



School of Engineering and Industrial Technology

Occupation/Field: Civil Engineering



National Career Cluster: Science, Technology, Engineering & Mathematics

Required Courses for Core 40 Diploma

Recommended Courses and Electives

GRADE	SUBJECT	English/ Language Arts	Math	Social Studies	Science	Electives	Electives	Electives	Electives
HIGH SCHOOL	9	S1	English 9	Algebra I	College and Careers	Biology I	PE	Health	PLTW Introduction to Engineering Design
	9	S2	English 9	Algebra I	Study Hall	Biology I	PE	Health	PLTW Introduction to Engineering Design
	10	S1	English 10 Enr. Eng 10	Geometry	World History	ICP Chemistry	World Language	PLTW Principles of Engineering	
	10	S2	English 10 Enr. Eng 10	Geometry	World History	ICP Chemistry	World Language	PLTW Principles of Engineering	
	11	S1	English 11 AP English 11	Algebra II	US History AP US History	Core 40 Science	World Language	PLTW Digital Electronics	
	11	S2	English 11 AP English 11	Algebra II	US History AP US History	Core 40 Science	World Language	PLTW Digital Electronics	
12	S1	Senior Comp AP English 12	Recommended: Additional Math course	Government	World Language	Physics	PLTW Civil Engineering and Architecture		
	S2	Senior Comp AP English 12	Recommended: Additional Math course	Economics	World Language	Physics	PLTW Civil Engineering and Architecture		

Bachelor of Science in Civil Engineering from Purdue University, West Lafayette, IN

POSTSECONDARY	Yr 13	S1	Calculus I (MA 165)	General Chemistry I (CHM 115)	General Education Elective	Ideas to Innovation (ENGR 131)	English Composition (ENGL 106)	
	13	S2	Calculus II (MA 166)	Science Selective	Modern Physics (PHYS 172)	Computer Graphics (CGT 164)	Ideas to Innovation (ENGR 132)	
	Yr 14	S1	Principles and Practices of Geomatics (CE 203)	Contemporary Issues in Civil Engineering (CE 29201)	Basic Mechanics I: Statics (CE 297)	Multivariate Calculus (MA 261)	Electricity and Optics (PHYS 241)	General Education Elective
	14	S2	Engineering Materials (CE 231)	Introductory Structural Mechanics (CE 270)	Basic Mechanics II: Dynamics (CE 298)	Linear Algebra (MA 265)	General Education Elective	
	Yr 15	S1	Engineering Materials (CE 331)	Hydraulics (CE 340)	Elementary Hydraulics Laboratory (CE 343)	Ordinary Differential Equations (MA 266)	General Education Elective	Technical Elective
	15	S2	Statistical Methods (STAT 511)	Introduction to Civil Engineering System Design (CE 398)	Basic Science Requirement	General Education Elective	Technical Elective	Technical Elective
	Yr 16	S1	Thermodynamics I (ME 200)	General Education Elective	Technical Elective	Technical Elective	Technical Elective	Technical Elective
	16	S2	Civil Engineering Design Project (CE 498)	General Education Elective	Technical Elective	Technical Elective	Technical Elective	

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

