



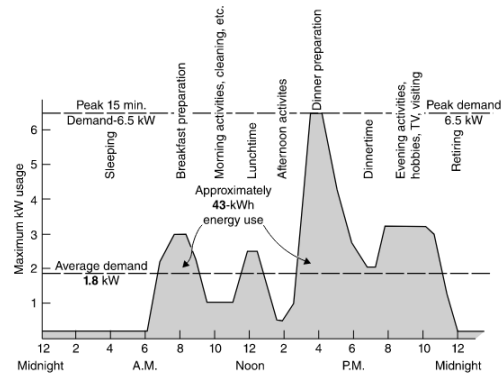
**PRAIRIE VIEW  
A&M UNIVERSITY**



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

<b>Course Title:</b>	<b>Environmental Systems</b>		
<b>Course Prefix:</b>	<b>ARCH</b>	<b>Course No.:</b>	<b>3345</b>
		<b>Section No.:</b>	<b>P01</b>

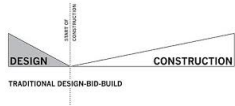


***“Make no little plans. They have no magic to stir [people’s] blood”  
Daniel Burnham, FAIA***

<b>School of Architecture</b>	Department: <input checked="" type="checkbox"/> Architecture <input checked="" type="checkbox"/> Construction Science <input type="checkbox"/> Art <input type="checkbox"/> Digital Media Art <input type="checkbox"/> Community Development
<b>Class Meeting Days &amp; Times:</b>	Thursdays; 6:30-9:20 PM
<b>Catalog Description:</b>	3 semester hours. Fundamentals of Mechanical, Electrical, Lighting, Plumbing systems with a brief overview of Acoustics and Vertical Transportation systems.
<b>Prerequisites:</b>	None
<b>Co-requisites:</b>	None
<b>Mode of Instruction:</b>	<input checked="" type="checkbox"/> Face-to-face <input type="checkbox"/> On-line <input type="checkbox"/> Hybrid
<b>Instructor:</b>	Casity Reneau, PE Adjunct Instructor
<b>Office Location:</b>	2825 Wilcrest Dr, Suite 350, Houston, TX 77042
<b>Office Telephone:</b>	832-802-3022 (mobile)
<b>Email Address:</b>	<a href="mailto:creneau@shahsmith.com">creneau@shahsmith.com</a>
<b>U.S. Postal Service Address:</b>	Prairie View A&M University P.O. Box 519 Mail Stop 2100 Prairie View, TX 77446
<b>Office Hours:</b>	8 AM – 5 PM BY APPOINTMENT; in person, Zoom or Teams Students are advised to make appointments with the professor ahead of time and be specific with the subject matter to be discussed. Students must be prepared for their appointment by bringing all applicable materials and information to the meeting.
<b>Virtual Office Hours:</b>	

<b>Required Text:</b>	<u>Mechanical and Electrical Equipment for Buildings 13<sup>th</sup> edition by Walter T Grondzik and Alison G. Kwok. Published by John Wiley &amp; Sons Inc.</u> ISBN-13: 978-1118615904 ISBN-10: 1118615905
<b>Optional Text:</b>	None
<b>Recommended Text/Readings:</b>	To be provided in class.

### Course Goals and Overview:



This course is designed for Architects to have a general understanding of the various MEP systems that are integral in all buildings. The student will complete this course with a basic understanding of the various HVAC systems, Lighting systems, Electrical and Plumbing distribution, Environmental impacts and solar exposure impacts on the buildings and these systems. At The end of the semester the students will be introduced to basic acoustic design and Vertical circulation systems. The students will be required to prepare a research paper on a building of their choice discussing the specific building systems which are unique to that building and the successes or failures of the systems and the overall building.

### Course Outcomes/Learning Objectives :

**At the end of this course, the students will:** have a basic understanding of and be able to incorporate the necessary design features in their building design to address the building functional systems, understand HVAC, plumbing, and lighting basics, understand and calculate storm water downspouts and leaders, understand basic needs and considerations for vertical transportation in their buildings. Students will be evaluated through exams, as well as a research paper and presentation of their study topic. Additionally, on-line or in person pop quizzes either oral or written will be administered at the teachers discretion.

No.	Learning Objectives	Core Curriculum Outcome Alignment
3345.1	Describe the different building environmental systems	
3345.2	Understand the importance of site analysis and the environmental impact that climate plays in the building system designs	
3345.3	Understand the differences and the impact on the building of various HVAC systems.	
3345.4	Understand the differences and the impact of various lighting systems	
3345.5	Understand the basic electrical system components for facilities	
3345.6	Have an understanding Sanitary, Storm and Domestic Water Plumbing systems and different Fire suppression Systems	

### Course Requirements & Evaluation Methods

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

- **Assignments/Papers/Exercises:** Written assignments designed to supplement and reinforce course material
- **Exams:** Written tests designed to measure knowledge of presented course material
- **Projects:** Assignments designed to measure the ability to apply presented course material
- **Class Attendance/Participation and Discussion Boards:** Daily attendance and participation in class discussions

#### Grading Matrix

Instrument	Value (points or percentages)	Total
Class Attendance/Participation	20 possible points	20%
Assignments	2 to 4 assignments totaling 10 points	10%
Project	1 project for 10 possible points	10%
Presentation	1 presentation for 10 possible points	10%
Exams	3 quizzes for 30 points (10 each)	30%
Final Exam		20%
<b>Total:</b>		<b>100%</b>

Additional Credit/Bonus		<b>TBD</b>
<b>Grade Determination:</b>	<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>	
<b>Grade Grubbing:</b>	<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 placed on the instructor and a poor reflection on the student. This behavior is rude, offensive and wastes the instructor's time.</p> <p><b>Examples:</b></p> <ul style="list-style-type: none"> <li>• “Rounding up my grade will help my GPA.”</li> <li>• “I need a passing grade to keep my scholarship.”</li> <li>• “I need a passing grade to get off of academic probation/suspension.”</li> <li>• “Can you give me a few points to get a higher grade?”</li> <li>• “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?”</li> <li>• “I know you do not offer extra credit, but can I write an essay to bring up my grade?”</li> <li>• “I misunderstood the instructions. Can I still turn in my assignment late?”</li> <li>• “I was wondering if there is anything I can do to bring up my grade, I am so close to an A.”</li> <li>• “I need a passing grade to graduate/get into graduate school.”</li> <li>• “My grade should be rounded up because I worked hard, came to every class, and never missed assignments.”</li> <li>• “If I do not get a passing grade, I will be in trouble with my parents.”</li> </ul> <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>	
<b>Course Procedures:</b>		
<b>CANVAS</b>	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.	

<p><b>Class Attendance Policy (See Catalog for Full Attendance Policy)</b></p>	<p>Prairie View A&amp;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 come to class, you may assume that you have received zero (0) points for the class period unless you have a university-approved excuse.</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>
<p><b>Makeup Work for Legitimate Absences</b></p>	<p>Prairie View A&amp;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. 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"> <li>1. Participation in an activity appearing on the University authorized activity list from the athletics coach, band director, organization advisors, etc.</li> <li>2. Death or major illness in a student's immediate family.</li> <li>3. Illness of a dependent family member.</li> <li>4. Participation in legal proceedings that requires a student's presence.</li> <li>5. Religious holy day.</li> <li>6. Confinement because of illness.</li> <li>7. Required participation in military duties.</li> </ol> <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 <b>Absence Verification Process</b> 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</p>

	<p>due. It is your responsibility to make sure that you can access CANVAS and all digital requirements. <b>Extensions will not be granted due to procrastination, forgetfulness, not following directions, or not purchasing access to required programs/software.</b></p> <p>If you are having trouble with CANVAS, contact CIITS at 936-261-3283 or send an email to <a href="mailto:ciits@pvamu.edu">ciits@pvamu.edu</a> or submit a trouble ticket to <a href="#">CIITS Troubleshooting</a>. 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><b>Always provide documentation with a timestamp to the instructor as proof of the technical issues with your account when the assigned tasks were available.</b></p>
<p><b>Absence Verification Process</b></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 <a href="#">Online Reporting Forms</a> 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 email: <a href="mailto:deanofstudents@pvamu.edu">deanofstudents@pvamu.edu</a> or phone: (936) 261-3550 or Office for Student Conduct via email: <a href="mailto:studentconduct@pvamu.edu">studentconduct@pvamu.edu</a> or phone: (936) 261-3524</p> <p><u>Requests for a university excused absence after the last day of classes will be denied.</u></p>
<p><b>Personal Conduct</b></p>	<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"> <li>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.</li> <li>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 discussions, your decision will be respected. However, you should also respect the instructor's decision not to award you daily participation points based upon that decision.</li> <li>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.</li> <li>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.</li> <li>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 "earphone" units will be allowed. If your cell phone rings during the lecture or you are texting, you are subject to losing all participation points for that class period.</li> <li>6. <u>Laptops must emit no noise.</u> Make sure your laptop is warmed up and your battery is 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.</li> <li>7. <u>Harassment of your fellow students of any kind will not be tolerated.</u></li> </ol>
<p><b>Conduct of the Class</b></p>	<p>Please note the following rules for the conduct of the class.</p> <ol style="list-style-type: none"> <li>1. <u>Class will begin at the appointed time.</u></li> </ol>



	<p>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 in that class.</p> <p>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.</p>
<b>Formatting Documents:</b>	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 Microsoft Word, Rich-Text, or plain text format.
<b>Exam Policy:</b>	<b>Exams and quizzes will be announced online via CANVAS as scheduled.</b> Exams should be taken as scheduled. No makeup examinations will be allowed except under documented emergencies (See Student Handbook).
<b>University Rules and Procedures:</b>	
<b>Disability Statement (See Student Handbook):</b>	<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 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 be 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>
<b>Academic Misconduct:</b>	<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 <a href="#">Academic Integrity webpage</a>. 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>
<b>Forms Of Academic Dishonesty:</b>	<p>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;</p> <p>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</p>

	<p>or paraphrased in your work; failure to acknowledge the use of another's words with quotation marks;</p> <p>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;</p> <p>4. <u>Conspiracy</u>: Agreeing with one or more persons to commit an act of academic/scholastic dishonesty; and</p> <p>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.</p>
<b>Nonacademic Misconduct:</b>	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.
<b>PVAMU's General Statement on the Use of Generative Artificial Intelligence Tools in the Classroom</b>	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 GAI's 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 <u>University's Administrative Guidelines on Academic Integrity</u> and its underlying academic values.
<b>Sexual Misconduct</b>	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 ( <a href="mailto:titleixteam@pvamu.edu">titleixteam@pvamu.edu</a> ) 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, Dr. Zakiya Brown, at 936-261-2144 or <a href="mailto:titleixteam@pvamu.edu">titleixteam@pvamu.edu</a> . More information can be found at <u>Title XI Website</u> , including confidential resources available on campus.
<b>Protections and Accommodations for Pregnant and Parenting Students</b>	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 <a href="mailto:titleixteam@pvamu.edu">titleixteam@pvamu.edu</a> . Additional information and/or support may be provided by the Office of Disability Services or the Office of the Dean of Students
<b>Non-Discrimination Statement</b>	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

	<p>gender identity in its programs and activities. The University is committed to supporting students and complying with The Texas A&amp;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 &amp; 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>
<p><b>Student Academic Appeals Process</b></p>	<p>Authority and responsibility for assigning grades to students rest 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 Online 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"> <li>1. Fill out the <i>Student-Informal Grade Appeal Form</i> with supporting documentation and submit to the Faculty Member and Department Chair/Head to initiate the informal appeal process.</li> <li>2. If the student does not accept the results of the <i>Faculty Member Informal Grade Appeal Response from the instructor</i>, the student must fill out the <i>Student Formal Grade Appeal Form</i> (link to form) and submit with documentation to the School of Architecture Grade Appeals Committee appointed by the Dean.</li> <li>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.</li> <li>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.</li> <li>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.</li> </ol>
<p><b>Student Support and Success:</b></p>	
<p><b>John B. Coleman Library</b></p>	<p>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&amp;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. <a href="#">Library Website</a> Phone: 936-261-1500</p>
<p><b>Academic Advising Services</b></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 <a href="#">advising website</a>. Phone: 936-261-5911</p>




<b>The University Tutoring Center</b>	<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: <a href="mailto:pvtutoring@pvamu.edu">pvtutoring@pvamu.edu</a>; <a href="#">University Tutoring Website</a></p>
<b>Writing Center</b>	<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; <a href="#">Writing Center Website</a>, <a href="#">Grammarly Registration</a></p>
<b>Panther Navigate</b>	<p>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; <a href="#">Panther Navigate Website</a></p>
<b>Student Counseling Services</b>	<p>The Student Counseling Services 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<sup>nd</sup> floor; Phone: 936-261-3564; <a href="#">Health &amp; Counseling Center Website</a></p>
<b>Office of Testing Services</b>	<p>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 <a href="#">OTS – Proctoring Service website</a>. Location: Wilhelmina Delco, 3<sup>rd</sup> Floor, Rm. 305; Phone: 936-261-3627; Email: <a href="mailto:aetesting@pvamu.edu">aetesting@pvamu.edu</a>; <a href="#">Testing Website</a></p>
<b>Office of Diagnostic Testing and Disability Services</b>	<p>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.</p>

	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; <a href="#">Disability Services Website</a>
<b>Center for Instructional Innovation and Technology Services (CIITS)</b>	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 <a href="#">CIITS Student Website</a> . Phone: 936-261-3283 or email: <a href="mailto:ciits@pvamu.edu">ciits@pvamu.edu</a> .
<b>Veteran Affairs</b>	Veteran 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; <a href="#">Veteran Affairs Website</a>
<b>Office for Student Engagement</b>	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; <a href="#">Student Engagement Website</a>
<b>Center for Careers &amp; Professional Development</b>	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 <sup>nd</sup> floor; Phone: 936-261-3570; <a href="#">Center for Careers &amp; Professional Development Website</a>
<b>COVID-19 Campus Safety Measures</b>	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"> <li>• 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.</li> <li>• 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.</li> <li>• 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.</li> <li>• Students who self-isolate will be responsible for communicating with their professors and securing an excuse from Student Conduct.</li> <li>• All students will have access to <a href="#">TimelyCare</a>, 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 <a href="http://timelycare.com/pvamu">timelycare.com/pvamu</a>.</li> <li>• Students will have access to COVID testing in the Student Health Clinic by appointment. Testing is for students who are symptomatic ONLY.</li> </ul>


### ACCREDITATION/ASSESSMENT CRITERIA Table No. 1-NAAB CRITERIA

This course is structured to assist the student in meeting 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](http://www.naab.org), and access "NAAB 2020 Conditions for Accreditation."













Performance Criteria:  <i>Edit to fit your course.</i>	Skill ☑	Understanding ☑	Course Learning Outcomes Competencies (T, R, I)		
			T Taught	R Reinforced	I Utilized/ Integrated
<b>REALM A: Critical Thinking and Representation</b>					
A.1. Professional Communication Skills (Ability)	X				X
A.2. Design Thinking Skills (Ability)			X		
A.3. Investigative Skills (Ability)	X				X
A.4. Architectural Design Skills (Ability)		X		X	
A.5. Ordering Systems (Ability)		X		X	
A.6. Use of Precedents (Ability)	X				X
A.7. History and Global Culture (Understanding)		X		X	
A.8. Cultural Diversity and Social Equity (Understanding)					
<b>REALM B: Building Practices, Technical Skills, and Knowledge</b>					
B.1. Pre-Design (Ability)		X	X		
B.2. Site Design (Ability)	X		X		
B.3. Codes and Regulations (Ability)		X	X		
B.4. Technical Documentation (Ability)		X	X		
B.5. Structural Systems (Ability)					
B.6. Environmental Systems (Ability)	X	X		X	
B.7. Building Envelope Systems and Assemblies (Understanding)		X	X		
B.8. Building Materials and Assemblies (Understanding)		X	X		
B.9. Building Service Systems (Understanding)		X		X	
B.10. Financial Considerations (Understanding)					
<b>REALM C: Integrated Architectural Solutions</b>					
C.1. Research (Understanding)	X				X
C.2. Integrated Evaluations and Decision-Making Design Process (Ability)		X	X		
<b>REALM D: Professional Practice</b>					
D.1. Stakeholder Roles in Architecture (Understanding)		X	X		
D.2. Project Management (Understanding)		X	X		
D.3. Business Practices (Understanding)					
D.4. Legal Responsibilities (Understanding)					
D.5. Professional Conduct (Understanding)					



### ACCREDITATION/ASSESSMENT CRITERIA TABLE No. 2: ACCE CRITERIA












This course is structured to assist the student in meeting the following criteria shown in **Table No. 2** as established by the American Council for Construction Education (ACCE) *Standards and Criteria for Accreditation*. To view the entire list, go to the ACCE website, [www.acce-hq.org](http://www.acce-hq.org), and view the “Accreditation Procedures.”

Course Learning Outcomes:  <i>Edit to fit your course.</i>	Competencies (T, R, I)			ACCE
	T Taught	R Reinforced	I Utilized/ Integrated	A Assessed
1. Create <b>written communications</b> appropriate to the construction discipline.			X	
2. Create <b>oral presentations</b> appropriate to the construction discipline.			X	
3. Create a construction <b>project safety plan</b> .				














4. Create construction <b>project cost estimates</b> .				
5. Create construction <b>project schedules</b> .				
6. Analyze professional decisions based on <b>ethical principles</b> .				
7. Analyze <b>methods, materials, and equipment</b> used to construct projects.	X			
8. Apply <b>electronic-based technology</b> to manage the construction process.				
9. Apply basic <b>surveying techniques</b> for construction layout and control.				
10. Understand different <b>methods of project delivery</b> and the roles and responsibilities of all constituencies involved in the design and construction process.				
11. Understand <b>construction accounting and cost control</b> .				
12. Understand <b>construction quality assurance and control</b> .				
13. Understand <b>construction project control</b> processes.				
14. Understand the <b>legal implications</b> of contract, common, and regulatory law to manage a construction project.				
15. Understand the basic principles of <b>sustainable construction</b> .	X			
16. Understand the basic principles of <b>structural behavior</b> .				
17. Understand the basic principles of <b>mechanical, electrical, and piping</b> systems.	X			




















<b>COURSE OUTLINE: EVENT AND LECTURE SCHEDULE</b>			
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.			
	<b>Registration/Assembly Dates</b>		<b>Dates exam scores will be posted</b>
	<b>Key Dates</b>		<b>Holidays</b>
	<b>Graduation Applications</b>		<b>Guest lectures</b>
	<b>Dates for Exams</b>		<b>Project Team Workshop</b>
	<b>Proctored Exams</b>		<b>Class Sessions using ZOOM or teleconference technology</b>
	<b>Lecture Completed</b>		<b>Lecture Notes, Assignments, or Articles posted to CANVAS</b>

<b>16 WEEK CALENDAR</b>	
<b>Week One: Topic</b> <b>January 18, 2024</b>	<b>Heat flow, mechanical systems</b>
Chapter (s):	<b>9, 14</b>
Assignment (s):	
<b>University Events:</b> 	January 15, 2024 [Monday]  <b>MARTIN LUTHER KING DAY (University Closed)</b>
	January 16, 2024 [Tuesday] <b>First Class Day Tuition &amp; Fees Payment Due Date</b>
	January 16, 2024 [Tuesday] <b>TUITION AND FEES PAYMENT DUE DATE @ 5:00 PM</b>

	January 16-23, 2024 [Tuesday-Tuesday]	Late Registration/Late Registration Fee Begins (\$50.00)
	January 17-26, 2023 [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!
<b>Week Two:</b> Topic <b>January 25, 2024</b>	<b>Air quality, mechanical systems</b>	
Chapter (s):	<b>5, 13, 14</b>	
Assignment (s):		
University Events: 		
<b>Week Three:</b> Topic <b>February 1, 2024</b>	<b>No In-Person class this day (Feb 1). There will be a lecture and assignment posted to Canvas Site, climate, thermal comfort</b>	
Chapter (s):	<b>1, 3, 4</b>	
Assignment (s):		
University Events: 	January 30, 2024 [Wednesday]	Financial Aid Refunds Begin
	January 31, 2024 [Wednesday]	 CENSUS DATE (12 <sup>TH</sup> 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.
<b>Week Four:</b> Topic <b>February 8, 2024</b>	<b>Quiz 1; Lighting and daylighting</b>	
Chapter (s):	<b>6, 8, 10</b>	
Assignment (s):		
University Events: 	February 6, 2024 [Tuesday]	 DROP FOR NON-PAYMENT OF TUITION AND FEES @ 5:00 PM.
<b>Week Five:</b> Topic <b>February 15, 2024</b>	<b>Lighting</b>	
Chapter (s):	<b>15, 16, 17</b>	
Assignment (s):		
University Events:  	February 12, 2024 [Monday]	 CENSUS DATE (20 <sup>th</sup> CLASS DAY)
	February 14, 2024 [Wednesday]	<b>PVAMU Architecture + Construction Science Career Fair 2024</b> 9:00 AM- 4:00 PM held in the Kennedy Architecture Building
<b>Week Six:</b> Topic <b>February 22, 2024</b>	<b>Electrical power and energy</b>	
Chapter (s):	<b>2, 25, 26, 27, 28, 29</b>	
Assignment (s):		
University Events: 		



<b>Week Seven:</b> Topic <b>February 29, 2024</b>	<b>Electrical power and energy</b>	
Chapter (s):	<b>2, 25, 26, 27, 28, 29</b>	
Assignment (s):		
University Events: 		
<b>Week Eight:</b> Topic <b>March 7, 2024</b>	<b>Quiz 2; Water, waste, and storm</b>	
Chapter (s):	<b>18, 19, 20, 21</b>	
Assignment (s):		
University Events: 	March 7-9, 2024 [Thursday-Saturday]	 <b>Mid-Term Exams</b>
<b>Week Nine:</b> Topic <b>March 11-15, 2024</b>	<b>SPRING BREAK!</b>	
Chapter (s):		
Assignment (s):		
University Events: 	March 13, 2024 [Wednesday]	 <b>MID-TERM EXAM GRADES DUE</b>
	March 15, 2024 [Friday]	 <b>Spring Break (University Closed) SUBJECT TO APPROVAL BY THE TAMUS Board of Regents!</b>
<b>Week Ten:</b> Topic <b>March 21, 2024</b>	<b>Water, waste, and storm</b>	
Chapter (s):	<b>18, 19, 20, 21</b>	
Assignment (s):		
University Events: 	March 20, 2023 [Wednesday]	<b>Founders Day/Honors Convocation</b>
<b>Week Eleven:</b> Topic <b>March 28, 2024</b>	<b>Fire protection</b>	
Chapter (s):	<b>24</b>	
Assignment (s):		
University Events: 	March 26, 2024 [Monday]	  <b>SPRING 2024 GRADUATION: FINAL DATE TO APPLY FOR GRADUATION! (Ceremony participation)</b>
	March 27, 2024 [Tuesday]	  <b>SPRING 2024 GRADUATION: Application for Graduation-Degree Conferral Only Begins. (NO ceremony participation or name listed in program.)</b>
	March 29, 2024 [Friday]	 <b>Good Friday (No classes; subject to approval by the TAMUS Board of Regents)</b>
<b>Week Twelve:</b> Topic <b>April 4, 2024</b>	<b>Quiz 3; Acoustics</b>	
Chapter (s):	<b>7, 23</b>	
Assignment (s):		

<b>University Events:</b>   	<b>April 2, 2024</b> [Tuesday]	 <b>Priority Registration Period for continuing students for Summer Term 2024, May/Summer 2024 Mini-Mester, and Fall Semester 2024. [SPECIAL POPULATIONS]</b>
	<b>April 6, 2024</b> [Saturday]	 <b>Registration Period for all students for Summer Term 2024, May/Summer 2024 Mini-Mester, and Fall Semester 2024. [SPECIAL POPULATIONS]</b>
<b>Week Thirteen: Topic</b> <b>April 11, 2024</b>	<b>Project deliverables due;</b> <b>Elevators and escalators</b>	
Chapter (s):	<b>31, 32</b>	
Assignment (s):		
<b>University Events:</b> 	<b>April 12, 2024</b> [Friday]	 <b>SPRING 2024 GRADUATION: Final Day to Apply for Graduation-Degree Conferral Only. (NO ceremony participation or name listed in program.)</b>
<b>Week Fourteen: Topic</b> <b>April 18, 2024</b>	<b>Project presentations</b>	
Chapter (s):		
Assignment (s):		
<b>University Events:</b> 		
<b>Week Fifteen Topic</b> <b>April 25, 2024</b>	<b>Project presentations</b>	
Chapter (s):		
Assignment (s):		
<b>University Events:</b> 	<b>April 26, 2024</b> [Friday]	 <b>LAST DAY OF CLASS FOR SPRING SEMESTER 2024!</b>
	<b>April 26, 2024</b> [Friday]	 <b>FINAL DAY TO WITHDRAW FROM COURSES OR THE UNIVERSITY WITH ACADEMIC RECORD ("W") FOR SPRING 2024</b>
<b>Week Sixteen</b>	<b>Final Exam on May 2 (Thursday, at regular class time)</b>	
	<b>April 29, 2024</b> [Monday]	 <b>STUDY DAY (NO CLASSES IN SESSION)</b>
	<b>April 30-May 8, 2024</b> [Tuesday-Wednesday]	 <b>FINAL EXAMINATION PERIOD</b>
	<b>May 9, 2024</b> [Thursday]	 <b>FINAL GRADES FOR GRADUATION CANDIDATES DUE BY 12:00 PM!</b>
	<b>May 11, 2024</b> [Saturday]	 <b>COMMENCEMENT</b>
	<b>May 14, 2024</b> [Tuesday]	 <b>FINAL GRADES DUE FOR ALL STUDENTS BY 11:59 PM!</b>

In order to ensure 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 the 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.

 [Edit to fit your course.](#)

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**STATEMENT OF AGREEMENT**

I have read the Course Syllabus for **ARCH 3345-P01 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

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**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:** \_\_\_\_\_

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