



Area of Concentration: N3 CTSO: BPA

Program Courses

EMIS Course Code	Course Name	Grade	Is this course a CTAG?
145005	Information Technology	10	No
145060	Programming	11	Yes
145065	Object Oriented Programming	11	No
145090	Game Design	12	No
145015	IT Capstone	12	N/A

Industry Credentials/Certifications

Industry Credentials Offered	ODE Points Available	Completed during Grade							
TBD									

College Credit Opportunities

Course Name	College	Credit Hours	Completed during Grade		
CTPROG001 Computer Logic	CTAG	3	11		
CTPROG002 Java Programming	CTAG	3	11		

Work-Based Learning Opportunities

CTSO Competitions	
On the job placement opportunities	

Tasks

- Modify software programs to improve performance.
- Write computer programming code.
- Test software performance.
- Resolve computer software problems.
- Collaborate with others to resolve information technology issues.
- Develop diagrams or flow charts of system operation.
- Develop models of information or communications systems.
- Document design or development procedures.
- Train others in computer interface or software use.
- Test computer system operations to ensure proper functioning.
- Prepare instruction manuals.
- Assign duties or work schedules to employees.
- Manage information technology projects or system activities.
- Supervise information technology personnel.
- Design websites or web applications.
- Develop computer or online applications.
- Teach others to use computer equipment or hardware.
- Coordinate project activities with other personnel or departments.

PROGRAMMING AND GAME DESIGN

Program of Study

Aligned with Sinclair – Computer Information Systems/Software Development SODE.S.AAS

				Algebra							Health/		
ıdary	9	En	English 9 or Geome		Science		World History		PE/F	PE	Career Exploration		Elective
	10	English 10 o		Geometro or Algebra	Biolo	Biology		ory	Elect	ive	Information Technology 145005		
Secondary	11	English 11		Algebra or Pre- Calculus	or Environi	nental	American Government		Elect	ive	Programming 145060		Animation 145115
	12	English 12 Adv		Adv Mat	h Elect	Elective)	Elect	ive	Game Desigr 145090	ſ	IT Capstone 145015
	1												
		Fall CIS 1107 Intro Operating Systems		o ting	CIS 1130 Network undamentals	letwork E			MAT 1120 Business Math		BIS 1120 Intro to Software Apps		SCC 1101 First Year Experience
ndary	Year Intro P		1111 rob Solv	Web Dev	CIS 1350 Web Dev HTML		MAN 2150 Management & Org Behavior		nt & ECO 2160			COM 2225 Small Group	

Post-Secondary	Year 1	Operating Systems			nglish Busine position I Math			Intro to Software App	First Year Experience
	Spring Year 1	CIS 1111 Intro Prob Solv Comp Prog	Web Dev H	CIS 1350 Web Dev HTML & CSS		MAN 2150 Management & Org Behavior		CO 2160 oeconomics	COM 2225 Small Group Communication
	Fall Year 2	CIS 1202 C++ Software Devel		CIS 2212 Java Software Dev I		CIS 1140 Info Sys Analysis & Desn		CIS 2165 Patabase nagement	ACC 1100 Small Business Accounting
	Spring Year 2	CIS 2217 Java Software Dev II		CIS 222 ASP.NET with C#		CIS 2170 CIS Internship		CIS 2268 to Oracle	HUM 1130 Humanity & Technology

Key Required Course Recommended Elective Courses Bold =College Credit Opportunity

Dayton Public Schools does not discriminate on the basis of race, color, national origin, sex, disability, or age for participation in any program or activity. Lack of English language proficiency will not be a barrier to admission and participation in career-technical education programs.