



## ***Big Sky Pathway Highlights***

Helena College partners with the Montana Digital Academy (MTDA), Broadwater, Capital, Helena, Jefferson, Lincoln and other high schools to build Pathways that identify Foundational, Career/Technical Education courses, and college-level courses that will best prepare students for specific college majors and may help reduce the cost of earning a degree. For each pathway, these pages list recommended **high school courses** and a table with **college courses** required for a specific degree for which students can earn credit while in high school.

### **PATHWAYS DEVELOPED BY HELENA COLLEGE AND HIGH SCHOOL PARTNERS**

1. Accounting Technology Associate of Applied Science
2. Automotive Technology Associate of Applied Science
3. Business Technology Associate of Applied Science
4. Computer-Aided Manufacturing Associate of Applied Science
5. Computer Technology Programming Associate of Applied Science
6. Computer Technology Network Administration Associate of Applied Science
7. Criminal Justice Associate of Science
8. Fire and Rescue Associate of Applied Science
9. Legal Support Specialist Certificate of Applied Science
10. Licensed Practical Nursing Associate of Applied Science
11. Welding Technology Associate of Applied Science

### **1. Accounting Technology AAS: 4 Semesters, 66 credits**

#### **Recommended Foundational/Career and Technical Education Courses:**

Accounting I, II & III, Marketing, Business Co-op, Small Business Management, Money Management, Career Planning, Technical Skills for Life, Law and Justice

#### **Available as Dual Credit: Up to 27 credits**

Credits	Required Courses	MTDA	BHS	CHS	HHS	JHS	LHS
3	Accounting Procedures I	x	x	x			
3	Introduction to Business	x					
3	College Writing or Introduction to Technical Writing	x	x	x	x	x	
3	College Algebra or Business Math	x	x	x	x		
3	Micro-economics, Macro-economics, or Principals of Micro and Macro-Economics	x					
3	Introduction to Public Speaking	x	x	x		x	
3	Keyboarding and Document Processing or MS Word	x		x		x	
3	MS Excel	x		x			
3	Introduction to Psychology or Intro to Sociology	x				x	

## 2. Automotive Technology AAS: 4 semesters, 71 credits

### Recommended Foundational and Career/Technical Education Courses:

Industrial Technology, Welding I, II & III, Auto I, II & III, Drafting, CAD, Marketing, Basic Computer Skills, Tech Skills for Life, Money Management, Small Business Management, Law and Justice

### Available Dual Credit: Up to 9 credits

Credits	Required Courses	MTDA	BHS	CHS	HHS	JHS	LHS
3	Introduction to Technical Writing or College Writing	x	x	x	x	x	
3	Introduction to Technical Math or College Algebra	x	x	x	x		
3	Human Relations (HR 110T)	x					

- These writing and math courses are critical to success in the Automotive Technology program and may present a barrier to degree completion. College-level automotive courses require sophisticated equipment and shop facilities.

## 3. Business Technology AAS: 4 semesters, 66 credits

### Recommended Foundational and Career/Technical Education Courses:

Accounting I, II & III, Marketing, Business Co-op, Small Business Management, Money Management, Career Planning, Technical Skills for Life, Law and Justice

### Available as Dual Credit: Up to 30 credits

Credits	Required Courses	MTDA	BHS	CHS	HHS	JHS	LHS
3	Accounting Procedures I	x	x	x			
3	Introduction to Business	x					
3	College Writing or Introduction to Technical Writing	x	x	x	x	x	
3	College Algebra or Business Math	x	x	x	x		
3	Micro-economics, Macro-economics, or Principals of Micro and Macro-Economics	x					
3	Introduction to Public Speaking	x	x	x		x	
3	Keyboarding and Document Processing or MS Word	x		x	x	x	
3	MS Excel	x		x			
3	Marketing	x					
3	Introduction to Psychology or Intro to Sociology	x					

## 4. Computer-Aided Manufacturing AAS: 4 semesters, 71 credits

### Recommended Foundational and Career/Technical Education Courses:

Welding I, II & III, Drafting, CAD, Marketing, Basic Computer Skills, Tech Skills for Life, Money Management, Small Business Management, Robotics

### Available Dual Credit: Up to 13 credits

Credits	Required Courses	MTDA	BHS	CHS	HHS	JHS	LHS
3	Introduction to Technical Writing or College Writing	x	x	x	x	x	
3	Introduction to Technical Math or College Algebra	x	x	x	x		
4	Milling Operations Level I			x			
3	Human Relations (HR 110T)	x					

- College-level machining courses require sophisticated equipment and shop facilities. Additional courses, for college credit only, are taught in the evening at Helena College and available to high school students if space permits.

## 5. Computer Technology Programming AAS: 4 semesters, 69 credits

### Recommended Foundational and Career/Technical Education Courses:

Marketing, Basic Computer Skills, Tech Skills for Life, Money Management, Small Business Management, Graphic Web Design, Microsoft Office Word, Excel, CAD 2D, Robotics

### Available Dual Credit: Up to 19 credits

Credits	Required Courses	MTDA	BHS	CHS	HHS	JHS	LHS
3	College Writing or Introduction to Technical Writing	x	x	x	x	x	
3	College Algebra or Probability and Linear Math	x	x	x	x		
3	Intro to Programming or Joy and Beauty of Computing	x			x		
3	Programming with Java (CSCI 111)	x		x	x		
4	Databases and SQL (CSCI 240)	x			x		
3	Introduction to Psychology or Intro to Sociology	x					

- Additional courses, for college credit only, are taught in the evening at Helena College and available to high school students if space permits.

## 6. Computer Technology Network Administration AAS: 4 semesters, 69 credits

### Recommended Foundational and Career/Technical Education Courses:

Marketing, Basic Computer Skills, Tech Skills for Life, Money Management, Small Business Management, Robotics, Graphic Web Design, Microsoft Office Word, Excel, CAD 2D

### Available Dual Credit: Up to 12 credits

Credits	Required Courses	MTDA	BHS	CHS	HHS	JHS	LHS
3	College Writing or Introduction to Technical Writing	x	x	x	x	x	
3	College Algebra or Probability and Linear Math	x	x	x	x		
3	Intro to Programming or Joy and Beauty of Computing	x			x		
3	Introduction to Psychology or Intro to Sociology	x					

- Additional courses, for college credit only, are taught in the evening at Helena College and available to high school students if space permits.

## 7. Criminal Justice AS Transfer: 4 semesters, 63 credits

### Recommended Foundational and Career/Technical Education Courses:

Computer Tech Skills, Law and Justice, Current Issues, Government, Psychology, Sociology, Microsoft Word, Excel, Money Management, Career Planning, Technical Skills for Life

### Available as Dual Credit: Up to 15 credits

Credits	Required Courses	MTDA	BHS	CHS	HHS	JHS	LHS
3	College Writing	x	x	x	x	x	
3	College Algebra or Math for Liberal Arts	x	x	x	x		
3	Introduction to Public Speaking	x	x	x		x	
3	Introduction to Psychology or Intro to Sociology	x					
3	Introduction to Corrections (CJUS 220)	x					

## 8. Fire and Rescue AAS: 4 semesters, 72 credits

### Recommended Foundational and Career/Technical Education Courses:

Principals of Biomedical Science, Human Body Systems, Medical Interventions, Biomedical Innovation, Physics, Computer Tech Skills, Physical Fitness, CPR Training, Basic Wildland Firefighting, EMT, CPR Training, Law and Justice, Excel, Money Management; Career Planning, Technical Skills for Life, Construction, Welding, Small Engines, Drafting

### Available as Dual Credit: Up to 17 credits

Credits	Required Courses	MTDA	BHS	CHS	HHS	JHS	LHS
3	College Writing or Technical Writing	x	x	x	x	x	
3	College Algebra or Technical Math	x	x	x	x		
4	Emergency Medical Technician Training (*Planned)				*		
1	Personal Physical Fitness					x	
3	Wildland Fire Fighting					x	
3	Human Relations (HR 110t)	x					

## 9. Legal Support Specialist CAS: 2 semesters, 30 credits

### Recommended Foundational and Career/Technical Education Courses:

Basis Computer Skills, Tech Skills for Life, Marketing; Business Co-op, Small Business Management, Money Management, Career Planning, Accounting, Law and Justice

### Available as Dual Credit: Up to 15 credits

Credits	Required Courses	MTDA	BHS	CHS	HHS	JHS	LHS
3	College Writing or Introduction to Technical Writing	x	x	x	x	x	x
3	College Algebra or Business Math	x		x	x		
3	Keyboarding and Document Processing or MS Word	x	x	x	x	x	
3	MS Excel (CAPP 156)	x		x			
3	MS Access (CAPP 158)	x					

## 10. Licensed Practical Nursing AAS: 4 semesters, 72 credits

### Recommended Foundational and Career/Technical Education Courses:

Principals of Biomedical Science, Human Body Systems, Medical Interventions, Biomedical Innovation, Computer Tech Skills, Physical Fitness, CPR Training, EMT, Law and Justice, Excel, Sports Medicine

### Available as Dual Credit: Up to 15 credits

Credits	Required Courses	MTDA	BHS	CHS	HHS	JHS	LHS
3	College Writing	x	x	x	x	x	x
3	College Algebra	x	x	x	x		
3	Introduction to Psychology (PSYX100)	x					
3	Basic Human Nutrition (NUTR221)	x					
3	Intro to General Chemistry (CHMY121)	x					

## 11. Welding Technology AAS: 4 semesters, 72 credits

### Recommended Foundational and Career/Technical Education Courses:

Industrial Technology, Welding I, II & III, Auto I, II & III, Drafting, CAD, Marketing, Basic Computer Skills, Tech Skills for Life, Money Management, Small Business Management

### Available Dual Credit: Up to 10 credits

Credits	Required Courses	MTDA	BHS	CHS	HHS	JHS	LHS
3	Introduction to Technical Writing or College Writing	x	x	x	x	x	
3	Introduction to Technical Math or College Algebra	x	x	x	x		
1	Cutting Processes			x	x		
3	Human Relations (HR 110T)	x					

- College-level welding courses require sophisticated equipment and shop facilities and utilize block scheduling. Additional courses, for college credit only, are taught in the evening at Helena College and available to high school students if space permits.

### Notes

- Face-to-face dual credit courses in high school may vary from year to year, based on teacher credentials and enrollments.
- College credits (hours) and high school credits (units) are not equivalent.
- Students should ask high school counselors about the requirements for enrolling in dual credit courses and visit Helena College Enrollment and Admissions webpage to register for college-credit only courses, "On Campus Experiences."
- To see complete **Programs of Study**, with all recommended high school and college courses, go to [http://www.umhelena.edu/admissions\\_enrollment/careerpathways.aspx](http://www.umhelena.edu/admissions_enrollment/careerpathways.aspx).

### Additional Pathway

**Carpentry CAS currently available from Great Falls, Highlands, and Missoula Colleges  
With High School for College (NOCTI Testing) offered through Helena College**

### Recommended Foundational and Career/Technical Education Courses:

Industrial Technology, Welding I, II & III, Drafting 1, 2, 3, CAD 2D, Marketing, Basic Computer Skills, Tech Skills for Life, Money Management, Small Business Management, Carpentry 1-2, Cabinetmaking

### Available Dual Credit: Up to 12 credits

Credits	Required Courses	MTDA	BHS	CHS	HHS	JHS	LHS
3	Introduction to Technical Writing or College Writing	x	x	x	x	x	
3	Introduction to Technical Math or College Algebra	x	x	x	x		
3	Fundamentals of Construction Technology*		x	x	x	x	x
3	Human Relations (HR 110T)	x					

\*Students must take a written exam at their high schools and a performance assessment at Helena College, and enroll in a two-year college in order to earn these credits.