



CATALOG YEAR 2008-2009

(Please use a separate form for each add/change/delete)

COLLEGE/SCHOOL/SECTION: Arts and Sciences

Current Catalog Page(s) Affected: pp. 300

Course: Add: _____ Delete: _____
(Check all that apply) Change: Number Title SCH Description 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, copy and paste the text from the [on-line catalog](#) and indicate changes in red and provide a brief justification.

ENGR ~~1212~~1202 *Foundations of Engineering II*. Two semester hours. (SP/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 accounting and conservation principles in engineering sciences. Prerequisite: ENGR 1201. (See attached / following page for further details and justification.)

Program: Add: _____ Change: _____ Attach new/changed Program of Study description and 4-year plan. If in current catalog, copy and paste the text from the [on-line catalog](#) and indicate changes in red.

Minor: Add: _____ Delete: _____ Change: _____ Attach new/changed minor. If in current catalog, copy and paste the text from the [on-line catalog](#) and indicate changes in red.

Faculty: Add: _____ Delete: _____ Change: _____ Attach new/changed faculty entry. If in current catalog, copy and paste the text from the [on-line catalog](#) and indicate changes in red.

College Introductory Pages: Add information: _____ Change information: _____ Attach new/changed information. If in current catalog, copy and paste the text from the [on-line catalog](#) and indicate changes in red.

Other: Add information: _____ Change information: _____ Attach new/changed information. If in current catalog, copy and paste the text from the [on-line catalog](#) and indicate changes in red.

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

~~ENGR 1212~~ *Foundations of Engineering II*. Two semester hours. (SP/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 accounting and conservation principles in engineering sciences. Prerequisite: ENGR 1201~~

ENGR 1202 *Foundations of Engineering II*. Two semester hours. (SP/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 accounting and conservation principles in engineering sciences. Prerequisite: ENGR 1201

Justification

Last fall, ENGR 1211 was renumbered to ENGR 1201 to comply with the Texas Common Course Numbering System. We want to change ENGR 1212 for two reasons:

- In the new articulation agreement with TAMU, College Station, the number associated with Foundations of Engineering II is 1202.
- Since Foundations of Engineering I and Foundations of Engineering II represent a sequence, it is better to have subsequent numbers: 01 and 02 for ease of reference by students and advisors.

A student who has successfully completed this course will be able to:

- (a) describe basic engineering principles and apply them to common engineering problems
- (b) apply mathematical, computing, and numerical skills to engineering problems
- (c) use software packages for analysis and design of engineering problems
- (d) describe the behavior, operating characteristics and design considerations of simple engineering systems in different engineering disciplines
- (e) describe conservation principles for mass, energy, and momentum