

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

**Start Here**

<b>SEMESTER 1</b>		<b>CREDITS</b>	<b>MILESTONE</b>	<b>✓</b>
M171	CALCULUS I	4	*	
CHMY141	COLLEGE CHEMISTRY I	4	*	
COLS101	FIRST YEAR SEMINAR	3		

TOTAL CREDITS 11

<b>SEMESTER 2</b>		<b>CREDITS</b>	<b>MILESTONE</b>	<b>✓</b>
M172	CALCULUS II	4	*	
CHMY143	COLLEGE CHEMISTRY II	4		
WRIT101	COLLEGE WRITING I	3	*	

TOTAL CREDITS 11

<b>SEMESTER 3</b>		<b>CREDITS</b>	<b>MILESTONE</b>	<b>✓</b>
PHL110	PROBLEMS OF GOOD AND EVIL	3		
Choose 1 of 2	BIOB160, BIOH201	4		
Choose 1 of 3	PSCI210, PSYX100, SOCI101	3		

TOTAL CREDITS 10

<b>SEMESTER 4</b>		<b>CREDITS</b>	<b>MILESTONE</b>	<b>✓</b>
PHSX220	PHYSICS I (W/ CALCULUS)	4	*	
Choose 1 of 2	ARTZ105, LIT110	3		
COMX111	INTRODUCTION TO PUBLIC SPEAKING	3	*	

TOTAL CREDITS 10

<b>SEMESTER 5</b>		<b>CREDITS</b>	<b>MILESTONE</b>	<b>✓</b>
PHSX222	PHYSICS II (W/ CALCULUS)	4	*	
CSCI100	INTRODUCTION TO PROGRAMMING	3		
Choose 1 of 3	PSCI210, PSYX100, SOCI101	3		

TOTAL CREDITS 10

<b>SEMESTER 6</b>		<b>CREDITS</b>	<b>MILESTONE</b>	<b>✓</b>
STAT216	INTRODUCTION TO STATISTICS	3		
SPNS101	ELEMENTARY SPANISH	4		
NASX105	INTRODUCTION TO NATIVE AMERICAN STUDIES	3		

TOTAL CREDITS 10

**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.
- Some courses may be offered in the Summer.

**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

M172: MSU required course

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

WRIT101: Second writing course will be taken after transfer at 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

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.

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

PHSX222: MSU required course

CSCI100: Required by MSU.

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.