

<u>First Year Composition</u>	<u>Chem & Bio Requirements</u>	<u>Physics Requirements</u>	<u>Mathematics Requirements</u>	<u>Engineering Requirements</u>
<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> FYC ENG 101 or 107 First-Year Comp (3) Completed: _____ </div> <div style="text-align: center;">↓</div> <div style="border: 1px solid black; padding: 5px;"> FYC ENG 102 or 108 First-Year Comp (3) Completed: _____ </div>	<div style="display: flex; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg); font-size: small; margin-right: 5px;">Prerequisite</div> <div style="border: 1px solid black; padding: 5px; flex-grow: 1;"> CHM 130/130LL General Chem I (4) Completed: _____ </div> </div> <div style="text-align: center;">↓</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> CHM 151/151LL General Chem I (4) Completed: _____ </div> <div style="text-align: center;">↓</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> CHM 152/152LL General Chem II (4) Completed: _____ </div> <div style="text-align: center;">↓</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> CHM 235/235LL Organic Chem I (4) Completed: _____ </div> <div style="text-align: center;">↓</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> CHM 236 Organic Chem II (4) Completed: _____ </div> <div style="text-align: center;">↓</div> <div style="border: 1px solid black; padding: 5px;"> BIO 181 General Biology I (4) Completed: _____ </div>	<div style="display: flex; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg); font-size: small; margin-right: 5px;">Program Prerequisites</div> <div style="border: 1px solid black; padding: 5px; flex-grow: 1;"> PHY 111 General Physics I (4) Completed: _____ </div> </div> <div style="text-align: center;">↓</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> PHY 112 General Physics 2 (4) Completed: _____ </div> <div style="text-align: center;">↓</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> SQ PHY 121 Univ Physics I (4) Completed: _____ </div> <div style="text-align: center;">↓</div> <div style="border: 1px solid black; padding: 5px;"> SQ PHY 131 Univ Physics II (4) Completed: _____ </div>	<div style="display: flex; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg); font-size: small; margin-right: 5px;">Program Prerequisites</div> <div style="border: 1px solid black; padding: 5px; flex-grow: 1;"> MAT 150, 151 or 152 College Algebra (3) Completed: _____ </div> </div> <div style="text-align: center;">↓</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> MAT 182 or 187 Trig or PreCalc (3) Completed: _____ </div> <div style="text-align: center;">↓</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> MA MAT 221 Calculus I (4) Completed: _____ </div> <div style="text-align: center;">↓</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> MAT 225 Linear Algebra (3) Completed: _____ </div> <div style="text-align: center;">↓</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> MAT 231 Calculus II (4) Completed: _____ </div> <div style="text-align: center;">↓</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> MAT 241 Calculus III (4) Completed: _____ </div> <div style="text-align: center;">↓</div> <div style="border: 1px solid black; padding: 5px;"> MAT 262 Diff Equations (3) Completed: _____ </div>	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> ECE 102 Engineering Anal (2) Completed: _____ </div> <div style="text-align: center;">↓</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> ECE 103 Engineering Design (2) Completed: _____ </div> <div style="text-align: center;">↓</div> <div style="border: 1px solid black; padding: 5px;"> ECE 214 Engineering Mech (4) Completed: _____ </div>
<p style="text-align: center;"><u>Social & Behavioral Sciences</u></p> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> SB _____ 3 Credits Completed: _____ </div> <div style="border: 1px solid black; padding: 5px;"> SB _____ 3 Credits Completed: _____ </div>	<p style="text-align: center;"><u>Humanities and Fine Arts</u></p> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> HU _____ 3 Credits Completed: _____ </div> <div style="border: 1px solid black; padding: 5px;"> HU _____ 3 Credits Completed: _____ </div>	<p style="text-align: center;"><u>Reading and Communication</u></p> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> Oral Communication COM 230 (0-3 Credits) Completed: _____ </div> <div style="border: 1px solid black; padding: 5px;"> Critical Reading CRE 101 (0-3 Credits) Completed: _____ </div>	<p>Note: Students who have not completed high school physics or completed high school physics more than two years prior to enrolling in PHY 121 should take PHY 111.</p>	
<p>Note: Students who have not completed high school chemistry or completed high school chemistry more than two years prior to enrolling in CHM 151 should take CHM 130/130LL.</p>				

Course Subject and Title <i>(courses in bold/shading are critical)</i>	Hrs.	Upper Division	Completed ATP: <input type="checkbox"/> Yes <input type="checkbox"/> No		Completed AGEC: <input type="checkbox"/> Yes <input type="checkbox"/> No
			Transfer Course/Grade	Minimum Grade if Required	Additional Critical Requirement Notes
TERM ONE: 0-15 CREDIT HOURS					
ASU 101-FSE: The ASU Experience	1	<input type="checkbox"/>			<ul style="list-style-type: none"> Complete MAT 265 with a min grade of "C" Complete CHM 113 2.0 ASU Cumulative GPA required ASU 101-FSE should be completed first semester. An SAT, ACT, Accuplacer, or TOEFL score determines placement into first-year composition courses ASU Math Placement Exam score determines placement in Mathematics course **If ENG 105 a 3 hr applicable elective must also be taken prior to graduation. See Advisor. # Designates Major Course: A minimum cumulative GPA of 2.0 required.
#CHE 100: Introduction to Chemical Engineering	2	<input type="checkbox"/>		Grade of C	
CHM 113: General Chemistry I (SQ)	4	<input type="checkbox"/>			
ENG 101 or 102: First-Year Composition OR ENG 105: Advanced First-Year Composition** OR ENG 107 or 108: English for Foreign Students	3	<input type="checkbox"/>		Grade of C	
MAT 265: Calculus for Engineers I	3	<input type="checkbox"/>		Grade of C	
Humanities, Fine Arts & Design (HU) AND Cultural Diversity in the US (C), Global Awareness (G) or Historical Awareness (H)	3	<input type="checkbox"/>			
TERM TWO: 16-30 CREDIT HOURS					
ENG 101 or 102: First-Year Composition OR ENG 105: Advanced First-Year Composition** OR ENG 107 or 108: English for Foreign Students	3	<input type="checkbox"/>		Grade of C	<ul style="list-style-type: none"> Complete CHE 100; CHM 116; ENG 101 or 107 or 105; MAT 266 each with a minimum grade of "C" 2.0 ASU Cumulative GPA required
CHM 116: General Chemistry II (SQ)	4	<input type="checkbox"/>		Grade of C	
MAT 266: Calculus for Engineers II	3	<input type="checkbox"/>		Grade of C	
PHY 121/122: University Physics I/ Laboratory I	3/1	<input type="checkbox"/>			
TERM THREE: 31-45 CREDIT HOURS					
# CHE 211: Introduction to Chemical Processing	3	<input type="checkbox"/>		Grade of C	<ul style="list-style-type: none"> Complete CHE 211; ENG 102 or 108 each with a minimum grade of "C" Complete PHY 121 & 122 2.0 ASU Cumulative GPA required # Designates Major Course: A minimum cumulative GPA of 2.0 required.
MAT 242: Elementary Linear Algebra	2	<input type="checkbox"/>			
MAT 275: Modern Differential Equations (MA)	3	<input type="checkbox"/>		Grade of C	
Humanities, Fine Arts & Design (HU) AND Cultural Diversity in the US (C), Global Awareness (G) or Historical Awareness (H)	3	<input type="checkbox"/>			
200 Level Engineering Elective	3	<input type="checkbox"/>			
TERM FOUR: 46-60 CREDIT HOURS					
#CHE 231: Introduction to Transport I: Fluids	3	<input type="checkbox"/>		Grade of C	<ul style="list-style-type: none"> Complete CHE 231; MAE 384; MAT 267 each a minimum grade of "C" Complete PHY 131 2.0 ASU Cumulative GPA required # Designates Major Course: A minimum cumulative GPA of 2.0 required.
MAT 267: Calculus for Engineers III	3	<input type="checkbox"/>		Grade of C	
# MAE 384: Numerical Methods for Engineers (CS)	3	<input type="checkbox"/>		Grade of C	
PHY 131: University Physics II: Electricity and Magnetism	3	<input type="checkbox"/>			
Social Behavioral Science (SB) AND Cultural Diversity in the US (C), Global Awareness (G) or Historical Awareness (H)	3	<input type="checkbox"/>			
TERM FIVE: 61-75 CREDIT HOURS					
# CHE 334: Introduction to Transport Phenomena II: Heat and Mass	3	<input checked="" type="checkbox"/>		Grade of C	<ul style="list-style-type: none"> # Designates Major Course: A minimum cumulative GPA of 2.0 required.
# CHE 342: Introduction to Applied Chemical Thermodynamics	3	<input checked="" type="checkbox"/>		Grade of C	
CHM 233: General Organic Chemistry I	3	<input type="checkbox"/>			
CHM 237: General Organic Chemistry Laboratory I	1	<input type="checkbox"/>			
Bioscience Elective	3	<input type="checkbox"/>			
# Chemistry Content Technical Elective	3	<input checked="" type="checkbox"/>			
TERM SIX: 76-90 CREDIT HOURS					
# CHE 352: Transport Laboratories (L)	3	<input checked="" type="checkbox"/>		Grade of C	<ul style="list-style-type: none"> # Designates Major Course: A minimum cumulative GPA of 2.0 required.
# CHE 433: Modern Separations	3	<input checked="" type="checkbox"/>		Grade of C	
# CHE 442: Introduction to Chemical Reactor Design	3	<input checked="" type="checkbox"/>		Grade of C	
CHM 234: General Organic Chemistry II	3	<input type="checkbox"/>			
IEE 220: Business Industrial Engineering	3	<input type="checkbox"/>			
TERM SEVEN: 91-105 CREDIT HOURS					
# CHE 432: Principles of Chemical Engineering Design	3	<input checked="" type="checkbox"/>		Grade of C	<ul style="list-style-type: none"> # Designates Major Course: A minimum cumulative GPA of 2.0 required.
# CHE 451: Chemical Engineering Laboratory	3	<input checked="" type="checkbox"/>			
# CHE 461: Process Dynamic Control	3	<input checked="" type="checkbox"/>			
# Chemistry Content Technical Elective	3	<input checked="" type="checkbox"/>			
Social & Behavioral Science (SB) AND Cultural Diversity in the US (C), Global Awareness (G) or Historical Awareness (H)	3	<input type="checkbox"/>			
TERM EIGHT: 106-120 CREDIT HOURS					
# CHE 462: Process Design (L)	3	<input checked="" type="checkbox"/>			<ul style="list-style-type: none"> # Designates Major Course: A minimum cumulative GPA of 2.0 required.
# CHE Technical Elective	3	<input checked="" type="checkbox"/>			
# CHE Technical Elective	3	<input checked="" type="checkbox"/>			
UD Humanities, Fine Arts & Design (HU) OR Social & Behavioral Science (SB)	3	<input checked="" type="checkbox"/>			
#Natural Science or MSE Technical Elective	3	<input checked="" type="checkbox"/>			

Graduation Requirements Summary:

Total Hours Regular Curriculum (120)	Total UD Hrs (45 min)	Total Hrs at ASU (30 min)	Cumulative GPA (2.00 minimum)	Major GPA (2.00 minimum GPA)	Hrs Resident Credit for Academic Recognition (56 min)	Total Comm. College Hrs. (64 Max)

General University Requirements: Legend

- General Studies Core Requirements:
 - Literacy and Critical Inquiry (L)
 - Mathematical Studies (MA)
 - Computer/Statistics/Quantitative applications (CS)
 - Humanities, Fine Arts, and Design (HU)
 - Social and Behavioral Sciences (SB)
 - Natural Science-Quantitative (SQ)
 - Natural Science-General (SG)
- General Studies Awareness Requirements
 - Cultural Diversity in the US (C)
 - Global Awareness (G)
 - Historical Awareness (H)
- First-Year Composition

Additional Notes: