

**Academic Pathways Map**  
**Electrical Engineering Transfer to MT Tech 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>
COMX111	Introduction to Public Speaking	3		
M172	Calculus II	4	*	
CHMY143	College Chemistry II	4		

TOTAL CREDITS 11

<b>SEMESTER 3</b>		<b>CREDITS</b>	<b>MILESTONE</b>	<b>✓</b>
SPNS101	Elementary Spanish	4		
WRIT121	Introduction to Technical Writing	3		
PHSX220	Physics I (w/ Calculus)	4		

TOTAL CREDITS 11

<b>SEMESTER 4</b>		<b>CREDITS</b>	<b>MILESTONE</b>	<b>✓</b>
PHSX222	Physics II (w/ Calculus)	4		
NASX105	Introduction to Native American Studies	3		

TOTAL CREDITS 7

<b>SEMESTER 5</b>		<b>CREDITS</b>	<b>MILESTONE</b>	<b>✓</b>
PSYX100	Introduction to Psychology	3		
Choose 1 of 2	ECNS201, ECNS202	3	*	

TOTAL CREDITS 6

<b>SEMESTER 6</b>		<b>CREDITS</b>	<b>MILESTONE</b>	<b>✓</b>
Choose 2 of 4	LIT110, LIT211, PHL110, SPNS102	6-7		
CSCI100	Introduction to Programming	3		

TOTAL CREDITS 9 - 10

SEMESTER 7		CREDITS	MILESTONE	✓
SOCI101	Introduction to Sociology	3		
STAT216	Introduction to Statistics	3		
M115	Probability and Linear Mathematics	3		

TOTAL CREDITS 9

**You are finished!**

**Pathway Advising Notes:** This is a Jumpstart Pathway. Courses taken at Helena College will transfer to Montana Technological 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 MT Tech campus only which can be taken after transfer.
- M273 Multivariable Calculus and M274 Differential can be taken at MT Tech.
- Some courses may be offered in the Summer.

**Course Advising Notes:** M171: Mt Tech required course

Students not prepared for M 171 their first semester should consider taking M 151 the summer prior

CHMY141: Mt Tech required course

COMX111: Course meets core requirements at both Mt Tech and HC. Course is offered every fall, spring, and summer semester

M172: Mt Tech required course

SPNS101: H&FA course

Recommended course meet core requirements at both Mt Tech and HC and 4-credit course is needed to meet credit requirement for AS degree. If a 3-credit course is taken, student may not have enough credits earned for degree.

WRIT121: WRIT 121 meets core writing requirements for both HC and Mt Tech.

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

PSYX100: S&PS/H course. Recommended course meets core electives at both Mt Tech and HC.

Course offered every fall, spring, and summer semester.

ECNS201 or ECNS202: Mt Tech required course S&PS/H course. Either course will meet Mt. Tech

2 of LIT110, LIT211, PHL110, SPNS102: H&FA course

CSCI100: Programming courses required at Mt Tech. This course will help prepare students for future courses

SOCI101: Course may not be needed if student took M151 prior to taking M171 in semester 1. If M151 was taken, students will have earned enough credits for AS degree without this course.