



MECHANICAL ENGINEERING

MSU Bozeman 2017-2018

MSU Billings 2017-2018

These are courses required by the College of Engineering at MSU Bozeman. The general education courses taken at MSU Billings will need to be those required by MSU Bozeman. NOTE: This curriculum depends on whether or not the student enters the pre-engineering curriculum with deficiencies in math and/or science.

MSU Bozeman Course #	Course Title	Credit	MSU Billings Course #	Course Title	Credit
1st Year					
EMEC 100	Intro to Mechanical Engineer	1		No equivalent ¹	
EMEC 103	CAE I: Engr. Graphic Comm.	2		No equivalent	
CHMY 141	College Chemistry I w/ Lab	4	*CHMY 141 CHMY 142	College Chemistry I College Chemistry I Lab	3 1
WRIT 101W	College Writing I	3	*WRIT 101	College Writing I	3
M 171Q	Calculus I	4	*M 171	Calculus I	4
M 172Q	Calculus II	4	*M 172 M 110	Calculus II Mathematical Computing	4 1
COMX 111US or CLS 101 US	Intro to Public Speaking or Knowledge & Community	3	COMX 111	Intro to Public Speaking	3
PHSX 220	Physics I (w/Calculus)	4	*PHSX 220/221	Physics I/Lab	4
PHSX 222	Physics II (w/Calculus)	4	*PHSX 232/233	Physics II & Thermodynamics/Lab	4
Core	University Core Electives	6	General Education	See General Core sheet	6
Total credits		35			32
2nd Year					
EMEC 250	Mechanical Engr. Materials	3		No equivalent	
M 273Q	Multivariable Calculus	4	*M 273	Multivariable Calculus	4
M 274	Intro to Diff Equations	4	*M 274	Differential Equations	4
EELE 250	Circuits, Devices, & Motors	4		No equivalent	
EGEN 201	Engr. Mechanics - Statics	3	EGEN 201	Engr. Mechanics - Statics	3
EGEN 202	Engr. Mechanics - Dynamics	3	EGEN 202	Engr. Mechanics -Dynamics	3
EGEN 205	Mechanics of Materials	3	EGEN 205	Mechanics of Materials	3
EMEC 203	CAE II: ME Computations	2		No equivalent	
EMAT 252	Materials Struct. & Prop Lab	1		No equivalent	
ETME 215	Manufacturing Processes	3		No equivalent	
ETME 216	Manuf. Processes Lab	1		No equivalent	
Core	University Core Electives	3	General Education	See General Core sheet	3
Total credits		34			20

*Certain courses in this program have prerequisites; students should check the course descriptions at each institution for required prerequisites.

Ultimately, it is the student's responsibility to verify program requirements and acceptance of coursework with Montana State University Bozeman.

¹ EMEC 100 is waived for students transferring 30 cr. or more. However, the one credit must be added into later requirements; see department for details.