

# 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) ChE 120 Fundamentals	<input type="checkbox"/> (4) PHYSIC 152	<input type="checkbox"/> (3) ChE 231	<input type="checkbox"/> (3) ENGIN 351	<input type="checkbox"/> (3) ChE 333 Heat and Mass Transfer	<input type="checkbox"/> (4) ***ChE 401*Senior Lab	<input type="checkbox"/> (4) ChE 402
<input type="checkbox"/> (3) ENGIN 110	<input type="checkbox"/> (4) PHYSIC 151	<input type="checkbox"/> (1) ChE 291A Professional Seminar	<input type="checkbox"/> (3) ChE 325 Thermo II	<input type="checkbox"/> (3) ChE 320 Kinetics	<input type="checkbox"/> (3) ChE 338 Separations	<input type="checkbox"/> (3) ChE 444 Chem Process Design I	<input type="checkbox"/> (3) ChE/MIE 579 or equivalent
<input type="checkbox"/> (4) MATH 131	<input type="checkbox"/> (4) MATH 132	<input type="checkbox"/> (3) ChE 226 Thermo I	<input type="checkbox"/> (3) MATH 331	<input type="checkbox"/> (3) ChE 330 Fluid Mechanics	<input type="checkbox"/> (4) Social World Elective	<input type="checkbox"/> (3) ChE 446 Process Control	<input type="checkbox"/> (3) ChE 444 Chem Process Design I
<input type="checkbox"/> (4) CHEM 111	<input type="checkbox"/> (4) MATH 132	<input type="checkbox"/> (4) **ChE 220 – BIO Requirement	<input type="checkbox"/> (3) CHEM 262	<input type="checkbox"/> (1) ChE 391A Professional Seminar	<input type="checkbox"/> (3) Adv CHEM Elec. (Suggested - Polymer 501)	<input type="checkbox"/> (1) ChE 491A Professional Seminar	<input type="checkbox"/> (4) Social World Elective
<input type="checkbox"/> (4) *Social World Elective	<input type="checkbox"/> (4) CHEM 112	<input type="checkbox"/> (3) MATH 233	<input type="checkbox"/> (2) CHEM 269	<input type="checkbox"/> (3) ChE 475 (PChem)	<input type="checkbox"/> (3) ChE/MIE 571	<input type="checkbox"/> (3) MIE 609 or equivalent	<input type="checkbox"/> (4) Social World Elective
<input type="checkbox"/> (3) ChE 291A Professional Seminar	<input type="checkbox"/> (3) ChE 226 Thermo I	<input type="checkbox"/> (3) MATH 233	<input type="checkbox"/> (3) MIE 201	<input type="checkbox"/> (3) ChE/MIE 572	<input type="checkbox"/> (1) ChE 573	<input type="checkbox"/> (3) MIE/ChE 590F or equivalent	<input type="checkbox"/> (4) Social World Elective
18 Credits	15 Credits	18 Credits	17 Credits	13 Credits	18 Credits	15 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 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.