

**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		
COLS101	First Year Seminar	3		
COMX111	Introduction to Public Speaking	3	*	

**TOTAL CREDITS 17**

SEMESTER 2		CREDITS	MILESTONE	✓
M172	Calculus II	4	*	
Choose 1 of 2	ARTZ105, LIT110	3		
CHMY143	College Chemistry II	4		
PHL110	Problems of Good and Evil	3		

**TOTAL CREDITS 14**

SEMESTER 3		CREDITS	MILESTONE	✓
CSCI100	Introduction to Programming	3		
Choose 1 of 3	PSCI210, PSYX100, SOCI101	3		
PHSX220	Take PHYS 205 at Carroll	4		
Choose 1 of 2	BIOB160, BIOH201	4		

**TOTAL CREDITS 14**

SEMESTER 4		CREDITS	MILESTONE	✓
Choose 1 of 3	PSCI210, PSYX100, SOCI101	3		
SPNS101	Elementary Spanish	4		
STAT216	Introduction to Statistics	3		
NASX105	Introduction to Native American Studies	3		
PHSX222	Take PHYS 206 at Carroll	4		

**TOTAL CREDITS 17**

**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.

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

M172: 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.

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.

CSCI100: This is a requirement for the MSU degree.

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.

PHSX220: Take PHYS 205 at Carroll

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.

NASX105: CHAI and Diversity.

PHSX222: Take PHYS 206 at Carroll