



UCC Document # _____

College Document # COAS 143_

Review Type: Edit Exp Full

CATALOG YEAR 2012-2013

COLLEGE/SCHOOL/SECTION: _____ College of Arts and Sciences _____

Course: Add: Delete: Change:

(check all that apply)

Number Title SCH Description Prerequisite

Response Required: New course will be part of major minor as a required
or elective course

Response Required: New course will introduce , reinforce , or apply concepts

If new, provide Course Prefix, Number, Title, **Measurable** Student Learning Outcomes, SCH Value, Description, prerequisite, and lecture/lab hours if applicable. If in current online catalog, provide change and attach text with changes in red and provide a brief justification.

Revised System Engineering Courses

SENG ~~3301~~ 4301 *Engineering Project Management and Proposals* Three semester hours. (*)

Principles of project management; planning, scheduling, and control. Engineering proposals; technical reports. Students prepare proposals, including specifications, timelines, schedule, and budget, for projects to be implemented in SENG 4390. This course should be taken the semester preceding SENG 4390. Prerequisite: ENGL 2311 and senior standing.

Justification

SENG 4301 (currently SENG 3301) is part of a two-course sequence. The second course is the Senior Design Project (SENG 4390) which is taken in the student's last semester. Therefore it is appropriate to change the course number from 3000 level to 4000 level to maintain the consistency in the systems engineering curriculum.

Program: Delete: Add: Change: Attach new/changed Program of Study description and 4-year plan. If in current online catalog, provide change and attach text with changes in red.

Minor: Add: Delete: Change: Attach new/changed minor. If in current online catalog, provide change and attach text with changes in red.

College Introductory Pages: Add information: Change information:
Attach new/changed information. If in current online catalog, provide change and attach text with changes in red.

Other: Add information: Change information: Attach new/changed information. If in current online catalog, provide change and attach text with changes in red.

Approvals:

Signature

Date

Chair

Department Curriculum Committee

Chair

Department

Chair

College Curriculum Committee

Dean

04/2011

SENG 4301 - STUDENT LEARNING OUTCOMES

Upon successful completion of this course, the student will be able to:

- Explain the project life cycle and state the general characteristics of a project
- Apply checklists, scoring, and financial methods to screen and select projects
- Construct scheduling network diagrams and determine the critical path of a project
- Develop GANTT charts and apply resource leveling
- Interpret project management diagrams and charts
- Prepare and submit a formal senior project proposal, including a project plan and cost analysis
- Deliver oral presentations with appropriate audio-visual materials