PRAIRIE VIEW A&M UNIVERSITY

SYLLABUS

Course Title:	**Net Zero Energy Design I**				
Course Prefix:	**ARCH**	**Course No.:**	**4633**	**Section No.:**	**P01**

"All design projects should engage the environment in a way that dramatically reduces or eliminates the need for fossil fuel." - Edward Mazria, Founder of Architecture 2030

"Since building impacts the environment more than any other human activity, architects have both the responsibility and the opportunity to lead us to a sustainable future." - Norbert Lechner

School of Architecture	Department: Architecture ☑ Construction Science □ Art □ Digital Media Art □ Community Development □
Course Location:	Nathelyne Archie Kennedy Building, Room 231
Class Meeting Days & Times:	Tuesdays, Thursdays; 11:00 AM - 12:20 PM
Catalog Description:	"(3-0) Credit 3 semester hours. Passive and active design strategies for reducing energy use in buildings, plus adding on-site renewable energy to achieve net zero."
Prerequisites:	
Co-requisites:	
Mode of Instruction:	**x** Face-to-face □ On-line □ Hybrid
Instructor:	Rania Labib, Ph.D., LEED AP Assistant Professor
Office Location:	School of Architecture, Prairie View A&M University, Room 243
Office Telephone:	(936) 261-9809
Fax:	(936) 261-9809
Email Address:	ralabib@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:	Wednesday: 8:00 - 11:00 AM Monday-Thursday 3:30 - 5:00 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.
Virtual Office Hours:	
Required Text:	Heating, Cooling, Lighting: Sustainable Design Methods for Architects, Author: Norbert Lechner: Publisher: Wiley; ISBN: 0470048093
Learning Resources	**PVAMU Library**: Telephone: (936) 261-1500; web: http://www.tamu.edu/pvamu/library/ 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.
	University Bookstore: Telephone: (936) 261-1990 web: https://www.bkstr.com/Home/10001-10734-1?demoKey=d
	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 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:

	Students will demonstrate competence in methodologies, tools and practices for optimizing the building envelope and then designing building systems relative to energy use. An emphasis will be placed on the most cost effective strategies for achieving net zero energy use.

Course Outcomes/Learning Objectives

At the end of this course, the students will:

4633.1	Be able to guide clients in setting appropriate energy use targets & metrics and tracking those targets through occupancy.
4633.2	Be able to optimize the building envelope and systems relative to energy targets, life cycle cost and environmental considerations.
4633.3	Demonstrate knowledge of both passive strategies and high performance methodologies, and how each contributes to achieving net zero energy use.
4633.4	Demonstrate understanding of energy fundamentals, heat flow, human comfort principles, passive design strategies, and building science.
4633.5	Be able to read a psychometric chart, conduct a climate analysis including sun angles, size solar shading devices, balance energy losses & gains, and design for a photovoltaic system.
4633.6	Identify the water-resistive barrier, air barrier, vapor barrier, and thermal barrier in the building envelope as well as potential causes of building failures.
4633.7	Prepare for future job opportunities after graduation.

Course Requirements & Evaluation Methods

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

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

Grading Matrix

Instrument	Value (points or percentages)	Total
Textbook	Proof of purchase	**4**
Assignments	12 assignments at 2 points each	**24**
Exams	12 quizzes at 1 point each	**12**
Projects	1 project at 10 points each	**10**
Mid Term Exam		**20**
Class Attendance/Participation		**10**
Final Exam		**20**
Total:		**100**
Additional Credit/Bonus		**5**
Total:		**105**

Grade Determination:	A = 90-100 points B = 80–89 points C = 70–79 points D = 60–69 points; F = 59 points or below
Course Procedures ***Edit to comply with your course.*** ✂	
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 eCourses.
University Attendance Policy:	Prairie View A&M University requires regular class attendance. Excessive absences will result in lowered grades. Excessive absenteeism, whether excused or unexcused, may result in a student's course grade being reduced or assignment of a grade of "F." Absences are accumulated beginning with the first day of class.
Instructor's Attendance and Participation Policy	As a student in a professional practice course at Prairie View A&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. Since attendance is critical to the learning objectives and the class discussions, ten percent (10%) of your grade will be based upon attendance and participation. Attendance alone will account for five percent (5%) of your grade. However, to gain an understanding of net zero building principles and methodologies, you must do more than just show up. Attentiveness is important. For example, showing up for class and then reading the newspaper will result in zero points for that day. 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. Being attentive during the lectures and discussions, will account for the other five percent (5%) of your grade. These points are earned 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. If you are late to class you will lose all of the five percent (5%) participation points for that day. You are not in competition with your fellow classmates for involvement points. At the end of the semester, the instructor may award a growth grade worth an additional five percent (5%) based upon their overall assessment of your participation, growth and development during the semester. August 28, 2018. 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

Instructor's Attendance and Participation Policy	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 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. 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. 8. No children, friends, family members or guests are allowed in the class without prior approval. Failure to adhere to this rule will result in a "0" for that class period.
Conduct of the Class and Care of the Facility	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 before the class is dismissed without prior approval from the instructor will result in a loss of participation for that class. 3. All class members are required to keep the classroom in a clean and orderly manner 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. 4. Lecture Notes and Handouts 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 form another student or source.

Submission of Assignments:	Assignments are due at the start of the class session. No late work will be accepted without proper documentation.
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 should be taken as scheduled. No makeup examinations will be allowed except under documented emergencies (See Student Handbook).

Professional Organizations and Journals

Passive House Institute US (passivehouse.us), Building Science Corporation (buildingscience.com), National Institute of Building Sciences (nibs.org); Whole Building Design Guide (wbdg.org), ASHRAE Advanced Energy Design Guides (ashrae.org), Energy Star (energystar.gov)

References

Articles on building science may be found at www.buildingscience.com.

University Rules and Procedures

Disability Statement (See Student Handbook):	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 Handbook):	You are expected to practice academic honesty in every aspect of this course and all other courses. Make sure you are familiar with your Student Handbook, especially the section on academic misconduct. Students who engage in academic misconduct are subject to university disciplinary procedures.
Forms Of Academic Dishonesty:	1. Cheating: deception in which a student misrepresents that he/she has mastered information on an academic exercise that he/she has not mastered; giving or receiving aid unauthorized by the instructor on assignments or examinations. 2. Academic misconduct: tampering with grades or taking part in obtaining or distributing any part of a scheduled test. 3. Fabrication: use of invented information or falsified research. 4. Plagiarism: unacknowledged quotation and/or paraphrase of someone else's words, ideas, or data as one's own in work submitted for credit. Failure to identify information or essays from the Internet and submitting them as one's own work also constitutes plagiarism.
Nonacademic Misconduct (See Student Handbook)	The university respects the rights of instructors to teach and students to learn. Maintenance of these rights requires campus conditions that do not impede their exercise. Campus behavior that interferes with either: (1) the instructor's ability to conduct the class; (2) the inability of other students to profit from the instructional program, or (3) campus behavior that interferes with the rights of others will not be tolerated. An individual engaging in such disruptive behavior may be subject to disciplinary action. Such incidents will be adjudicated by the Dean of Students under nonacademic procedures.
Sexual misconduct (See Student Handbook):	Sexual harassment of students and employers at Prairie View A&M University is unacceptable and will not be tolerated. Any member of the university community violating this policy will be subject to disciplinary action.

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 Undergraduate Catalog and by doing so within thirty days of receiving the grade or experiencing any other problematic academic event that prompted the complaint.
Technical Considerations for Online and Web-Assist Courses	
Minimum Hardware and Software Requirements	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 -Keyboard & mouse -Netscape Communicator ver. 4.61 or Microsoft Internet Explorer ver. 5.0 /plug-ins -**Participants should have a basic proficiency of the following computer skills:** ·Sending and receiving email ·A working knowledge of the Internet ·Proficiency in Microsoft Word ·Proficiency in the Acrobat PDF Reader -Basic knowledge of Windows or Mac O.S.
Netiquette (online etiquette):	Students are expected to participate in all discussions and virtual classroom chats 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.
Technical Support:	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
Communication Expectations and Standards:	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 **their receipt** 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 and access "2014 NAAB Conditions for Accreditation."

Performance Criteria:	**Ability** ☑	**Understanding** ☑	**Course Learning Outcomes Competencies (T, R, I)**		
			T Taught	**R** Reinforced	**I** Utilized/ Integrated
REALM A: Critical Thinking and Representation					
A.1. Professional Communication Skills (Ability)				**R**	
A.2. Design Thinking Skills (Ability)				**R**	

A.3. Investigative Skills (Ability)					
A.4. Architectural Design Skills (Ability)				R	
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)					
REALM B: Building Practices, Technical Skills, and Knowledge					
B.1. Pre-Design (Ability)					
B.2. Site Design (Ability)					
B.3. Codes and Regulations (Ability)			T		
B.4. Technical Documentation (Ability)					
B.5. Structural Systems (Ability)					
B.6. Environmental Systems (Ability)			T		
B.7. Building Envelope Systems and Assemblies (Understanding)				R	
B.8. Building Materials and Assemblies (Understanding)					
B.9. Building Service Systems (Understanding)					
B.10. Financial Considerations (Understanding)				R	
REALM C: Integrated Architectural Solutions					
C.1. Research (Understanding)					
C.2. Integrated Evaluations and Decision-Making Design Process (Ability)			T		
C.3. Integrative Design (Ability)			T		
REALM D: Professional Practice					
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)					

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	**Competencies (T, R, I)**			**ACCE**
	T Taught	**R** Reinforced	**I** Utilized/ Integrated	**A** Assessed
1. Create **written communications** appropriate to the construction discipline.				
2. Create **oral presentations** appropriate to the construction discipline				
3. Create a construction **project safety plan**				
4. Create construction **project cost estimates**				
5. Create construction **project schedules**				
6. Analyze professional decisions based on **ethical principles**.				
7. Analyze 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.		**R**		
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**.	**T**			
19. Understand the basic principles of **structural behavior**.				
20. Understand the basic principles of **mechanical, electrical and piping** systems.	**T**			

COURSE OUTLINE: EVENT AND LECTURE SCHEDULE

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

	Registration/Assembly Dates		**Dates exam scores will be posted**
	Key Dates		**Holidays**
	Graduation Applications		**Guest lectures**
	Dates for Exams		**Project Team Workshop**

COURSE OUTLINE: EVENT AND LECTURE SCHEDULE

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	Registration/Assembly Dates		**Dates exam scores will be posted**
	Key Dates	1	**Holidays**
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	Dates for Exams		**Project Team Workshop**

16 WEEK CALENDAR

Week One: Topic **August 28-30, 2019**	**Climate Change, Energy Matters**	
Chapter (s):	**Chapter 1 &2**	
Assignment (s):	**Assignment 1**	
University Events:	**August 28-30, 2019**	**LATE REGISTRATION/ADD-DROP COURSE PERIOD**
	August 26-September 3, 2019	**Attendance Reporting Period (NS/SH) Students who do not attend class during this period will have their courses removed and financial aid reduced or cancelled**
	August 29, 2019 [Thursday]	**Preparing Productive Panthers "P3" Event and 4th Annual Job Fair** 10:00 am-2:00 pm; Willie A. Tempton Memorial Center–Grand Ballroom, 2nd Floor), Workshops: • Resume Workshop • Elevator Pitch w/ a twist • Social-Media Burst (Reviewing Social Media) • Professional Headshots • Dress for Success
	August 30, 2019 [Friday]	**Final Day to Register without late fee**
Week Two: Topic **September 2-6, 2019**	**Heat, Comfort, Psychrometrics**	
Chapter (s):	**Chapter 3,4**	
Assignment (s):	**Assignment #2**	
University Events:	**September 2, 2019 [Monday]**	1 **LABOR DAY (University Closed)**
	September 4, 2019 [Wednesday]	**GENERAL STUDENT ASSEMBLY: All students to attend.** ***(TO BE CONIFMRED; Time to be announced.)***
Week Three: Topic **September 9-13 2019**	**Climate, Solar Analysis**	
Chapter (s):	**Chapter 5,6**	
Assignment (s):	**Assignment #3**	
University Events:		

	September 11, 2019 [Wednesday]	**CENSUS DATE (12TH CLASS DAY):** COURSE RESERVATIONS CANCELLED FOR NON-PAYMENT.
		LAST DAY TO WITHDRAW FROM COURSE WITHOUT ACADEMIC RECORD. (Note: A Financial Record will still exist)
		LATE DEADLINE FOR GRADUATING UNDERGRADUATES TO SUBMIT APPLICATION FOR TUITION REBATE
	September 12, 2019 [Thursday]	NOTE! WITHDRAWAL FROM COURSES "WITH ACADEMIC RECORD" (W) BEGINS. END ON NOVEMBER 1, 2019.
Week Four: Topic September 16-20, 2019	**Passive Heating**	
Chapter (s):	**Chapters 7**	
Assignment (s):	**Assignment #4**	
University Events:	September 18, 2019 [Wednesday]	SOA Construction Science Career Fair: 9:00 AM- 3:00 PM held in the Kennedy Architecture Building & Fabrication Center
Week Five: Topic September 23-27, 2019	**Shading and light**	
Chapter (s):	**Chapter 9**	
Assignment (s):	**Assignment #5**	
University Events:	September 25, 2017 [Monday]	NOTE! 20TH CLASS DAY
Week Six: Topic September 30-October 4, 2019	**Passive Cooling**	
Chapter (s):	**Chapter 10**	
Assignment (s):	**Assignment #6**	
University Events:		
Week Seven: Topic October 7-11, 2019	**Site design**	
Chapter (s):	**Chapter 11**	
Assignment (s):	**Assignment #7**	
University Events:		
Week Eight: Topic October 14-18, 2019	**Passive Design Review**	
Chapter (s):		
Assignment (s):		
University Events:		
Mid-Term Exam	October 17-19, 2019	
Week Nine: Topic October 21-25, 2019	**Lighting: Daylighting and electrical lighting**	
Chapter (s):	**Chapters 12,13,14**	
Assignment (s):	**Assignment 8, Net Zero project**	
University Events:	October 22, 2019 [Tuesday]	MID-TERM EXAM GRADES DUE
Week Ten: Topic October 28-November 1, 2019	**Building Envelope: Balancing Heat Gains & Losses**	

Chapter (s):	**Chapter 15**	
Assignment (s):	**Assignment #9, Net Zero Design Project**	
University Events:	**October 31, 2019 [Thursday]**	**Final Date to Apply for Fall 2019 Graduation (ceremony participation)**
	November 1, 2019 [Friday]	**Application for Graduation-Degree Conferral only for Fall 2019 Graduation Begins (no ceremony participation or name listed in the program)** **Final Day to Withdraw from Course(s) with Academic Record ("W")**
Week Eleven: Topic **November 4-8, 2019**	**Mechanical Systems**	
Chapter (s):	**Chapter 16**	
Assignment (s):	**Assignment #10, Net Zero Design Project**	
University Events:		
Week Twelve: Topic **November 11-15, 2019**	**Solar Access, Photovoltaics**	
Chapter (s):	**Chapter 8**	
Assignment (s):	**Assignment #11, Net Zero Design Project**	
University Events:	**November 11, 2019 [Tuesday]**	**NOTE! Priority Registration for continuing students for Spring and Summer semesters**
Week Thirteen: Topic **November 18-22, 2019**	**Photovoltaic Design, Other Renewables**	
Chapter (s):		
Assignment (s):	**Assignment #12, Net Zero Design Project**	
University Events:		
Week Fourteen: Topic **November 25-29, 2019**	**Net Zero Design Project Presentations**	
Chapter (s):		
Assignment (s):		
University Events: 	**November 28-29, 2019 [Thursday-Saturday]**	**NOTE! THANKSGIVING DAY (UNIVERSITY CLOSED)** **Instructors are to begin restoring studios and lecture rooms to original condition prior to giving Exam #3, Final Exam or conducting final project reviews/presentations.**
Week Fifteen Topic **December 2-8, 2019**	**Final**	
Chapter (s):		
Assignment (s):		
University Events:	**December 2-3, 2019 Course Review Days**	Classes must convene and instructors will prepare students for final exams. Last day of class for Fall Semester 2019 is DECEMBER 3rd! Final Day to Submit Application for Tuition Rebate for Fall Graduation 2019 (Undergraduate Candidates)
	December 3, 2019 [Tuesday]	**Final Day to Apply for Degree Conferral only for Fall 2019 Graduation (no ceremony participation or name listed in the program)** Final Day to Withdraw from the University (from all courses) for the Fall 2019 16-week
Week Sixteen		

	**December 4-10, 2019 [Wednesday-Tuesday]**	**FINAL EXAMINATION PERIOD**
	**December 12, 2019 [Thursday]**	**FINAL GRADES DUE FOR GRADUATION CANDIDATES (12:00 p.m.) – Fall 2019 16-week session**
	**December 14, 2019 [Saturday]**	**COMMENCEMENT**
	**December 17, 2019 [Tuesday]**	**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.

STATEMENT OF AGREEMENT

I have read the Course Syllabus for **ARCH 4633** for the Fall Semester 2018, 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

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**: _____