



**CIVIL 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
<b>1st Year</b>					
CHMY 141	College Chemistry I w/ Lab	4	*CHMY 141 CHMY 142	College Chemistry I College Chemistry I Lab	3 1
CHMY 143	College Chemistry II w/ Lab	4	*CHMY 143 CHMY 144	College Chemistry II College Chemistry II 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 110US or CLS 101US or HONR 201US or US 101US	Intro to Public Speaking or Knowledge & Community or Texts & Critics: Knowledge or First Year Seminar	3-4	COMX 111	Intro to Public Speaking No equivalent No equivalent No equivalent	3
DDSN 131	Intro to Drafting & Design	3		No Equivalent	
PHSX 220	Physics I	4	*PHSX 220/221	Physics I/Lab (Calc-Based)	4
University Core		3	General Ed.	See General Education Core sheet	3
<b>Total credits</b>		32-33			30
<b>2nd Year</b>					
SRVY 230	Intro to Surveying for Engin.	3		No equivalent	
ECIV 202	Applied Analysis	1		No equivalent	
PHSX 222	Physics II	4	*PHSX 232/233	Physics II & Thermodynamics/Lab	4
Take one of the following: BMGT 205 or WRIT 201 or WRIT 221 or HONR 202IH	Prof. Bus. Communications or College Writing II or Intermediate Tech Writing Texts & Critics: Imagination	3 3 3	*WRIT 220 or *WRIT 201	Business & Profess. Writing or College Writing II No equivalent No equivalent	3 3
Take one of the following: BIOB 160 or EARTH 101IN or GPHY 284 or ENSC 245IN or BIOM 103IN	Prin. of Living Systems or Earth System Science or Intro to GIS Science & Cartog or Soils or Unseen Universe: Microbes	4 4 3 3 3	BIOB 160/161 or GEO 101/102	Prin. of Living Systems/Lab or Intro to Physical Geology No equivalent No equivalent No equivalent	4 4
EGEN 201	Engineering Mech-Statics	3	*EGEN 201	Engineering Mechanics - Statics	3
EGEN 202	Engineering Mech-Dynamics	3	*EGEN 202	Engineering Mechanics - Dynamics	3
EGEN 205	Mechanics of Materials	3	*EGEN 205	Mechanics of Materials	3
EGEN 350 or STAT 332	Applied Eng Data Analysis or Stat for Scientists & Engin.	2 3	*STAT 341	Intro to Probability & Statistics	4
M 273Q	Multivariable Calculus	4	*M 273	Multivariable Calculus	4
M 274	Intro to Diff Equations	4	*M 274	Intro to Differential Equations	4
Core	CE Curriculum requires a BPPPA Core from a specific list (either IS or D) a 2 <sup>nd</sup> core is not shown on the flow chart in the first two years but may be taken early at MSU-B	3	General Education	See General Core sheet/Take either an Inquiry Social Science (IS) or Diversity (D) (not both) unless one of the following is taken: PSCI 210IS or PSCI 230D or ECNS 101IS	3
<b>Total credits</b>		36-38			35

\*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.**