



CATALOG YEAR 2011-2012

(Please use separate form for each add/change)

COLLEGE/SCHOOL/SECTION: \_\_\_\_\_ College of Arts and Sciences \_\_\_\_\_

Current Catalog Page(s) Affected: pp. \_\_\_ On Line \_\_\_\_\_

Course: Add: \_\_\_\_\_ Delete: \_\_\_\_\_ Change: Number \_\_\_\_\_ Title \_\_\_\_\_

(check all that apply)

SCH \_\_\_\_\_ Description X \_\_\_\_\_ Prerequisite \_\_\_\_\_

If new, provide Course Prefix, Number, Title, SCH Value, Description, prerequisite, lecture/lab (hours if applicable) and **student learning outcomes**. If in current catalog, provide change and attach page with changes in red and provide a brief justification.

**Revised System Engineering Courses**

**ENGR 1202 Foundations of Engineering II.** Two semester hours. (SP/SS)

Introduction to engineering ethics and professional responsibilities; development of skills in problem solving, analysis, estimation, design, and teamwork; introduction to systems engineering; computational analysis, computer programming applications. Students work in teams on an engineering design project, including construction, testing, and reporting.

Prerequisite: ENGR 1201 and MATH 2413. Course Fee: \$35.

**Previous Description:**

ENGR 1202 *Foundations of Engineering II.* Two semester hours. (FL/SS)

~~Development of skills in problem solving, design, analysis, estimation and teamwork; utilization of computer tools for documentation and presentation; introduction to logic processing and computer programming; introduction to systems and industrial engineering; introduction to conservation principles in engineering sciences. Prerequisite: ENGR 1201 and MATH 2413. (Formerly ENGR 1212)~~

**Justification**

ENGR 1202 requires modification in the description as it is a pre-engineering course which needs to be adjusted based on TAMU-TAMU Pre-Engineering Agreement program. Also, a course fee of \$35 needs to be added for this course.

**Justification for Adding Course Fee**

This course requires several softwares such as AutoCAD, LabView and MatLAB. The cost of the above mentioned softwares and renewal fees per year are:

1. AutoCAD—\$10,000 for Campus Academic License with a renewal fee of \$6,600 per year.
2. LabView—\$7,999 For Academic Department License with \$500 renewal fees after 5

years.

3. Matlab—\$9,000 for 100 concurrent users licenses for with \$90 per user per year renewal fees.

Also, the students build projects using parts of toy boats and sheets of ABC Styrene Plastic at thickness of 0.040 mm, 0.020, & 0.030 mm for designing the body. These parts need to be replaced and restore for student usages every semester. Therefore, an average cost of \$35 needs to be added as a course fee for ENGR 1202 to purchase of different parts for the project and renewal/update the software licenses.

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

**Minor:** Add: \_\_\_\_\_ Delete: \_\_\_\_\_ Change: \_\_\_\_\_ Attach new/changed minor. If in current catalog, provide change and attach page with changes in red.

**Faculty:** Add: \_\_\_\_\_ Delete: \_\_\_\_\_ Change: \_\_\_\_\_ Attach new/changed faculty entry. If in current catalog, provide change and attach page with changes in red.

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

**Other:** Add information: \_\_\_\_\_ Change information: \_\_\_\_\_ Attach new/changed information. If in current catalog, provide change and attach page with changes in red.

Approvals:	Signature	Date
Chair Department Curriculum Committee	_____	_____
Chair Department	_____	_____
Chair College Curriculum Committee	_____	_____
Dean	_____	_____