

Bachelor of Science in Computer Engineering

3.2.3 Worksheet

Computer Engineering Requirements (at least 50 credits)

Computer Engineering Core (32 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"/>	CE 201	Linear Circuit Analysis I	3	ENGR 131, MA 166 (C-), PHYS 172 ConP: MA 261			
<input type="checkbox"/>	CE 207	Electronic Measurement Techniques Lab	1	ConP: CE 201			
<input type="checkbox"/>	CE 202	Linear Circuit Analysis II	3	CE 201 (C) ConP: MA 266			
<input type="checkbox"/>	CE 270	Introduction to Digital System Design	4	ConP: CE 201			
<input type="checkbox"/>	CE 255	Introduction to Electronic Analysis and Design	3	CE 201 (C)			
<input type="checkbox"/>	CE 208	Electronic Devices and Design Laboratory	1	CE 207 ConP: CE 255			
<input type="checkbox"/>	CE 301	Signals and Systems	3	CE 202 (C), MA 266			
<input type="checkbox"/>	CE 264	Advanced C Programming	3	CS 159 (C-)			
<input type="checkbox"/>	CE 362	Microprocessor Systems and Interfacing	4	EE 270 (C) or CE 270 (C), CS 159			
<input type="checkbox"/>	CE 368	Data Structures	3	CE 264 (C-)			
<input type="checkbox"/>	CE 364	Software Engineering Tools Laboratory	1	CE 264			
<input type="checkbox"/>	CE 302	Probabilistic Methods in Electrical and Computer Engineering	3	MA 266 ConP: CE 301			

Name:	
UID:	
Date:	

Computer Engineering Seminars (1 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"/> CE 200	Electrical and Computer Engineering Sophomore Seminar	0	Sophomore			
<input type="checkbox"/> CE 400	Professional Development and Career Guidance - Graduation Project I	1	CE 200, Senior			

Advanced CE Selectives (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"/> CE 337	ASIC Design Laboratory	2	EE 270 (C) or CE 270 (C)			
<input type="checkbox"/> CE 437	Computer Design and Prototyping	4	CE 337, CE 362			

4 credits from below courses:

<input type="checkbox"/> CE 468	Introduction to Compilers and Translation Engineering	4	CE 362, CE 368			
<input type="checkbox"/> CE 469	Operating System Engineering	4	CE 368, CE 437			

Senior Design Requirement (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"/> CE 477	Digital Systems Senior Project	4	CE 400 or EE 400, EE Core Curriculum or CE Core Curriculum, Senior			

Name:	
UID:	
Date:	

Computer Engineering Electives (at least 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"/>						
<input type="checkbox"/>						
<input type="checkbox"/>						
<input type="checkbox"/>						

Computer Engineering Credits Planned: _____

Computer Engineering Credits Completed: _____

Computer Engineering Credits Remaining: _____

General Engineering (10 credits)

Introduction to Engineering (7 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		

<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 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			
<input type="checkbox"/> ME 200	Thermodynamics I	3	Pre: CHM 115 ConP: MA 261, ENGR 132			

General Engineering Credits Planned: _____
 General Engineering Credits Completed: _____
 General Engineering Credits Remaining: _____

Mathematics Requirement (21 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			
<input type="checkbox"/> MA 369	Discrete Mathematics for Computer Engineering	3	CE 270			

Mathematics Credits Planned: _____
 Mathematics Credits Completed: _____
 Mathematics Credits Remaining: _____

Name:	
UID:	
Date:	

Science Requirement (15-16 credits)

Core (12 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"/> 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"/> ENGL 100	English for Academic Studies	3	-			
<input type="checkbox"/> ENGL 106	First-Year Composition	4	ENGL 100			
<input type="checkbox"/> COM 114	Fundamentals of Speech Communication	3	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"/>						
<input type="checkbox"/>						
<input type="checkbox"/>						
<input type="checkbox"/>						

Liberal Arts Credits Planned: _____
 Liberal Arts Credits Completed: _____
 Liberal Arts Credits Remaining: _____

AUM reserves the right to change program content, course requirements, materials, and/or schedules as deemed necessary



Name:	
UID:	
Date:	

Complementary 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"/>							
<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: _____