

## Academic Pathways Map

### Automotive Technology

A.A.S.

Industry and Trades

#### Start Here

SEMESTER 1		CREDITS	MILESTONE	✓
M111	Technical Mathematics	3	*	
AST103	Automotive Mechanics Core	3	*	
AST130	Introduction to Automotive Electronics	6	*	
AST114	Automotive Brakes	5		
<b>TOTAL CREDITS</b>		<b>17</b>		

SEMESTER 2		CREDITS	MILESTONE	✓
COMX106	Communicating in a Dynamic Workplace	3		
AST220	Automotive Steering and Suspension	5		
AST160	Automotive Engine Repair	6		
AST108	Manual Drivetrains	5		
<b>TOTAL CREDITS</b>		<b>19</b>		

SEMESTER 3		CREDITS	MILESTONE	✓
AST230	Electrical/Electronic Systems II	6	*	
AST262	Engine Performance I	6		
AST264	Engine Performance II	6		
<b>TOTAL CREDITS</b>		<b>18</b>		

SEMESTER 4		CREDITS	MILESTONE	✓
AST270	Automatic Transmissions/Transaxles	6		
AST172	Automotive Heating/Air Conditioning	4		
AST274	Introduction to Hybrid Vehicle Technology	3		
<b>TOTAL CREDITS</b>		<b>13</b>		

### You are finished!

**Pathway Advising Notes:** -Classes must be taken in the order outlined on this pathway map, beginning in the fall semester. This includes M111 and COMX106.

-Program requires full-time enrollment.

-In order to advance, all previous semester classes must be passed with a C- or better.



- Helena College provides all of the tools needed for students while in class. However, if a student desires to take advantage of the opportunity to work in a local shop while in school, the student will need to have their own tool set to use at work. Please refer to the Helena College Catalog for a list of tools needed in the automotive industry. Your instructor will provide more information at orientation/during the first week of class.

**Course Advising Notes:** M111: This is the math class recommended for students in skilled trades programs, but other higher math classes may be substituted. Your advisor can help determine placement.

AST103: First automotive class in the sequence. Instills basic skills required for the rest of the automotive classes.

AST130: Foundational class. Provides electrical building blocks for all automotive classes.