

Jumpstart Pathway

**Applied Mathematical Sciences Transfer to Montana Technological University**

Associate of Science

**Academic & Career Pathway: Science, Technology, Engineering and Math**

Student:

Advisor:

<b>Course/Semester (Prefix, Number and Title)</b>	<b>Credits</b>	<b>Fall/Spring Only</b>	<b>Milestone Course</b>	<b>Notes</b>	<b>Completed</b>
<b>Semester 1</b>					
M 171 - Calculus I	4		*	Students not prepared for M 171 their first semester should consider taking M 151 the summer prior. Mt Tech required course	
CHMY 141 – College Chemistry I or BIOB 160 – Principles of Living Systems or BIOH 201 – Human Anatomy & Physiology I	4	CHMY 141 and BIOB 160 Fall	*	Student should choose a 2-semester sequence that best suits their career goals. Student may alternatively take PHSX 222 – see Physics option. Mt Tech required course sequence	
WRIT 101 – College Writing I	3				
PHL 110 – Introduction to Ethics or SPNS 101 Elementary Spanish I, or SPNS 102 Elementary Spanish II	3/4			PHL 110 strongly encouraged but can choose any of these options. H&FA courses shown satisfy MT Tech Gen Ed requirements and HC requirements. Can be taken any semester.	
<b>Total</b>	<b>14/15</b>				
<b>Semester 2</b>					
M 172 – Calculus II	4	Spring	*	Mt Tech required course	
PHSX 220 – Physics I (w/ Calculus)	4	Spring			
PHL 110 Intro to Ethics, or SPNS 101 Elementary Spanish I, or SPNS 102 Elementary Spanish II	3/4			H&FA courses shown satisfy MT Tech Gen Ed requirements and HC requirements. Can be taken any semester.	
CHMY 143 – College Chemistry II or BIOB 101 – Discover Biology or BIOH 211 – Human Anatomy & Physiology II	4	CHMY 143 spring	*	Course should match the sequence taken in Semester 1. Mt Tech required course sequence	
<b>Total</b>	<b>15/16</b>				
<b>Semester 3</b>					
M 273 – Multivariable Calculus	4	Fall	*	Mt Tech required course	
PSYX 120 – Research Methods I or ANTY 101 Anthropology & the Human Experience, GPHY	3	PSYX 120 in Fall		PSYX 120 strongly encouraged, but can choose any Social/Psychological Sciences course listed. All courses shown meet the Social Science Core	

121 Human Geography, PSCI 210 Intro to American Government, PSYX 100 Intro to Psychology, PSYX 230 Developmental Psychology, or SOCI 101 Intro to Sociology				requirement at Mt Tech and the S&PS/H course requirement at HC.	
COMX 111 – Introduction to Public Speaking	3			Course offered fall, spring, and summer semester.	
ECNS 201 – Principles of Microeconomics	3	Fall			
CSCI 100 Intro to Programming	3			Course offered fall, spring, and summer semester.	
<b>Total</b>	<b>16</b>				
<b>Semester 4</b>					
M 274 – Differential Equations	4	Spring			
ANTY 101 Anthropology & the Human Experience, GPHY 121 Human Geography, PSCI 210 Intro to American Government, PSYX 100 Intro to Psychology, PSYX 230 Developmental Psychology, or SOCI 101 Intro to Sociology	3			Choose any Social/Psychological Sciences course listed. All courses shown meet the Social Science Core requirement at Mt Tech and the S&PS/H course requirement at HC.	
NASX 105 – Introduction to Native American Studies	3			D & CHAI Course offered every fall, spring, and summer semester	
CSCI 111 – Programming with Java I	4	Spring			
ECNS 202 – Principles of Macroeconomics	3	Spring			
<b>Total</b>	<b>17</b>				

***\*Students must earn a C- or better in order to successfully complete a course***

MT Tech General Education requirements [https://catalog.mtech.edu/preview\\_program.php?catoid=12&poid=2227](https://catalog.mtech.edu/preview_program.php?catoid=12&poid=2227)

MT Tech Degree requirements [https://catalog.mtech.edu/preview\\_program.php?catoid=12&poid=2387&returnto=1250](https://catalog.mtech.edu/preview_program.php?catoid=12&poid=2387&returnto=1250)

Students that complete the Helena College General Education Core will earn a Certificate of General Studies.

<b>Certificate of General Studies</b>		
<b>Category</b>	<b>Credits</b>	<b>Complete</b>
Natural Science with Lab		
Natural Science		
Mathematics		
Written Communication		
Oral Communication		
Social & Psychological Sciences/History		
Social & Psychological Sciences/History		
Humanities/Fine Arts		
Humanities/Fine Arts		
Cultural Diversity		
Total Credits (30-32)		