

**Critical Requirements:** Students who follow the 2008-2009 catalog year and are entering ASU as either a first-time freshman or transfer from any Arizona public university or Arizona community college must complete critical requirements.

						Completed ATP: <input type="checkbox"/> Yes <input type="checkbox"/> No	Completed AGEC: <input type="checkbox"/> Yes <input type="checkbox"/> No
Course Subject and Title <i>(courses in bold/shading are critical)</i>	Hrs.	Upper Division	Transfer Course/Grade	Minimum Grade if Required	Additional Critical Requirement Notes		
<b>TERM ONE: 0-15 CREDIT HOURS</b>							
<b>CHM 117: General Chemistry for Majors I (SQ) or CHM 113: General Chemistry I (SQ)</b>	4	<input type="checkbox"/>		Grade of C	<ul style="list-style-type: none"> <li>• An SAT, ACT, Accuplacer, or TOEFL score determines placement into first-year composition courses</li> <li>• ASU Math Placement Exam score determines placement in Mathematics course</li> <li>• Maintain 2.0 GPA in all critical courses</li> <li>• Consult an academic advisor for Learning Community, Academic Success Clusters and First Year Seminar options</li> </ul>		
<b>MAT 170: Precalculus (MA) OR MAT 270: Calculus &amp; Analytical Geometry I (MA) (depending on math placement score)</b>	3 or 4	<input type="checkbox"/>		Grade of C			
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			
Social & Behavioral Science (SB) AND Cultural Awareness in the US (C), Global Awareness (G) OR Historical Awareness (H)	3	<input type="checkbox"/>					
<b>TERM TWO: 16-30 CREDIT HOURS</b>							
<b>BIO 187: General Biology I (SG)</b>	4	<input type="checkbox"/>		Grade of C	<ul style="list-style-type: none"> <li>• Maintain 2.0 GPA in all critical courses</li> </ul>		
<b>CHM 118: General Chemistry for Majors II (SQ) or CHM 116: General Chemistry II (SQ)</b>	4	<input type="checkbox"/>		Grade of C			
<b>MAT 271: Calculus with Analytic Geometry II or MAT 270: Calculus &amp; Analytical Geometry I</b>	4	<input type="checkbox"/>		Grade of C			
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			
<b>TERM THREE: 31-45 CREDIT HOURS</b>							
<b>BIO 188: General Biology II (SQ)</b>	4	<input type="checkbox"/>			<ul style="list-style-type: none"> <li>• Maintain 2.0 GPA in all critical courses</li> <li>• First Year Composition completed by the end of semester 3</li> </ul>		
<b>CHM 333: Organic Chemistry for Majors or CHM 233: General Organic Chemistry I</b>	3	<input type="checkbox"/>		Grade of C			
<b>MAT 271: Calculus with Analytic Geometry II</b> or if completed, take Elective	4	<input type="checkbox"/>		Grade of C in MAT 271			
CHM 337: Organic Chemistry for Majors I Laboratory or CHM 237: General Organic Chemistry Laboratory I	1	<input type="checkbox"/>		Grade of C			
PHY 111: General Physics & PHY 113: Laboratory	3/1	<input type="checkbox"/>		Grade of C			
<b>TERM FOUR: 46-60 CREDIT HOURS</b>							
<b>BIO 360: Animal Physiology</b>	3	<input checked="" type="checkbox"/>			<ul style="list-style-type: none"> <li>• Maintain 2.0 GPA in all critical courses</li> </ul>		
<b>CHM 334: Organic Chemistry for Majors II or CHM 234: General Organic Chemistry II</b>	3	<input type="checkbox"/>		Grade of C			
CHM 338: Organic Chemistry for Majors II Laboratory or CHM 238: Organic Chemistry Laboratory for Majors II	1	<input type="checkbox"/>		Grade of C			
PHY 112: General Physics & PHY 114: Laboratory	3/1	<input type="checkbox"/>		Grade of C			
Literacy and Critical Inquiry (L)	3	<input type="checkbox"/>					
<b>TERM FIVE: 61-75 CREDIT HOURS</b>							
<b>BCH 461: General Biochemistry</b>	3	<input checked="" type="checkbox"/>		Grade of C	<ul style="list-style-type: none"> <li>• Maintain 2.0 GPA in all critical courses</li> </ul>		
<b>BIO 353: Cell Biology</b>	3	<input checked="" type="checkbox"/>					
<b>CHM 341: Elementary Physical Chemistry</b>	3	<input checked="" type="checkbox"/>		Grade of C			
<b>CHM 343: Elementary Physical Chemistry Laboratory</b>	1	<input checked="" type="checkbox"/>		Grade of C			
Social & Behavioral Science (SB) AND Cultural Awareness in the US (C), Global Awareness (G) OR Historical Awareness (H)	3	<input checked="" type="checkbox"/>					
Elective	3	<input type="checkbox"/>					
<b>TERM SIX: 76-90 CREDIT HOURS</b>							
<b>BCH 462: General Biochemistry</b>	3	<input checked="" type="checkbox"/>		Grade of C			
<b>BCH 463: Biophysical Chemistry</b>	3	<input checked="" type="checkbox"/>		Grade of C			
<b>BCH 467: Analytical Biochemistry Laboratory (L)</b>	3	<input checked="" type="checkbox"/>		Grade of C			
Upper division CLAS Science and Society	3	<input checked="" type="checkbox"/>		Grade of C			
Humanities, Fine Arts & Design (HU) AND Cultural Awareness in the US (C), Global Awareness (G) OR Historical Awareness (H)	3	<input type="checkbox"/>					
<b>TERM SEVEN: 91-105 CREDIT HOURS</b>							
<b>CHM 433: Advanced Organic Chemistry I</b>	3	<input checked="" type="checkbox"/>		Grade of C			
Upper division CLAS Science and Society	3	<input checked="" type="checkbox"/>		Grade of C			
Computer/Statistics/Quantitative Science (CS)	3	<input type="checkbox"/>					
Humanities, Fine Arts & Design (HU)	3	<input type="checkbox"/>					
Elective	3 or 4	<input type="checkbox"/>					

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Course Subject and Title <i>(courses in bold/shading are critical)</i>	Hrs.	Upper Division	Transfer Course/Grade	Minimum Grade if Required	Additional Critical Requirement Notes
<b>TERM EIGHT: 106-120 CREDIT HOURS</b>					
CHM 435: Medicinal Chemistry	3	<input checked="" type="checkbox"/>		Grade of C	
Upper division CHM or BCH elective	3	<input checked="" type="checkbox"/>		Grade of C	
Upper division Humanities, Fine Arts & Design (HU) or Social & Behavioral Science (SB)	3	<input checked="" type="checkbox"/>			
Upper division elective	3	<input checked="" type="checkbox"/>			
Upper division elective	3	<input checked="" type="checkbox"/>			

**Graduation Requirements Summary:**

Total Hours (120 minimum)	Total Hrs at ASU (30 minimum)	Hrs Resident Credit for Academic Recognition (56 minimum)	Major GPA (2.000 Min.)	Total UD Hrs (45 minimum)	Total Comm. College Hrs. (64 maximum)

**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:**