

Name:	
UID:	
Date:	

Bachelor of Science in Chemical Engineering

3.5.3 Worksheet

Chemical Engineering (CHE) Requirements (69 credit hours)

Chemical Engineering Core (39 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"/>	CHE 200	Chemical Engineering Sophomore Seminar	1	Sophomore			
<input type="checkbox"/>	CHE 205	Chemical Engineering Calculations	4	ENGR 131, PHYS 172, MA 165, ConP: CHM 116	Min Passing grade C		
<input type="checkbox"/>	CHE 211	Introductory Chemical Engineering Thermodynamics	4	CHE 205, MA 261			
<input type="checkbox"/>	CHE 300	Chemical Engineering Junior Seminar	1	CHE 200, Junior			
<input type="checkbox"/>	CHE 306	Design of Staged Separation Processes	3	CHE 211			
<input type="checkbox"/>	CHE 320	Statistical Modeling and Quality Enhancement	3	CHE 205, ConP: MA 265,			
<input type="checkbox"/>	CHE 348	Chemical Reaction Engineering	4	CHE 211, MA 265, MA 266, ConP: CHM 261			
<input type="checkbox"/>	CHE 377	Momentum Transfer	4	CHE 211, ConP: MA 266			
<input type="checkbox"/>	CHE 378	Heat and Mass Transfer	4	CHE 211, CHE 377			
<input type="checkbox"/>	CHE 400	Chemical Engineering Senior Seminar	1	CHE 300, Senior ConP: CHE 456			

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	<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"/>	CHE 420	Process Safety Management	3	ConP: CHE 348, CHE 378			
<input type="checkbox"/>	CHE 435	Chemical Engineering Laboratory	4	CHE 306, CHE 320, CHE 348, CHE 378			
<input type="checkbox"/>	CHE 456	Process Dynamics and Control	3	CHE 377, ConP: CHE 348, CHE 378			

Senior Design (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"/>	CHE 450	Design and Analysis of Processing Systems	4	CHE 306, CHE 378, CHE 400 ConP: CHE 435			

Chemical Engineering Science Core (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"/>	CHM 261	Organic Chemistry I	3	CHM 116			
<input type="checkbox"/>	CHM 262	Organic Chemistry II	3	CHM 261			
<input type="checkbox"/>	CHM 263	Organic Chemistry Laboratory I	1	ConP: CHM 261			
<input type="checkbox"/>	CHM 264	Organic Chemistry Laboratory II	1	CHM 263, ConP: CHM 262			
<input type="checkbox"/>	CHM 370	Physical Chemistry	3	CHE 211, MA 261, PHYS 241, CHM 116			

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Chemical Engineering Selectives (15 credits)

Biology Selective (3 credits): please refer to degree requirement and course catalogue

<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"/>						

Mathematics Selectives (6 credits) please refer to degree requirement and course catalogue

<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 265	Linear Algebra	3	MA 166		
<input type="checkbox"/>	MA 266	Ordinary Differential Equations	3	MA 261		

Chemical Engineering Elective (3 credits) please refer to degree requirement and course catalogue

<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"/>						

Technical Elective (3 credits) please refer to degree requirement and course catalogue

<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"/>						

Chemical Engineering Credits Planned: _____

Chemical Engineering Credits Completed: _____

Chemical Engineering Credits Remaining: _____

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Date:	

General Engineering Requirement (10 credit hours)

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			

Engineering Elective (6 credits) please refer to degree requirement and course catalogue

	<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"/>							

General Engineering Credits Planned: _____

General Engineering Credits Completed: _____

General Engineering Credits Remaining: _____

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Mathematics Requirements (12 credit hours)

	<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			

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

Science Requirement (15 credit hours)

	<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"/>	CHM 116	General Chemistry II	4	CHM 115			
<input type="checkbox"/>	PHYS 172	Modern Mechanics	4	ConP: MA 165			
<input type="checkbox"/>	PHYS 241	Electricity and Optics	3	Pre: PHYS 172			

Science Credits Planned: _____
 Science Credits Completed: _____
 Science Credits Remaining: _____

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Liberal Arts Requirements (28 credit hours)

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			

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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>
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Liberal Arts Credits Planned: _____

Liberal Arts Credits Completed: _____

Liberal Arts Credits Remaining: _____

Minimum Total Credits Required for Degree: 134

Total Credits Planned: _____

Total Credits Completed: _____

Total Credits Remaining: _____