

Capital High School to Helena College degree program: Computer Technology AAS Programming Option	BIG SKY PATHWAY PROPOSAL 
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Recommended pathway from Capital High School to Helena College with dual credit opportunities highlighted.

SUGGESTED HIGH SCHOOL COURSES

9th	Graduation Requirements Workforce/College Prep	English I, Algebra I, Earth Science, World Cultures, Physical Ed	Recommended CTE Cluster Foundation Course(s): Basic Computer Skills, Tech Skills for Life
	CTE and/or Electives	Basic Computer Skills & Tech Skills for Life	
10th	Graduation Requirements Workforce/College Prep	English II; Geometry; Biology; Health; Biology Fine Art	Recommended CTE Pathway Courses: Computer Skills 1-3; Intro to Programming; Coding
	CTE and/or Electives	Computer Science;	
11th	Graduation Requirements Workforce/College Prep	English III, American History, M121 College Algebra , Chemistry	Other Recommended CTE Courses: Business; Microsoft Word and Microsoft Excel , CNC Milling Operations
	CTE and/or Electives	Computer Science (CS110), CAPP 156 MS Excel , CAPP 154 MS Word	
12th	Graduation Requirements Workforce/College Prep	English IV and WRIT101 College Writing or WRIT121T Technical Writing , American Government, M151 Pre-Calculus	Career & Technical Student Organization(s): Helena Robotics, Business Professionals of America
	CTE and/or Electives	MCH234 CNC Milling Operations ; Business Management, Robotics, Psychology or Sociology	

ADVANCED LEARNING OPPORTUNITIES

High School to College/Career Linkages

Advanced Placement: AP U.S. History; AP Am. Government; AP English Literature, AP English Language, AP European History, AP Spanish
Dual Enrollment courses: WRIT121T Technical Writing ; WRIT 101 College Writing ; COMX111 Intro to Public Speaking; M121 College Algebra ; M151 Pre-Calculus ; CSCI100 Intro to Programming (Carroll) ; CNC Milling Operations 1; CAPP154 Word, CAPP156 Excel
Online courses: MTDA: 121 College Algebra; WRIT101 College Writing; Coding (Code MT); CSCI107 Joy & Beauty of Computing ; PSYX100 Intro to Psychology
Other: Robotics Competition; Science Olympiad

POSTSECONDARY PROGRAM OF STUDY

	Math	English	Major	Other
Semester 1 (15 CR)	M121 College Algebra /or M115 Linear Mathematics 3CR	WRIT101 College Writing /or WRIT121T Technical Writing 3CR	CSCI100 Intro to Programming 3CR OR CSCI 107 Joy & Beauty 3CR BMIS285 Fundamentals of Management Information Systems 3CR	ITS164 Networking Fundamentals 3CR OR NTS104 Intro to Networks 3CR
Semester 2 (18 CR)			CSCI111 Programing with Java I 4CR CSCI240 Databases & SQL 3CR ITS280 Comp. Repair & Maint 4CR MART145 Web Design 3CR	SOCI101 Intro to Sociology /or PSYX100 Intro to Psychology /or HR110T Career Development and Human Relations 3CR
Semester 3 (14 CR)			CSCI DB Triggers, ORM, NoSQL 3CR CSCI211 Client Side Web Dev 3CR CSCI221 Syst. Analysis & Des. 4CR CSCI236 XML Data Processing 2CR CSCI276 Application Security 2CR	
Semester 4 (15 CR)			CSCI121 Program w/Java II 4CR CSCI238 Mobile Apps 3CR CSCI206 .NET Applications 3CR CSCI Web Services 3CR	CSCI298 Internship OR CSCI299 Thesis/Capstone 2CR