Helena High School to Helena College degree program: **Computer Technology AAS Programming Option**	*BIG SKY PATHWAY PROPOSAL*

Recommended pathway from Helena High School to Helena College, with dual credit opportunities printed in red.

SUGGESTED HIGH SCHOOL COURSES

9th	Graduation Requirements Workforce/College Prep	English I; Algebra I; Earth Science; World Cultures; Physical Ed I	**Recommended CTE Cluster Foundation Course(s):** Basic Computer Skills; Tech Skills for Life
	CTE and/or Electives	Computer Science Basic Computer Skills; Tech Skills for Life	**Recommended CTE Pathway Courses:** Computer Science (HHS and/or MTDA); Oracle Database and Programming
10th	Graduation Requirements Workforce/College Prep	English II; Geometry; Biology; Health; Physical Ed II; Art	
	CTE and/or Electives	Computer Science; Marketing	**Other Recommended CTE Courses:** Marketing; Bengal Business; Accounting; Small Business Management; Drafting, JMG; Cisco 2-4
11th	Graduation Requirements Workforce/College Prep	English III; Algebra II; US History; Chemistry	
	CTE and/or Electives	Computer Science: CSCI100 Intro to Programming; Computer Science: CSCI111Programming with Java; Basic Computer Skills; Small Business Management	
12th	Graduation Requirements Workforce/College Prep	English IV and WRIT101 College Writing; or WRIT121T Technical Writing; US Government; M121 College Algebra;	**Career & Technical Student Organization(s):** BPA, DECA, Helena Robotics Club
	CTE and/or Electives	Oracle Database Design and Programming; Accounting 1; Marketing; Drafting CAD 2D	

ADVANCED LEARNING OPPORTUNITIES
High School to College/Career Linkages

College Placement Thresholds: For M121 or M115, COMPASS math score of 70 or above or ACT math of 22 or above; For WRIT101, COMPASS Writing score of 90 or above or ACT Combined Writing of 18 or 7 on Essay

Advanced Placement or IB courses: AP US History; AP European History; AP Government; AP Psychology; AP English III & IV; AP Calculus; AP Biology

Dual Enrollment courses: M121 College Algebra; WRIT101 College Writing , WRIT121T Technical Writing; CSCI100 Intro to Programming; CSCI111 Programming with Java; DFT150 CAD 2D (Drafting)

Online courses: MTDA: CSCI 107 Joy and Beauty of Computing; PSYX100 Into to Psychology

Other: Helena Robotics Club, Business Co-op, Internships

POSTSECONDARY PROGRAM OF STUDY

	Math	English	Major	Other
Semester 1 (15 credits)	M121 College Algebra OR M115 Linear Mathematics 3CR	WRIT101 College Writing OR WRIT121T Technical Writing 3CR	CSCI100 Intro to Programming 3CR OR CSCI107 Joy & Beauty 3CR BMIS285 Fundamentals of Management Information Systems 3CR	ITS164 Networking Fundamentals 3CR OR NTS104 Intro to Networks 3CR Successful placement or CAPP 100
Semester 2 (18 credits)			CSCI111 Programming with Java I 4CR CSCI240 Databases & SQL 3CR ITS280 Comp. Repair & Maintenance. 4CR MART145 Web Design 3CR	SOCI101 Intro to Sociology /or PSYX100 Into to Psychology /or HR110T Career Development and Human Relations 3CR
Semester 3 (14 credits)			CSCI 245 Modern DB Systems 3CR CSCI211 Client Side Web Dev 3CR CSCI221 Syst. Analysis & Des. 4CR CSCI236 XML Data Processing 2CR CSCI276 Application Security 2CR	
Semester 4 (15 credits)			CSCI121 Program w/Java II 4CR CSCI238 Standard Mobile Apps 3CR CSCI206 .NET Applications 4CR CSCI 2xx Web Services 3CR	CSCI298 Internship OR CSCI299 Thesis/Capstone 2CR