August 2011

TRANSFER EVALUATION AND CHECK-OFF FORM

COMPUTER ENGINEERING PROGRAM

SEMESTER 1 (15 cr)	MU CR	TR CR	GR	COMMENT
CHEM 1001[b]	4			Core SN
EECE 1953	1			COEN 1
ENGL 1001[f]	3			Core R - 1
GEEN 1200	3			
MATH 1450[b]	4			Core MR
SEMESTER 3 (19 cr)				
EECE 2010[1]	3			
EECE 2015[1]	1			
EECE 2710[1]	3			
GEEN 2952	1			
MATH 2450	4			
PHIL 1001[b]	3			HN&E-1 (UCCS)
PHYS 1003[b]	4			
SEMESTER 5 (17 cr)				
COEN 2610	3			
COSC 2010	3			
EECE 3010	3			
EECE 3015	2			
MATH 2105	3			
PHIL 2310[b]	3			HN&E-2 (UCCS)
SEMESTER 7 (15 cr)				
COEN 4720	3			
COEN 4920	3			
COEN/TECH ELEC[2]	3			
COEN/TECH ELEC[2]	3			
COEN/TECH ELEC[2]	3			

SEMESTER 2 (17 cr)	MU CR	TR CR	GR	COMMENT
Core elective[c] or THEO 1001[b]	3			
Core Rhetoric 2[f]	3			
EECE 1954	1			
EECE 1610	3			
GEEN 1210	3			
MATH 1451[b]	4			
SEMESTER 4 (18 cr)				
COEN 2020	3			
EECE 2030[1]	3			
EECE 2035	1			
MATH 2451	4			
PHYS 1004[b]	4			
THEO 1001[b] or Core elective[c]	3			
SEMESTER 6 (18 cr)				
COEN 4710	3			
COEN 4820	3			
COEN/TECH ELEC[2]	3			
Core Elective[c]	3			
Core Elective[c]	3			
MATH 4720	3			
SEMESTER 8 (15 cr)				
COEN 4998	3			
COEN/TECH ELEC[2]	3			
COEN/TECH ELEC[2]	3			
Core Elec[c]/Free Elec[d]	3			
Theology Elective[e]	3			Theology-2 (UCCS)
TOTAL CREDITS	134			

UCCS Requirement	Course No.	**COEN Electives**	Course No.	Course No.	Course No.
Diverse Cultures (DC)		Hardware Engineering			
Histories of Cul & Soc (HCS)		Software Engineering			
Indiv & Soc Behav (ISB)		Intelligent Systems			
Lit & Perform Arts (LPA)		Applications			

DEGREE REQUIREMENTS INCLUDE:

- Every required course
- Approved elective program.
- A "C" (2.0) or more average at Marquette
- A "C" (2.0) or more average in Engineering courses
- A minimum of 135 semester hours
- No course may be taken for credit without the required prerequisite(s)
- All substitutions and/or departures from stated curriculum must be approved in writing in advance

Notes:

University Core of Common Studies*:*
(a) Refer to the College of Engineering section of this bulletin for details relating to footnotes b, c, d, e, and f.

~~~ College Notes ~~~~

(b) This course satisfies requirements of the University Core of Common Studies.
(c) The Core Electives must satisfy University Core Requirements in the following four Knowledge Areas: Diverse Cultures, Histories of Cultures and Societies, Individual and Social Behavior, and Literature/Performing Arts. See the section on University Core of Common Studies for lists of acceptable courses. Only one of these courses can be a dual application course.
(d) If the previous Core Electives span all four Knowledge Areas (as listed in the previous footnote), a three-credit free elective may be chosen. This situation will exist if one of the student's core electives is a "dual application" core course, as described in the section on the University Core of Common Studies.
(e) The Theology Elective must be selected from the list of approved Core courses in the Theology Knowledge Area. See the section on University Core of Common Studies.
(f) The Core Rhetoric 1 requirement is to be fulfilled by ENGL 1001; the Core Rhetoric 2 requirement is to be fulfilled by either ENGL 1002 or COMM 1100.

Department notes:
(1) A C or better grade is required in this course to meet the prerequisites for subsequent computer and/or electrical engineering required courses.
(2) At least five of the six electives must be COEN design electives. The remaining elective can be in any technical area.
(3) Of the five COEN design electives, one must be in the Hardware Engineering area, one must be in the Software Engineering area, and one must be in either the Intelligent Systems area or the Applications area. Of the five COEN design electives, three must be in one of the following areas: Hardware Engineering, Software Engineering, Intelligent Systems or Applications. A course listed in two concentration areas may be counted toward only one elective requirement.
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Elective Choices

The breadth requirement: Students must choose at least one course from at least 3 different concentration areas.
The depth requirement: Students must choose at least 3 courses from one concentration area.

Concentration areas:

Hardware Engineering				
		Computer Architecture	COEN 4730	COEN 173
		Topics in Computer Hardware	COEN 4790	COEN 168
		Integrated Microelectronic Circuits	EECE 4410	COEN 164
		Digital Signal Processing	EECE 4510	COEN 157
Software Engineering				
		Object-Oriented Software Engineering	COEN 4610	COEN 181
		Modern Programming Practices	COEN 4620	COEN 190
		Software Testing	COEN 4630	COEN 191
		Topics in Computer Software	COEN 4690	COEN 167
		Computer Security	COEN 4840	COEN 192
Intelligent Systems				
		Introduction to Algorithms	COEN 4650	COEN 182
		Computer Security	COEN 4840	COEN 192
		Introduction to Intelligent Systems	COEN 4850	COEN 130
		Introduction to Neural Nets & Fuzzy Systems	COEN 4860	COEN 131
		Evolutionary Computing	COEN 4870	COEN 133
		Digital Sig Processing	EECE 4510	COEN 157
Applications				
		Modern Programming Practices	COEN 4620	COEN 190
		Software Testing	COEN 4630	COEN 191
		Topics in Computer Software	COEN 4690	COEN 167
		Database Applications	COEN 4810	COEN 150
		Intro to Computer Graphics	COEN 4830	COEN 151
		Computer Security	COEN 4840	COEN 192