

Jumpstart Pathway

Electrical Engineering Transfer to Montana State University

Associate of Science

Academic & Career Pathway: Science, Technology, Engineering and Math

Student:

Advisor:

Course/Semester (Prefix, Number and Title)	Credits	Fall/Spring Only	Milestone Course	Notes	Completed
Semester 1					
M 171 - Calculus I	4		*	MSU required course Students not prepared for M 171 their first semester should consider taking M 151 the summer prior.	
CHMY 141 – College Chemistry I	4	Fall	*	MSU required course	
WRIT 101 – College Writing I	3			Second writing course will be taken after transfer at MSU.	
PHL 110 – Introduction to Ethics	3			H&FA course PHL 110 highly encouraged and meets core requirements at MSU. Any HC H&FA course will meet the HC requirement. PHL 110 offered every fall, spring, and summer semester.	
COMX 111 – Introduction to Public Speaking	3		*	MSU required course. Course offered every fall, spring, and summer semester.	
Total	17				
Semester 2					
M 172 – Calculus II	4	Spring	*	MSU required course	
PHSX 220 – Physics I (w/ Calculus)	4	Spring	*	MSU required course	
ARTZ 105 Visual Language Drawing, or LIT 110 Intro to Literature	3			H&FA course Recommended courses also meet MSU core requirements. Any H&FA course will meet the HC requirement.	
CHMY 143 – College Chemistry II	4	Spring		Professional Elective course option for MSU, required by degree.	
Total	15				
Semester 3					
M 273 – Multivariable Calculus	4	Fall	*	MSU required course	
PHSX 222 – Physics II (w/ Calculus)	4	Fall	*	MSU required course	
NASX 105 – Introduction to Native American Studies	3			D & CHAI Course offered every fall, spring, and summer semester.	

PSYX 100 Intro to Psychology, SOCI 101 Intro to Sociology, or PSCI 210 Intro to American Government	3			S&PS/H course Recommended courses meet MSU and HC core requirements. Any HC S&PS/H course will meet HC requirement. All three courses offered every fall, spring, and summer semester.	
BIOH 201 – Anatomy and Physiology I or BIOB 160 Principles of Living Systems	4			Professional Elective course options for MSU, required by degree. Choose one.	
Total	18				
Semester 4					
M 274 – Differential Equations	4	Spring			
PSYX 100 Intro to Psychology, SOCI 101 Intro to Sociology, or PSCI 210 Intro to American Government	3			S&PS/H course Recommended courses meet MSU and HC core requirements. Any HC S&PS/H course will meet HC requirement. All three courses offered every fall, spring, and summer semester.	
PHSX 224 – Physics III	4			Course may not be offered until demand grows. If course is not offered at HC and student is working towards an AS, course can be taken at MSU and back transferred, or student can take another course to meet credit requirements for AS degree. Check MSU course list for best options if taking another course. If student took M151 to prepare for M171 in the first semester, another course will not be needed for the AS degree.	
Total	11				

****Students must earn a C- or better in order to successfully complete a course.***

MSU Electrical Engineering degree requirements <http://catalog.montana.edu/undergraduate/engineering/electrical-computer-engineering/electrical-engineering/bs-electrical-engineering/>

MSU General Education core requirements <http://catalog.montana.edu/core-general-curricular-requirements/>

61 credits to degree

Students that complete the Helena College General Education Core will earn a Certificate of General Studies.

Certificate of General Studies		
Category	Credits	Complete
Natural Science with Lab		
Natural Science		
Mathematics		
Written Communication		
Oral Communication		
Social & Psychological Sciences/History		
Social & Psychological Sciences/History		
Humanities/Fine Arts		
Humanities/Fine Arts		
Cultural Diversity		
Total Credits (30-32)		