ENT 419 SENIOR PROJECT I
MURRAY STATE UNIVERSITY

DEPARTMENT: DEPARTMENT OF INDUSTRIAL AND ENGINEERING TECHNOLOGY

INSTRUCTOR: Kevin T. Perry, PE, AIA, CID, LEED AP
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Office hours by appointment

I. TITLE
Senior Project I, 3 credit hours, Spring 2011
T R 3:30pm-4:45pm, IT 237

II. DESCRIPTION
Course in which the student assumes the responsibility of the design of a technology project utilizing the knowledge gained from previous coursework. Complete documentation of the project is required.

III. PURPOSE
A. To develop competencies in working individually and in teams on realistic projects to better prepare the students for the workplace.

IV. OBJECTIVES
A. Provide the student a problem and allow them to technically solve it in a team environment.
B. Convey the solution through oral, written, and graphic communication.
C. Develop an understanding of solution methodology using their problem solving, interpersonal and communication skills, along with learned technical concepts.
D. Develop an understanding of project management and team building skills as applied toward a technical solution for a statement of need.
E. Develop a comprehensive project management schedule and design package.

V. CONTENT
A. Professional Ethics
B. Architectural Planning
   a. Site Development
   b. Preliminary Design
   c. Final Design
C. Structural Analysis
   a. Foundation Design
   b. Superstructure
D. Specifications and Contracts
E. Construction Engineering
   a. Planning and Scheduling
   b. Estimating
F. Sustainable Design
G. Hydrology
VI. INSTRUCTION
   A. Seminars (studio meetings/participation)  (10%)
   B. Engineering Ethics Presentation  (15%)
   C. Final Report/ Oral and Written  (75%)

VII. FIELD, CLINICAL, AND/OR LABORATORY EXPERIENCES
   A. Not applicable

VIII. RESOURCES
   1. Means Building Cost Data
   2. Sweets Catalogs
   3. Software
      a. Excel®
      b. AutoCad®
      c. Timberline Estimating®
      d. Primivera Scheduling®
      e. Microsoft Project®
      f. Microsoft Powerpoint®
   4. Class handouts.

IX. GRADING PROCEDURES
   90-100%  A
   80-89%  B
   70-79%  C
   60-69%  D
   Below 60%  E

X. ATTENDANCE POLICY
   This course will adhere to the policy published in the MSU Undergraduate Bulletin. Attendance is expected and will greatly affect performance. More than three unexcused absences will result in failure of the course. Cell phone use is prohibited during class.

XI. ACADEMIC HONESTY POLICY
   This course will adhere to the policy published in the MSU Undergraduate Bulletin. Disciplinary action may result in failure of this course.

XII. TEXT AND REFERENCES
   A. No required text.

XIII. PREREQUISITES
   A. Senior Standing

XIV. STATEMENT OF AFFIRMATIVE ACTION AND EQUAL OPPORTUNITY
   Murray State University endorses the intent of all federal and state laws created to prohibit discrimination. Murray State University does not discriminate on the basis of race, color, national origin, gender, sexual orientation, religion, age, veteran status, or disability in employment, admissions, or other provision of services and provides, upon request, reasonable accommodation including auxiliary aids and services necessary to afford individuals with disabilities equal access to participate in all programs and activities.