



School of Business Services & Informational Technology

Occupation/Field: Computer Science



National Career Cluster: Information Technology

Required Courses for Core 40 Diploma

Recommended Courses and Electives

GRADE	SUBJECT	Required Courses for Core 40 Diploma					Recommended Courses and Electives		
		English/ Language Arts	Math	Social Studies	Science	Electives	Electives	Electives	Electives
9	S1	English 9	Algebra I	College and Careers	Biology I	PE	Health		
	S2	English 9	Algebra I	Study Hall	Biology I	PE	Health		
10	S1	English 10 Enr. Eng 10	Geometry	World History	ICP Chemistry	World Language	Computer Programming II		
	S2	English 10 Enr. Eng 10	Geometry	World History	ICP Chemistry	World Language	Computer Programming II	Web Design	
11	S1	English 11 AP English 11	Algebra II	US History AP US History	Core 40 Science	Porter County Career Center Course			
	S2	English 11 AP English 11	Algebra II	US History AP US History	Core 40 Science				
12	S1	Senior Comp AP English 12	Recommended: Additional Math course	Government	World Language	Porter County Career Center Course			
	S2	Senior Comp AP English 12	Recommended: Additional Math course	Economics	World Language				

Bachelor of Science in Computer Science from University of Evansville, Evansville, IN

Yr 13	S1	Principles of Chemistry (CHEM 118) or General Biology (BIOL 107)	Introduction to Computer Science (CS 101)	First-Year Seminar (FYS 111/112)	Calculus I (MATH 221)	Foreign Language 111	
	S2	Fundamentals of Programming I (CS 210)	First-Year Seminar or Elective (FYS 112)	Calculus II (MATH 222)	Calculus Physics I (PHYS 210)	Foreign Language 112	
Yr 14	S1	The British Experience (ID H282/382)	Calculus III (MATH 323)	General Education Elective	General Education Elective		
	S2	Fundamentals of Programming II (CS 215)	Logic Design and Machine Organization (CS 220)	Discrete and Combinatorial Mathematics (MATH 370)	Applied Engineering Mathematics (ENGR 390)	General Education Elective	Free Elective
Yr 15	S1	Programming Languages (CS 380)	Formal Languages (CS 381)	Software Engineering (CS 390)	Calculus Physics II (PHYS 211)	Computer Science Elective	
	S2	Object-Oriented Design (CS 290)	Algorithms and Data Structures (CS 315)	Computer Architecture (CS 320)	Operating Systems (CS 470)	Senior Project Seminar	Free Elective/Health and Wellness
Yr 16	S1	Senior Project Phase I (CS 495)	Computer Science Elective	Computer Science Elective	Free Elective	Free Elective	
	S2	Senior Project Phase II (CS 497)	Computer Science Elective	Free Elective	Free Elective	Professional Development Elective	

Hobart High School offers numerous DUAL CREDIT courses. See your counselor for more information.

