



Curricular Plan Mechanical Engineering BS



A curricular plan provides a roadmap for completing this academic program and the UB Curriculum in four years. Your actual plan may vary depending on point of entry to the university, course placement and/or waivers based on standardized test scores, earned alternative credit and/or college transfer credit.

All students are encouraged to use this plan in conjunction with other academic planning resources such as your academic advisor, the hUB Academic Advisement Report, My Planner and Path Finder tool.

In addition to following this course roadmap, all other admission and academic requirements of this major as listed in the Undergraduate Catalog must be met in order to successfully complete this degree.

Freshman Year – Fall Semester		
Course	Category	Credit
EAS 199	M/UBS	3
CHE 107	M/SLI 1	4
MTH 141	M/MQR	4
Pathway or ENG 105	P or CL 1	3 or 4
<i>Total Credits:</i> 14 or 15		

Freshman Year – Spring Semester		
Course	Category	Credit
MAE 177	M	1
PHY 107	M/SLI 2	4
MTH 142	M	4
Pathway or ENG 105	P or CL 1	3 or 4
EAS 230	M	3
EAS 202	M	1
<i>Total Credits:</i> 16 or 17		

Sophomore Year – Fall Semester		
Course	Category	Credit
EAS 207	M	3
MAE 204	M	3
MTH 241	M	4
PHY 108	M	4
PHY 158	M	1
MAE 277	M	3
<i>Total Credits:</i> 18		

Sophomore Year – Spring Semester		
Course	Category	Credit
EE 200 or EE 202	M	3
EAS 208	M	3
EAS 209	M	3
MTH 306	M	4
Pathway	P	3
<i>Total Credits:</i> 16		

Junior Year – Fall Semester		
Course	Category	Credit
MAE 377	M	3
MAE 340	M	3
MAE 335	M	3
MAE 376	M	3
MAE 381	M	3
EAS 360	M/CL 2	3
<i>Total Credits:</i>		18

Junior Year – Spring Semester		
Course	Category	Credit
MAE 311	M	3
MAE 364	M	3
MAE 336	M	3
MAE 385	M	1
MAE 334	M	2
Professional/Sci Track	M	3
<i>Total Credits:</i>		15

Senior Year – Fall Semester		
Course	Category	Credit
MAE 338	M	2
MAE 451	M/P	3
MAE Tech Elective	M	3
Pathway and Diversity Learning	P/DL*	3
Pathway	P	3
<i>Total Credits:</i>		14

Senior Year – Spring Semester		
Course	Category	Credit
MAE 494	M/P	3
Applied Math Elective	M	3
MAE Tech Elective	M	3
Professional/Sci Track	M	3
MAE Tech Elective	M	3
UBC 399	CAP	1
<i>Total Credits:</i>		16

Total Credits Required for Degree:	128
---	-----

*Approved Diversity Learning course if not met through approved major, elective, or UBC course.

Category Legend:

M = Course Required for Major (including pre-requisites needed for admission to the major)

E = Elective (course not required for major or UB Curriculum)

The following are all components of the UB Curriculum (UBC) For more information on the UBC and course options visit: <https://catalog.buffalo.edu/policies/ubcurriculum.html>

- UBS = UB Seminar
- CL1/CL 2 = Communication Literacy (2 required)
- CAP = UB Capstone
- DL = Diversity Learning
- GP1/GP2/GP3 = Global Pathway Course (3 required)
- MQR = Math and Quantitative Reasoning
- SLI1/SLI2 = Scientific Literacy and Inquiry (2 required)
- TP1/TP2/TP3 = Thematic Pathway Course (3 required)

Note: Some classes may count toward both a major (M) and UB Curriculum (UBC) requirement. Courses that count towards more than one requirement are indicated by a "/" (slash) in the category column indicating which categories the course will satisfy.