

PERSON SUBMITTING: Douglas M. Price
 DEPARTMENT CHAIR: Scott C. Marting

EMAIL: dmp@ysu.edu PHONE: 3019
 DEGREE PROGRAM & LEVEL: Chemical Engineering, Bachelor of Engineering

Place required courses here

Curriculum Map for Chemical Engineering

<i>Math 1572, 1572, and 2683 Calc. I, 2 & 3</i>	<i>Math 3705 Differential Equations</i>	<i>CHEM 1515/L and 1516/L Gen. Chem 1 and 2</i>	<i>CHEM 3719/L and 3720/L Organic Chem 1 and 2</i>	<i>CHEM 3739/L Physical Chem 1</i>	<i>CHEM 3740/L Physical Chemistry 2 OR</i>	<i>CHEM 3785/L Biochemistry 1</i>	<i>PHYS 2610 and 2611 General Physics 1 and 2</i>	<i>PHIL 2609 Technology and Human Values 1 and 2</i>	<i>PHIL 2625 Intro. To Professional Ethics OR</i>	<i>PHIL 2626 Engineering Ethics OR</i>	<i>ENGL 1550 and 1551 Writing 1 and 2</i>	<i>CMST 1545 Communication Foundations</i>	<i>ENGR 1500 Engineering Orientation</i>	<i>ENGR 1550 Engineering Concepts</i>	<i>CHEM 2650 Computer Methods in Chem. Eng.</i>	<i>CHEM 2683 and 2684 Chem. Eng. Principles 1 & 2</i>	<i>CHEM 3771 & 3772 Chem. Eng. Thermo. 1 & 2</i>	<i>CHEM 3786 Transport Phenomena 1</i>	<i>CHEM 3787 Transport Phenomena Laboratory</i>	<i>CHEM 3787L & 4815L Unit Ops. 1</i>	<i>CHEM 4815 Unit Ops. Lab</i>
---	---	---	--	------------------------------------	--	-----------------------------------	---	--	---	--	---	--	--	---------------------------------------	---	---	--	--	---	---	--------------------------------

Learning Outcome	Math 1572, 1572, and 2683 Calc. I, 2 & 3	Math 3705 Differential Equations	CHEM 1515/L and 1516/L Gen. Chem 1 and 2	CHEM 3719/L and 3720/L Organic Chem 1 and 2	CHEM 3739/L Physical Chem 1	CHEM 3740/L Physical Chemistry 2 OR	CHEM 3785/L Biochemistry 1	PHYS 2610 and 2611 General Physics 1 and 2	PHIL 2609 Technology and Human Values 1 and 2	PHIL 2625 Intro. To Professional Ethics OR	PHIL 2626 Engineering Ethics OR	ENGL 1550 and 1551 Writing 1 and 2	CMST 1545 Communication Foundations	ENGR 1500 Engineering Orientation	ENGR 1550 Engineering Concepts	CHEM 2650 Computer Methods in Chem. Eng.	CHEM 2683 and 2684 Chem. Eng. Principles 1 & 2	CHEM 3771 & 3772 Chem. Eng. Thermo. 1 & 2	CHEM 3786 Transport Phenomena 1	CHEM 3787 Transport Phenomena Laboratory	CHEM 3787L & 4815L Unit Ops. 1	CHEM 4815 Unit Ops. Lab	
An ability to apply knowledge of math, science, and engineering	K	A	K	A	S	S	S	K						K	K	K	A	A	A	A	A	S	S
An ability to design and conduct experiments, as well as analyze and interpret data		K	K	K	K	K	K													A		S	
An ability to design a system, component, or process to meet desired needs														K		K	K	K	A				S
An ability to function on multidisciplinary teams			K	K	K	K	K													A		S	

EMAIL COMPLETED MAP TO YSUASSESSMENT@YSU.EDU BY MARCH 30, 2012

Adapted from Boise State U. Curriculum Tip Sheet

Laboratory 1 & 2				
Plant Operations 2				
CHEN 4880 & 4881 Chem. Reactor Design 1 & 2				
CHEN 4882 Process Dynamics				
CHEN 4882L Process Dynamics Laboratory				
CHEN 4887 Process and Plant Design 1				
CHEN 4888 Process and Plant Design 2 (Capstone)				

S	S	S	S	S
		S		S
S			S	S
				S

KEY: K=knowledge/Comprehension; A=Application/Analysis;
S=Synthesis/Evaluation

S	S		S	S
			A	S
		A		S
			A	S
			S	S
			A	S
S	S	S	S	S

