

Engineering Physics, Chemical Engineering Option, 2011-2012 Catalog

<i>Student Name:</i>				
<i>Student Number:</i>				
<i>Catalog Year:</i>				
Course	Course Name	Credits (132)	Completed Grade	Notes
<i>Physics Requirements</i>		36		
Phys 213	Mechanics	3		
Phys 213L	Experimental Mechanics	1		
Phys 214	Electricity and Magnetism	3		
Phys 214L	Electricity and Magnetism Laboratory	1		
Phys 217	Heat, Light, and Sound	3		
Phys 217L	Experimental Heat, Light, and Sound	1		
Phys 315	Modern Physics	3		
Phys 315L	Experimental Modern Physics	3		
Phys 451	Intermediate Mechanics	3		
Phys 454	Intermediate Modern Physics I	3		
Phys 455	Intermediate Modern Physics II	3		
Phys 461	Intermediate Electricity and Magnetism I	3		
Phys 462	Intermediate Electricity and Magnetism II	3		
Phys 475	Advanced Physics Laboratory	3		
<i>Electives</i>		3		
Phys 395 or ChE elective		3		
<i>Chemical Engineering Requirements</i>		28		
ChE 111	Computer Calculations in Ch. E.	3		
ChE 201	Material and Energy Balances	4		
ChE 301	Chemical Engineering Thermodynamics I	3		
ChE 302	Chemical Engineering Thermodynamics II	3		
ChE 305	Transport Operations I: Fluid Flow	3		
ChE 306	Transport Operations II: Heat and Mass Transfer	3		
ChE 307	Transport Operations III: Staged Operations	3		
ChE 361	Engineering Materials	3		

ChE 441	Chemical Kinetics and Reaction Engineering	3		
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<i>Math Requirements</i>		14		
Math 191	Calculus and Analytic Geometry I	4		
Math 192	Calculus and Analytic Geometry II	4		
Math 291	Calculus and Analytic Geometry III	3		
Math 392	Ordinary Differential Equations	3		
<i>Natural Science Requirements</i>		20		
Chem. 115	Principles of Chemistry I	4		
Chem 116	Principles of Chemistry II	4		
Chem 313	Organic Chemistry I	3		
Chem 314	Organic Chemistry II	3		
Chem 315	Organic Chemistry Laboratory	2		
Chem 371	Analytical Chemistry	4		
<i>General Education Requirements</i>		31		
Engl. 111G	Rhetoric and Composition	4		
Written Communication		3		
Oral Communication		3		
Math Requirement	<i>(already counted in EP curriculum)</i>			
Natural Science I & II	<i>(already counted in EP curriculum)</i>			
Social and Behavioral Sciences		6-9		
Humanities and Fine Arts		6-9		
Viewing a Wider World I & II	<i>(Viewing a Wider World courses must not be in Engineering or Physics)</i>	6		
<i>Final Approvals and Date</i>	<i>Advisor:</i>			
	<i>Department Head:</i>			
	<i>Dean:</i>			