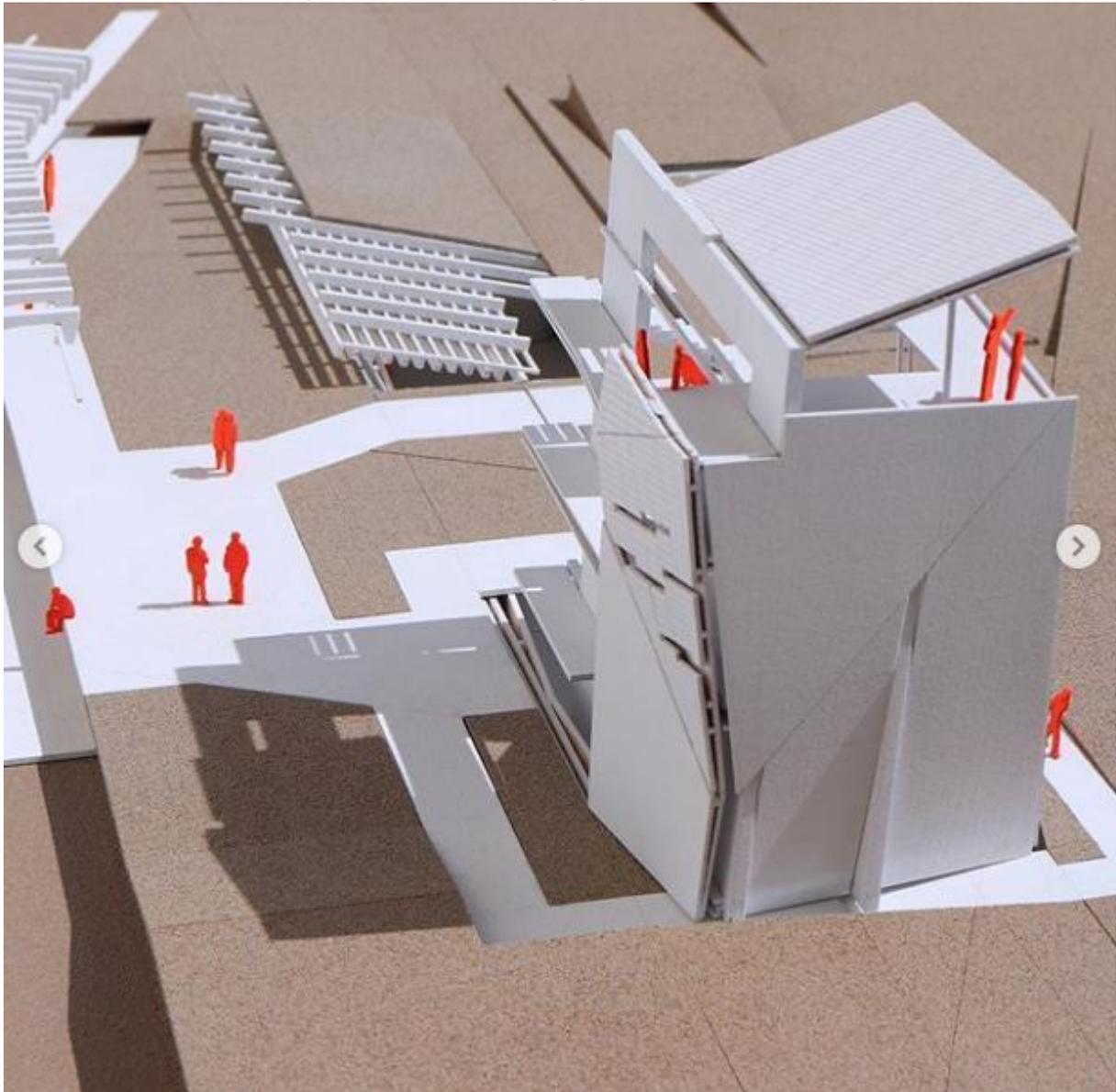




Course Title:	Architecture Design VII				
Course Prefix:	ARCH	Course No.:	4456	Section No.:	P81

*"If the soul is not served, architecture has failed." Thomas Moore*

*"The architect sees that any building, any act of reconstruction, confirms, support, and enables the politics of one group or another. If there's going to be another movement, another direction in architecture, it has to engage people differently. Other than saying, here, look at this, isn't this amazing? It has to interactively involve them other than as spectators...it has to engage them as creators." Lebbus Woods*



Student Project: Greyson Resch | USF School of Architecture + Community Design

*"Places are complex living systems. They provide the context within which a project emerges, and from a regenerative perspective they are the source of the potential that a project can realize. Put another way,*

projects are nested in place. This implies that in order to enrich thinking about a project, you don't start with the project. Instead you shift your emphasis and perspective onto the larger whole within which the project is embedded- its place." - Regenesi Group

**“BI – O – MIM – IC – RY (from the Greek bios, life, and mimesis, imitation)**

1. **Nature as model.** Biomimicry is a new science that studies nature’s models and then imitates or takes inspiration from these designs and processes to solve human problems, eg., solar cell inspired by a leaf.
2. **Nature as measure.** Biomimicry uses an ecological standard to judge the “rightness“ of our innovation. After 3.8 billion yeas of evolution, nature has learned: What works. What is appropriate. What lasts.
3. **Nature as mentor.** Biomimicry is a new way of viewing and valuing nature. It introduces an era based not on what we can extract from the natural world, but on what we can learn from it. ”  
Janine M. Benyus

“If design doesn’t focus on aspects of the natural world that contribute to human health and productivity in the age-old struggle to be fit and survive, it is not biophilic.” Stephen R. Kellert

<b>School of Architecture</b>	Department: Architecture <input checked="" type="checkbox"/> Construction Science <input type="checkbox"/> Art <input type="checkbox"/> Digital Media Art <input type="checkbox"/> Community Development <input type="checkbox"/>
<b>Course Location:</b>	Nathelyne Archie Kennedy Building, Room 134
<b>Class Meeting Days &amp; Times:</b>	Mondays 2:00-4:20pm Wednesdays, Thursdays; 1:00-4:20 PM
<b>Catalog Description:</b>	“(6-0) Credit 6 semester hours. Problem solving and presentation of advanced design principles, concepts and ideas as applied to architectural problems.”
<b>Prerequisites:</b>	ARCH 3266
<b>Co-requisites:</b>	N/A
<b>Mode of Instruction:</b>	<b>x Face-to-face</b>
<b>Instructor:</b>	April Ward, AIA Assoc., LEED GCP, PhD Candidate, Assistant Professor
<b>Office Location:</b>	School of Architecture, Prairie View A&M University, Room 239
<b>Office Telephone:</b>	(832) 372-5497
<b>Fax:</b>	(936) 261-9826
<b>Email Address:</b>	<a href="mailto:jaward@pvamu.edu">jaward@pvamu.edu</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>	Monday, Wednesday, Thursday 10:00-1:00 PM Monday, Wednesday, Thursday 4:30-5:30 PM OTHER HOURS BY APPOINTMENT. Students are advised to make appointments with the professor ahead of time and be specific with the subject matter to be discussed. Students must be prepared for their appointment by bring all applicable materials and information to the meeting.
<b>Virtual Office Hours:</b>	
<b>Required Text:</b>	<ol style="list-style-type: none"> <li>1) <a href="#">The Architects Studio Companion: Rules of Thumb for Preliminary Design</a>, Edward Allen, Joseph Iano, 5th Edition, Wiley, 2011, ISBN: 0470641916 (PDF Version available for reference in the Google Folder)</li> <li>2) <a href="#">Building Codes Illustrated; A Guide to Understanding the International Building Code</a>; Author: Francis D. K. Ching; Publisher: John Wiley &amp; Sons, Inc.(PDF Version available for reference in the Google Folder)</li> </ol>

	<p>3) <b><u>Green Building Illustrated</u></b>; Author: Francis D. K. Ching; Publisher: John Wiley &amp; Sons, Inc.</p> <p>4) <b><u>Manual of Section</u></b> Paul Lewis, Marc Tsurumaki, David Lewis (Can reference Professor Copy)</p> <p>5) <b><u>Design with Nature</u></b> IanMcHarg, ISBN-13: 978-0471114604 (Partial PDF Version available for reference in the Google Folder)</p> <p>6) <b><u>Ecological Urbanism</u></b> Mohsen Mostafavi ISBN-13: 978-3037781890 (Can share with Group)</p> <p>7) <b><u>Architectural Graphic Standards</u></b> (Student or Full Professional Edition) the American Institute of Architects edited by Bruce Bassler 978-0-470-08546-2</p> <p>8) <b><u>International Building Code</u></b> COPYRIGHT © 2006 by INTERNATIONAL CODE COUNCIL, INC.</p> <p><b>Professor will provide supplemental Required Handouts:</b>  “Designing for Impact: A Regional Guide for Low Impact Development” HGAC  “Living Community/ Building Challenge” International Living Future Institute  “Architectural Graphics 101- Line Weight” Life of an Architect  “What is Regenerative Regionalism?” Professor Ward  “A Living Systems Model for Assessing and Promoting the Sustainability of Communities” Steve Larrick  “What is and is not Biophilic Design” Stephen R Kellert  Various Reports and Maps for Independence Heights/ Studewood Heights Houston</p>
<p><b>Required Training:</b></p>	<p>Manual and Digital Fabrication Laboratory certifications “Manual and/or Digital.” Students will engage in the use of various tools and machines (laser cutter, cnc router, plasma cutter and 3d printer) located in the School of Architecture’s “Manual and Digital Fabrication Facility” at PVAMU. They will use these tools and machines to fabricate various parts for scale models with the objective that they will further their understanding of the basic principles involved in designing the building envelopes, parts, and assemblies for their studio design project.</p>
<p><b>Recommended Text/Readings:</b></p>	<p><u>Biomimcry</u> by Janine M. Benyus  <u>Ecological Urbanism</u> edited by Moshen Mostafavi  <u>Cities as Sustainable Ecosystems</u> by Newman and Jennings  <u>Toward an Urban Ecology</u> by Kate Orff  <u>Sustainable Urbanism: Urban Design With Nature</u>; Author: Douglas Farr; Publisher: Wiley; ISBN: 047177751X  <u>Sustainable and Resilient Communities: A Comprehensive Action Plan for Towns, Cities and Regions</u>; Author: Stephen J. Coyle; Publisher: Wiley; ISBN: 0470536470  <u>A New Theory of Urban Design</u>; Author: Christopher Alexander; Publisher: Oxford University Press; ISBN: 019503753  <u>Regenerative Development and Design</u> Bill Reed, Regenesi Group, 2011  <u>Designing from Place: A Regenerative Framework and Methodology</u> Pamela Mang, Bill Reed, Regenesi Group</p>
<p><b>Learning Resources</b></p>	<p><b>PVAMU Library:</b>  Telephone: (936) 261-1500;  web: <a href="http://www.tamu.edu/pvamu/library/">http://www.tamu.edu/pvamu/library/</a>  Use the Reference Desk at the library where the staff is eager to guide your research. They can orient you to hard copies and on-line resources.</p> <p><b>University Bookstore:</b>  Telephone: (936) 261-1990  web: <a href="https://www.bkstr.com/Home/10001-10734-1?demoKey=d">https://www.bkstr.com/Home/10001-10734-1?demoKey=d</a></p>

**The Writing Center**

Telephone: (936) 261-3700

The Writing Center's goal is to provide a friendly, stress-free environment for students from all over campus to meet with a consultant and talk about writing of all types. They provide a responsive audience and advice from experienced writers in sessions generally lasting thirty to forty-five minutes. Sessions of this length offer time to work individually with students on any aspect of the writing process: from brain storming and drafting, to revising and proofreading. They will explore ways to improve a student's overall writing skills. They do NOT proofread or edit for students, but instead teach proofreading and editing techniques. Their goal is to: make a better writer for the long term.

**Student Academic Success Center**

Telephone: (936) 261-1040

Student Academic Success Center identifies academic and social roadblocks that interfere with persistence and timely graduation of PVAMU students. SASC informs campus-wide policies by staying current with retention literature and best practices. Further, SASC develops programs and services that are specifically aimed at continuing the academic success of the first year. We strive to provide PVAMU students with "*Navigation to Graduation*".

**The Tutoring Center**

John B. Coleman Library in Room 209

Telephone: (936) 261-1561

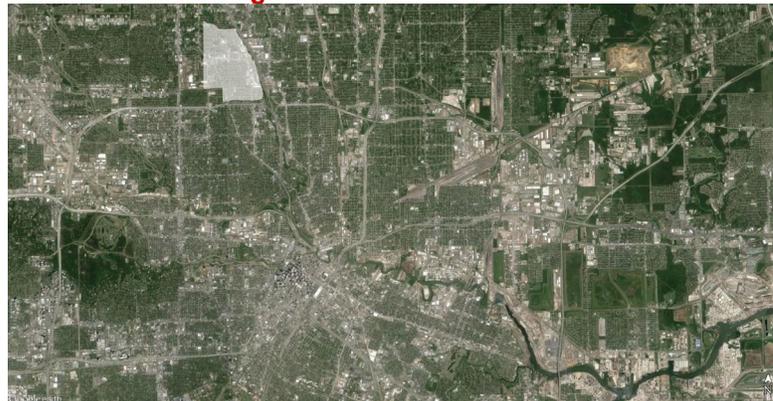
Hours: Monday through Thursday 12 pm to 9 pm and Friday from 8 am to 5 pm.

Email: [AEtutoring@pvamu.edu](mailto:AEtutoring@pvamu.edu)Open to **all** undergraduate students enrolled for credit in targeted PVAMU courses. offers help for:

- Microeconomics, Macroeconomics
- Management Information Systems
- History, Government
- Statistics, Basics – Calculus II
- Psychology, Sociology
- English (Basics – Freshman Comp II), Speech
- Spanish I&II
- Biology (Pre-Med, Pre-Nursing)
- Chemistry (Bio & Nursing Majors)
- Physics
- Materials & Science

**Course Goals and Overview:**

The goal of this course is to understand **architecture as not mere form or image, but as a holistic system with spatial, structural, mechanical and electrical components that should be integrated with the broader systems of the site** – both physical and cultural, both organic and man-made, both processes and fixed conditions. This will be accomplished through the design of **pocket communities within the historic Independence Heights neighborhood**. Each community will consist of small footprint homes and shared community structures and outdoor spaces. Students will be expected to apply principles of regenerative design and to prepare their design for submission to the **US Department of Energy Race to Zero Student Design Competition**.

**NAAB A.8 Cultural Diversity and Social Equity****B.1 Pre-Design****B.2 Site Design****Course Outcomes/Learning Objectives**

At the end of this course, the students will:	
4456.1	Be able to understand <b>basic pre-design and site design issues/strategies</b> . Students will also understand how to <b>integrate the building system into the site and larger community context</b> .
4456.2	Demonstrate the ability to <b>integrate cultural issues and traditions that influence how we live and inhabit spaces</b> into design systems.
4456.3	Define and understand architecture as a <b>holistic system with spatial, structural and mechanical and life-safety elements including fire egress components</b> .
4456.4	Be able to analyze a <b>site as not only a fixed place, but as ongoing, ever-changing living system</b> .
4443.5	Identify architecture as a coherent system that is underpinned with a <b>clear intention</b> .
4443.6	Utilize <b>systems thinking</b> to understand how a project impacts the greater whole of which it is a part, and <b>visually communicate</b> that impact.
4443.7	Demonstrate a basic understanding of <b>sustainability measures including net zero energy design, net zero water design, low impact development, responsible material sourcing, healthy indoor air quality, resilient design, and supporting local food production and natural habitats</b> .

### 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:** Weekly Assignments will be graded each week and marked for changes. No late assignments will be accepted without a deduction in the final grade unless accompanied by the proper documentation- student must submit University approved documentation within 3 days of returning to Studio.
  - **Mid-Term/Final Presentations:** Presentations to Guest Reviewers are required. Mid term grades will be reviewed individually with the Professor based on the attached Grading Matrix.
  - **Class Attendance/Participation:** Daily attendance and participation in class discussions

### Grading Matrix

Instrument	Value (points or percentages)	Total
<b>Professionalism</b> - Teamwork and work space- How you contribute to the overall Studio Culture, Attendance, Participation, Work Process	15%	15
<b>Exercises &amp; Assignments</b> - Including Sustainability Diagram Rendering, Case Studies, Research and Clarity of Process Sketchbook/ Binder	15%	15
<b>Process Book with Sketches + Study Models</b>	10%	10
<b>Mid-term Review</b> - Clarity of Ideas and Presentation, Drawings, Models, and Synthesis of Building Systems and AIA COTE Sustainable Measures	20%	20
<b>Section Model- Craft + Details</b>	15%	15
<b>Final Review</b> - Clarity of Ideas and Presentation, Drawings, Models, and Synthesis of Building Systems and AIA COTE Sustainable Measures	25%	25
<b>Total:</b>		<b>100</b>
<b>Additional Credit/Bonus</b>	5%	5
<b>Total:</b>		<b>105</b>
<b>Grade Determination:</b>	A = 90-100 points B = 80–89 points C = 70–79 points D = 60–69 points; F = 59 points or below	

### Course Procedures

### Taskstream

<p><b>University Attendance Policy:</b></p>	<p>Taskstream is a tool that Prairie View A&amp;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 eCourses.</p>
<p><b>Instructor's Attendance and Participation Policy</b></p>	<p>All design assignments are due on the assigned date. Late work will not be accepted and will result in a grade of 0 for that assignment or project. All students must be present to submit and present their design concepts/drawings/models as make-up opportunities are very limited and will be granted only when caused by a university excused absence. It is also understood that emergencies do occur. If a university excused absence or a valid emergency is reported and approved, a make-up presentation/pin-up must occur during the next scheduled class period to avoid a penalty. As a student in a professional practice course at Prairie View A&amp;M University you are expected to attend each class. Class attendance is recorded on roll sheets that are circulated to record your name and signature. Students are expected to behave and dress professionally in the studio and to be productive towards the completion of studio projects and/or assignments during studio hours. Given this expectation, students are required to adhere to the following rules:</p> <ol style="list-style-type: none"> <li>1. Students arriving 10 minutes past the beginning of class shall be marked late and deducted 20% from the daily classroom grade. Lateness will be indicted with a red-line drawn on the sign-in sheet at 10 past arrival time. Students arriving 30 minutes late will be deducted a minimum of 50% from their daily grade.</li> <li>2. Visitors are not allowed during class time. Talking during class will adversely affect your daily grade, unless students are directly addressing the course work at hand. Eating during studio is not permitted.</li> <li>3. Desk critique sign-in sheets will be posted at the beginning of each class. Students should sign up with the instructor for one on one desk critiques a minimum of two time per week. Students will meet with instructor based on this sign-in sheet. Any students that are not met with on that appointed time, will be met with first at the next period.</li> <li>4. During each class, students are required to have on their desk a roll of 12" trace paper and appropriate drawing instruments on desk for productive desk critiques.</li> <li>5. Weekly assignments are to be turned in on time. Late work will not be accepted without a doctor's excuse.</li> <li>6. Students are expected to have all materials ready for work by the beginning of the second week of the semester including: 1) design notebook; 2) laptop; 3) sketch-up, CAD, REVIT on your laptop 4) mechanical drafting pencil, 5) yellow tracing paper and 6) drawing tape, 7) desk drawing/cutting board, 8) sketch &amp; final model-making material, basswood, museum board, etc.</li> <li>7. Along with the course syllabus, all Assignments for the semester will be placed in the course GOOGLE DRIVE FOLDER. It is the student's responsibility to upload current files to their personal folder and to check for digital comments. This system time stamp will be referred to for grading if the assignment was turned in at the deadline. The student can also use their process book as a way to timestamp assignments if the professor initials the date.</li> <li>8. Students will be given weekly grades based on weekly assignments/reviews, attendance and professionalism. Students must sign weekly grades.</li> <li>9. <i>Attendance and presentation at both Mid-term and Final Reviews are mandatory. Missing either the Mid-term or Final Review without a valid doctor's excuse will result in a zero for that review and may result in the failure of the course.</i></li> </ol>

	<p>At the end of the semester, the instructor may award a growth grade worth an additional 5 points based upon their overall assessment of your participation, growth and development during the semester. Participation and absences are accumulated beginning with the first day of class. 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:</p> <ol style="list-style-type: none"> <li>10. Participation in an activity appearing on the University authorized activity list.</li> <li>11. Death or major illness in a student's immediate family.</li> <li>12. Illness of a dependent family member.</li> <li>13. Participation in legal proceedings that requires a student's presence.</li> <li>14. Religious holy day.</li> <li>15. Confinement because of illness.</li> <li>16. 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. 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 you 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 <b>must</b> also be willing to accept the instructor's decision to not award you involvement points for the class or classes that are missed. To assist you in recovering lost points, there is an opportunity to earn up to 500 additional points towards your final grade</p>
<p><b>Personal Conduct</b></p>	<p>As a student in a professional practice course at Prairie View A&amp;M University you are expected to attend each class. Class attendance is recorded on roll sheets that are circulated to record <u>your</u> name and signature. Since attendance is critical to the learning objectives and the class discussions, a <u>400 point involvement grade is awarded for each class period (200 points for Part 1 + 200 points for Part 2)</u>. You start with <u>100 points</u> for attending each class session under the assumption that you have come to learn. However, to gain an understanding of construction materials and installation methods, you must do more than just show up. Attentiveness is important. For example, showing up for class and then reading the newspaper will cause a deduction from your 100 points. Other things that could cause you to lose points would be sleeping in class, working on other assignments in class, being late, being rude or being disruptive. However, if you are attentive during the lectures and discussions, you will be awarded an additional <u>40 points</u> for each class. The <u>remaining 60 points</u> per class are <u>earned</u> by action on your part such as diligently taking notes, finding or sharing your thoughts on the subject being discussed, or asking a thoughtful and appropriate question. These points, plus potential bonus points, could also be earned by writing a one-page reaction paper about the class material or finding an insightful article from the newspaper or an architectural magazine. <u>If you are late to class you are subject to losing all or parts of the 60 participation points. Typical deductions for being late are: Up to 5 minutes: 0 points; from 5 to 10 minutes: 20 points; from 10-15 minutes: 40 points; and over 15 minutes: 60 points.</u></p> <p>You are <u>not</u> in competition with your fellow classmates for involvement points. Each student can receive 200 points per class session as long as they are legitimately earned. At the end of the semester, the instructor may award a growth grade worth an additional 400 involvement points based upon their overall assessment of your participation, growth and development during the semester. Participation and absences are accumulated beginning with the first day of class. 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:</p> <ol style="list-style-type: none"> <li>1. Participation in an activity appearing on the University authorized activity list.</li> <li>2. Death or major illness in a student's immediate family.</li> </ol>

	<ol style="list-style-type: none"> <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><u>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 you record for <b>ONE WEEK AFTER THE ABSENCE HAS OCCURRED.</b> 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. To assist you in recovering lost points, there is an opportunity to earn up to 500 additional points towards your final grade</u></p>
<p><b>Conduct of the Class and Care of the Facility</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. <u>During regular class periods 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 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.</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. <u>No food or drink</u> 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 "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.</li> <li>6. <u>Laptops must emit no noise.</u> Make sure your laptop is warmed up and your battery charged before class starts. A laptop is allowed only for taking notes or accessing relevant course material during the class. Checking email, playing a game, messaging and other non-class related activities are not allowed at any time.</li> <li>7. <u>Harassment</u> of your fellow students of any kind will not be tolerated.</li> <li>8. <u>No children, friends, family members or guests are allowed in the class without prior approval.</u> Failure to adhere to this rule will result in a "0" for that class period.</li> </ol>
	<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> <li>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 before the class is dismissed without prior approval from the instructor will result in a loss of participation for that class.</li> <li>3. All class members are required to <u>keep the classroom in a clean and orderly manner</u> to facilitate the number of students using it each day. Failure to maintain the classroom as requested by the instructor will result in a deduction in participation points for all class members for that date of instruction.</li> </ol>

	4. <u>Lecture Notes and Handouts</u> will be 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.
<b>Submission of Assignments:</b>	Assignments are due at the start of the class session. No late work will be accepted without proper documentation. Digital files must be uploaded to the google drive folder.
<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 the Microsoft Word, Rich-Text, or plain text format.
<b>Exam Policy:</b>	Exams should be taken as scheduled. No makeup examinations will be allowed except under documented emergencies (See Student Handbook).
<b>References</b>	
<b>University Rules and Procedures</b>	
<b>Disability Statement (See Student Handbook):</b>	
<b>Academic Misconduct (See Student Handbook):</b>	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.
<b>Forms Of Academic Dishonesty:</b>	You are expected to practice academic honesty in every aspect of this course and all other courses. Make sure you are familiar with your Student Handbook, especially the section on academic misconduct. Students who engage in academic misconduct are subject to university disciplinary procedures.
<b>Nonacademic Misconduct (See Student Handbook)</b>	<ol style="list-style-type: none"> <li>1. Cheating: deception in which a student misrepresents that he/she has mastered information on an academic exercise that he/she has not mastered; giving or receiving aid unauthorized by the instructor on assignments or examinations.</li> <li>2. Academic misconduct: tampering with grades or taking part in obtaining or distributing any part of a scheduled test.</li> <li>3. Fabrication: use of invented information or falsified research.</li> <li>4. Plagiarism: unacknowledged quotation and/or paraphrase of someone else's words, ideas, or data as one's own in work submitted for credit. Failure to identify information or essays from the Internet and submitting them as one's own work also constitutes plagiarism.</li> </ol>
<b>Sexual misconduct (See Student Handbook):</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 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.
<b>Student Academic Appeals Process</b>	Sexual harassment of students and employers at Prairie View A&M University is unacceptable and will not be tolerated. Any member of the university community violating this policy will be subject to disciplinary action.
<b>Technical Considerations for Online and Web-Assist Courses</b>	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 Undergraduate Catalog and by doing so within thirty days of receiving the grade or experiencing any other problematic academic event that prompted the complaint.
<b>Minimum Hardware and Software Requirements</b>	
<b>Netiquette (online etiquette):</b>	Pentium with Windows XP or PowerMac with OS 9 -56K modem or network access -Internet provider with SLIP or PPP -8X or greater CD-ROM -64MB RAM -Hard drive with 40MB available space -15" monitor, 800x600, color or 16 bit -Sound card w/speakers -Microphone and recording software -Keybaord & mouse -Netscape Communicator ver. 4.61 or Microsoft Internet Explorer ver. 5.0 /plug-ins <b>-Participants should have a basic proficiency of the following computer skills:</b> ·Sending and receiving email ·A working knowledge of the Internet ·Proficiency in Microsoft Word

	<ul style="list-style-type: none"> <li>-Proficiency in the Acrobat PDF Reader</li> <li>-Basic knowledge of Windows or Mac O.S.</li> </ul>
<b>Technical Support:</b>	Students are expected to participate in all discussions and virtual classroom chats when directed to do so. Students are to be respectful and courteous to others in the discussions. Foul or abusive language will not be tolerated. When referring to information from books, websites or articles, please use APA standards to reference sources.
<b>Communication Expectations and Standards:</b>	Students should call the Prairie View A&M University Helpdesk at 936-261-2525 for technical issues with accessing your online course. The helpdesk is available 24 hours a day/7 days a week. For other technical questions regarding your online course, call the Office of Distance Learning at 936-261-3290 or 936-261-3282
<b>Submission of Assignments-On Line Courses:</b>	All emails or discussion postings will receive a response from the instructor, usually within 48 hours. Urgent emails should be marked as such. Check regularly for responses. You can send email anytime that is convenient to you, but the instructors will check their email messages continuously during the day throughout the work-week (Monday through Friday) during normal office hours. Instructors should respond to email messages during the work-week by the close of business (5:00 pm) on the day following <b>their receipt</b> of them. Emails received on Friday will be responded to by the close of business on the following Monday.

### 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](http://www.naab.org) and access "2014 NAAB Conditions for Accreditation."

Performance Criteria:	Ability <input checked="" type="checkbox"/>	Understanding <input checked="" type="checkbox"/>	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)					I
A.2. Design Thinking Skills (Ability)					I
A.3. Investigative Skills (Ability)					
A.4. Architectural Design Skills (Ability)					
A.5. Ordering Systems (Ability)					
A.6. Use of Precedents (Ability)					
A.7. History and Global Culture (Understanding)					
A.8. Cultural Diversity and Social Equity (Understanding)	<input checked="" type="checkbox"/>		T		I
<b>REALM B: Building Practices, Technical Skills, and Knowledge</b>					
B.1. Pre-Design (Ability)	<input checked="" type="checkbox"/>		T		I
B.2. Site Design (Ability)	<input checked="" type="checkbox"/>		T		I
B.3. Codes and Regulations (Ability)					
B.4. Technical Documentation (Ability)					
B.5. Structural Systems (Ability)					
B.6. Environmental Systems (Ability)					
B.7. Building Envelope Systems and Assemblies (Understanding)					
B.8. Building Materials and Assemblies (Understanding)					
B.9. Building Service Systems (Understanding)					
B.10. Financial Considerations (Understanding)					
<b>REALM C: Integrated Architectural Solutions</b>					
C.1. Research (Understanding)					
C.2. Integrated Evaluations and Decision-Making Design Process (Ability)					
C.3. Integrative Design (Ability)					
<b>REALM D: Professional Practice</b>					
D.1. Stakeholder Roles in Architecture (Understanding)					
D.2. Project Management (Understanding)					
D.3. Business Practices (Understanding)					

D.4. Legal Responsibilities (Understanding)					
D.5. Professional Conduct (Understanding)					

**ACCREDITATION/ASSESSMENT CRITERIA TABLE 2: ACCE CRITERIA**

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](http://www.acce-hq.org) and view the "Accreditation Procedures."

Course Learning Outcomes:	Competencies (T, R, I)		
	T Taught	R Reinforced	I Utilized/ Integrated
1. <b>General Education (Communications, social sciences and humanities):</b> The ability to communicate both orally and in writing, and have an understanding of human behavior.			
2. <b>Math and Science (Mathematics and Physical Science):</b> The ability to apply the principles of mathematics, statistics and computer science. The understanding of the behavior of materials, equipment and methods used in construction combined with knowledge of physics, chemistry, geology and environmental sciences.			
3. <b>Business and Management:</b> The knowledge to effectively manage the principle resources of the industry: people and money. Understanding the fundamentals of the free-enterprise system to include accounting, finance, business regulations, contract law, labor law, and marketing.			
4. <b>Construction Science:</b> An understanding of the contribution of the design process. The ability to communicate with the design professionals and participation in the planning phase of design-build projects. The ability to solve practical communication problems.			
5. <b>Construction:</b> Involvement and understanding of both office and field activities to include effective management of personnel, materials, equipment, costs and time. The understanding of the contractor's role as a member of a multi-disciplinary team, the assessment of project risk and alternative construction methods (Traditional Design-Bid-Build, Construction Manager and Design-Build).			
6. <b>Other:</b>			

**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.

	<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>

**16 WEEK CALENDAR**

*Insert general topics and assignments.* 

<b>Week One: Topic</b> <b>August 26, 28-29, 2019</b>	<b>Architecture in SECTION and the AIA COTE Top 10 Sustainability Measures</b>
Chapter (s):	<b>"AIA COTE Top 10 Sustainability Measures"</b> <a href="https://www.acsa-arch.org/programs-events/competitions/2020-cote-top-ten-for-students">https://www.acsa-arch.org/programs-events/competitions/2020-cote-top-ten-for-students</a> "Manual of Section" Lewis, Tsurumaki, Lewis Read Syllabus and Studio Program

	"Design with Nature" Ian McHarg	
Assignment (s):	<ul style="list-style-type: none"> <li>- 01_A Section Warm Up Drawings</li> <li>Choose one Section from Manual of Section</li> <li>What Type do the authors identify it as?</li> <li>Photocopy it and Trace it using 3 Line Weights in Pen</li> <li>01_B Section of Capsule</li> <li>Read "Design with Nature" p.44-46</li> <li>Draw a Section Collage of: the Capsule Experiment, the Section from 01_A and a sectional plant drawing.</li> <li>Pin up Wednesday, Sept. 04</li> </ul>	
University Events: 	August 26, 2019	FIRST DAY of ALL CLASSES
	August 26, 2019	LATE REGISTRATION/ADD COURSES/CHANGE COURSE SCHEDULE ENDS
<b>Week Two:</b> Topic <b>Sept. 2, 4-5, 2019</b>	<b>Regenerative Design + Regenerative Communities</b>	
Chapter (s):	<p>"AIA COTE Top 10 Sustainability Measures"</p> <p>"A Living Systems Model for Assessing and Promoting the Sustainability of Communities" by Steve Larrick</p> <p>"What is Regenerative Design + Regenerative Regionalism?"</p>	
Assignment (s):	<p>02_A Answer the Questions on the Reading (group of 3)</p> <p>02_B Print the Axis of Sustainability on 24 x 36 poster size paper</p> <ul style="list-style-type: none"> <li>-Plot your individual Place on the Axis of Sustainability</li> <li>- Include each persons Name, shape of their Home City, temperature (time of day) at that location (AUGUST), climate zone according to American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) and a brief explanation as to why you put it where you did on the Axis</li> </ul>	
University Events: 	August 31, 2019	FINAL DAY to ADD CLASSES
	September 02, 2019	LABOR DAY HOLIDAY - University Closed
<b>Week Three:</b> Topic <b>Sept. 9, 11-12, 2019</b>	<b>MASTER PLAN + SITE ANALYSIS   Regenerative Neighborhood Design- YALE STREET CORRIDOR</b>	
Chapter (s):	<p>"AIA COTE Top 10 Sustainability Measures"</p> <p>"Yale Street Corridor" City of Houston</p> <p>"I-45 Expansion" City of Houston</p> <p>"Walking Audit" Rice Institute of Sustainability</p> <p>"Walkability Checklist"</p> <p>Historic Maps and Resources for Independence Heights Neighborhood in Google Drive Folder</p>	
Assignment (s):	<p>03_A-C SITE VISIT and ANALYSIS - Walking Audit in Teams (3), Site/ Climate Research, and Precedent Analysis</p> <ul style="list-style-type: none"> <li>- Yale Street</li> </ul>	
	September 12, 2019	NOTE September 11 FINAL DAY to WITHDRAW without an Academic Record- WITHDRAWAL FROM COURSES "WITH ACADEMIC RECORD" (W) BEGINS
<b>Week Four:</b> Topic <b>Sept. 16,18-19, 2019</b>	<b>MASTER PLAN + SITE ANALYSIS   Regenerative Neighborhood Design- YALE STREET CORRIDOR</b>	
Chapter (s):	<p>"Designing for Impact: A Regional Guide for Low Impact Development"</p> <p>"Living Community/ Building Challenge"</p> <p>"What is and is not biophilic design"</p> <p>"AIA COTE Top 10 Sustainability Measures"</p>	

Assignment (s):	04_A-D Master Plan for Yale Street Corridor and Crosstimbers, Building Programming, Site Plan, and Study Models
<b>Week Five:</b> Topic <b>Sept. 23,25-26, 2019</b>	<b>Biophilic Design and Low Impact Development</b>
Chapter (s):	RESOURCES: "Architectural Graphic Standards - Student / or Professional Edition" "Green Building Illustrated" "Building Codes Illustrated" "International Building Code" "AIA COTE Top 10 Sustainability Measures"
Assignment (s):	05_A-C Building Floor Plans, Sections, and Code Analysis
<b>Week Six:</b> Topic <b>Sept. 30, Oct. 2-3, 2019</b>	<b>Biophilic Design and Low Impact Development</b>
Chapter (s):	RESOURCES: "Architectural Graphic Standards - Student / or Professional Edition" "Green Building Illustrated" "Building Codes Illustrated" "International Building Code" "AIA COTE Top 10 Sustainability Measures"
Assignment (s):	06_A Elevations, Sections, Renderings
<b>Week Seven:</b> Topic <b>Oct. 7, 9-10, 2019</b>	<b>Biophilic Design and Low Impact Development</b>
Chapter (s):	RESOURCES: "Architectural Graphic Standards - Student / or Professional Edition" "Green Building Illustrated" "Building Codes Illustrated" "International Building Code" "AIA COTE Top 10 Sustainability Measures"
Assignment (s):	07_A-B Sustainability / Energy Analysis - Mid-term Presentation Checklist
<b>Week Eight:</b> Topic <b>Oct. 14, 16-17, 2019</b>	<b>Biophilic Design and Low Impact Development</b>
Chapter (s):	<b>UPLOAD ALL WORK TO GOOGLE DRIVE FOR CREDIT BY THURSDAY THE 17TH</b>
Assignment (s):	<b>MID TERM - PRESENTATION WEEK</b>
<b>Mid-Term REVIEW</b> 	<b>October 17, 2019</b>
<b>Week Nine:</b> Topic <b>Oct.21, 23-24, 2019</b>	<b>Biophilic Design and Low Impact Development</b>
Chapter (s):	<b>PERSONAL REVIEW WITH PROFESSOR - SIGN MID - TERM GRADE SHEET</b>
Assignment (s):	<b>UPDATES TO ALL MIDTERM FEEDBACK</b>
<b>University Events:</b> 	<b>October 22, 2019</b>  <b>MID-TERM EXAM GRADES DUE</b>
<b>Week Ten:</b> Topic <b>Oct.28, 30-31, 2019</b>	<b>Biophilic Design and Low Impact Development</b>
Chapter (s):	RESOURCES: "Architectural Graphic Standards - Student / or Professional Edition" "Green Building Illustrated" "Building Codes Illustrated" "International Building Code" "AIA COTE Top 10 Sustainability Measures"

Assignment (s):	08_A FINAL DRAWINGS and MODELS	
University Events: 	<b>NOTE! NOVEMBER 01, 2019 - FINAL DAY TO WITHDRAW FROM COURSES (w) ON ACADEMIC RECORD</b>	
<b>Week Eleven:</b> Topic <b>Nov. 4, 6-7, 2019</b>	<b>Biophilic Design and Low Impact Development</b>	
Chapter (s):	RESOURCES: "Architectural Graphic Standards - Student / or Professional Edition" "Green Building Illustrated" "Building Codes Illustrated" "International Building Code" "AIA COTE Top 10 Sustainability Measures"	
Assignment (s):	08_A FINAL DRAWINGS and MODELS	
<b>Week Twelve:</b> Topic <b>Nov. 11, 13-14, 2019</b>	<b>Biophilic Design and Low Impact Development</b>	
Chapter (s):	RESOURCES: "Architectural Graphic Standards - Student / or Professional Edition" "Green Building Illustrated" "Building Codes Illustrated" "International Building Code" "AIA COTE Top 10 Sustainability Measures"	
Assignment (s):	08_A FINAL DRAWINGS and MODELS	
<b>Week Thirteen:</b> Topic <b>Nov. 18, 20-21, 2019</b>	<b>Biophilic Design and Low Impact Development</b>	
Chapter (s):	RESOURCES: "Architectural Graphic Standards - Student / or Professional Edition" "Green Building Illustrated" "Building Codes Illustrated" "International Building Code" "AIA COTE Top 10 Sustainability Measures"	
Assignment (s):	09_A FINAL Presentation Checklist	
<b>Week Fourteen:</b> Topic <b>Nov. 25, 27-28, 2019</b>	<b>Biophilic Design and Low Impact Development</b>	
Assignment (s):	Thanksgiving Holiday	
University Events:  	<b>November 28-29, 2019</b>	<b>NOTE! THANKSGIVING DAY (UNIVERSITY CLOSED)</b>
<b>Week Fifteen:</b> Topic <b>Dec. 2, 4-5 2019</b>	<b>Biophilic Design and Low Impact Development</b>	
Chapter (s):		
Assignment (s):	<b>UPLOAD ALL WORK TO THE GOOGLE DRIVE - DECEMBER 05, 2019</b>	
University Events: 	DEC. 3, 2019	LAST DAY OF CLASS
	DEC. 4- 10 Final Exam Period	<b>FINAL REVIEW Presentation DECEMBER 5, 2019</b>

Week Sixteen		
	December 12, 2019	FINAL GRADES DUE FOR GRADUATING CANDIDATES
	December 10, 2019	COMMENCEMENT
	December 17, 2019	FINAL GRADES DUE FOR ALL STUDENTS

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.

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**STATEMENT OF AGREEMENT**

I have read the Course Syllabus for **ARCH 4456** for the Fall Semester 2019, 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

\_\_\_\_\_  
Instructors name

\_\_\_\_\_  
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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