Michigan Technological University
Registrar's Office
1885

Academic Year 2021-22
Bachelor of Science in Robotics Engineering
EREUG

Student Name and ID Number | Estimated Graduation Date

Major Requirements: 99 Credits

Course Number	Credits	Course Status Code M, R, P, WVD, SUB*
Core Requirements: 54 to 56 Credits		
CS 1111	3	
EE 2174	4	
EE 2180	3	
EE 3010	3	
EE 3160	3	
EE 3171 or EET 4141	4	
EE 3261 or MEEM 3750	3/4	
EE 3280	3	
EE 3373 or EET 3373	3	
EE 3901	2	
EE 4235	3	
ENG 1101 or ENG 1001 and ENG 1100	3/4	
ENG 1102	3	
ENG 2120	4	
MEEM 2700	3	
MEEM 3400	3	
SAT 2711	4	
Math and Science: 28 to 29 Credits		
CH 1150	3	
CH 1151	1	
MA 1121 or MA 1160 or MA 1161	4/5	
MA 2160	4	
MA 2320 or MA 2321	2	
MA 3160	4	
MA 3520 or MA 3521	2	
PH 1100	1	
PH 1200	1	
PH 2100	3	
PH 2200	3	
Math and Science Elective List: 3 Credits		
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	
Credit Subtotal		

Major Requirements, continued

Course Number	Credits	Course Status Code M, R, P, WVD, SUB*
Robotic Engineering (RE) Approved Electives 3 Credits		
Choose one course (cannot double-count with HASS): HU3710, PSY3850, PSY3860, PSY4010, PSY4160		
	3	
Credit Subtotal		

Course Number	Credits	Course Status Code M, R, P, WVD, SUB*
Robotics Engineering Technical Electives: 7 Credits		
Directed RE Technical Elective: 4 Credits - Choose one option		
EE 4219 **and**	3	
EE 4220	1	
EE 4375	4	
MEEM 4705	4	
EE/EET 4373	4	
Remaining RE Technical Elective: 3 Credits		
Take at least one course not already taken above. Minimum 3 cr. EE 4219, EE 4220, EE 4375, EE/EET 4373, EE/MEEM 4800, MEEM4705		
	3	
Credit Subtotal		

Course Number	Credits	Course Status Code M, R, P, WVD, SUB*
Choose Senior Design Path or Enterprise Design Path		
Senior Design Path: 4 Credits		
(EE 4901 **and** EE 4910) **OR** (MEEM 4901 **and** MEEM 4911)		
	2	
	2	
or Enterprise Design Path: 6 Credits		
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		

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.

Co-Curricular Activities: 3 Credits		

Required for graduation, but not included in the GPA calculation or in the overall credits required for the degree.

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

Advisor Use Only	
Total Credits Required	123
Total Credits Completed	
Total Credits Needed	

Student Signature   Date

Departmental Approval   Date