

100/200 Math and Science - - Prerequisite Information

Montana State University - Fall 2016

BIOLOGY

BIOB 100IN	Organism Function	3 cr.	None
BIOB 105CS	Intro to Biotechnology	3 cr.	None
BIOB 110CS	Intro to Plant Biology	3 cr.	None
BIOB 160	Principles of Living Systems (+lab)	4 cr.	CHMY 121IN or 141
BIOB 170IN	Principles of Biological Diversity (+lab)	4 cr.	None
BIOB 260	Cell & Molecular Biology	4 cr.	CHMY 141 or 151 and STAT 216 or M 171 or 181; Co-req: CHMY 143 or 153
BIOE 103CS	Environmental Science & Society	3 cr.	None
BIOH 185	Integrated Physiology I (+lab)	4 cr.	Co-Req: CHMY 141 or 151 and Math Level 4 or 5
BIOH 201	Anatomy & Physiology I	5 cr.	CHMY 121IN, 141 or 151
BIOH 211	Anatomy & Physiology II	4 cr.	BIOH201, BIOB260 or BIOM360 & CHMY121, 141 or 151
BIOM 103IN	Unseen Universe: Microbes (+lab)	3 cr.	None
BIOM 250	Micro/Health Sci: Infectious Diseases	3 cr.	None
BIOO 262IN	Intro to Entomology (+lab)	3 cr.	BIOL 100IN or BIOB 170IN

CHEMISTRY

CHMY 121IN	Intro to General Chemistry (+lab)	4 cr.	At Math 121Q (ACT 23/SAT 540/MPE 30) or C- or above in M 096 or M 097
CHMY 123	Intro to Organic & Biochem (+lab)	4 cr.	CHMY 121IN, 141, 143 or 151
CHMY 141	College Chemistry I (+lab)	4 cr.	At Math Level 4 (ACT 25/SAT 580/MPE 40) or C- or above in M121Q (other level 3 math do not qualify)
CHMY 143	College Chemistry II (+lab)	4 cr.	Successful completion of CHMY 141 or 151
CHMY 151	Honors College Chemistry I (+lab)	4 cr.	At Math Level 4 + Honors/Chem major
CHMY 211	Elements of Organic Chemistry	5 cr.	Successful completion of CHMY 121IN or 143 or 153
BCH 380	Biochemistry	5 cr.	C- or above in CHMY 211 or 323 or 333 AND C- or above in ANY college level Biology course

EARTH SCI

ERTH 101IN	Earth System Science (+lab)	4 cr.	None
ERTH 102CS	Topics in Earth Science	1 cr.	None
ERTH 201IN	Honors Earth System Science (+lab)	4 cr.	Honors Program
GEO103CS	Environmental Geology (+lab)	4 cr.	None
GEO 105IN	Oceanography	3 cr.	None
GEO 111IN	Dinosaurs (+ lab)	3 cr.	None
GEO 140IN	Planetary Geology	3 cr.	None
GEO 208IN	Earth Materials (+lab)	3 cr.	ERTH101
GEO 211	Earth History & Evolution	3 cr.	ERTH101

PHYSICS

ASTR 110IN	Intro to Astronomy: Mysteries of the Sky	3 cr.	None
PHSX 103IN	Our Physical World	3 cr.	At Math Level 3
PHSX 201IN	Physics by Inquiry	3 cr.	Education majors only
PHSX 205	College Physics I (+lab)	4 cr.	At Math Level 4
PHSX 220	Physics with Calculus I (+lab)	4 cr.	Co-req: M 171Q (Calc I) or M 181Q (Honors Calc 1)
PHSX 240	Honors Gen & Modern Physics I	4 cr.	Co-req: M171Q or M 181Q + Honors Program
PHSX 253	Physics of Photography	2 cr.	At Math Level 3
PHSX 305RN	Art & Science of Holography (+lab)	3 cr.	Junior standing. M 151Q or at Math Level 4

MATH

M 121Q	College Algebra	3 cr.	At Math Level 3 (ACT 23/SAT 540/MPE 30) or successful completion of M097
M132	Num & Operations K-8 Teachers	3	At Math Level 3 (ACT 23/SAT 540/MPE 30) or successful completion of M 121Q
M 151Q	Pre-Calculus	4 cr.	At Math Level 4 or C- or above in M 121Q
M 161Q	Survey of Calculus	4 cr.	At Math Level 4 or C- or above in M 121Q
M 165Q	Calculus for Technology I	3 cr.	At Math Level 4 or C- or above in M 121Q
M 166Q	Calculus for Technology II	3 cr.	C- or above in M 165Q
M 171Q	Calculus I	4 cr.	At Math Level 5 or C- or above in M 151Q
M 172Q	Calculus II	4 cr.	M 171Q or M 181Q
M 181Q	Honors Calculus I	4 cr.	At Math Level 5 or A in M 151Q & Honors Program
M 182Q	Honors Calculus II	4 cr.	B/above in M 181Q or A in M 171Q & Honors Program
M 221	Introduction to Linear Algebra	3 cr.	M 166Q, M 172Q or M 182Q
M 273Q	Multivariable Calculus	4 cr.	M 172Q or M 182Q
M 274	Introduction to Differential Equations	4 cr.	M 172Q or M 182Q
STAT 216Q	Introduction to Statistics	3 cr.	At Math Level 3.5 (ACT23/SAT540/MPE 35) or successful completion of any 100 level M course
STAT 217Q	Intermediate Statistical Concepts	3 cr.	C- or above in STAT 216