

Academic Pathways Map
Engineering and Math Gen Ed Core
C.G.S. Jumpstart
Engineering and Math

Start Here

SEMESTER 1		CREDITS	MILESTONE	✓
M171	Calculus I	4	*	
CHMY141	College Chemistry I	4	*	
WRIT101	College Writing I	3		
COLS101	First Year Seminar	3		
		TOTAL CREDITS	14	

SEMESTER 2		CREDITS	MILESTONE	✓
M172	Calculus II	4	*	
Choose 1 of 2	CHMY143, PHSX220	4	*	
NASX105	Introduction to Native American Studies	3		
PSYX100	Introduction to Psychology	3		
		TOTAL CREDITS	14	

SEMESTER 3		CREDITS	MILESTONE	✓
PHL110	Problems of Good and Evil	3		
COMX111	Introduction to Public Speaking	3		
SOCI101	Introduction to Sociology	3		
		TOTAL CREDITS	9	

You are finished!

Pathway Advising Notes: This is a Jumpstart Pathway. 10 of the courses listed satisfy course requirements for the following degrees: Applied Mathematical Sciences at MT Tech; Civil Engineering at Carroll College, MSU, and MT Tech, and Electrical Engineering at MSU and MT Tech. A grade of C- or better is required for all courses. The first-year seminar course is recommended to be taken in the first semester.

Course Advising Notes: CHMY141: Check CHMY141 will be accepted for CHMY121 at Carroll College

Program Notes: Applied mathematicians apply mathematical knowledge and skills to solve real-world problems and achieve practical results in disciplines ranging from science to engineering, industry to technology, and to society at large. Civil engineers design, build, supervise, and construct sustainable projects and systems in both the public and private sectors. Projects are wide in scope and can include buildings, roads, airports, tunnels, dams, bridges, and municipal systems. Electrical engineers use physics, electronics, and electromagnetism to design devices that are powered by or produce electricity. Electrical engineers work on anything from small pocket devices to large aircraft electrical systems.