

**CHEMICAL ENGINEERING FOUR YEAR PLAN (136 credits)**

2023-2024

<u>FALL</u>	<u>SPRING</u>	<u>FALL</u>	<u>SPRING</u>	<u>FALL</u>	<u>SPRING</u>	<u>FALL</u>	<u>SPRING</u>
<b>MATH 1510 (4)</b> Calc. I <u>MATH 1230 &amp; 1240<sup>1</sup></u>	<b>MATH 1520 (4)</b> Calc. II <u>MATH 1510<sup>1</sup></u>	<b>MATH 2532 (4)</b> Calc. III <u>MATH 1520<sup>1</sup></u>	<b>MATH 3035 (3)</b> Diff. Equations <u>MATH 1520<sup>1</sup></u>	<b>ES 3050 (3)</b> Heat & Mass Xfer <u>ES 216, ES 3047</u> <u>MATH 3035</u>	<b>CHE 3045L (1)**</b> Junior Design <u>ES 3047, CHE 3026</u> <i>ES 3050</i>	<b>CHE 4061 (3)*</b> Chem. Plant Des. I <u>CHE 3051 &amp; 3052</u>	<b>CHE 4062 (3)**</b> Chem. Plant Des. II <u>CHE 4061</u> <i>CHE 4085</i>
<b>CHE 1010 &amp; L (2)*</b> Intro. To CHE	<b>PHYS 1310 &amp; L (5)</b> Gen. Phys. I  <i>MATH 1510</i>	<b>CHE 3026 (3)*</b> Prin. Of CHE I <u>CHEM 1215</u> <i>MATH 1520</i>	<b>CHE 3027 (3)**</b> Prin. Of CHE II <u>CHE 3026</u> <i>MATH 2532</i>	<b>CHE 3049 (3)*</b> CHE Thermo. <u>MATH 2532</u> <u>PHYS 1310, CHEM 1215</u>	<b>CHE 3051 (3)**</b> Chem. Proc. Kin. <u>CHE 3026 &amp; 3049</u> <u>MATH 3035, ES 3050</u>	<b>CHE 4045L (1)*</b> Unit Ops Lab <u>CHE 3051 &amp; 3052</u>	<b>ES 3032<sup>4</sup> (3)</b> Elec. Eng <u>PHYS 1320, MATH 1520</u>
<b>CHEM 1215 &amp; L (4)</b> Gen. Chem. I <u>MATH 1220<sup>1</sup></u>	<b>CHEM 1225 &amp; L (4)</b> Gen. Chem. II <u>CHEM 1215&amp;L</u> <i>MATH 1510</i>	<b>ES 201 (3)</b> Statics <u>PHYS 1310</u> <i>MATH 2532</i>	<b>ES 216 (3)</b> Fluid Mechanics <u>PHYS 1310</u> <i>MATH 2532</i>	<b>ES 3002 (3)</b> Mech. Of Materials <u>ES 201, MATH 2532</u>	<b>CHE 3052 (3)**</b> Separation Proc. <u>CHE 3026 &amp; 3049</u> <i>ES 3050</i>	<b>CHE 3071 (3)*</b> Sol. Meth. CHE <u>CHE 3027, 3051, &amp; 3052</u>	<b>CHE 4043 &amp; L (3)**</b> Proc. Dyn. & Cont. <u>MATH 3035</u> <i>CHE 3071</i>
<b>ENGL 1110 (3)</b> College Writ. I	<b>ENGL 1120 (3)</b> College Writ. II <u>ENGL 1110<sup>2</sup></u>	<b>CHEM 3011 &amp; L (4)*</b> Quantitative Analy. <u>CHEM 1225<sup>1</sup></u>	<b>ES 3047 (3)</b> Thermodynamics <u>CHEM 1225, PHYS 1310</u> <u>MATH 1520</u>	<b>ES 4005L (1)</b> Inst., Meas., Lab <u>CHE 3027, PHYS 1320</u>	<b>MTLS 202<sup>3</sup> &amp; L (4)</b> Materials Eng. <u>CHEM 1225</u>	<b>CHEM 3033 &amp; L (4)*</b> Org. Chem. I <u>CHEM 1225<sup>1</sup></u>	<b>Eng./Tech Elec. (3)</b>
<b>Hum/SS/FA (3)</b>		<b>Hum/SS/FA (3)</b>	<b>PHYS 1320 &amp; L (5)</b> Gen. Phys. II <u>PHYS 1310</u> <u>MATH 1520</u>	<b>CHEM 3031 &amp; L (4)*</b> Phys. Chem. I <u>CHEM 1225<sup>1</sup></u> <u>PHYS 1320, MATH 1520</u>	<b>ENGL 3041 (3)</b> Tech. Writing <u>ENGL 1110 &amp; 1120<sup>2</sup></u>	<b>Eng./Tech Elec. (3)</b>	<b>Hum/SS/FA (3)</b>
				<b>Hum/SS/FA (3)</b>	<b>Eng./Tech Elec. (3)</b>	<b>Hum/SS/FA (3)</b>	<b>Hum/SS/FA (3)</b>
						<b>Hum/SS/FA (3)</b>	<b>CHE 4085 (1)**</b> 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).

<sup>1</sup> Requires pre-req is passed with a C- or better

<sup>2</sup> Requires pre-req is passed with a C or better

<sup>3</sup> MTLs 202&L may be replaced by MTLs 235&L

<sup>4</sup> 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: \_\_\_\_\_