OBJECTIVE
The intent of this course is to learn to integrate sustainable building and planning principles into the form making process of architectural design. This course is intended to be one of a series of design enrichment seminars that explore in depth the principles of qualitative and quantitative design.

CONTENT
The course content will: survey the principles of environmentally sensitive design and planning, review case studies of "green building" applications and explore various concepts for integrating sustainable planning and building principles into the form making process of architectural design. The process includes: an analysis of bioclimatic comfort and building metabolism; design with climate; integration of passive heating and cooling systems; water conservation planning; waste systems; and the basis for specifying sustainable building materials. The focus of the course investigation for the fall semester of 2018 will be to develop the design and the sustainable architecture principles for the National Renewable Energy Laboratory sponsored design competition; “Race to Zero”.

FORMAT
The course will have six components, including: 1) regularly scheduled lectures; 2) a series of reading assignments; 3) class presentations; 4) class discussions; 5) two research papers; and a 6) final exit paper. Note the six components complement each other. The lectures and readings are offered to
provide the basic "information" of the course. The class discussions should explore the implications of the topics considered in the lectures and readings. Finally, the paper assignments are meant to encourage student synthesis of the course material and the final report is to challenge the student to pursue further research and implementation of sustainable strategies in design and planning.

EVALUATION
There will be two papers or written documentation and evaluations of proposed designs or case study examples of Regenerative Architecture set forth in the course lectures and readings. The first paper is a team project (team of two) that should explore the context for sustainable architecture in the design and development of the Race to Zero and Global Eco-house competition. The research paper should be approximately, 2500 words in length and include both: GOOD quality graphic examples of your research topic, and thoroughly documented case studies of your research topic. The paper is due Oct. 16, 2018 and should also include precedent studies. The second paper is a group project for two team members that should explore concepts of sustainable communities. The research paper should be 1800 words in length and include both: GOOD quality graphic examples of your research topic, and thoroughly documented case studies of your research topic. Your paper will be due Nov. 15, 2018. A two-page final summation paper is due for the class on the day that the University of Texas at Austin schedules for your final exam.

The two papers will be worth: 35 points for paper one, 10 points for your team presentation of paper one, 25 points for paper two, and 10 points for your presentation of paper two. Your final summation paper is worth 15 points. Consideration of up to 5 additional points for participation in the class discussions and for attendance will be considered. All papers should be left in the instructor’s faculty mailbox no later than 5 PM on the day that they are due. Papers more than one class period late will be lowered one letter grade for each class that the paper continues to be late. Class attendance in this course is mandatory and absences from the class unrelated to course work will generally have an adverse effect on the student’s final grade in the course. The University of Texas at Austin provides upon request appropriate academic accommodations for qualified students with disabilities. For more information contact the Office of the Dean of Students at 471-6259. If you have a conflict during these hours you may make an appointment with the instructor at 512 632-1972 or via e-mail mgarrison@utexas
READINGS ON RESERVE IN BATTLE HALL READING ROOM


