

Academic Pathways Map
Electrical Engineering Transfer to MSU
A.S. Jumpstart
Engineering and Math

Start Here

SEMESTER 1		CREDITS	MILESTONE	✓
M171	CALCULUS I	4	*	
CHMY141	COLLEGE CHEMISTRY I	4	*	
WRIT101	COLLEGE WRITING I	3		
PHL110	PROBLEMS OF GOOD AND EVIL	3		
COMX111	INTRODUCTION TO PUBLIC SPEAKING	3	*	

TOTAL CREDITS 17

SEMESTER 2		CREDITS	MILESTONE	✓
M172	CALCULUS II	4	*	
PHSX220	PHYSICS I (W/ CALCULUS)	4	*	
Choose 1 of 2	ARTZ105, LIT110	3		
CHMY143	COLLEGE CHEMISTRY II	4		

TOTAL CREDITS 15

SEMESTER 3		CREDITS	MILESTONE	✓
PHSX222	PHYSICS II (W/ CALCULUS)	4	*	
NASX105	INTRODUCTION TO NATIVE AMERICAN STUDIES	3		
Choose 1 of 3	PSCI210, PSYX100, SOCI101	3		
Choose 1 of 2	BIOB160, BIOH201	4		

TOTAL CREDITS 14

SEMESTER 4		CREDITS	MILESTONE	✓
Choose 1 of 3	PSCI210, PSYX100, SOCI101	3		
PHSX224	PHYSICS III	4		
SPNS101	ELEMENTARY SPANISH	4		
STAT216	INTRODUCTION TO STATISTICS	3		

TOTAL CREDITS 14

You are finished!

Pathway Advising Notes: This is a Jumpstart Pathway. Courses taken at Helena College will transfer to Montana State University and will satisfy most of the coursework required in the first year of the Electrical Engineering degree.

- There are some courses that are offered on the MSU campus only which can be taken after transfer.
- M273 Multivariable Calculus and M274 Differential can be taken at MSU.
- A grade of C- or better is required in all MSU Core courses.



Course Advising Notes: M171: MSU required course. Students not prepared for M 171 their first semester should consider taking M 151 the summer prior.

CHMY141: MSU required course.

WRIT101: Second writing course will be taken after transfer to MSU.

PHL110: 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.

COMX111: MSU required course. Course offered every fall, spring, and summer.

M172: MSU required course.

PHSX220: MSU required course.

ARTZ105 or LIT110: H&FA course. Recommended courses also meet MSU core requirements. Any H&FA course will meet the HC requirement.

CHMY143: Professional Elective course option for MSU, required by degree.

PHSX222: MSU required course.

NASX105: D&CHAI. Course offered every fall, spring, and summer semester.

1 of PSCI210, PSYX100, SOCI101: 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.

BIOB160 or BIOH201: Professional Elective course options for MSU, required by degree. Choose one.

1 of PSCI210, PSYX100, SOCI101: 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.

PHSX224: 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.