CHEMICAL ENGINEERING, MINOR

Minor Requirements (18 Hours)

The Chemical Engineering minor requires:

Course	Title	Credits
Required Courses (12 hours):		
ECHE 300	Chemical Process Principles	3
ECHE 311	Chemical Engineering Thermodynamics	3
ECHE 320	Chemical Engineering Fluid Mechanics	3
or ENCP 360	Fluid Mechanics	
ECHE 440	Separation Process Design	3
Chemical Engineering Minor Electives (6 hours) : 6 additional hours selected from:		**6**
Minor Electives that do not require MATH 242		
ECHE 372	Introduction to Materials	
ECHE 389	Special Topics in Chemical Engineering	
ECHE 521	Computational Fluid Dynamics for Engineering Applications	
ECHE 571	Corrosion Engineering	
ECHE 572	Polymer Processing	
ECHE 573	Next Energy	
ECHE 575	Engineering of Soft Materials	
ECHE 589	Special Advanced Topics in Chemical Engineering	
Minor Electives that require MATH 242 as pre-requisite		
ECHE 321	Heat-Flow Analysis [1]	
ECHE 430	Chemical Engineering Kinetics [2]	
ECHE 456	Computational Methods for Engineering Applications [3]	
ECHE 550	Chemical-Process Dynamics and Control [4]	
Total Credit Hours		**18**

[1] Requires MATH 242 as a pre-requisite, and ECHE 456 as a pre-requisite or co-requisite

[2] Requires ECHE 321 as a pre-requisite or co-requisite, or BMEN 354 as a pre-requisite.

[3] Requires MATH 242 as a pre-requisite or co-requisite

[4] Requires both MATH 242 and ECHE 456 as a pre-requisites