Course Title: Environmental Systems
Course Prefix: ARCH     Course No.: 3345     Section No.: P01

"..the act of architecture is not finished when the design is done, but when the building is built. However, must students see, and are taught, that the design is the end product." Gerald Weisbach, FAIA

### School of Architecture

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<tr>
<th>Department</th>
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<tr>
<td>☑ Architecture</td>
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<tr>
<td>☐ Construction Science</td>
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<tr>
<td>☐ Art</td>
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<tr>
<td>☐ Digital Media Art</td>
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<tr>
<td>☐ Community Development</td>
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**Class Meeting Days & Times:**
Mondays, Tuesdays, Thursday, and Wednesdays; 8:00 AM- 10:50 AM

**Catalog Description:**
“(3-0) Credit 3 semester hours. Building design as it relates to structure, circulation, context and support systems.”

**Prerequisites:**
N/A

**Co-requisites:**
N/A

**Mode of Instruction:**
☑ Face-to-face ☐ On-line ☐ Hybrid

**Instructor:**
Huiyi Xu, M. Arch, MPH

**Office Location:**
School of Architecture, Prairie View A&M University, Room 248

**Office Telephone:**
(936) 261-9820

**Email Address:**
huxu@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:**
By appointment (Tuesday/Thursday 10:30 AM -12:00 AM preferred), meetings will be conducted via ZOOM. 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:


Recommended Text/Readings: Professor will provide supplemental Required Handouts throughout the semester as required.

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 lighting basics and temperature, understand and calculate storm water downspouts and leaders, understand basic needs and considerations for vertical transportation in their buildings, and discuss the pros and cons of various HVAC systems. Students will be evaluated through three open exams, as well as a research paper and formal presentation of their study topic. Additionally, on-line or in person pop quizzes either oral or written will be administered at the teacher’s discretion.

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<tr>
<th>No.</th>
<th>Learning Objectives</th>
<th>Core Curriculum Outcome Alignment</th>
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<tbody>
<tr>
<td>3453.1</td>
<td>Describe the different building environmental systems</td>
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<tr>
<td>3453.2</td>
<td>Understand the importance of site analysis and the environmental impact that climate plays in the building system designs</td>
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<tr>
<td>3453.3</td>
<td>Understand the differences and the impact on the building of various HVAC systems</td>
<td>SLO 20</td>
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<tr>
<td>3453.4</td>
<td>Understand the differences and the impact of various lighting systems</td>
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<tr>
<td>3453.5</td>
<td>Have an understanding and appreciation for Sanitary, Storm, and Domestic Water Plumbing systems and different Fire suppression Systems</td>
<td>SLO 20</td>
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<tr>
<td>3453.6</td>
<td>Have a general understanding of various vertical transportation systems</td>
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<tr>
<td>3452.7</td>
<td>Have a General Understanding of basic acoustic principals</td>
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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/Quiz/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 ability to apply presented course material
- **Class Attendance/Participation and Discussion Boards**: Daily attendance and participation in class discussions

### Grading Matrix

**A** – (exceptional pass) exceptional performance; strongly exceeding the requirements of the course problem, showing strong academic initiative and independent resourcefulness.

**B** – (high pass) performance above the norm; accurate and complete; beyond the minimum requirements of the course problem: work demonstrates marked progress and initiative.

**C** – (pass) satisfactory work that adequately meets minimum requirements and demonstrates satisfactory comprehension, communication skills, and effort; demonstrates little initiative to investigate the problem without substantial prodding of the instructor; work shows little improvement.

**D** – (low pass) unsatisfactorily meets minimum requirements; demonstrates minimum comprehension of the course problem, communication skills, and effort at an inferior level; initiative lacking; improvement not noticeable.

**F** – (fail) does not meet minimum requirements; fails to adequately demonstrate comprehension of the course problem, communication skills, and effort requiring repeating the course.

<table>
<thead>
<tr>
<th>Instrument</th>
<th>Value (points or percentages)</th>
<th>Total</th>
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<tr>
<td>Assignment</td>
<td>10 quizzes at 10 points each</td>
<td>20 %</td>
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<td>Late submittal: -10% point penalty. No late submittal after the submittal platform is closed on CANVAS</td>
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<tr>
<td>Final Project and Presentation</td>
<td>100 points</td>
<td>25 %</td>
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<td>If students cannot make the Final Presentation by the assigned day due to the University Approved Excuse, students need to get approval for the late presentation before the assigned day by instructor. Without approving, the Final Presentation is &quot;0&quot;.</td>
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<tr>
<td>Exams</td>
<td>3 Exams at 100 points each</td>
<td>45 %</td>
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<tr>
<td>Class Attendance/Participation</td>
<td>1 point each</td>
<td>10 %</td>
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<td></td>
<td>Includes attendance and participation</td>
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<td></td>
<td>- 1 absent</td>
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<td></td>
<td>- 0.5 left early</td>
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<td>- 0.5 late</td>
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<tr>
<td>Total</td>
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<td>100 %</td>
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<tr>
<td>Additional Credit/Bonus</td>
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<td>100 %</td>
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### Grade Determination:

- **A** = 90-100 %
- **B** = 80–89 %
- **C** = 70–79 %
- **D** = 60–69 %
- **F** = 59 % or below

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, including the final exam, 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.
aid regulations. In contrast, if the student has completed all assignments and exams, including the final exam, but performed below the grade level of a D, a grade of F will be assigned for the final course grade.

Students need to follow the Class Attendance Policy and Excused Absent Policy. There is no exception for any absence.

Course Procedures:

Taskstream

Taskstream 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, but for general information, you can visit Taskstream via the link in Canvas.

Class Attendance Policy (See Catalog for Full Attendance Policy)

Prairie View A&M University requires regular class attendance. Attending all classes supports full academic development of each learner whether classes are taught with the instructor physically present or via distance learning technologies such as interactive video and/or internet. Excessive absenteeism, whether excused or unexcused, may result in a student’s course grade being reduced or in assignment of a grade of “F". Absences are accumulated beginning with the first day of class during regular semesters and summer terms. Each faculty member will include the University’s attendance policy in each course syllabus.

Instructor’s Attendance and Participation Policy

Prairie View A&M University requires regular class attendance. Attending all classes supports full academic development of each learner whether classes are taught with the instructor physically present or via distance learning technologies such as interactive video and/or internet. Absences are accumulated beginning with the first day of class during regular semesters and summer terms. If you fail to submit the weekly tasks when due, you will be marked absent for that week.

Participation and absences are accumulated beginning with the first day of class on June 6, 2022 (1st 5 week session) or July 12, 2022 (2nd 5 week session). 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 in one of the following classifications:

1. Participation in an activity appearing on the University authorized activity list.
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.

If you miss class for one of these reasons, you must provide a memorandum plus supporting documentation to clear the absence from your record. These documents will be accepted for ONE WEEK AFTER THE ABSENCE HAS OCCURRED. There will be NO exceptions to this rule. This includes student-athletes who are to provide university forms for reporting absences to participate in approved competitions. Emails will not be accepted to clear these absences. After that, the involvement grade stands. If you have another reason other than these seven for being absent, you may submit a memorandum with supporting documentation requesting that the absence be removed from your record for ONE WEEK AFTER THE ABSENCE HAS OCCURRED. There will be NO exceptions to this rule. All requests will be reviewed and approved or disapproved based upon the justification that you provide in your memorandum. While other reasons for being absent are rarely approved; it is understood that you might feel that there is a higher priority that requires you to miss class. In accepting your decision to miss class, you must also be willing to accept the instructor’s decision to not award you involvement points for the class or classes that are missed.

Personal Conduct

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:

1. During regular class periods all students are expected to dress appropriately in accordance with university regulations so that no disruptions in the learning experience will occur.
2. No hats or caps will be allowed to be worn in the classroom during class sessions. 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. Dress Code for Presentations: 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 not be eating food or consuming drinks during the discussion sessions. No food or drink is allowed in the classroom at any time.
5. Cellular telephones are to be turned off or put on silent ring tone 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. Laptops must emit no noise. 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. Harassment of your fellow students of any kind will not be tolerated.

Conduct of the Class

Please note the following rules for the conduct of the class.
1. Class will begin at the appointed time.
2. Class is dismissed when so indicated by the instructor. 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. Lecture Notes and Handouts 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 form another student or source.

Formatting Documents:

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.

Exam Policy:

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).

COVID-19 Campus Safety Measures

To promote public safety and protect students, faculty, and staff during the COVID-19 pandemic, Prairie View A&M University has adopted policies and practices for the Spring Semester 2021 academic term to limit virus transmission. Students must observe the following practices while participating in face-to-face courses and course-related activities (office hours, help sessions, transitioning to and between classes, study spaces, academic services, etc.):

- **Self-monitoring** - Students should follow CDC recommendations for self-monitoring. Students who have a fever or exhibit symptoms of COVID-19 should participate in class remotely and should not participate in face-to-face instruction.
- **Face Coverings** - Face coverings (cloth face covering, surgical mask, etc.) must be properly worn in all non-private spaces including classrooms, teaching laboratories, common spaces such as lobbies and hallways, public study spaces, libraries, academic resource and support offices, and outdoor spaces where 6 feet of physical distancing is difficult to reliably maintain.
• **Physical Distancing** - Physical distancing must be maintained between students, instructors, and others in course and course-related activities.

• **Classroom Ingress/Egress** - Students must follow marked pathways for entering and exiting classrooms and other teaching spaces. Students should leave classrooms promptly after course activities have concluded, should not congregate in hallways and should maintain 6-foot physical distancing when waiting to enter classrooms and other instructional spaces.

• **Face-to-face Class** - To attend a face-to-face class, students must wear a face covering (or a face shield if they have an exemption letter). If a student refuses to wear a face covering, the instructor should ask the student to leave and join the class remotely. If the student does not leave the class, the faculty member should report that student to the Office for Student Conduct for adjudication. Additionally, the faculty member may choose to teach that day’s class remotely for all students.

• **COVID-19 Guidelines for Student Conduct Adjudication** - The mandatory COVID-19 Training/Certification taken by all students serves as the 1st Warning for violation of COVID-19 Guidelines.
  - 1st incident: upon review of Incident Report and finding of responsibility — Conduct Probation
  - 2nd incident: upon review of Incident Report and finding of responsibility — Suspension
  - Consult the Code of Student Conduct in the Student Planner or Student Conduct website for additional information on Conduct Probation and Suspension.

• **Personal Illness and Quarantine** - Students required to quarantine must participate in courses and course-related activities remotely and must not attend face-to-face course activities. Students should notify their instructors of the quarantine requirement. Students under quarantine are expected to participate in courses and complete graded work unless they have symptoms that are too severe to participate in course activities. Students experiencing personal injury or illness that is too severe for the student to attend class qualify for an excused absence. To receive an excused absence, students must provide appropriate documentation to the Office for Student Conduct, studentconduct@pvamu.edu.

**Professional Organizations and Journals**

- **Magazines**: Architectural Record Magazine, Progressive Architecture, Texas Architect and El Croquis to name a few.
- **Organizations**: Texas Society of Architects, American Institute of Architects, USGBC and others professional associations.

**References**

**University Rules and Procedures**: 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 being successful in class can be produced.

**Academic Misconduct (See Student Planner)**: You are expected to practice academic honesty in every aspect of this course and all other courses. Make sure you are familiar with your Student Planner, especially the section on academic misconduct (see *University Administrative Guidelines on Academic Integrity*). Students who engage in academic misconduct are subject to university disciplinary procedures. As listed in the PVAMU Undergraduate Catalog, Graduate Catalog, and the Student Planner, 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 or to have attempted to commit the following academic misconduct may also be subject to disciplinary review and action as outlined in the PVAMU Student Planner.
| Forms Of Academic Dishonesty: | 1. **Cheating:** Deception in which a student misrepresents that he/she has mastered information on an academic exercise that he/she has not 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. **Plagiarism:** 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. **Multiple Submission:** 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.  
4. **Conspiracy:** Agreeing with one or more persons to commit an act of academic/scholastic dishonesty.  
5. **Fabrication of Information/Forgery:** Use or submission of contrived, invented, forged, or altered information in any assignment, laboratory exercise, or test; tampering with or production of a counterfeit document, particularly documents which make up the student’s academic record. Examples: making up a source or citing nonexistent publication or article; representing made up data as real for an experiment in a science laboratory class; forging a change of grade or student withdrawal record; falsifying any document related to a student academic exercise. |
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<tr>
<td>Nonacademic Misconduct (See Student Planner):</td>
<td>The university respects the rights of instructors to teach and students to learn. Maintenance of these rights requires campus conditions that do not impede their exercise. Campus behavior that interferes with either: (1) the instructor's ability to conduct the class; (2) the inability of other students to profit from the instructional program, or (3) campus behavior that interferes with the rights of others will not be tolerated. An individual engaging in such disruptive behavior may be subject to disciplinary action. Such incidents will be adjudicated by the Dean of Students under nonacademic procedures.</td>
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<tr>
<td>Sexual Misconduct</td>
<td>Sexual harassment of students and employees at Prairie View A&amp;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&amp;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 at 936-261-2144 or <a href="mailto:titleixteam@pvamu.edu">titleixteam@pvamu.edu</a>. More information can be found at the Title IX Webpage including confidential resources available on campus.</td>
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<tr>
<td>Pregnancy, Pregnancy-related, and Parenting Accommodations</td>
<td>Title IX of the Education Amendments of 1972 prohibits sex discrimination, which includes discrimination based on pregnancy, marital status, or parental status. Students seeking accommodations related to pregnancy, pregnancy-related condition, or parenting (reasonably immediate postpartum period) are encouraged to contact Student Disability Services or the Dean of Students’ Office for additional information and to request accommodations. More information can be found at this webpage.</td>
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<tr>
<td>Non-Discrimination Statement</td>
<td>Prairie View A&amp;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&amp;M University System non-discrimination policy. It seeks to establish an environment that is free of bias, discrimination, and harassment. If you</td>
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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 936-261-1744 or 1792.

| **Student Academic Appeals Process** | Authority and responsibility for assigning grades to students rests with the faculty. However, in those instances where students believe that miscommunication, errors, or unfairness of any kind may have adversely affected the instructor's assessment of their academic performance, the student has a right to appeal by the procedure listed in the University Catalog and by doing so within thirty days of receiving the grade or experiencing any other problematic academic event that prompted the complaint. Students can file Academic Complaints and/or Grade Appeals at this [webpage](#). |
| **Student Support and Success:** | |
| **John B. Coleman Library** | The library and its partners have as their mission to provide resources and instructional material in support of the evolving curriculum, as a partner in Prairie View A&M University's mission of teaching, research, and service and to support the University's core values of access and quality, diversity, leadership, relevance, and social responsibility through emphasis on ten key areas of service. It maintains library collections and access both on campus, online, and through local agreements to further the educational goals of students and faculty. Phone: 936-261-1500; Website: J. B. Coleman Library. |
| **Academic Advising Services** | Academic Advising Services offers students a variety of services that contributes to student success and leads towards graduation. We assist students with understanding university policies and procedures that affect academic progress. We support the early alert program to help students get connected to success early in the semester. We help refer students to the appropriate academic support services when the student is unsure of the best resource for their needs. Some students are supported by faculty advisors in their respective colleges. Your faculty advisor can be identified in PantherTracks. Advisors with Academic Advising Services are available to all students. We are located across campus. You can find your advisor’s location by academic major at the [Academic Advising Website](#). Phone: 936-261-5911. |
| **The University Tutoring Center** | 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 is offered face-to-face in the UTC, in virtual face-to-face sessions, and through [online sessions at PVPlace](#). Other support services available for students include Supplemental Instruction, Study Break, Academic Success Workshops, and Algebra Study Jam. Location: J. B. Coleman Library, Rm. 307; Phone: 936-261-1561; Email: pvtutoring@pvamu.edu; Website: University Tutoring Center. |
| **Academic Early Alert** | Academic Early Alert is a proactive system of communication and collaboration between faculty, academic advisors, and PVAMU students that is designed to support student success by promptly identifying issues and allowing for intervention. Academic Early Alert helps students by providing a central location to schedule advising appointments, view advisor contact information, and request assistance. Students who recognize that they have a problem that is negatively affecting their academic performance or ability to continue school may self-refer an Academic Early Alert. To do so, students will log in to PVPlace and click on Academic Early Alert on the left sidebar. Phone: 936-261-5902; Website: [Academic Early Alert](#). |
| **Student Counseling Services** | The Student Counseling Services unit offers a range of services and programs to assist students in maximizing their potential for success: short-term individual, couples, and group counseling, as well as crisis intervention, outreach, consultation, and referral services. The staff is licensed by the State of Texas and provides assistance to students who are dealing with academic skills concerns, situational crises, adjustment problems, and emotional difficulties. Information shared with the staff is treated confidentially and in accordance with Texas State Law. Location: Hobart Taylor, 2nd floor; Phone: 936-261-3564; Website: [Student Counseling Services](#). |
Office of Testing Services
Testing Services serves to create opportunities by offering suite of exams that aid in the students’ academic and professional success. Currently we administer entrance (HESI A2), college readiness (TSI assessment), Prior Learning (CLEP, DSST), and proctored exams. Location: Wilhelmina Delco, 3rd Floor, Rm. 305; Phone: 936-261-3627; Email: aetesting@pvamu.edu; Website: Testing Services.

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 hardware and software, adapted furniture, proctoring of 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; Website: Disability Services.

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 college in the traditional manner. The Center for Instructional Innovation and Technology Services (CIITS) supports student learning through online, hybrid, web-assisted and 2-way video course delivery. For more details and contact information, visit: CIITS Student Webpage; Phone: 936-261-3283.

Veteran Affairs
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; Website: Veteran Affairs.

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: Office for Student Engagement.

Career Services
Career Services supports students through professional development, career readiness, and placement and employment assistance. The Office provides one-on-one career coaching, interview preparation, resume and letter writing, and career exploration workshops and seminars. Services are provided for students at the Northwest Houston Center and College of Nursing in the Medical Center twice a month or on a requested basis. Distance Learning students are encouraged to visit the Career Services website for information regarding services provided. Location: Anderson Hall, 2nd floor; Phone: 936-261-3570; Website: Career Services.

Technical Considerations for Online and Web-Assist Courses:
Minimum Hardware and Software Requirements
Minimum Recommended Hardware and Software:
- Intel PC or Laptop with Windows 10 or later version; Mac with OS High Sierra*
- Smartphone or iPad/Tablet with Wi-Fi*
- High speed Internet access
- 8 GB Memory
- Hard drive with 320 GB storage space
- 15” monitor, 800x600, color or 16 bit
- Sound card w/speakers
- Microphone and recording software
- Keyboard & mouse
- Most current version of Google Chrome, Safari or Firefox
Participants should have a basic proficiency of the following computer skills:

- Sending and receiving emails
- A working knowledge of the Internet
- Microsoft Word (or a program convertible to Word)
- Acrobat PDF Reader
- Windows or Mac OS
- Video conferencing software

Netiquette (online etiquette):

Students are expected to participate in all discussions and virtual classroom chats as directed. Students are to be respectful and courteous to others on discussion 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.

Video Conferencing Etiquette

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 session. Before class session begins, test audio, video and lighting to alleviate technology issues.

During the first week of class each student will be required to acknowledge by replying to a posting stating that you have reviewed and understand the following Online Netiquette Policy for the course.

1. Discussion/Zoom / Webcam Behavior
   When in a Zoom meeting or utilizing your webcam, be sure to act and dress as professionally as you can. You should look the same as you would if we were meeting face-to-face in the instructor’s office or in class. You should be sitting up in a chair and not laying down. Consider how you might look if you were going to be interviewed for a job via Zoom. If you feel as though your behavior or appearance would reflect negatively on you during that situation you are advised against it. You should also try to keep your physical environment where you are working on the class to be as quiet as possible. If there is a television or loud music playing in the background try to limit it, as it can inhibit your ability to be easily heard and understood.
   - Be properly dressed- hair bonnets, caps, pajamas, etc., will not be acceptable when attending class and participating in the discussions.
   - Be punctual
   - Be kind to each other
   - Please mute microphones when lecture is in session
   - Have fun!

2. When posting discussions or e-mailing one another, please be respectful of what you write. Inappropriate language will not be tolerated, and the instructor has the right to determine what is inappropriate. Disrespectful students are subject to discipline or dismissal from the online learning platform for this course. All activities in the classroom will follow standards set in the Student Handbook.

3. When creating/posting images do NOT use graphics that have sexual, political or religious implications. If you are unsure if a certain graphic is appropriate, email your instructor privately.

4. Address your peer or instructor with their names for each post or email.

5. Do not use ALL CAPS for postings or unnecessary exclamation marks, and not use text messaging-style for official assignment postings & email to the instructor. Caps where appropriate, example proper nouns and at the beginning of each sentence.

6. When posting critiques, try to be positive with your remarks, at the same time well-seasoned with ideas and comments how your peers can improve their work.
7. This course requires that you give support and feedback to your classmate’s works. If you see that someone does not have any comments made, please review your classmate’s works by posting feedback.
8. Aim at getting your discussion assignments & projects in early. (The instructor permits revisions for better grades, most important personal enrichment and improvement if assignment is posted before the due date.) Late assignments or discussions can slow the class down and will not benefit you as the learner.
9. Include references with your answers when it is cited from. Do not violate copyright laws.
10. Respect examples of Students Works posted online. They are posted as a guide.

**Technical Support:**
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.

**Submission of Assignments-On Line Courses:**
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.

**ASSIGNMENTS** are due at the start of the class session. No late work will be accepted without proper documentation.

All **DISCUSSION FORUMS** have two due dates. The **first one** is the **deadline to post your substantive post** (without losing credit), and the **second one** is to finish up with your responses. This is designed to allow ample time after everyone has answered the question for class discussion. Be sure to check the due dates on the assignment and schedule documents for each module.

**Last-minute posts that do not provide time for other students to respond will not be counted as ‘substantial’ replies.** This is the same as shouting as a response as you walk out of a room. Your substantive replies should be posted in time for others to respond. The final due date of the discussion is for finishing up the discussion. If you have questions about this, don’t hesitate to post in the class FAQ forum.

**Grade and Evaluation**
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 written feedback as well.

**Emails will be responded via email within 48 hours Monday-Friday before 5:00 PM.** There will not be a response to emails asking about the class discussion (check your weekly schedule).

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.

**Discussion Requirement-On Line Courses:**
Online courses often require minimal to no face-to-face meetings. However, conversations about the readings, lectures, materials, and other aspects of the course can take place in a seminar fashion. This will be accomplished using the discussion forum. The exact use of the discussion board will be determined by the instructor.

Students are required to log-on to the course website often to participate in discussion. It is strongly advised that you check the discussion area daily to keep abreast of discussions. When a topic is posted, everyone is required to participate. The exact use of discussion will be determined by the instructor.

When you are required to participate in the ‘Discussion Forum’ reply with your comments and respond to at least one of your classmates. All comments must be posted by the deadlines to receive credit. You will not receive any credit if you copy comments from readily available resources word for word (ex: online text, lectures, textbook, etc.). Last-minute posts that do not provide time for other students to respond will not be counted as...
“substantial” replies. This is the same as shouting as a response as you walk out of a room. Your substantive replies should be posted in time for others to respond. The final due date of the discussion is for finishing up the conversation or assignment.

It is strongly suggested that students type their discussion postings in a word processing application and save it to their computer, a removable drive, cloud storage, email, etc. before posting to the discussion forum. 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; and 2) grammatical errors can be greatly minimized using the spell-and-grammar check functions in word processing applications. Once the post(s) have been typed and corrected in the word processing application, it should be copied and pasted to the discussion board.

**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, go to the NAAB website, www.naab.org and access “2014 NAAB Conditions for Accreditation.”

<table>
<thead>
<tr>
<th>Performance Criteria:</th>
<th>Ability</th>
<th>Understanding</th>
<th>Course Learning Outcomes (T, R, I)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>T Taught</td>
<td>R Reinforced</td>
<td>I Utilized/Integrated</td>
</tr>
</tbody>
</table>

**REALM A: Critical Thinking and Representation**

A.1. Professional Communication Skills (Ability)  X
A.2. Design Thinking Skills (Ability) X
A.3. Investigative Skills (Ability) X
A.4. Architectural Design Skills (Ability) X
A.5. Ordering Systems (Ability) X
A.6. Use of Precedents (Ability) X
A.7. History and Global Culture (Understanding) X X
A.8. Cultural Diversity and Social Equity (Understanding)

**REALM B: Building Practices, Technical Skills, and Knowledge**

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.7. Building Envelope Systems and Assemblies (Understanding) X X
B.8. Building Materials and Assemblies (Understanding) X X
B.10. Financial Considerations (Understanding)

**REALM C: Integrated Architectural Solutions**

C.1. Research (Understanding) X
C.2. Integrated Evaluations and Decision-Making Design Process (Ability) X X
C.3. Integrative Design (Ability) X X

**REALM D: Professional Practice**

D.1. Stakeholder Roles in Architecture (Understanding) X X
D.2. Project Management (Understanding)
D.4. Legal Responsibilities (Understanding)
D.5. Professional Conduct (Understanding)
This course is structured to assist the student meet the following criteria shown in Table No. 1 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 and view the “Accreditation Procedures.”

### Course Learning Outcomes:

<table>
<thead>
<tr>
<th>Competencies</th>
<th>ACCE</th>
</tr>
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<tbody>
<tr>
<td>(T, R, I)</td>
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<td>T Taught</td>
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<td>R Reinforced</td>
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<td>I Utilized/Integrated</td>
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<tr>
<td>A Assessed</td>
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</tbody>
</table>

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 construction documents for **planning and management** of construction processes.
8. Analyze **methods, materials, and equipment** used to construct projects.
9. Apply construction management skills as a member of a **multidisciplinary team**.
10. Apply **electronic-based technology** to manage the construction process.
11. Apply basic **surveying techniques** for construction layout and control.
12. Understand different **methods of project delivery** and the roles and responsibilities of all constituencies involved in the design and construction process.
13. Understand **construction risk management**.
14. Understand **construction accounting and cost control**.
15. Understand **construction quality assurance and control**.
16. Understand **construction project control** processes.
17. Understand the **legal implications** of contract, common, and regulatory law to manage a construction project.
18. Understand the basic principles of **sustainable construction**.
19. Understand the basic principles of **structural behavior**.
20. 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.

<table>
<thead>
<tr>
<th>Event Date</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Registration/Assembly Dates</td>
<td>Dates exam scores will be posted</td>
</tr>
<tr>
<td>Key Dates</td>
<td>Holidays</td>
</tr>
<tr>
<td>Graduation Applications</td>
<td>Guest lectures</td>
</tr>
<tr>
<td>Dates for Exams</td>
<td>Project Team Workshop</td>
</tr>
<tr>
<td>Proctored Exams</td>
<td>Class Sessions using ZOOM or teleconference technology</td>
</tr>
<tr>
<td>Week #</td>
<td>Date</td>
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<tr>
<td></td>
<td>May 30, 2022</td>
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<td>June 6, 2022</td>
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<td></td>
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</tr>
<tr>
<td>Week One:</td>
<td>June 6, 2022</td>
</tr>
<tr>
<td>Class #1</td>
<td>June 7, 2022</td>
</tr>
<tr>
<td>Class #2</td>
<td>June 8, 2022</td>
</tr>
<tr>
<td>Class #3</td>
<td>June 9, 2022</td>
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<tr>
<td>Class #4</td>
<td>June 10, 2022</td>
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<tr>
<td>Class #5</td>
<td></td>
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<tr>
<td>Chapter (s):</td>
<td></td>
</tr>
<tr>
<td>Class #6</td>
<td>June 13, 2022</td>
</tr>
<tr>
<td>Class #7</td>
<td>June 14, 2022</td>
</tr>
<tr>
<td>Class #8</td>
<td>June 15, 2022</td>
</tr>
<tr>
<td>Class #9</td>
<td>June 16, 2022</td>
</tr>
<tr>
<td>Class #10</td>
<td>June 18, 2022</td>
</tr>
<tr>
<td>Week Two:</td>
<td>June 20, 2022</td>
</tr>
<tr>
<td>Class #11</td>
<td>June 21, 2022</td>
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<tr>
<td>Class #12</td>
<td>June 22, 2022</td>
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<tr>
<td>Class #13</td>
<td>June 23, 2022</td>
</tr>
<tr>
<td>Class #14</td>
<td>June 24, 2022</td>
</tr>
<tr>
<td>Class #15</td>
<td></td>
</tr>
</tbody>
</table>
Chapter (s):  
Assignment (s):  

**Week Four:**

<table>
<thead>
<tr>
<th>Class #16</th>
<th>June 27, 2022 [Monday]</th>
<th>Lecture/Assignment:</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Class #17</th>
<th>June 28, 2022 [Tuesday]</th>
<th>Lecture/Assignment:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Final Date to Apply for Summer 2022 Graduation (ceremony participation)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Class #18</th>
<th>June 29, 2022 [Wednesday]</th>
<th>Lecture/Assignment:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Application for Graduation-Degree conferral Only for the Summer 2022 Begins (no ceremony participation or listing in the program)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Class #19</th>
<th>June 30, 2022 [Thursday]</th>
<th>Lecture/Assignment:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Deadline to Submit Financial Aid Verification Documents for Summer 2022</td>
<td></td>
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<table>
<thead>
<tr>
<th>Class #20</th>
<th>July 1, 2022 [Friday]</th>
<th>Lecture/Assignment:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>20th Class Day</td>
<td></td>
</tr>
</tbody>
</table>

2nd Five-week calendar shown below along with continuation of ten-week calendar.

<table>
<thead>
<tr>
<th>Week # Class# Topics</th>
<th>Date</th>
<th>Topics and Assignments</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Week Five: Class #21</th>
<th>July 4, 2022 [Monday]</th>
<th>Independence Day (Holiday; university is closed)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Class #22 July 5, 2022 [Tuesday]</td>
<td>Lecture/Assignment:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Last Class Day- Summer 2022 1st 5-week session</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Final Exams- Summer 2022 1st 5-week session</td>
<td></td>
</tr>
<tr>
<td>Class #23 July 6, 2022 [Wednesday]</td>
<td>Lecture: Module 2 - Heat / thermal gain; environmental impact on design</td>
<td></td>
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<tr>
<td></td>
<td>Assignment: Quiz 1</td>
<td></td>
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<tr>
<td></td>
<td>Final Grades due for Summer 2022 1st 5-Week Session (11:59 p.m.)</td>
<td></td>
</tr>
<tr>
<td>Class #24 July 7, 2022 [Thursday]</td>
<td>Lecture/Assignment: no class</td>
<td></td>
</tr>
<tr>
<td>Class #25 July 8, 2022 [Friday]</td>
<td>Lecture/Assignment: no class</td>
<td></td>
</tr>
</tbody>
</table>

Chapter (s):  
Assignment (s):  

**Week Six:**

<table>
<thead>
<tr>
<th>Class #26</th>
<th>July 11, 2022 [Monday]</th>
<th>Module 1 – Introduction</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Heat/thermal gain; environmental impact on design</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Assignment: Quiz 1</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Class #27</th>
<th>July 12, 2022 [Tuesday]</th>
<th>Module 2 - Thermal Comfort and Indoor Air Quality</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Assignment: Quiz 2</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Class #28</th>
<th>July 13, 2022 [Wednesday]</th>
<th>Module 3 - Mechanical System</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Exam Review 1 (Mechanical system is not included in exam 1)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Assignment: Quiz 3</td>
<td></td>
</tr>
</tbody>
</table>

ARCH 4698 P02/P82  
PRAIRIE VIEW A&M UNIVERSITY  
SPECIAL DESIGN  
COURSE SYLLABUS  
SCHOOL OF ARCHITECTURE  
15
<table>
<thead>
<tr>
<th>Class #</th>
<th>Date</th>
<th>Lecture/Assignment:</th>
</tr>
</thead>
<tbody>
<tr>
<td>#30</td>
<td>July 15, 2022 [Friday]</td>
<td>no class</td>
</tr>
</tbody>
</table>

Chapter(s):

Assignment(s):

### Week Seven:

#### Class #31
- July 18, 2022 [Monday]
  - Module 4 – Exam 1

#### Class #32
- July 19, 2022 [Tuesday]
  - Module 5 – Day Lighting and Lighting Fundamentals
  - Assignment: Quiz 4

#### Class #33
- July 20, 2022 [Wednesday]
  - Module 6 – Lighting Design Process and Lighting Electrical Sources
  - Assignment: Quiz 5

#### Class #34
- July 21, 2022 [Thursday]
  - Module 7 – Electricity
  - Assignment: Quiz 6

#### Class #35
- July 22, 2022 [Friday]
  - Lecture/Assignment: no class

### Week Eight:

#### Class #36
- July 25, 2022 [Monday]
  - Module 8 – Water and Waste
  - Assignment: Quiz 7

  **Final Day to Withdraw from the University (from all courses) for the Summer 2022 10-week session semester**

#### Class #37
- July 26, 2022 [Tuesday]
  - Module 9 – Water and Waste
  - Exam 2 Review (Water and Waste is not included in exam 2)
  - Assignment: Quiz 7

#### Class #38
- July 27, 2022 [Wednesday]
  - Module 10 – Exam 2

#### Class #39
- July 28, 2022 [Thursday]
  - Module 11 – Fire and Life safety
  - Assignment: Quiz 8

#### Class #40
- July 29, 2022 [Friday]
  - Lecture/Assignment: no class

### Week Nine:

#### Class #41
- August 1, 2022 [Monday]
  - Module 12 – Acoustic
  - Assignment: Quiz 9

#### Class #42
- August 2, 2022 [Tuesday]
  - Module 13 – Vertical Transportation
  - Assignment: Quiz 10

#### Class #43
- August 3, 2022 [Wednesday]
  - Module 14 – Exam 3 Review

#### Class #44
- August 4, 2022 [Thursday]
  - Module 15 – Final Presentation

  **Last Class Day**

  **Final Day to Apply for Degree Conferral only for Summer 2021 Graduation (no ceremony participation or listing in the program)**
<table>
<thead>
<tr>
<th>Assignment (s):</th>
<th>Date(s)</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>August 5-10, 2022 [Friday-Wednesday]</td>
<td>Module 16 – Exam 3 (August 8) Final Exams</td>
</tr>
<tr>
<td></td>
<td>August 11, 2022 [Thursday]</td>
<td>Final Grades due for Graduation Candidates (12:00 p.m.)</td>
</tr>
<tr>
<td></td>
<td>August 16, 2021 [Tuesday]</td>
<td>Final Day for Graduating Undergraduates to Submit Application for Tuition Rebate for Summer 2021</td>
</tr>
<tr>
<td></td>
<td>August 13, 2022 [Saturday]</td>
<td>COMMENCEMENT</td>
</tr>
<tr>
<td></td>
<td>August 16, 2022 [Monday]</td>
<td>Final Grades due for all other students (11:59 p.m.)</td>
</tr>
</tbody>
</table>
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 4698-P02 Summer Term 2022, 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 #                      Date

________________________________________
Signature-Instructor

Huiyi Xu                                      07/11/2021
Instructors name                                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: ________________________________