

# CHEMICAL ENGINEERING

Recommended Sequence of Courses for Students Completing the Materials Engineering Certificate  
Curriculum for Students Entering AFTER June 2019

First-Year		Sophomore		Junior		Senior	
Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring
<input type="checkbox"/> (3credits) ENGLWP 112  <input type="checkbox"/> (3) ENGIN 110  <input type="checkbox"/> (4) MATH 131  <input type="checkbox"/> (4) CHEM 111  <input type="checkbox"/> (4) *Social World Elective  <input type="checkbox"/> (1) **ENGIN 191 – Freshman Seminar	<input type="checkbox"/> (3)  ChE 120 Fundamentals  <input type="checkbox"/> (4)  PHYSIC 151  <input type="checkbox"/> (4)  MATH 132  <input type="checkbox"/> (4)  CHEM 112	<input type="checkbox"/> (4) PHYSIC 152  <input type="checkbox"/> (3)  ChE 226 Thermo I  <input type="checkbox"/> (4)  ***ChE 220 – BIO Requirement  <input type="checkbox"/> (4)  MATH 233  <input type="checkbox"/> (3)  CHEM 261	<input type="checkbox"/> (3)  ChE 231  <input type="checkbox"/> (3)  ChE 325 Thermo II  <input type="checkbox"/> (3)  MATH 331  <input type="checkbox"/> (3)  CHEM 262  <input type="checkbox"/> (2)  CHEM 269  <input type="checkbox"/> (3)  MIE 201	<input type="checkbox"/> (3)  ENGIN 351  <input type="checkbox"/> (3)  ChE 320 Kinetics  <input type="checkbox"/> (3)  ChE 330 Fluid Mechanics  <input type="checkbox"/> (3)  ChE 475 (PChem)  <input type="checkbox"/> (4)  Social World Elective	<input type="checkbox"/> (3)  ChE 333 Heat and Mass Transfer  <input type="checkbox"/> (3)  ChE 338 Separations  <input type="checkbox"/> (3)  Adv CHEM Elec. (Suggested - Polymer 501)  <input type="checkbox"/> (3)  ChE/MIE 571  <input type="checkbox"/> (1)  ChE/MIE 572  <input type="checkbox"/> (1)  ChE 573	<input type="checkbox"/> (4)  ****ChE 401*Senior Lab  <input type="checkbox"/> (3)  ChE 444 Chem Process Design I  <input type="checkbox"/> (3)  ChE 446 Process Control  <input type="checkbox"/> (3)  MIE 609 or equivalent	<input type="checkbox"/> (4)  ChE 402  <input type="checkbox"/> (2)  ChE 447 Chem Process Design Project  <input type="checkbox"/> (3)  ChE/MIE 579 or equivalent  <input type="checkbox"/> (4)  Social World Elective  <input type="checkbox"/> (4)  Social World Elective
19 Credits	15 Credits	18 Credits	17 Credits	16 Credits	14 Credits	13 Credits	17 Credits

\* All entering students, freshmen and transfers, are required to take one of their two required diversity courses within their first year on campus.

\*\* All Engineering students are required to enroll in a 1-credit Freshman Seminar in their first semester.

\*\*\* All ChE majors are expected to take ChE 220. Exceptions: 1.) We will accept AP Bio, which transfers in as Bio 110, 2.) We will accept Bio 190H, and 3.) We will accept Bio 151 taken previously, or as a transfer course, which is equivalent to Bio 151. Any other exception requests: contact Tami (112E Goessmann) and the instructor. All exception requests will be considered on an individual basis.

\*\*\*\*Completion of a General Education Integrative Experience (IE) course is a senior year requirement for all students who entered the University after June 2010. ChE 401 will fulfill the IE requirement.