Michigan Technological University
Registrar's Office
1885

Academic Year 2019-20
Bachelor of Science in Computer Engineering
ECPUG

Student Name and ID Number   Estimated Graduation Date

Major Requirements: 104 Credits		
Course Number	**Credits**	**Course Status Code M, R, P, WVD, SUB***
Directed Math/Science Elective (6 credits)		
STEM 2nd discipline Science Course: 3 credits minimum		
BL 1040 **or**		
CH 1150 **and** CH1151 **or**	3/4	
GE 2000		
Choose remaining Directed Math/Science Elective: MA2600, 2910, MA3XXX or higher *(excluding MA3720, 3750, 3810, 3811, 3990, 4810, 4820, 4905, 4945);* BL1010 or higher *(excluding BL1580, 1590, 1710, 1800, 3970, 3990)* ; CH1500 or higher; PH1090, 1091, 1600, 1610, 2300 or higher; EE3180		
	3	
CS 1121 or CS 1131	3/5	
CS 1122 *(not required if CS 1131 is taken)*	3	
CS 1142	3	
CS 2311	3	
CS 2321	3	
CS 3331 or EE 3160	3	
CS 3411	3	
CS 3421	3	
CS 4321	3	
EE 1111	1	
EE 1110	1	
EE 2111	3	
EE 2112	4	
EE 2174	4	
EE 3131	4	
EE 3173	4	
EE 3901	2	
EE 4173	3	
EE 4272	3	
ENG 1101 or ENG 1001 and ENG 1100	3/4	
MA 1160 and MA 1161	4/5	
MA 2160	4	
MA 2321	2	
MA 3521	2	
MA 3710	3	
PH 1100	1	
PH 1200	1	
PH 2100	3	
PH 2200	3	
Credit Subtotal		

Major Requirements: 104 Credits		
Course Number	**Credits**	**Course Status Code M, R, P, WVD, SUB***
Technical Electives: 6 credits (7 credits required if CS1131 is taken)		
	3	
	3	
Senior Design Path (10 credits)		
Senior Design: 4 credits		
(EE 4901 **and** EE 4910) **OR** (MEEM 4901 **and** MEEM 4911)		
	2	
	2	
Additional Technical Electives: 6 credits requried		
Select from ENG 1102 (if taken w/FY program, up to 4 credits maximum from UN 3002, UN 3003 and/or from course list below)		
Enterprise Design Path (10 credits)		
Engineering Design: 6 credits		
ENT3950, ENT3960, ENT4950 **and** ENT4960 **OR**		
ENT3960, ENT4950, ENT4960 **and** ENT module from following:		
ENT2961, ENT2962, ENT3959, ENT3963, ENT3966, ENT3967,		
ENT2971, ENT4951		
	1	
	1	
	2	
	2	
Additional Technical Electives: 4 credits requried		
Select from ENG 1102 (if taken w/FY program, up to 4 credits maximum from UN 3002, UN 3003 and/or from course list below)		
Credit Subtotal		

Technical Electives Course List:
CS3141, 3311, 3331, 3425, 3712
CS4001-4999 *(excluding CS4090, 4099, 4431, 4791, 4792)*
CS500-5899 *(excluding CS5090, 5091)*
EE3090-3999 and EE4001-4799 *(excluding EE3171, 3901)*
EE5000-7999 *(excluding EE5290, 5975, 5990, 5991, 5992, 4994, 6975)*
MA3202, 3203, MEEM4707

***M**-Passed with valid grade, transfer, or Advance Placement credit; **R**egistered in course; **P**lan to take in future, **WVD**-Waived course or credit (does not reduce total degree credits required), **SUB**-Petitioned as substitute course.

General Education Requirements: 24 Credits		
Course Number	**Credits**	**Course Status Code M, R, P, WVD, SUB***
Courses used to complete General Education may not be used to complete other degree requirements.		
Core: 12 Credits		
UN 1015	3	
UN 1025 or upper level modern language	3	
Critical and Creative Thinking	3	
Social Responsibility and Ethical Reasoning	3	
HASS: 12 Credits		
✓ Students must complete 12 credits of HASS course work		
✓ Six of the 12 credits must be at the 3000- or 4000- level*		
✓ At least three credits each in the following: Communication/Comp, Humanities and Fine Arts, and Social & Behavioral Sciences.		
✓ No more than three credits may come from the Restricted List		
Communication/ Composition	minimum 3	
Humanities and Fine Arts	minimum 3	
Social and Behavioral Sciences	minimum 3	
Course from any list above or Restricted List	0-3	

*an upper division language course in place of UN1025 does not meet this requirement.

Free Electives: 0 Credits		
Course Number	**Credits**	**Course Status Code M, R, P, WVD, SUB***
Credit Subtotal		

Co-Curricular Activities: 3 Credits		
Required for graduation, but not included in the GPA calculation or in the overall credits required for the degree.		

Advisor Use Only	
Total Credits Required	128
Total Credits Completed	
Total Credits Needed	

Student Signature _____ Date

Departmental Approval _____ Date