestamp to the instructor as proof of the technical issues with your account when the assigned tasks were available.</p>
<p>Absence Verification Process</p>	<p>All non-athletic absences (e.g., Medical, Death/Funeral, Court/Legal-related, etc.) for which a student seeks to obtain a valid excuse must be submitted to the Dean of Students/Office of Student Conduct, with supporting documentation, for review and verification. Please use the <u>Online Reporting Forms</u> to access/complete/submit the <i>Request for a University Excused Absence</i> form for an excuse. Upon receipt, a staff member will verify the documentation and provide an official university excuse, if applicable. The student is responsible for providing the official university excuse issued by the Office for Student Conduct to the professor(s). Questions should be directed to the Dean of Students via</p>

	<p>email: deanofstudents@pvamu.edu or phone: (936) 261-3550 or Office for Student Conduct via email: studentconduct@pvamu.edu or phone: (936) 261-3524</p> <p>Requests for a university excused absence after the last day of classes will be denied.</p>
Personal Conduct	<p>Students and faculty are expected to conduct themselves in ways that support individual learning and the learning of others. To that end members of the classroom community will conduct themselves in a professional and ethical manner to achieve these objectives. Any conduct construed to interfere with the learning opportunities of members of the class may result in the removal of the student from the class for that day. Repeated inappropriate conduct will result in permanent removal from the class. Based upon the fact that you are preparing for professional employment, you are expected to adhere to the following specific guidelines:</p> <ol style="list-style-type: none"> 1. During regular class periods <u>all students are expected to dress appropriately</u> in accordance with university regulations so that no disruptions in the learning experience will occur. 2. <u>No hats or caps will be allowed to be worn in the classroom during class sessions.</u> If you elect to wear a hat or cap during the lectures or class discussion, your decision will be respected. However you should also respect the instructor's decision to not award you daily participation points based upon that decision. 3. <u>Dress Code for Presentations:</u> Professional dress is expected for all design and technical presentations in class. Failure to adhere to the guidelines posted by the instructor will result in a deduction of ten percent (10%) from your final presentation score. 4. Students should <u>not be eating food or consuming drinks</u> during the discussion sessions. No food or drink is allowed in the classroom at any time. 5. <u>Cellular telephones are to be turned off or put on silent ring tone</u> during the class period. Texting is strictly prohibited during the class period. No "ear phone" units will be allowed. If your cell phone rings during the lecture or you are texting you are subject to losing all participation point for that class period. 6. <u>Laptops must emit no noise.</u> Make sure your laptop is warmed up and your battery charged before class starts. A laptop is allowed only for taking notes or accessing relevant course material during the class. Checking email, playing a game, messaging and other non-class related activities are not allowed at any time. 7. <u>Harassment</u> of your fellow students of any kind will not be tolerated.
Conduct of the Class	<p>Please note the following rules for the conduct of the class.</p> <ol style="list-style-type: none"> 1. <u>Class will begin at the appointed time.</u> 2. <u>Class is dismissed when so indicated by the instructor.</u> Students are expected to be on time and stay throughout the entire class period. Leaving the classroom presentation or discussion board before the class is dismissed without prior approval from the instructor will result in a loss of participation for that class. 3. <u>Lecture Notes and Handouts</u> will be posted on Canvas or sent to your official university email. Handouts distributed during a class period will not be distributed at any other time. It is the student's responsibility to get a copy from another student or source.
Formatting Documents:	<p>Microsoft Word is the standard word processing tool used at PVAMU. If you are using other word processors, be sure to save the document in either the Microsoft Word, Rich-Text, or plain text format.</p>
Exam Policy:	<p>Exams and quizzes will be announced online via Canvas as scheduled. Exams should be taken as scheduled. No makeup examinations will be allowed except under documented emergencies (See Student Handbook).</p>
Professional Organizations and Journals: N/A	
References: N/A	
University Rules and Procedures:	
Disability Statement (See Student Handbook):	<p>Students with disabilities, including learning disabilities, who wish to request accommodations in class should register with the Services for Students with Disabilities (SSD) early in the semester so that appropriate arrangements may be made. In</p>

	<p>accordance with federal laws, a student requesting special accommodations must provide documentation of their disability to the SSD coordinator. Students should also inform the instructor of their need for accommodations immediately at the outset of the course so that a solution designed to being successful in class can be produced.</p> <p>Accommodation letters are accepted only through the university's Office of Disability Services Accommodate Portal. It is the responsibility of the student to make sure that the instructor receives and acknowledges accommodation letters.</p>
Academic Misconduct:	<p>Academic dishonesty is defined as any form of cheating or dishonesty that has the effect or intent of interfering with any academic exercise or fair evaluation of a student's performance. The college faculty can provide additional information, particularly related to a specific course, laboratory, or assignment.</p> <p>You are expected to practice academic honesty in every aspect of this course and all other courses. Make sure you are familiar with the <i>University Administrative Guidelines on Academic Integrity</i>, which can be found on the Academic Integrity webpage. Students who engage in academic misconduct are subject to university disciplinary procedures. As listed in the <i>University Administrative Guidelines on Academic Integrity</i>, the University Online Catalog, and the Student Code of Conduct, the following are examples of prohibited conduct. This list is not designed to be all-inclusive or exhaustive. In addition to academic sanctions, any student found to have committed academic misconduct that is also a violation of criminal law may also be subject to disciplinary review and action by the Office of Student Conduct (as outlined in the Student Code of Conduct).</p>
Forms Of Academic Dishonesty:	<ol style="list-style-type: none"> 1. <u>Cheating</u>: Deception in which a student misrepresents that he/she has mastered information on an academic exercise that he/she has not learned, giving or receiving aid unauthorized by the instructor on assignments or examinations. Examples: unauthorized use of notes for a test; using a "cheat sheet" on a quiz or exam; any alteration made on a graded test or exam which is then resubmitted to the teacher; 2. <u>Plagiarism</u>: Careless or deliberate use of the work or the ideas of another; representation of another's work, words, ideas, or data as your own without permission or appropriate acknowledgment. Examples: copying another's paper or answers, failure to identify information or essays from the internet and submitting or representing it as your own; submitting an assignment which has been partially or wholly done by another and claiming it as yours; not properly acknowledging a source which has been summarized or paraphrased in your work; failure to acknowledge the use of another's words with quotation marks; 3. <u>Collusion</u>: When more than one student or person contributes to a piece of work that is submitted as the work of an individual; 4. <u>Conspiracy</u>: Agreeing with one or more persons to commit an act of academic/scholastic dishonesty; and 5. <u>Multiple Submission</u>: Submission of work from one course to satisfy a requirement in another course without explicit permission. Example: using a paper prepared and graded for credit in one course to fulfill a requirement and receive credit in a different course.
Nonacademic Misconduct:	<p>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 ability 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. The Office of Student Conduct will adjudicate such incidents under nonacademic procedures.</p>

PVAMU’s General Statement on the Use of Generative Artificial Intelligence Tools in the Classroom	<p>Generative Artificial Intelligence (GAI), specifically foundational models that can create writing, computer code, and/or images using minimal human prompting, are increasingly becoming pervasive. Even though ChatGPT is one of the most well-known GAIs currently available, this statement includes any and all past, current, and future generations of GAI software. Prairie View A&M University expects that all work produced for a grade in any course, be it face-to-face or virtual, will be the sole product of a student’s endeavors to meet those academic goals. However, should an instructor permit their students to use artificial intelligence as a resource or tool, students must not substitute the substance of their original work with the results of using such GAI tools. This clearly violates the University’s Administrative Guidelines on Academic Integrity and its underlying academic values.</p>
Sexual Misconduct	<p>Sexual harassment of students and employees at Prairie View A&M University is unacceptable and will not be tolerated. Any member of the university community violating the university’s sexual harassment policy will be subject to disciplinary action. In accordance with the Texas A&M University System guidelines, your instructor is obligated to report to the Office of Title IX Compliance (titleixteam@pvamu.edu) any instance of sexual misconduct involving a student, which includes sexual assault, stalking, dating violence, domestic violence, and sexual harassment, about which the instructor becomes aware during this course through writing, discussion, or personal disclosure. The faculty and staff of PVAMU actively strive to provide a learning, working, and living environment that promotes respect that is free from sexual misconduct, discrimination, and all forms of violence. If students, faculty, or staff would like assistance or have questions, they may contact the Title IX Coordinator at 936-261-2144 or titleixteam@pvamu.edu. More information can be found at www.pvamu.edu/titleix, including confidential resources available on campus.</p>
Protections and Accommodations for Pregnant and Parenting Students	<p>The U.S. Department of Education’s Office for Civil Rights (OCR) enforces, among other statutes, Title IX of the Education Amendments of 1972. Title IX protects people from discrimination based on sex, sexual orientation, and gender identity in education programs or activities that receive federal financial assistance. This protection includes those who may be pregnant and parenting. Title IX states: “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.” Students seeking accommodations related to pregnancy or parenting should contact the Office of Title IX for information, resources, and support at titleixteam@pvamu.edu. Additional information and/or support may be provided by the Office of Disability Services or the Office of the Dean of Students</p>
Non-Discrimination Statement	<p>Prairie View A&M University does not discriminate on the basis of race, color, sex, religion, national origin, age, disability, genetic information, veteran status, sexual orientation, or gender identity in its programs and activities. The University 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 discrimination or harassment, we encourage you to report it. 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 Director of Equal Opportunity & Diversity has been designated to handle inquiries regarding the non-discrimination policies and can be reached at Harrington Science Building, Suite 109 or by phone at 936-261-1744 or 1792.</p>
Student Academic Appeals Process	<p>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 University Catalog and by doing so within thirty days of receiving the grade or experiencing any other problematic academic event that prompted the complaint.</p> <p>If the recorded grades were entered mistakenly, the student must address the error to the instructor to correct the error.</p>


	<p>If the student believes that the faculty's grading was inappropriate in view of the standards and procedures outlined in the syllabus, the student must follow protocol by doing the following:</p> <ol style="list-style-type: none"> 1. Fill out the Student-Informal Grade Appeal Form with supporting documentation and submit to the Faculty Member and Department Chair/Head to initiate the informal appeal process. 2. If the student does not accept the results of the Faculty Member Informal Grade Appeal Response from the instructor, the student must fill out the Student Formal Grade Appeal Form (link to form) and submit with documentation to the School of Architecture Grade Appeals Committee appointed by the Dean. 3. If the student does not accept the results of the School of Architecture Grade Appeals Committee, the forms and documentations will be forwarded to the School of Architecture Associate Dean. 4. If the student does not accept the results of the Associate Dean, the forms and documentation will be forwarded to the School of Architecture Dean. 5. If the student does not accept the results of the School of Architecture Dean, student must fill out a Grade Appeal to the university.
<p>Student Support and Success:</p>	
<p>John B. Coleman Library</p>	<p>John B. Coleman Library The John B. Coleman Library's mission is to enhance the scholarly pursuit of knowledge, to foster intellectual curiosity, and to promote life-long learning and research through our innovative services, resources, and cultural programs, which support the Prairie View A&M University's global mission of teaching, service, and research. It maintains library collections and access both on campus, online, and through local agreements to further the educational goals of students and faculty. Website: https://www.pvamu.edu/library/; Phone: 936-261-1500</p>
<p>Academic Advising Services</p>	<p>Academic Advising Services offers students various services that contribute to student success and lead toward graduation. We assist students with understanding university policies and procedures that affect academic progress. We support the early alert program to help students connect to success early in the semester. We help refer students to the appropriate academic support services when they are unsure of the best resource for their needs. Faculty advisors support some students in their respective colleges. Your faculty advisor can be identified in PantherTracks. Advisors within Academic Advising Services are available to all students. We are located across campus. Find your advisor's location by academic major on the advising website. Phone: 936-261-5911</p>
<p>The University Tutoring Center</p>	<p>The University Tutoring Center (UTC) offers free tutoring and academic support to all registered PVAMU students. The mission of the UTC is to help provide a solid academic foundation that enables students to become confident, capable, independent learners. Competent and caring staff and peer tutors guide students in identifying, acquiring, and enhancing the knowledge, skills, and attitudes needed to reach their desired goals. Tutoring and academic support are offered face-to-face in the UTC and virtually in online sessions. Other support services available for students include Supplemental Instruction, Study Breaks, Academic Success Workshops, and Algebra Study Jam. Location: J. B. Coleman Library, Rm. 307; Phone: 936-261-1561; Email: pvtutoring@pvamu.edu; University Tutoring Website</p>
<p>Writing Center</p>	<p>The Writing Center provides well-trained peer tutors to assist students with writing assignments at any stage of the writing process. Tutors help students with various writing tasks from understanding assignments, brainstorming, drafting, revising, editing, researching, and integrating sources. Students have free access to Grammarly online writing assistance. Grammarly is an automated proofreading and plagiarism detection tool. Students must register for Grammarly by using their student email address. In addition, students have access to face-to-face and virtual tutoring services either asynchronously via email or synchronously via Zoom. Location: J. B. Coleman Library, Rm. 209; Phone: 936-261-3724; Writing Center Website, Grammarly Registration</p>

Panther Navigate	Panther Navigate is a proactive system of communication and collaboration between faculty, academic advisors, and students that is designed to support student success by promptly identifying issues and allowing for intervention. Panther Navigate helps students by providing a central location to schedule advising appointments, view campus resources, and request assistance. Students who recognize that they have a problem that negatively affects their academic performance or ability to continue school may self-refer an academic early alert. To do so, students will log in to Canvas and click on Student Alerts on the left sidebar within a course. Students also have the option to download the Navigate Student app. Phone: 936-261-5902; Panther Navigate Website
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 assists 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: Hobart Taylor, 2 nd floor; Phone: 936-261-3564; Website: https://www.pvamu.edu/healthservices/student-counseling-services/
Office of Testing Services	The Office of Testing Services serves to facilitate and protect the administration of educational and professional exams to aid students, faculty, staff, and the community in their academic and career goals. We provide proctoring services for individuals who need to take exams for distance or correspondence courses for another institution, exams for independent study courses, or make-up exams. In order for a proctored exam to be administered by our office, the instructor of the course must first submit the online PVAMU Testing Services – Test Proctoring Form (this form can only be completed by the instructor) to the Office of Testing Services 72 hours prior to the first exam being administered. Once the Test Proctoring Form has been submitted, the instructor will inform their testers so they can then register for an appointment with our office on one of the selected proctored exam test dates within the testing window for the exam and pay the applicable fees. To access the OTS – Test Proctoring Form, to schedule a proctored exam appointment, or to find more information about our proctoring services, please visit the OTS – Proctoring Service website . Location: Wilhelmina Delco, 3 rd Floor, Rm. 305; Phone: 936-261-3627; Email: aetesting@pvamu.edu ; Testing Website
Office of Diagnostic Testing and Disability Services	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, contact the 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 non-standardized test administrations, ASL interpreters, ALDs, digital recorders, Livescribe, and a comprehensive referral network across campus and the broader community. Location: Hobart Taylor, Rm. 1D128; Phone: 936-261-3583; Disability Services Website
Center for Instructional Innovation and Technology Services (CIITS)	Distance Learning, also referred to as Distance Education, is the employment of alternative instructional delivery methods to extend programs and services to persons unable to attend classes in the traditional manner. CIITS supports student learning through online, hybrid, web-assist, and 2-way video course delivery. For more details and contact information, visit CIITS Student Website . Phone: 936-261-3283 or email: ciits@pvamu.edu .
Veteran Affairs	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: Evans Hall, Rm. 102; Phone: 936-261-3563; Website:

	https://www.pvamu.edu/sa/departments/veteranaffairs/
Office for Student Engagement	The Office for Student Engagement delivers comprehensive programs and services designed to meet the co-curricular 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; Website: https://www.pvamu.edu/studentengagement/
Center for Careers & Professional Development	This center supports students through professional development, career readiness, and placement and employment assistance. The center 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 center website for information regarding services provided. Location: Anderson Hall, 2 nd floor; Phone: 936-261-3570; Center for Careers & Professional Development Website
COVID-19 Campus Safety Measures	In accordance with the latest guidelines from the PVAMU Health Services, the following measures are in effect until further notice. <ul style="list-style-type: none"> • Students who are ill will be asked to adhere to best practices in public health, such as masking, handwashing, and social distancing, to help reduce the spread of illness across campus. • Mandatory self-reporting will no longer be required by students. Students will be responsible for communicating with their professors regarding COVID, similarly to any other illness. • There will be no mandatory isolation. Students who are too ill to engage in classroom activities will be responsible for securing the appropriate documentation to support the absence. • Students who self-isolate will be responsible for communicating with their professors and securing an excuse from Student Conduct. • All students will have access to TimelyCare, a telehealth platform that provides virtual medical care 24/7 and by appointment in the Student Health Clinic. Students are encouraged to enroll with TimelyCare at the beginning of the semester, at timelycare.com/pvamu. • Students will have access to COVID testing in the Student Health Clinic by appointment. Testing is for students who are symptomatic ONLY.
Technical Considerations for Online and Web-Assist Courses:	
Technical Considerations	<p>Minimum Recommended Hardware and Software:</p> <ul style="list-style-type: none"> • Intel PC or laptop with Windows 10 or later version; Mac with OS Catalina • Smartphone or iPad/tablet with wi-fi* • High-speed internet access • 8 GB memory • Hard drive with 320 GB storage space • 15" monitor, 1024 x 768, color • Speakers (internal or external) • Microphone and recording software • Keyboard & mouse • Most current version of Google Chrome, Safari, or Firefox <p>Due to the digital nature of this course, students must make sure they have a Working Laptop to learn/practice the course materials during and after class hours. You also need to download the Rhino Software (for free) from the Rhino website. Instructions/links are provided in the first module session of the course. The software is free to use for 90 days. After 90 days you can still use it, but you will not be able to save the files unless you purchase the software. You can purchase Rhino at a student price, but if you do not want to purchase the software the suggestion is to install Rhino in the second</p>

	<p>week of class to cover your semester’s work. If this is the case, inform the instructor in advance.</p> <p>* Some courses may require remote proctoring. At this time only Chromebooks, laptops, and desktops running Windows or Mac work with our proctoring solution, but iPads are not compatible. Most other applications will work with Android or Apple tablets and smartphones.</p> <p>Note: Be sure to enable Java & pop-ups in the web browser preferences</p> <p>Participants should have a basic proficiency of the following computer skills:</p> <ul style="list-style-type: none"> • Sending and receiving email • A working knowledge of the Internet • Microsoft Word (or a program convertible to Word) • Acrobat PDF Reader • Windows or Mac OS • Video conferencing software (Zoom)
Netiquette (online etiquette):	<p>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. Do not use ALL CAPS for communicating to others AS IT CAN BE INTERPRETED AS YELLING. Avoid slang terms such as “wassup?” and texting abbreviations such as “u” instead of “you.” Limit and possibly avoid the use of emoticons. Be cautious when using humor or sarcasm as tone is sometimes lost in an email or discussion post and the message might be taken seriously or sound offensive.</p>
Video Conferencing Etiquette	<p>When using Zoom, WebEx, or other video conferencing tools, confirm the visible area is tidy, clear of background clutter, inappropriate or offensive posters, and other distractions. Ensure you dress appropriately and avoid using high traffic or noisy areas. Stay muted when you are not speaking and avoid eating/drinking during the session. Before the class session begins, test audio, video, and lighting to alleviate technology issues.</p>
Communication Expectations and Standards	<p>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.</p>
Discussion Requirement	<p>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 occur in a seminar fashion. The use of the discussion board will accomplish this. The instructor will determine the exact use of discussion boards.</p> <p>It is strongly suggested that students type their discussion postings in a word processing application such as Word 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, copy and paste to the discussion board.</p>
Technical Support:	<p>Students should go to the Password Reset Tool if they have password issues. The page will provide instructions for resetting passwords and contact information if login issues persist. For other technical questions regarding eCourses, call the Center for Instructional Innovation and Technology Services (CIITS) at 936-261-3283 or email ciits@pvamu.edu.</p>
Submission of Assignments-On Line:	<p>Assignments, Papers, Exercises, and Projects will distributed and submitted through your online course. Directions for accessing your online course will be provided. Additional assistance can be obtained from the Office of Distance Learning.</p> <p>ASSIGNMENTS are due at the start of the class session. No late work will be accepted</p>



	<p>without proper documentation.</p> <p>DUE DATES: Be sure to check the due dates on the assignment and schedule documents for each module. The due date is posted along with the assignment description.</p> <p>SUBMISSION METHOD: You should upload your assignments through Canvas following the descriptions for each assignment and based on the required file format. DO NOT email your completed assignment or files to the instructor as attachments unless you are asked to do so. Students must include their first name and last name in their submitted assignment files on CANVAS. Assignments submitted without paying attention to this requirement will lose points accordingly.</p>
<p>Grade and Evaluation</p> 	<p>Grades for assignments, submissions and exams will be posted within five (5) business days from the due date. You will be notified if those circumstances change. Responses will usually provide a grade and feedback as well.</p> <p>Emails will be responded via email within 24 hours Monday-Friday before 5:00 PM. There will not be a response to emails asking about the class discussion (check your weekly schedule).</p> <p>Please send all correspondences to the instructor's Canvas' portal. Do not send any course materials, assignments, questions or any email(s) to the instructor's PV's webmail Outlook account. This method will allow the instructor to track you and all correspondences to better serve your needs in a timely manner.</p>

ACCREDITATION/ASSESSMENT CRITERIA Table No. 1-NAAB CRITERIA

This course is structured to assist the student meet the following criteria shown in **Table No. 1** as established by the National Architectural Accreditation Board (NAAB). To view the entire list and obtain guidance, go to the NAAB website, www.naab.org and access "NAAB 2020 Conditions for Accreditation."













Performance Criteria:	Skill ☑	Understanding ☑	Course Learning Outcomes Competencies (T, R, I)		
			T Taught	R Reinforced	I Utilized/ Integrated
STUDENT CRITERIA 1: Health, Safety and Welfare in the Built Environment (Understanding Level)					
1.A. Impact of Built Environment on Human Health (<i>Understanding</i>)					
1.B. Impact of Built Environment on Safety (<i>Understanding</i>)					
1.C. Impact of Built Environment on Welfare at Multiple Scales, from building to cities (<i>Understanding</i>)					
STUDENT CRITERIA 2: Professional Practice (Understanding Level)					
2.A. Professional Ethics (<i>Understanding</i>)					
2.B. Regulatory Requirements (<i>Understanding</i>)					
2.C. Fundamental business processes (<i>Understanding</i>)					
2.D. Forces influencing change on 2.A, 2.B, 2.C (<i>Understanding</i>)					
STUDENT CRITERIA 3: Regulatory Context (Understanding Level)					
3.A. Life Safety (<i>Understanding</i>)					
3.B. Land Use (<i>Understanding</i>)					
3.C. Current Laws and Regulations (<i>Understanding</i>)					
3.D. Evaluative process used to comply with 3.C. (<i>Understanding</i>)					
STUDENT CRITERIA 4: Technical Knowledge (Understanding Level)					
4.A. Emerging Systems of Building Construction (<i>Understanding</i>)					
4.B. Emerging Technologies of Building Construction (<i>Understanding</i>)	x		T		I
4.C. Emerging Assemblies of Building Construction (<i>Understanding</i>)					

4.D. Methods and Criteria to Assess use of 4.C. (<i>Understanding</i>)					
STUDET CRITERIA 5: Design Synthesis (Skill Level)					
5.A. Make Design Decisions within Architectural Projects (<i>Ability</i>)	x			R	
5.B. Demonstrate Synthesis of User Requirements (<i>Ability</i>)					
5.C. Demonstrate Synthesis of Regulatory Requirements (<i>Ability</i>)					
5.D. Demonstrate Synthesis of Site conditions (<i>Ability</i>)					
5.E. Demonstrate Synthesis of Accessible Design (<i>Ability</i>)					
5.F. Measurable Environmental Impacts on Design (<i>Ability</i>)	x			R	
STUDENT CRITERIA 6: Building Integration (Skill Level)					
6.A. Demonstrate Integration of Building Envelope Systems(<i>Ability</i>)					
6.B. Demonstrate Integration of Building Assemblies (<i>Ability</i>)					
6.C. Demonstrate Integration of Structural Systems (<i>Ability</i>)					
6.D. Demonstrate Integration of Environmental Controls (<i>Ability</i>)					
6.E. Demonstrate Integration of Life Safety (<i>Ability</i>)					
6.F. Measurable Outcomes of Building Performance (<i>Ability</i>)					





ACCREDITATION/ASSESSMENT CRITERIA TABLE No. 2: ACCE CRITERIA				
This course is structured to assist the student meet the following criteria shown in Table No. 2 as established by the American Council for Construction Education (ACCE) <i>Standards and Criteria for Accreditation</i> . To view the entire list, go to the ACCE website, www.acce-hq.org and view the "Accreditation Procedures."				
Course Learning Outcomes:	Competencies (T, R, I)			ACCE
	T Taught	R Reinforced	I Utilized/ Integrated	A Assessed
1. Create written communications appropriate to the construction discipline.				
2. Create oral presentations appropriate to the construction discipline				
3. Create a construction project safety plan				
4. Create construction project cost estimates				
5. Create construction project schedules				
6. Analyze professional decisions based on ethical principles .				
7. Analyze methods, materials, and equipment used to construct projects.				
8. Apply electronic-based technology to manage the construction process.	T			
9. Apply basic surveying techniques for construction layout and control.				
10. Understand different methods of project delivery and the roles and responsibilities of all constituencies involved in the design and construction process.				
11. Understand construction accounting and cost control				
12. Understand construction quality assurance and control .				
13. Understand construction project control processes.				
14. Understand the legal implications of contract, common, and regulatory law to manage a construction project.				
15. Understand the basic principles of sustainable construction .				
16. Understand the basic principles of structural behavior .				
17. Understand the basic principles of mechanical, electrical and piping systems.				







COURSE OUTLINE: EVENT AND LECTURE SCHEDULE

This schedule is subject to change as the semester proceeds in order to cover the most important material in the time allotted. Any revisions will be duly noted and announced in class. All referenced readings are taken from the required text.














	Registration/Assembly Dates		Dates exam scores will be posted
	Key Dates		Holidays
	Graduation Applications		Guest lectures
	Dates for Exams		Project Team Workshop
	Proctored Exams		Class Sessions using ZOOM or teleconference technology
	Lecture Completed		Lecture Notes, Assignments, or Articles posted to CANVAS

16 WEEK CALENDAR

Week One: Topic January 15-19, 2024	Parametric Design and Rhino Introduction	
	Face2Face Class	
University Events: 	January 15, 2024 [Monday]	 MARTIN LUTHER KING DAY (University Closed)
	January 16, 2024 [Tuesday]	First Class Day Tuition & Fees Payment Due Date
	January 16, 2024 [Tuesday]	TUITION AND FEES PAYMENT DUE DATE @ 5:00 PM
	January 16-24, 2024 [Tuesday-Tuesday]	Late Registration/Late Registration Fee Begins (\$50.00)
	January 17-26, 2024 [Tuesday-Wednesday]	 ATTENDANCE REPORTING PERIOD (ND/SH). Students who do not attend class during this period will have their courses removed and financial aid reduced or cancelled!
Week Two: Topic January 22-26, 2024	Rhino Modeling 1	
University Events: 		
Week Three: Topic January 29-February 2, 2024	Rhino Modeling 2	
	Face2Face Class	
Assignment (s):		
University Events:	January 30, 2024 [Wednesday]	Financial Aid Refunds Begin

R	January 31, 2024 [Wednesday]	 CENSUS DATE (12 TH CLASS DAY)  FINAL DAY TO DROP/WITHDRAW FROM COURSE WITHOUT ACADEMIC RECORD. [Note: A Financial Record will still exist.]
	February 1, 2024 [Thursday]	WITHDRAWAL FROM COURSES "WITH ACADEMIC RECORD" (W) BEGINS.
Week Four: Topic February 5-9, 2024	Rhino Modeling 3	
University Events: R	February 6, 2024 [Tuesday]	 DROP FOR NON-PAYMENT OF TUITION AND FEES @ 5:00 PM.
Week Five: Topic February 12-16, 2024	Grasshopper (GH) Introduction	
	Face2Face Class	
University Events: R	February 12, 2024 [Monday]	 CENSUS DATE (20 th CLASS DAY)
	February 15, 2024 [Wednesday]	PVAMU Architecture + Construction Science Career Fair 2024 9:00 AM- 4:00 PM held in the Kennedy Architecture Building
Week Six: Topic February 19-23, 2024	Data Structure and List	
University Events: R		
Week Seven: Topic February 26-March 1, 2024	Function and List1	
	Project 1 (Midterm) Description	
University Events: R		
Week Eight: Topic March 4-8, 2024	Function and List2 + Attractors	
	Face2Face Class	
	Project 1 Due by the end of the week	
University Events: R	March 7-9, 2024 [Thursday-Saturday]	 Mid-Term Exams
Week Nine: Topic March 11-15, 2024	SPRING BREAK!	

University Events:	March 13, 2024 [Wednesday]	MID-TERM EXAM GRADES DUE
	March 15, 2024 [Friday]	1 Spring Break (University Closed) SUBJECT TO APPROVAL BY THE TAMUS Board of Regents!
Week Ten: Topic March 18-22, 2024	Attractor and Curves	
University Events:	March 20, 2024 [Wednesday]	Founders Day/Honors Convocation
Week Eleven: Topic March 25-29, 2024	Surface [Creation/Evaluation/Division]	
	Face2Face Class	
University Events:	March 26, 2024 [Monday]	SPRING 2024 GRADUATION: FINAL DATE TO APPLY FOR GRADUATION! (Ceremony participation)
	March 27, 2024 [Tuesday]	SPRING 2024 GRADUATION: Application for Graduation-Degree Conferral Only Begins. (NO ceremony participation or name listed in program.)
	March 29, 2024 [Friday]	1 Good Friday (No classes; subject to approval by the TAMUS Board of Regents)
Week Twelve: Topic April 1-5, 2024	Surface Culling/Splitting & BREPS	
	Final Project Proposal	
University Events:	April 2, 2024 [Tuesday]	Priority Registration Period for continuing students for Summer Term 2024, May/Summer 2024 Mini-Mester, and Spring Semester 2024. [SPECIAL POPULATIONS]
	April 6, 2024 [Saturday]	Registration Period for all students for Summer Term 2024, May/Summer 2024 Mini-Mester, and Spring Semester 2024. [SPECIAL POPULATIONS]
Week Thirteen: Topic April 8-12, 2024	Optimization and Genetic Algorithm (GA)	
	Final Project Progress	
University Events:	April 12, 2024 [Friday]	SPRING 2024 GRADUATION: Final Day to Apply for Graduation-Degree Conferral Only. (NO ceremony participation or name listed in program.)
Week Fourteen: Topic April 15-19, 2024	Final Project Progress	
	Face2Face Class (Face2Face class may move to week 13 depending on class progress)	
Assignment (s):		

University Events: 		
Week Fifteen Topic April 22-26, 2024	Final Project Due	
Chapter (s):		
Assignment (s):		
University Events: 	April 26, 2024 [Friday]	 LAST DAY OF CLASS FOR SPRING SEMESTER 2024!
	April 26, 2024 [Friday]	 FINAL DAY TO WITHDRAW FROM COURSES OR THE UNIVERSITY WITH ACADEMIC RECORD ("W") FOR SPRING 2024
Week Sixteen	Final project online Video Presentation Due	
	April 29, 2024 [Monday]	 STUDY DAY (NO CLASSES IN SESSION)
	April 30-May 8, 2024 [Tuesday- Wednesday]	 FINAL EXAMINATION PERIOD
	May 9, 2024 [Thursday]	 FINAL GRADES FOR GRADUATION CANDIDATES DUE BY 12:00 PM!
	May 11, 2024 [Saturday]	 COMMENCEMENT
	May 14, 2024 [Tuesday]	 FINAL GRADES DUE FOR ALL STUDENTS BY 11:59 PM!

In order to assure that you have read over this entire document you are required to sign the Statement of Agreement on the final page of the syllabus and return it at the start of second-class period. This will be our contract that you have read over the entire syllabus and that you understand what is expected of you in this class.

STATEMENT OF AGREEMENT

I have read the Course Syllabus for **ARCH 4373-Y01-Y81 Spring Semester 2024**, including the Class Lecture and Event Schedule, and agree to abide by the conditions for the class as spelled out in this document. My signature indicates my personal commitment to meeting the course objectives and succeeding in this educational endeavor.

Signature-Student

Student name (Please print neatly) _____ Student ID # ____/____/2024
Date

Signature-Instructor

Instructors name ____/____/2024
Date

RETURN THIS PAGE FROM THE SYLLABUS TO THE INSTRUCTOR TO COMPLETE YOUR ENROLLMENT IN THIS COURSE.

RECEIVED WITH STUDENT'S SIGNATURE: _____

ENTERED INTO GRADE BOOK: _____
