

CHEMICAL ENGINEERING FOUR YEAR PLAN (136 credits)

2024-2025

<u>FALL</u>	<u>SPRING</u>	<u>FALL</u>	<u>SPRING</u>	<u>FALL</u>	<u>SPRING</u>	<u>FALL</u>	<u>SPRING</u>
MATH 1510 (4) Calc. I <u>MATH 1230 & 1240¹</u>	MATH 1520 (4) Calc. II <u>MATH 1510¹</u>	MATH 2532 (4) Calc. III <u>MATH 1520¹</u>	MATH 3035 (3) Diff. Equations <u>MATH 1520¹</u>	ES 3050 (3) Heat & Mass Xfer <u>ES 216, ES 3047</u> <u>MATH 3035</u>	CHE 3045L (1)** Junior Design <u>ES 3047, CHE 3026</u> <i>ES 3050</i>	CHE 4061 (3)* Chem. Plant Des. I <u>CHE 3051 & 3052</u>	CHE 4062 (3)** Chem. Plant Des. II <u>CHE 4061</u> <i>CHE 4085</i>
CHE 1010 & L (2)* Intro. To CHE	PHYS 1310 & L (5) Gen. Phys. I <i>MATH 1510</i>	CHE 3026 (3)* Prin. Of CHE I <u>CHEM 1215</u> <i>MATH 1520</i>	CHE 3027 (3)** Prin. Of CHE II <u>CHE 3026</u> <i>MATH 2532</i>	CHE 3049 (3)* CHE Thermo. <u>MATH 2532</u> <u>PHYS 1310, CHEM 1215</u>	CHE 3051 (3)** Chem. Proc. Kin. <u>CHE 3026 & 3049</u> <u>MATH 3035, ES 3050</u>	CHE 4045L (1)* Unit Ops Lab <u>CHE 3051 & 3052</u>	ES 3032⁴ (3) Elec. Eng <u>PHYS 1320, MATH 1520</u>
CHEM 1215 & L (4) Gen. Chem. I <u>MATH 1220¹</u>	CHEM 1225 & L (4) Gen. Chem. II <u>CHEM 1215&L</u> <i>MATH 1510</i>	ES 201 (3) Statics <u>PHYS 1310</u> <i>MATH 2532</i>	ES 216 (3) Fluid Mechanics <u>PHYS 1310</u> <i>MATH 2532</i>	ES 3002 (3) Mech. Of Materials <u>ES 201, MATH 2532</u>	CHE 3052 (3)** Separation Proc. <u>CHE 3026 & 3049</u> <i>ES 3050</i>	CHE 3071 (3)* Sol. Meth. CHE <u>CHE 3027, 3051, & 3052</u>	CHE 4043 & L (3)** Proc. Dyn. & Cont. <u>MATH 3035</u> <i>CHE 3071</i>
ENGL 1110 (3) College Writ. I	ENGL 1120 (3) College Writ. II <u>ENGL 1110²</u>	CHEM 3011 & L (4)* Quantitative Analy. <u>CHEM 1225¹</u>	ES 3047 (3) Thermodynamics <u>CHEM 1225, PHYS 1310</u> <u>MATH 1520</u>	ES 4005L (1) Inst., Meas., Lab <u>CHE 3027, PHYS 1320</u>	MTLS 202³ & L (4) Materials Eng. <u>CHEM 1225</u>	CHEM 3033 & L (4)* Org. Chem. I <u>CHEM 1225¹</u>	Eng./Tech Elec. (3)
Hum/SS/FA (3)		Hum/SS/FA (3)	PHYS 1320 & L (5) Gen. Phys. II <u>PHYS 1310</u> <i>MATH 1520</i>	CHEM 3031 & L (4)* Phys. Chem. I <u>CHEM 1225¹</u> <u>PHYS 1320, MATH 1520</u>	ENGL 3041 (3) Tech. Writing <u>ENGL 1110 & 1120²</u>	Eng./Tech Elec. (3)	Hum/SS/FA (3)
				Hum/SS/FA (3)	Eng./Tech Elec. (3)	Hum/SS/FA (3)	CHE 4085 (1)** Senior Seminar <i>CHE 4062</i>
<u>16</u>	<u>16</u>	<u>17</u>	<u>17</u>	<u>17</u>	<u>17</u>	<u>17</u>	<u>19</u>



KEY: The four lines for each course include: the course number and number of credits (line 1), abbreviated course title (line 2), and pre- and corequisites (lines 3&4).

¹ Requires pre-req is passed with a C- or better

² Requires pre-req is passed with a C or better

³ MTLS 202&L may be replaced by MTLS 235&L

⁴ EE 211 may be substituted for ES 3032. Note that ES 211 is a fall only course.

* Fall Only, ** Spring Only

Pre-requisites are denoted by underline.

Corequisites are denoted by italics.

NAME:
