

**Academic Pathways Map**  
**Electrical Engineering Transfer to MT Tech**  
**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	*	
WRIT121	Introduction to Technical Writing	3		
COMX111	Introduction to Public Speaking	3		
COLS101	First Year Seminar	3		

**TOTAL CREDITS 17**

<b>SEMESTER 2</b>		<b>CREDITS</b>	<b>MILESTONE</b>	<b>✓</b>
M172	Calculus II	4	*	
SPNS101	Elementary Spanish	4		
CHMY143	College Chemistry II	4		
SOCI101	Introduction to Sociology	3		

**TOTAL CREDITS 15**

<b>SEMESTER 3</b>		<b>CREDITS</b>	<b>MILESTONE</b>	<b>✓</b>
PHSX220	Take PHYS 205 at Carroll	4		
NASX105	Introduction to Native American Studies	3		
PSYX100	Introduction to Psychology	3		
Choose 1 of 4	LIT110, LIT211, PHL110, SPNS102	3-4		

**TOTAL CREDITS 13 -  
14**

<b>SEMESTER 4</b>		<b>CREDITS</b>	<b>MILESTONE</b>	<b>✓</b>
Choose 1 of 2	ECNS201, ECNS202	3	*	
CSCI100	Introduction to Programming	3		
M115	Probability and Linear Mathematics	3		
STAT216	Introduction to Statistics	3		
PHSX222	Take PHYS 206 at Carroll	4	*	

**TOTAL CREDITS 16**

**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.

**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.

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

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.

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.

PHSX220: Take PHYS 205 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.

1 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.

ECNS201 or ECNS202: ECNS 202 in Spring, ECNS 201 in Fall.

MT Tech required course.

S&PS/H course. Either course will meet MT Tech requirement. Courses offered on rotation every fall, spring and summer semester.

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

PHSX222: Take PHYS 206 at Carroll