AUGUST 2018

TRANSFER EVALUATION AND CHECK-OFF FORM

COMPUTER ENGINEERING PROGRAM

SEMESTER 1 (15 cr)	MU CR	TR CR	GR	COMMENT
EECE 1953	1			
GEEN 1200	3			
ENGL 1001 or ESSV1	3			MCC
MATH 1450	4			
PHYS 1003	4			
SEMESTER 3 (18 cr)				
EECE 2010	3			
EECE 2015	1			
EECE 2710	3			
GEEN 2952	1			
COSC 2010	3			
MATH 2450	4			
PHIL 1001 or THEO 1001	3			MCC
SEMESTER 5 (18 cr)				
EECE 3010	3			
EECE 3015	2			
CHEM 1001	4			
MATH 2105	3			
CORE 1929	3			MCC
DSCV [1, 2]	3			
SEMESTER 7 (15 cr)				
COEN 4720	3			
COEN 4920	3			
COEN/TECH ELEC [3]	3			
COEN/TECH ELEC [3]	3			
DSCV [1, 2]	3			

SEMESTER 2 (18 cr)	MU CR	TR CR	GR	COMMENT
EECE 1610	3			
EECE 1954	1			
GEEN 1210	3			
ENGL 1001 or ESSV1	3			MCC
MATH 1451	4			
PHYS 1004	4			
SEMESTER 4 (17 cr)				
COEN 2020	3			
COEN 2610	3			
EECE 2030	3			
EECE 2035	1			
MATH 2451	4			
PHIL 1001 or THEO 1001	3			MCC
SEMESTER 6 (18 cr)				
COEN 4710	3			
COEN 4820	3			
COEN/TECH ELEC [3]	3			
COEN/TECH ELEC [3]	3			
MATH 4720	3			
DSCV [1, 2]	4			
SEMESTER 8 (15 cr)				
COEN 4998	3			
COEN/TECH ELEC [3]	3			
COEN/TECH ELEC [3]	3			
CORE 4929	3			MCC
DSCV [1, 2]	3			MCC
TOTAL CREDITS	134			

MCC Requirement	Course No.	**COEN Electives**	Course No.	Course No.	Course No.
1. DSCV		Hardware Engineering			
2. DSCV		Software Engineering			
3. DSCV		Intelligent Systems			
4. DSCV		Other Tech elective			
5. WRIT [2]					
6. ESSV2 [2]					

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:

Marquette Common Core (MCC)*:*

(1) The four courses in the Discovery Tier (DSCV) of the MCC must be completed in the same theme and include the following content areas: Humanities (HUM), Social Science (SSC), Natural Science and Mathematics (NSM) and one elective (ELE), which is an additional course from any of the three content areas. A maximum of two courses in the Discovery Tier can apply towards a primary major.
(2) Students must also complete the Writing Intensive (WRIT) and Engaging Social System and Values 2 (ESSV2) requirements of the MCC. These requirements can be fulfilled through designated courses in the Discovery Tier or other degree requirements.

Computer Engineering Major

(3) At least five of the six electives must be from the COEN areas of concentration. The remaining elective can be in any technical area. Of the five electives, one must be in the Hardware Engineering area, one must be in the Software Engineering area, and one must be in the Intelligent Systems area. Of the five electives, three must be in one of the following areas: Hardware Engineering, Software Engineering, or Intelligent Systems. A course listed in two concentration areas may be counted toward only one elective requirement.

Computer Engineering Concentration Area Courses

Breadth: Students must complete a breadth course from each of the three concentration areas.
Depth: Students must complete three total breadth/depth courses from a single concentration area.

Hardware		
Breadth courses (can be used toward either breadth or depth requirement)	COEN 4730	Computer Architecture
	COEN 4790	Developments in Computer Hardware
	EECE 4410	Integrated Microelectronic Circuits
	EECE 4740	Advanced VHDL and FPGA Design
Depth courses	ELEN 3030	Analog Electronics
	ELEN 3025 AND ELEN 3035	Instrumentation Lab and Analog Lab (Taking BOTH counts as a single breadth course)
	EECE 4510	Digital Signal Processing
	EECE 4310	Control Systems
	EECE 4560	Introduction to Communication Systems
	COSC 4290	Real-Time and Embedded Systems
Software		
Breadth courses (can be used toward either breadth or depth requirement)	COEN 4610	Object-Oriented Software Engineering
	COEN 4620	Modern Programming Practices
	COEN 4630	Software Testing
	COEN 4650	Introduction to Algorithms
	COEN 4690	Developments in Computer Software
Depth courses	COEN 4810 or COSC 4800	Database Applications (COEN 4810) Principles of Database Systems (COSC 4800)
	COEN 4830	Introduction to Computer Graphics
	COEN 4840	Computer Security
	COSC 3410	Programming Languages
	COSC 4400	Compiler Construction
	COSC 4860	Component-Based Software Construction
	COSC 4300	Networks and Internets
	COSC 3550	Programming Computer Games
Intelligent Systems		
Breadth courses (can be used toward either breadth or depth requirement)	COEN 4650	Introduction to Algorithms
	COEN 4850 or COSC 4600	Introduction to Intelligent Systems (COEN 4850) Fundamentals of Artificial Intelligence (COSC 4600)
	COEN 4860	Introduction to Neural Nets & Fuzzy Systems
	COEN 4870	Evolutionary Computation
Depth courses	COEN 4840	Computer Security
	COSC 4110	Formal Languages and Computability
	COSC 4610	Data Mining
	COSC 3550	Programming Computer Games