Michigan Technological University
Registrar's Office
1885

Academic Year 2020-21
Bachelor of Science in Electrical Engineering
Concentration: Biomedical Applications
EEEBUG

Student Name and ID Number

Estimated Graduation Date

Major Requirements: 83 - 85 Credits

Course Number	Credits	Course Status Code M, R, P, WVD, SUB*
Core Requirements: 45 Credits*		
CS 1111	3	
EE 2111	3	
EE 2112	4	
EE 2174	4	
EE 3131	4	
EE 3140	3	
EE 3160	3	
EE 3171 or BE4770*	3/4	
EE 3180	3	
EE 3261	3	
EE 3901	2	
EE 4250	3	
ENG 1101 or ENG 1001 and ENG 1100	3/4	
ENG 1102	3	
Math and Science: 28 Credits		
CH 1150	3	
CH 1151	1	
MA 1160 or MA 1161	4/5	
MA 2160	4	
MA 2321	2	
MA 3160	4	
MA 3521	2	
PH 1100	1	
PH 1200	1	
PH 2100	3	
PH 2200	3	
EE Technical Electives: 6 Credits (7 credits if BE4770 was taken)		
Any EE course except CS1000, EE3010, EE3173, EE4000, EE4805, EE4901 and EE4910 and those listed in major requirements. No more than 3 credits of EE2000-EE2999. Department approval required for EEnXXe.		
Credit Subtotal		

*If BE4770 is taken, then student must take 7 credits of EE Technical Electives

Major Requirements: 83 - 85 Credits

Course Number	Credits	Course Status Code M, R, P, WVD, SUB*
Senior Design Path: 4 credits		
(May use MEEM 4901 and MEEM 4911)		
EE 4901	2	
EE 4910	2	
OR		
Enterprise Design Path: 6 credits		
Engineering Design: Select 6 credits from the following:		
ENT3950, ENT3960, ENT4950 **and** ENT4960 **OR**		
ENT3960, ENT4950, ENT4960 **and** ENT module from following:		
ENT2961, ENT2962, ENT3959, ENT3963, ENT3966, ENT3967,		
ENT3971, ENT3982, ENT3983, ENT4951		
	1	
	1	
	2	
	2	
Credit Subtotal		

Concentration Requirements: 19 Credits

Course Number	Credits	Course Status Code
BL 2010	3	
BL 2020	3	
BE 2400	3	
BE 3700	3	
BE 3701	1	
BE 2800 or BE 3300	3	
BEA Elective: choose one course:		
BE2800, BE3300, BE3350, BE3800, BE4250, BE4510, BE4670, BE4700, BE4755		
Credit Subtotal		

*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: 2 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