B.S. in Mechanical Engineering and B.A. in German – Plan of Study

	Fall	Spring	Summer/ J-Term
Year 1		**ENGR 150** Introduction to Engineering (LAB) ⟷	
	MATH 113 Calculus I	**MATH 114** Calculus II	**THEO 101** The Christian Theological Tradition
	ENGR 171 Engineering Graphics and Design	**CISC 130** Introduction to Programming and Problem Solving in the Sciences (LAB) ⟷	**HIST 1XX**
	ENGL 121 Critical Thinking: Literature & Writing	**PHYS 111** Classical Physics I	
	GERM 111*	**GERM 112***	
Year 2	**ENGR 220** Statics (LAB)	**ENGR 221** Mechanics of Materials (LAB)	
	MATH 200 Multi-Variable Calculus	**ENGL 20X** Texts in Conversation	**Social Science**
	PHYS 112 Classical Physics II	**CHEM 109** General Chemistry for Engineers (LAB)	**PHIL 115** Philosophy of the Human Person (Sum)
	GERM 211*	**GERM 212**	
Year 3	**MATH 210** Introduction to Differential Equations and Systems	**ENGR 320** Machine Design & Synthesis (LAB)	
	ENGR 371 Manufacturing Processes and Statistical Control (LAB)	**ENGR 322** Dynamics (LAB)	
	GERM 300	**GERM** (1) **3xx** or **GERM 4xx**	**PHIL 214** Introductory Ethics
	ENGR 381 Thermodynamics (LAB)	**ENGR 350** Introduction to Electronics (LAB)	**THEO** 2XX or 3XX**
Year 4	Fine Arts Elective**		
	HIST (European)***	**Internship (ENGR XXX** Engineering Elective)	**Year 4 in Germany**
	GERM (2) **3xx or 4xx**		
	GERM (3) **3xx or 4xx**	**GERM** (4) **477 or 478** Experiential Learning	
Year 5	**ENGR 480** Engineering Design Clinic I	**ENGR 481** Engineering Design Clinic II	
	ENGR 361 Engineering Materials (LAB) ⟷	**ENGR 410** Control Systems and Automation	**THEO** 4XX
	ENGR 382 Heat Transfer (LAB)	**ENGR 383** Fluid Mechanics (LAB)	
	GERM (5) **3xx or 4xx**	**GERM** (6**) 3xx or 4xx**	

* May place out of one or more semesters if proficient at 3rd Level
** May satisfy human diversity requirement
*** Allied with German – may be satisfied by another course; program director approval necessary
⟷ denotes that the two courses can be interchanged

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Complete Course Listing:

Engineering Courses:
ENGR 150 – Introduction to Engineering (1 credit)
ENGR 171 – Engineering Graphics and Design (4 credits)
ENGR 220 – Statics (4 credits)
ENGR 221 – Mechanics of Materials (4 credits)
ENGR 320 – Machine Design and Synthesis (4 credits)
ENGR 322 – Dynamics (4 credits)
ENGR 350 – Introduction to Electronics (4 credits)
ENGR 361 – Engineering Materials (4 credits)
ENGR 371 – Manufacturing Processes and Statistical Control (4 credits)
ENGR 381 – Thermodynamics (4 credits)
ENGR 382 – Heat Transfer (4 credits)
ENGR 383 – Fluid Mechanics (4 credits)
ENGR 410 – Control Systems and Automation (4 credits)
ENGR 480 – Engineering Design Clinic I (4 credits)
ENGR 481 – Engineering Design Clinic II (4 credits)
4 Credits of Engineering Electives
61 Engineering Credits

Allied Requirements:
MATH 113 – Calculus I (4 credits)
MATH 114 – Calculus II (4 credits)
MATH 200 – Multi-Variable Calculus (4 credits)
MATH 210 – Introduction to Differential Equations & Systems (4 credits)
PHYS 111 – Classical Physics I (4 credits)
PHYS 112 – Classical Physics II (4 credits)
CHEM 109 – General Chemistry for Engineers (4 credits)
CISC 130 – Introduction to Programming and Problem Solving in the Sciences (4 credits)
32 allied requirement credits

German Courses:
GERM 111 – Beginning German 1 (WTL) (4 credits)
GERM 112 – Beginning German 2 (WTL) (4 credits)
GERM 211 – Intermediate German 1 (WTL) (4 credits)
GERM 212 – Intermediate German 2 (WTL) (4 credits)
GERM 300 – Introduction to German Studies (WID) (4 credits)
GERM 311 – Conversation and Composition (may be WI) (4 credits)
GERM 315 – Influential Ideas in Non-Fictional German (4 credits)
GERM 320 – Contemporary Germany and Current Events (4 credits)
GERM 341 – Highlights of German Literature I (may be WI) (4 credits)
GERM 342 – Highlights of German Literature II (may be WI) (4 credits)
GERM 345 – Austria: The Golden Age (4 credits)
GERM 350 – Genre Studies in German Literature (may be taken multiple times) (4 credits)
GERM 401 – German Poetry (4 credits)
GERM 410 – German Opera (4 credits)
GERM 440 – Introduction to Business German and German Business (4 credits)
GERM 475, 476 – Experiential Learning (2 credits)
GERM 477, 478 – Experiential Learning (4 credits)
GERM 483, 484 – Seminar (2 credits)
GERM 485, 486 – Seminar (4 credits)
GERM 487, 488 – Topics (2 credits)
GERM 489, 490 – Topics (4 credits)
GERM 269, 389, 491 – Research (2 or 4 credits)
GERM 243, 393, 495 – Individual Study (2 or 4 credits)
32 GERMAN credits

Allied Requirements:
HIST – European History
4 allied requirements credits

Core Curriculum
Two courses in English (8 credits)
Three courses in Theology** (12 credits)
Two courses in Philosophy (8 credits)
One Fine Arts course** (4 credits)
Social Science Course (4 credits)
**One of these courses must satisfy the human diversity requirement
36 core curriculum credits

Total Credit Count: 165 credits