The University Of Toledo

PROGRAM REQUIREMENT REVISION FORM

Please list the proposed program structure. Attach additional pages as necessary.

College: ENG   **Dept/Academic Unit:** TE

Contact Person: Hong Wang   **Phone:** 530-3214   **Email:** hong.wang2@utoledo.edu

Program Name : Computer Science and Engineering Technology

Program Level: ☑ Undergraduate   ☐ Graduate

Changes and Reason for Changes

Computer science is a fast growing and changing curriculum. To meet ABET requirements and better prepare our students for job market and graduate work, we made the following changes to the curriculum:

1. Added two new courses:
CSET2230 (Assembly Language and Computer Architecture) and CSET4350 (Operating systems) to replace EET2230 (Assembly Languages) and EET4250 (Microcomputer Architecture) which serve a different purpose than CSET courses.

2. added a lab to the introduction course.

3. Delayed EECS1590 (Discrete Structures) to the third semester. ET students are normally less prepared with Math courses and it is one of our strategies to let them take math courses in the second year.

4. Changed CSET4100 (Server side programming) to a free elective. Many elective courses that are both important to computer science curriculum and interesting to learn are waiting to be developed (e.g. Network Security, AI, Game programming, Computer Graphics, Data Mining, etc.). If not more important than Server side programming, they are at least equally important to learn.

5. Some course name changes to reflect the true course subject. CSET1200 from GUI programming to OOP and Data Structures; CSET3150 from Advanced programming to Intro to Algorithms,

6. Some other shuffling was done to balance credit hours taken each semester.

New program flow chart is attached.

Attachment(*If more than 5000 bytes are needed for the change description*):
Click here to view the attachment

			Date				
Department Curriculum Authority:	*(signature)*		Date	7	1	2011	(mm/dd/yyyy)
Department Chairperson:	*(signature)*		Date	3	1	2011	(mm/dd/yyyy)
College Curriculum Authority:	Roger King *(signature)*		Date	1	19	2010	(mm/dd/yyyy)
College Dean:	Brian W Randolph *(signature)*		Date	1	25	2011	(mm/dd/yyyy)

After college approval, submit the original signed form to the Faculty Senate (UH 3320) for undergraduate-level courses; for graduate-level courses submit the original signed form to the Graduate School (UH3240).

		Date				
FS Acad. Programs or Graduate Council:		Date				(mm/dd/yyyy)
Office of the Provost :		Date				(mm/dd/yyyy)
Registrar's Office:		Date				(mm/dd/yyyy)

Computer Science & Engineering Technology Curriculum - Full Time
(Effective Fall 2010)

FRESHMAN

15 → CSET - 1100 Intro to CSET [4] ↔ EET - 2420 Instrumentation Laboratory [1]

PHIL – 1020 Introduction to Logic [3]

ENGT - 1000 Introduction to Engineering Technology [1]

ENGL - 1110 English Composition I [3]

Social Science Elective [3]

17 → CSET - 1200 OO and data structure [3]

PHYS - 2010 Technical Physics I [4]

Communications Elective [3]

EET - 2210 Digital Logic Fundamentals [4]

ENGL - 2950 Science & Technical Report Writing [3]

ENGT – 2000 Professional Development [1]

> Take at this time if you intend to co-op

SOPHOMORE

18 → MATH - 2450 Technical Calculus I [4]

PHYS - 2020 Technical Physics II [4]

EECS – 1590 Discrete Structures [3]

CSET - 2230 Assembly Language and Computer Architecture [4]

Social Science Elective [3]

16 → MATH - 2460 Technical Calculus II [4]

ENGT - 3050 Fundamentals of Electricity [4]

EET - 2410 Programmable Controllers [4]

CSET - 2200 PC & Industrial Networks [4]

JUNIOR

15 → MATH - 2890 Numerical Methods & Linear Algebra [3]

ENGT – 2000 Professional Development [1]

ENGT - 3010 Applied Statistics and DOE [4]

EET3350 Digital Logic Design [4]

CSET Elective [3]

> Select from:
> CSET 3100
> CSET 3200
> CSET 3250
> CSET 3400
> CSET 4100
> CSET 4150

15 → Natural Science Elective [4]

> Select from:
> Various science disciplines listed on back of chart

CSET - 3150 Intro to Algorithms [4]

CSET - 3300 Database-Driven Web Sites [4]

CSET Elective [3]

SENIOR

16 → Professional Development Elective [3]

> Select from:
> Various BUAD courses listed on back of chart

CSET- 3600 Software Engineering & Human Interfacing [3]

CSET - 4350 Operating Systems [3]

CSET - 4750 Computer Networks & Data Communications [4]

Multicultural Elective [3]

16 → Professional Development Elective [3]

Humanities / Multicultural Elective [3]

CSET - 4250 Comparative Programming Languages [3]

ENGT - 4050 Senior Technology Capstone [3]

CSET Elective [4]

> Select from:
> CSET 4200
> CSET 4650
> CSET 4850

128 Semester Hours Total

Revised 1-15-2010