

## Bachelor of Science in Electrical Engineering

### 3.3.3 Worksheet

#### Electrical Engineering (EE) Requirements (47 credits minimum)

#### Electrical Engineering Core (24 credits)

	<u>Course Code</u>	<u>Course Title</u>	<u>CR</u>	<u>Pre-Req, ConP</u>	<u>Other Information</u>	<u>Semester</u>	<u>Comments</u>
<input type="checkbox"/>	EE 201	Linear Circuit Analysis I	3	ENGR 131, MA 166 (C-), PHYS 172 ConP: MA 261			
<input type="checkbox"/>	EE 202	Linear Circuit Analysis II	3	EE 201 (C) ConP: MA 266			
<input type="checkbox"/>	EE 207	Electronic Measurement Techniques Lab	1	ConP: EE 201			
<input type="checkbox"/>	EE 208	Electronic Devices and Design Laboratory	1	EE 207 ConP: EE 255			
<input type="checkbox"/>	EE 255	Introduction to Electronic Analysis and Design	3	EE 201 (C)			
<input type="checkbox"/>	EE 270	Introduction to Digital System Design	4	ConP: EE 201			
<input type="checkbox"/>	EE 301	Signals and Systems	3	EE 202 (C), MA 266			
<input type="checkbox"/>	EE 302	Probabilistic Methods in Electrical and Computer Engineering	3	MA 266 ConP: EE 301			
<input type="checkbox"/>	EE 311	Electric and Magnetic Fields	3	EE 201, PHYS 272, MA 266			

Name:	
UID:	
Date:	

### Electrical Engineering Seminars (1 credit)

<u>Course Code</u>	<u>Course Title</u>	<u>CR</u>	<u>Pre-Req, ConP</u>	<u>Other Information</u>	<u>Semester</u>	<u>Comments</u>
<input type="checkbox"/> EE 200	Electrical and Computer Engineering Sophomore Seminar	0	Sophomore			
<input type="checkbox"/> EE 400	Professional Development and Career Guidance - Graduation Project I	1	EE 200, Senior			

### Senior Design Requirement (3-4 credit)

<u>Course Code</u>	<u>Course Title</u>	<u>CR</u>	<u>Pre-Req, ConP</u>	<u>Other Information</u>	<u>Semester</u>	<u>Comments</u>
<input type="checkbox"/> EE 402	Electrical Engineering Design Projects	3	EE 400, EE Core Curriculum, Senior			
<input type="checkbox"/> CE 477	Digital Systems Senior Project	4	CE 400 or EE 400, EE Core Curriculum or CE Core Curriculum, Senior			

### Advanced Electrical Engineering Selectives (9-11 credits)

<u>Course Code</u>	<u>Course Title</u>	<u>CR</u>	<u>Pre-Req, ConP</u>	<u>Other Information</u>	<u>Semester</u>	<u>Comments</u>
<input type="checkbox"/> EE 305	Semiconductor Devices	3	EE 255 , PHYS 272, MA 266			
<input type="checkbox"/> EE 321	Electromechanical Motion Devices	3	EE 202, PHYS 272 ConP: EE 255			
<input type="checkbox"/> EE 382	Feedback System Analysis and Design	3	EE 301			
<input type="checkbox"/> EE 438	Digital Signal Processing with Applications	4	EE 301, EE 208, EE 302			
<input type="checkbox"/> EE 440	Transmission of Information	4	EE 301, EE 208, EE 302			
<input type="checkbox"/> CE 362	Microprocessor Systems and Interfacing	4	EE 270 (C ) or CE 270 (C), CS 159			

Name:	
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Date:	

### Electrical Engineering Electives (7-10 credits)

<u>Course Code</u>	<u>Course Title</u>	<u>CR</u>	<u>Pre-Req, ConP</u>	<u>Other Information</u>	<u>Semester</u>	<u>Comments</u>
<input type="checkbox"/>						
<input type="checkbox"/>						
<input type="checkbox"/>						
<input type="checkbox"/>						

Electrical Engineering Laboratory Requirement: Three (3) Electrical Engineering Upper-Level Laboratory courses or Electrical Engineering courses with laboratory components in addition to those required as part of the Electrical Engineering Core Curriculum (EE 207, 208, and 270). Courses with laboratory components taken as Advanced Electrical Engineering Electives, EE 362, 438 and 440, also contribute to this requirement.

Electrical Engineering Credits Planned: \_\_\_\_\_

Electrical Engineering Credits Completed: \_\_\_\_\_

Electrical Engineering Credits Remaining: \_\_\_\_\_

### General Engineering (7 credits)

#### Introduction to Engineering (4 credits)

<u>Course Code</u>	<u>Course Title</u>	<u>CR</u>	<u>Pre-Req, ConP</u>	<u>Other Information</u>	<u>Semester</u>	<u>Comments</u>
<input type="checkbox"/>	ENGR 131	Transforming Ideas to Innovation I	2	-		
<input type="checkbox"/>	ENGR 132	Transforming Ideas to Innovation II	2	ENGR 131		
OR						
<input type="checkbox"/>	ENGR 100	First-Year Engineering Lectures	1	-		
<input type="checkbox"/>	ENGR 126	Engineering Problem Solving and Computer Tools	3	-		

Name:	
UID:	
Date:	

### Engineering Breadth Requirement (3 credits)

<u>Course Code</u>	<u>Course Title</u>	<u>CR</u>	<u>Pre-Req, ConP</u>	<u>Other Information</u>	<u>Semester</u>	<u>Comments</u>
<input type="checkbox"/> ENGR 200	Thermodynamics I	3	CHM 115, ConP: MA 261, ENGR 132			
<input type="checkbox"/> ENGR 297	Basic Mechanics I (Statics)	3	PHYS 172, ConP: MA 261			
<input type="checkbox"/> IE 335	Operation Research Optimization	3	MA 265, ConP: EE 302 or CE 302 or IE 332			
<input type="checkbox"/> IE 336	Operation Research Stochastic Models	3	MA 265, IE 230 ConP: EE 302 or CE 302 or IE 332, MA 266			

General Engineering Credits Planned: \_\_\_\_\_

General Engineering Credits Completed: \_\_\_\_\_

General Engineering Credits Remaining: \_\_\_\_\_

### Mathematics Requirement (18 credits)

<u>Course Code</u>	<u>Course Title</u>	<u>CR</u>	<u>Pre-Req, ConP</u>	<u>Other Information</u>	<u>Semester</u>	<u>Comments</u>
<input type="checkbox"/> MA 165	Analytic Geometry and Calculus I	4	Passing Math Placement Test or MAT 110 or MA 158			
<input type="checkbox"/> MA 166	Analytic Geometry And Calculus II	4	MA 165			
<input type="checkbox"/> MA 261	Multivariate Calculus	4	MA 166			
<input type="checkbox"/> MA 265	Linear Algebra	3	MA 166			
<input type="checkbox"/> MA 266	Ordinary Differential Equations	3	MA 261			

Mathematics Credits Planned: \_\_\_\_\_

Mathematics Credits Completed: \_\_\_\_\_

Mathematics Credits Remaining: \_\_\_\_\_

Name:	
UID:	
Date:	

### Science Requirement (18-19 credits)

Core (15 credits)

<u>Course Code</u>	<u>Course Title</u>	<u>CR</u>	<u>Pre-Req, ConP</u>	<u>Other Information</u>	<u>Semester</u>	<u>Comments</u>
<input type="checkbox"/> CS 159	Programming Applications for Engineers	3	ENGR 131			
<input type="checkbox"/> CHM 115	General Chemistry I	4	ConP: MA 165			
<input type="checkbox"/> PHYS 172	Modern Mechanics	4	ConP: MA 165			
<input type="checkbox"/> PHYS 272	Electric And Magnetic Interactions	4	PHYS 172, ConP: MA 166			

Science Electives (3-4 credits)

<u>Course Code</u>	<u>Course Title</u>	<u>CR</u>	<u>Pre-Req, ConP</u>	<u>Other Information</u>	<u>Semester</u>	<u>Comments</u>
<input type="checkbox"/> BIOL 110	Fundamentals of Biology I	4	-			
<input type="checkbox"/> CHM 116	General Chemistry II	4	CHM 115			
<input type="checkbox"/> PHYS 322	Intermediate Optics	3	Pre: PHYS 272 or PHYS 241			
<input type="checkbox"/> PHYS 342	Modern Physics	3	Pre: PHYS 272 or PHYS 241			

Science Credits Planned: \_\_\_\_\_

Science Credits Completed: \_\_\_\_\_

Science Credits Remaining: \_\_\_\_\_

Name:	
UID:	
Date:	

Liberal Arts Requirements (28 credits)

English Language and Communication Skills (10 credits)

<u>Course Code</u>	<u>Course Title</u>	<u>CR</u>	<u>Pre-Req, ConP</u>	<u>Other Information</u>	<u>Semester</u>	<u>Comments</u>
<input type="checkbox"/> COM 114	Fundamentals of Speech Communication	3	ENGL 100			
<input type="checkbox"/> ENGL 100	English for Academic Studies	3	-			
<input type="checkbox"/> ENGL 106	First-Year Composition	4	ENGL 100			

General Education Electives (18 credits)

<u>Course Code</u>	<u>Course Title</u>	<u>CR</u>	<u>Pre-Req, ConP</u>	<u>Other Information</u>	<u>Semester</u>	<u>Comments</u>
<input type="checkbox"/>						
<input type="checkbox"/>						
<input type="checkbox"/>						
<input type="checkbox"/>						
<input type="checkbox"/>						
<input type="checkbox"/>						
<input type="checkbox"/>						

Liberal Arts Credits Planned: \_\_\_\_\_

Liberal Arts Credits Completed: \_\_\_\_\_

Liberal Arts Credits Remaining: \_\_\_\_\_

Name:	
UID:	
Date:	

Complementary Electives (up to 13 credits)

<u>Course Code</u>	<u>Course Title</u>	<u>CR</u>	<u>Pre-Req. ConP</u>	<u>Other Information</u>	<u>Semester</u>	<u>Comments</u>
<input type="checkbox"/>						
<input type="checkbox"/>						
<input type="checkbox"/>						
<input type="checkbox"/>						
<input type="checkbox"/>						
<input type="checkbox"/>						

Complementary Electives Credits Planned: \_\_\_\_\_

Complementary Electives Credits Completed: \_\_\_\_\_

Complementary Electives Credits Remaining: \_\_\_\_\_

Minimum Total Credits Required for Degree: 128

Total Credits Planned: \_\_\_\_\_

Total Credits Completed: \_\_\_\_\_

Total Credits Remaining: \_\_\_\_\_