ACT 401 – SENIOR PROJECT
Spring 2017

Instructor
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Office Hours
- 8:00 AM – 11:00 AM Tuesdays & Thursdays, or, contact me by email for meeting time

Prerequisites
ACT 400 - Senior Project, senior standing and approval of faculty adviser.

Credit Hours
- 3 credit hours.

Course Description

Course Overview

Students will coordinate building systems and manage building information through the development of construction documents for a 2000 seats auditorium in this course. Students will research and develop a building design strategy based on sustainability and emerging technologies. In coordination with capstone students in BCT 400, students will develop a constructability overview and report

Course Objectives
Upon Completion of ACT 401, Students should be able to
- Illustrate a quality design
- Prove design problem solving skills
- Develop designs and provide valid design solutions
- Illustrate Building systems correctly.
- Specify Suitable system components.
- Assemble Drawings into a cohesive document.
- Analyze Industry data in the production of specifications.
- Manage Information gathered for the development of contract documents.
- Evaluate and revise documents based on student and instructor assessments.
- Build Communication skills.
- Develop A multi-disciplinary approach to problem solving.

Course Communication
Outside of the classroom, the mode of one-to-one communication is to be through USM email, USM Blackboard, And student visits to the instructor’s office only during the available office hours. Prior to meeting with the instructor during available office hours, the student must provide written
documentation of the question or concern to be discussed during the office visit. The Documentation must either be emailed to the instructor prior to the office visit or hand-delivered to the instructor at the beginning of the office visit. The Purpose of the documentation is to provide a log of communication between student and instructor throughout the course. The USM Email address issued by the University Is the only address instructors can use to discuss grades and any other class communication with students. Students Are required to check USM Blackboard Daily for assignments and other course information. All handouts, lecture content, syllabus, and grades will be posted here. USM Blackboard Is able to track student views and lets the instructor know if students have checked not checked in.

Required Text
NA

Technology Requirements
• *Hardware requirement:*
  Computer capable of running design software such as Revit, illustrator, photoshop, etc
• *Software requirements:*
  Web browser, (Freeware)
  Microsoft Word (License Required)
  Adobe Reader (Freeware)
  Revit
  Photoshop
  Any design / 3d modelling software.

Class Procedures and Requirements
The Instructor expects students to arrive on time, attend all scheduled classes and participate in course discussions. The Instructor will take roll, and track student attendance. Class Attendance directly relates to your course grade. A Record of student absences will start with the second class meeting. Students Are expected to attend all scheduled class meetings the entire semester for the duration of the scheduled time. 1 Unexcused absence is permitted over the entire semester; however, this does not relieve the student of missed lecture content and assignments, which are the student’s responsibility. 3 Points will be deducted from your final grade for each additional unexcused absence after the first unexcused absence has occurred. Also, being 15 Minutes late to class or by leaving class early with no verified excuse, or using a notebook computer in class for non-classwork related activities, equals 1 tardy. 3 Tardis equals one unexcused absence.

All Absences will be considered unexcused until valid documentation is provided to the instructor from the Office of Student---Oriented Services (OSS). To Obtain an excused absence, students should submit a “Request for Excused Absence Form” Found on the following website: [http://www.usm.edu/student---affairs/office---student---oriented---services](http://www.usm.edu/student---affairs/office---student---oriented---services). Once validated, a letter of support from the OSS Should be delivered to the instructor. The Instructor should receive OSS Excuses as soon as possible. You Must submit the OSS Excuse form within 1 Week of the absence, otherwise the excuse will not be considered by the instructor. If A student enters class late, it is the students’ responsibility to tell the instructor, in their own handwriting, immediately after the class period is over that he/she has been in attendance. They Must include the date, their name and a note stating they came in late. Otherwise, It is not guaranteed that their attendance will be recorded accurately. If Excessive absences occur (for Whatever reason), due date deadlines are not being met, and work quality is below average, the student may be
asked to schedule an appointment with the instructor to discuss dropping the course. University Drop penalties may apply.

**Evaluation Criteria**

**Phase 1: Pre Design 100 pts (25%)**

- Site development (student research in a group)
- Program development (student research in a group)
- Project requirements (Student research in a group)
- Conceptual drawings

**Phase 2: Design Development 100 pts (25%)**

- Design development
- Constructability analysis (Week 8, In collaboration with BCT 400)
- Acoustics and lighting analysis
- Heating and cooling analysis
- Building code and safety

**Phase 3: Final Design Drawings 200 pts (50%)**

- Construction drawing Package
- 3D drawings
- Interior perspectives
- Final binder report and presentation

In each phase, each student will deliver two components; written and creative components. Each phase will be detailed as we progress into the semester. Assignments descriptions, including an evaluation criteria rubric explaining how the assignment will be evaluated, will be given to the student prior to each Assignment. Deadlines will be assigned with each assignment. Assignments That show haste and lack of care in preparation, no matter how complete, are not professional and will not receive high grades. All Written assignments must be typed and printed before class begins. Grammar, spelling, punctuation, and neatness are included in the evaluation of the assignment. Assignments That are not legible and/or organized in the appropriate format will be penalized accordingly.

**Late Assignments will not be accepted**, and should always be turned in “as is”, regardless of the completeness of the assignment. Assignments missed due to unexcused absences will not be accepted. The completeness of the assignment will be reflected in your grade. Incomplete assignments will not receive high grades; in most cases, a “C” Or below. Assignments submitted late due to an excused absence must be verified by the Office of Student---Oriented Services with a validated letter of support to the instructor. Assignments that are not submitted due to an excused absence must be checked by the instructor the first day the student returns to school or will be considered not turned in and will not be accepted. Assignment extensions will only be considered before the assignment deadline and with the validated letter of support from the Office of Student---Oriented Services.
Grading Scale

• 90 to 100 A – Excellent Work: Goes Beyond the requirements of the subject
  Criteria: Advance understanding of the subject, thoughtful analysis of the problem, clear communication of ideas, depth of understanding in connecting theory to practice, provocative, scholarly treatment of the subject, and creative/imaginative connections or examples

• 80 to 89 B – Good Work: Fully achieves the requirements of the subject
  Criteria: Knowledge and depth of understanding of the subject, clear communication of ideas, examines the implications of theory to practice, analysis of the problem, and implementation of solutions.

• 70 to 79 C – Average Work: Substantially completes the requirements of the subject
  Criteria: Knowledge of the subject, adequately communicates ideas but lacks insight, implications drawn are limited in scope and not connected, not attempt to go beyond the minimum requirements of the subject

• 60 to 69 D – Inferior Work: Inadequate attempt in completing the requirements
  Criteria: Limited knowledge of the subject, inadequate communication of ideas, completes less than minimum requirements of the subject

• 0 to 59 F – Failure: Noncompliance with basic requirements of the class
  Criteria: Blatant disregard for requirements.

Academic Honesty

“When cheating is discovered, the faculty member may give the student an F on the work involved or in the course. If further disciplinary action is deemed appropriate, the student should be reported to the Dean of Students. In addition to being a violation of academic honesty, cheating violates the Code of Student Conduct and may be grounds for probation, suspension, and/or expulsion.”

Source: USM Undergraduate Bulletin

Retention of Student Work
The School of Construction Reserves the right to retain any student work completed by students in this class for accreditation material support. The Course instructor and program coordinator will determine which assignments, if any, the program will retain. The Instructor may allow the student to substitute a slide or reproduction of the work, provided the substitution demonstrates adequate documentation of student competency for examination by the accreditation site team. Original Work will be returned to the student, upon written request by the student, after the next site visit and accreditation review requirements are completed. This Does not apply to assignments that the instructor retains for other reasons. In addition, the instructor may require students to submit digital copies (in Native format) for the purpose of verifying authenticity as well as collecting examples for the instructor’s teaching portfolio and examples for future classes. Files Should be submitted as original files: i.e. MS Word, Power Point, Excel, Adobe Illustrator, Photoshop, InDesign, AutoCAD, And Revit.

ADA Syllabus Statement

• If a student has a disability that qualifies under the American with Disabilities Act (ADA) and requires accommodations, he/she should contact the Office for Disability Accommodations (ODA) for information on appropriate policies and procedures. Disabilities covered by ADA may include learning, psychiatric, physical disabilities, or chronic health disorders. Students can contact ODA if they are not certain whether a medical condition/disability qualifies.
Address:
The University of Southern Mississippi
Office for Disability Accommodations
118 College Drive # 8586
Hattiesburg, MS    39406-0001

Voice Telephone:
(601) 266-5024 or (228) 214-3232
Fax: (601) 266-6035

- Individuals with hearing impairments can contact ODA using the Mississippi Relay Service at 1-800-582-2233 (TTY) or email Suzy Hebert at Suzanne.Hebert@usm.edu.

Drop Date, Financial Deadlines, Other Dates of Interest

See the Academic Calendar for exact dates.
   January 24 -- Last day to drop w/ full $ credit
   February 27-28 Mardi Gras
   March 10 -- Interim grades
   March 13-17 spring break
   April 5 -- Last day to drop w/ "W"
   April 14 -- Good Friday
   May 5 -- Last day of regular classes

The instructor reserves the right to make fair and equitable adjustments to this syllabus by way of addendum