



CIVIL ENGINEERING – Option in BIO-RESOURCES

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					
ECIV 202	Applied Analysis	1		No equivalent	
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
DDSN 131	Intro to Drafting & Design	3		No equivalent	
PHSX 220	Physics I	4	*PHSX 220/221	Physics I/Lab (Calc-Based)	3/1
COMX 111US or CLS 101US or HONR 201US or US 101US	Intro to Public Speaking Knowledge & Community Texts & Critics: Knowledge University Seminar	3	COMX 111	Intro to Public Speaking No equivalent No equivalent No equivalent	3
Core	University Core	3	General Ed.	See General Core sheet	3
Total credits		33			37
2nd Year					
SRVY 230	Intro to Surveying for Engr.	3		No equivalent	
EGEN 201	Engineering Mech - Statics	3	*EGEN 201	Engineering Mech - Statics	3
EGEN 202	Engineering Mech - Dynamics	3	*EGEN 202	Engineering Mech - 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
BIOB 160	Prin. of Living Systems	4	BIOB 160/161	Prin. of Living Sys./Lab	4
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 4	*WRIT 220 or *WRIT 201	No equivalent Business & Profess. Writing or College Writing II No equivalent	3 3
M 273Q	Multivariable Calculus	4	*M 273	Multivariable Calculus	4
M 274	Intro to Diff Equations	4	*M 274	Differential Equations	4
BIOB 170 or GPHY 284 or ENSC 245 or BIOM 360 or PHSX 222	Organismal Biology or Intro to GIS Science & Cartog or Soils or General Microbiology or Physics II (The basic science course is not shown in 1 st 2 yrs on flow chart but could be taken early at MSU-B)	4 4 3 5 4	BIOB 170/171 or BIOM 360/361 or PHSX 232/233	Principles of Biological Diversity w/ lab or No equivalent No equivalent General Microbiology w/ lab or Physics II & Thermodynamics/Lab	4 4 3/1
Core	CE Curr. requires a BPPPA Core from a specific list (either IS or D)	3	General Education	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
Total credits		35-38			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 MSU Bozeman.