

CHEMICAL ENGINEERING

Recommended Sequence of Courses for Students Completing the Materials Engineering Certificate
Curriculum for Students Entering AFTER June 2018

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"/> (1) ChE 291A Professional Seminar <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"/> (1) ChE 391A Professional Seminar <input type="checkbox"/> (3) ChE 475 (PChem)	<input type="checkbox"/> (3) ChE 333 Heat and Mass Transfer <input type="checkbox"/> (3) ChE 338 Separations <input type="checkbox"/> (4) Social World Elective <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"/> (1) ChE 491A Professional Seminar <input type="checkbox"/> (3) MIE 609 or equivalent	<input type="checkbox"/> (4) ChE 402 <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	19 Credits	17 Credits	13 Credits	18 Credits	14 Credits	15 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.