

## B.S. in Electrical Engineering and B.A. in German- Plan of Study

	Fall	Spring	Summer/J-Term
<b>Year 1</b>	<b>ENGR 150</b> Intro to Engineering I ↔		
	<b>MATH 113</b> Calculus I	<b>MATH 114</b> Calculus II	<b>THEO 101</b> <i>Christian Theological Tradition</i>
	<b>ENGL 121</b> Critical Thinking: Literature and Writing	<b>PHYS 211</b> Intro to Classical Physics I	<b>HIST 1XX</b>
	<b>CISC130</b> Intro to Programming and Problem Solving in Science ↔	<b>ENGR 230</b> Digital Design	
	<b>GERM 111*</b>	<b>GERM 112*</b>	
<b>Year 2</b>	<b>PHIL 115</b> <i>Philosophy of the Human Person</i>	<b>ENGR 240</b> Circuit Analysis	<b>PHIL 214</b> <i>Intro to Ethics</i>
	<b>MATH 200</b> <i>Multi-Variable Calculus</i> ↔	<b>MATH 210</b> <i>Linear Algebra &amp; Differential Equations</i>	<b>ENGL 20X</b>
	<b>GERM 211*</b>	<b>GERM 212</b>	
	<b>PHYS 212</b> <i>Introduction to Classical Physics II</i>	<b>PHYS 225***</b> – Modern Physics I	
<b>Year 3</b>	<b>GERM 300</b>	<b>GERM 3xx or 4xx</b>	
	<b>ENGR XXX</b> Elective **** ↔	<b>ENGR 331</b> Applications of Microprocessors	<i>Social Sciences Elective**</i>
	<b>ENGR 340***</b> Signals and Systems	<b>ENGR 410</b> Control Systems	<b>THEO 2XX/3XX</b>
	<b>ENGR 345***</b> Electronics 1	<b>ENGR 346***</b> Electronics 2	
<b>Year 4</b>	<b>GERM 3xx or 4xx</b>	<b>Internship (ENGR XXX)</b> Engineering Elective)	
	<b>GERM 3xx or 4xx</b>	<b>GERM 3xx or 4xx</b> (Experiential Learning)	<b>Year 4 in Germany</b>
	<i>Fine Arts Elective**</i>		
	HIST European History****		
<b>Year 5</b>	<b>GERM 3xx or 4xx</b>	<b>GERM 3xx or 4xx</b>	<b>THEO 4XX</b>
	<b>ENGR 480</b> Engineering Design Clinic	<b>ENGR 481</b> <i>Engineering Design Clinic II</i>	
	<b>ENGR XXX</b> Elective ****	<b>ENGR XXX****</b> Elective	
	<b>PHYS 341***</b> <i>Electricity and Magnetism</i>	<b>ENGR 342***</b> Electromagnetic Fields and Waves	

\*May place out of one or more semesters if proficient

\*\*May satisfy human diversity requirement

\*\*\* Courses only offered in the semester indicated

\*\*\*\*Allied with German- may be satisfied by another course; program director approval necessary

↔ Denotes that the two courses can be interchange

## **B.S. in Electrical Engineering and B.A. in German- Plan of Study**

### **Engineering Courses:**

ENGR 150 – Introduction to Engineering (1 credit)  
ENGR 230 – Digital Design (4 credits)  
ENGR 240 – Circuit Analysis (4 credits)  
ENGR 331 – Applications of Microprocessors (4 credits)  
ENGR 340 – Signals and Systems (4 credits)  
ENGR 345 – Electronics I (4 credits)  
ENGR 346 – Electronics II (4 credits)  
ENGR 342 – Electromagnetic Fields and Waves (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)  
Four courses of Engineering Electives

### **57 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 211 – Classical Physics I (4 credits)  
PHYS 212 – Classical Physics II (4 credits)  
PHYS 225 – Modern Physics (4 credits)  
PHYS 341 – Electricity and Magnetism (4 credits)  
CISC 130 – Introduction to Programming and Problem Solving in the Sciences (4 credits)

### **36 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 for German:**

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**