

**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	Take PHYS 205 at Carroll	4		

**TOTAL CREDITS 11**

<b>SEMESTER 4</b>		<b>CREDITS</b>	<b>MILESTONE</b>	<b>✓</b>
PHSX222	Take PHYS 206 at Carroll	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**

<b>SEMESTER 7</b>		<b>CREDITS</b>	<b>MILESTONE</b>	<b>✓</b>
SOCI101	Introduction to Sociology	3		
STAT216	Introduction to Statistics	3		

M115	Probability and Linear Mathematics	3		
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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.

PHSX220: Take PHYS 205 at Carroll

PHSX222: Take PHYS 206 at Carroll

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

Recommended courses meet core

requirements at both Mt Tech and

HC. Any H&FA course offered at HC

will meet HC core requirements.

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.