

B.S. CIVIL ENGINEERING & B.A. German

Plan of Study

* The plan of study illustrates an example of how all courses may be taken in 5 years without bringing in high school credits.

* See Complete Course Listing for list of CIVIL Major and Elective classes, and Science/Math Electives



Year 1	Fall		Spring	
	FYEX Foundation for College Success			
	ENGR 100 (FYE) Intro to Engineering Design (2 Cr.)		ENGR 162 Intro to Engineering Graphics	
	ENGR 160 Surveying (2 Cr.)		MATH 114 Calculus II	
	MATH 113 Calculus I		PHYS 211 Classical Physics I	
	GEOL 163 Applied Geology (Lab)		DASC 120 Statistics I (Lab)	
	GERM 111 Elementary German I		GERM 112 Elementary German II	
	January-term		Summer	
CORE requirement		CORE requirement		
Year 2	Fall		Spring	
	ENGR 220 Statics		ENGR 221 Mechanics of Materials (Lab)	
	MATH 210 Intro to Differential Equations & Systems		SCI/MATH Elective (4 cr.)	
	CHEM 109 General Chemistry for Engineers (Lab) –OR– CHEM 111 General Chemistry I (Lab)		ENGR 368 Fluids Mechanics for Civil Engineering (Lab)	
	GERM 211 Intermediate German I (GP)		GERM 212 Intermediate German II (IH)	
	January-term		Summer	
	CORE requirement		CORE requirement	
Year 3	Fall		Spring	
	ENGR 362 Construction & Engineering Economic Analysis (Lab)		CIVIL Major Course	
	CIVIL Major Course		CIVIL Major Course	
	CIVIL Major Course		CIVIL Major Course	
	GERM 300 Introduction to German Studies (IH)		GERM 330 IC Comp. Study/Work Abroad (2 cr.)	
			GERM (1) 3XX or 4XX	
	January-term		Summer	
CORE requirement		ENGR 305.03 LOCAL Internship (0 cr.)		
Year 4	Fall – In Germany		Spring – In Germany	
	GERM (2) 3XX or 4XX		ENGR 305.A03 Global Internship (0 cr.)	
	GERM (3) 3XX or 4XX			
	GERM (4) 3XX or 4XX			
	ENGR 3XX or ENGR 4XX Elective (CORE requirement, GERM or ENGR)			
Year 5	Fall		Spring	
	ENGR 480 Design Clinic I		ENGR 481 Design Clinic II	
	CIVIL Major Course		CIVIL Major Course	
	CIVIL Elective Course		GERM (6) 3XX or 4XX	
	GERM (5) 3XX or 4XX		CORE requirement	
	GERM 475 Experiential Learning (2 cr.)			
	January-term		Summer	
CORE requirement				

* ENGR 160, ENGR 362, ENGR 466, ENGR 467, and ENGR 468 are only offered once per year

* Declare interest in International Engineering Program no later than your 4th semester

* Study Abroad semester: equivalent of 12 credit hours needed (on one transcript/in one US semester)

B.S. CIVIL ENGINEERING & B.A. German

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Complete Curriculum (138 credits)



<p>Engineering Major Requirements (61 credits): <u>Core Engineering Courses (29 credits):</u> ENGR 100 Introduction to Engineering Design (2 credits) ENGR 160 Surveying (2 credit) ENGR 162 Introduction to Engineering Graphics (1 credit) ENGR 220 Statics (4 credits) ENGR 221 Mechanics of Materials (4 credits) ENGR 362 Construction and Engineering Economic Analysis (4 credits) ENGR 368 Fluid Mechanics for Civil Engineering (4 credits) ENGR 480 Engineering Design Clinic I (4 credits) ENGR 481 Engineering Design Clinic II (4 credits) <u>Civil Major Courses (28 Credits):</u> ENGR 363 Construction Materials (4 credits) ENGR 364 Structural Analysis (4 credits) ENGR 366 Soil Mechanics (4 credits) ENGR 464 Design of Steel and Concrete Structures (4 credits) ENGR 466 Transportation Engineering (4 credits) ENGR 467 Water Resources (4 credits) ENGR 468 Environmental Engineering (4 credits) <u>Civil Elective Courses (4 Credits):</u> ENGR 381 Thermodynamics ENGR 471 Design of Steel Structures II ENGR 472 Design of RC Structures II ENGR 475 Applied Soil Mechanics ENGR 476 Transportation Facilities ENGR 477 Water Treatment (2 credits) ENGR 478 Wastewater Treatment (2 credits)</p>	<p>Allied Requirements (32 credits): <u>Core Allied Courses (28 credits):</u> MATH 113 Calculus I (4 credits) MATH 114 Calculus II (4 credits) MATH 210 Introduction to Differential Eqns. and Systems (4 credits) PHYS 211 Classical Physics I (4 credits) GEOL 163 Applied Geology (4 credits) DASC 120 Statistics I (4 credits) <i>One of:</i> CHEM 109 General Chemistry for Engineers (4 credits) CHEM 111 General Chemistry I (4 credits) <u>Science/Math Elective Courses (4 credits):</u> MATH 200 Multi-Variable Calculus MATH 230 Intro to Applied Math DASC 240 Applied Regression Analysis CHEM 112 General Chemistry II GEOL 211 Environmental Earth Materials BIOL 209 Biology of Sustainability PHYS 212 Classical Physics II GEOL 410 Hydrogeology</p>
<p>German Requirements: 44 German Credits GERM 111 – Elem. Germ I (4 credits) GERM 112 – Elem. Germ II (4 credits) GERM 211 – Intermediate Germ I (4 credits) GERM 212 – Intermediate German II (4 credits) GERM 300 – Introduction to German Studies (4 credits), GERM 3XX or 4XX (24 credits)</p>	<p>Int'l Engineering Program (IEP) Requirements ENGR 305.03 (3-months local internship) & ENGR 305.A03 (6-months international internship) (0 credits) Study Abroad 1 semester GERMAN for the Professions course Technical GERMAN course GERM 475 Experiential Learning (2 credits) GERM 330: Intercultural Comp: Study/Work abroad (2 cr)</p>
<p>Core Curriculum Requirements: 45 Core Curriculum Credits (may be satisfied w/ classes listed above) <i>Global Perspectives (GP):</i> GERM 211+, study abroad <i>Integrations in the Humanities (IH)</i> (8 cr.): e.g., GERM 212, 300, 301, 312, 330, 341, 342, 440, or LNGS 370 FYEX Foundation for College Success (1 credit) FYE CommGood/Learning Comm: GERM 111, 211, 300 <i>Signature Work:</i> through ENGR Senior Design Clinic Literature and Writing (4 credits)</p>	<p>Core Curriculum Requirements continuation: Language & Culture (0-8 credits): GERM 111, GERM 112, GERM 211 Philosophy and Theology (12 credits) Social Analysis (4 credits) Fine Arts (4 credits) Historical Studies (4 credits) For info on DISJ, GP, IH, WAC, SW see class-finder, degree evaluation, and talk to the IEP director.</p>

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