

Michigan Technological University
Bachelor of Science Degree Audit
Major Program: Materials Science and Engineering
 Program Code EMSE, Academic Year 2020-21
 Total credits required for the degree: 128

Required Courses: 55 credits

Course	Credits
ENG 1101 or (ENG 1001 and ENG 1100)	3/4
ENG 1102	3
MEEM 2110	3
MEEM 2150	3
MSE 2100	3
MSE 2110	3
MSE 3100	4
MSE 3110	4
MSE 3120	4
MSE 3131	3
MSE 3132	1
MSE 3140	3
MSE 3150	3
MSE 3190	2
MSE 4100	3
MSE 4110 or CM 4610	3
MSE 4120	3
MSE 4130	2
MSE 4140	2

Required Math and Science: 35 credits

Course	Credits
CH 1150	3
CH 1151	1
CH 1160	3
CH 1161	1
MA 1160	4
MA 2160	4
MA 2320 or 2321	2
MA 3160	4
MA 3520 or 3521	2
PH 1100	1
PH 1200	1
PH 2100	3
PH 2200	3
PH 2400	3

Approved Electives: 9 credits

MSE4240, MSE4292, MSE4310, MSE4320, MSE4330, MSE4410, MSE4430, MSE4510, MSE4520, MSE4530, MSE4740, MSE4777, AF3010, BE4300, CH2410, CH4640, CEE3101, CM3974, CM4620, ENT3966, ENT3959, MA3710, MEEM3600, MEEM4170, MEEM4405, MEEM4610, MEEM4635, MET3500, OSM4650, PH4510

Course	Credits

Free Electives: 4 to 5 credits

Any coursework is allowable, excluding co-curricular and coursework below the 1000-level.

Course	Credits

General Education Core and HASS

Courses used to complete Core and HASS requirements may not be used to complete other degree requirements. Students must complete 12 credits of Core coursework and 12 credits of Humanities, Fine Arts, and Social Science (HASS) coursework. Repeatable courses may not be repeated for general education credit. Core and HASS courses can be found on the [General Education](#) page.

Core: 12 credits

Course	Credits
UN 1015	3
UN 1025 or an upper level modern language	3
Critical and Creative Thinking	3
Social Responsibility and Ethical Reasoning	3

HASS: 12 credits

Six of the 12 HASS credits must be at the 3000 or 4000 level (an upper division language course in place of UN1025 does not meet this requirement). No more than three credits may come from the HASS Restricted course list.

Course	Credits
Communication/ Composition	Minimum 3
Humanities and Fine Arts	Minimum 3
Social and Behavioral Sciences	Minimum 3
Course from any list above or from the Restricted HASS course list	0 to 3

Co-curricular Activities: 3 credits

Required for graduation, but not included in the GPA calculation or in the overall credits required for the degree. Only courses on the co-curricular course list are eligible. Half credit (0.5) courses may be repeated to a maximum of one time for co-curricular credit. Find eligible courses on the [General Education](#) page.

Course	Credits