Revised System Engineering Courses

ENGR 1201 Foundations of Engineering I. Two semester hours. (FL/SS)
Introduction to the engineering profession and disciplines; development of skills in problem solving including numbers, units, graphs and error calculation; drawing and design using CAD tools; students work in teams on an engineering design project, including construction, testing and reporting. Co- requisite: MATH 2413. Course Fee: $35.

Previous Description:
ENGR 1201 Foundations of Engineering I. Two semester hours. (FL/SS)
Introduction to the engineering profession, ethics and disciplines, development of skills in teamwork, problem solving, logic processing, design and drawing; emphasis on computing applications and CAD tools. Corequisite: MATH 2413. (Formerly ENGR 1211)

Justification

ENGR 1201 requires modification in the description as it is a pre-engineering course which needs to be adjusted based on TAMIU-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 AutoCAD software, which costs $10,000 for Campus Academic License with a renewal fee of $6,600 per year. Also, the students build projects using toy car parts 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 1201 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:**
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**Other:**
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**Approvals:**

**Chair**
Department Curriculum Committee

**Chair**
Department

**Chair**
College Curriculum Committee

**Dean**

**Signature**
Qingwen Ni
Date: 2011.03.22 11:08:40 -05'00'

**Signature**
Rafic Bachnak
Date: 2011.03.22 11:29:34 -05'00'

**Signature**
James A Norris
Date: 2011.03.22 11:40:45 -05'00'

**Signature**
Kevin Lindberg
Date: 2011.03.23 00:04:26 -05'00'