

Chemical Engineering Curriculum Nuclear Engineering Option

Freshman Year/Fall Semester		Cr.	Freshman Year/Spring Semester		Cr.
___ 25.107	Intro to Engineering I	2	___ 25.108	Intro to Engineering II	2
___ 42.101	(Gen. Ed.) College Writing I ⁺	3	___ 42.102	(Gen. Ed.) College Writing II ⁺	3
___ 84.121	Chemistry I ⁺	3	___ 84.122	Chemistry II ⁺	3
___ 84.123	Chemistry I Lab	1	___ 84.124	Chemistry II Lab	1
___ 92.131	Calculus I * ⁺	4	___ 92.132	Calculus II ⁺	4
___ . ___	(Gen. Ed.) SS (Social Science)	<u>3</u>	___ 95.141	Physics I ⁺	3
		16	___ 96.141	. Physics I Lab ⁺	<u>1</u>
					17
Sophomore Year/Fall Semester		Cr.	Sophomore Year/Spring Semester		Cr.
___ 10.201	Material Balances	3	___ 10.202	Energy Balances & Intro to Thermodynamics	3
___ 10.205	Fundam. of Electricity	3	___ 84.205	Organic Chemistry Lab	1
___ 84.221	Organic Chemistry I ⁺	3	___ 84.222	Organic Chemistry II ¹⁺	3
___ 92.231	Calculus III ⁺	4	___ 92.236	Differential Equations ⁺	3
___ . ___	(Gen. Ed.) AH (Arts/Humanities)	<u>3</u>	___ 92.385	Applied Statistics	3
		16	___ 49.201/202	(Gen. Ed.) SS Economics I/II	<u>3</u>
					16
Junior Year/Fall Semester		Cr.	Junior Year/Spring Semester		Cr.
___ 10.303	Fluid Mechanics	3	___ 10.304	Heat Transfer	3
___ 10.311	Chem. Eng. Thermodynamics	3	___ 10.308	Intro to Material. Sci. & Eng	3
___ 10.315	Unit Operations Lab I	2	___ 10.310	Separation Proc. w/ Mass Transfer	3
___ 10.317	Appl. Eng. Prob. Solving/Matlab	3	___ 10.316	Unit Operations Lab II	2
___ 84.344	Physical Chemistry I ²	3	___ 84.347	Physical Chemistry Lab	1
___ 24.331	Intro. to Nuclear Eng. I	<u>3</u>	___ 45.203/334	(Gen. Ed.) AH Ethics/Eng. Ethics	3
		17	___ 24 . 332	Inro. To Nuclear Eng.II	<u>3</u>
					18
Senior Year/Fall Semester		Cr.	Senior Year/Spring Semester		Cr.
___ 10.403	Chemical Reaction Engineering	3	___ 10.410	Plant Design	3
___ 10.409	Engineering Economics	3	___ 10.413	Process Dynamics & Control	3
___ 10.415	Process & Controls Lab	2	___ . ___	Chem. Eng. Tech Elective ³	3
___ 24.419	Reactor Operator Training OR		___ . ___	Technical Elective ³	3
___ . ___	(Gen Ed) AH (Arts/Humanities)	3	___ . ___	Advanced Chem. Elective	<u>3</u>
___ 24.431	Nuclear Reac. Systems & Oper.	<u>3</u>			15
		17			

Total minimum credits: 132

See reverse side for additional information.

Refer to the *Schedule of Classes* booklet for General Education requirements. The University General Education requirements must be satisfied. A General Education course that fulfills the Diversity requirement must be taken.

⁽¹⁾ The listed co-requisite, 84.229 or 84.230, Organic Chemistry Lab, is not required for Chemical Engineering majors. 84.205 is the required lab.

⁽²⁾ The listed co-requisite, 84.346, Physical Chemistry Lab, is not required for Chemical Engineering majors. 84.347 is the required lab.

⁽³⁾ Chemical Engineering Technical Electives, Advanced Chemical Electives and Technical Electives should be chosen from an approved list. Consult with your advisor.

*Calculus I A, and calculus I B instead of Calculus I, will be required for students that do not pass the Calculus Readiness Test.

⁺ Honor level courses may be taken instead.