

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 Tracking Notes
<b>TERM ONE: 0-15 CREDIT HOURS</b>					
ASU 101: The ASU Experience	1	<input type="checkbox"/>			<ul style="list-style-type: none"> <li>ASU 101 is for freshman ASU students only. Not required for transfer students.</li> <li>An SAT, ACT, Accuplacer, or TOEFL score determines placement into first-year composition courses</li> <li>An ASU Math Placement Exam score determines placement in Mathematics course</li> <li>Complete first course in First-Year Composition (WAC 101 or ENG 101 or ENG 107 or ENG 105)</li> </ul>
UNI XXX: Special Topics: Career & Major Exploration	1	<input type="checkbox"/>		Grade of C	
WAC 101: Introduction to Academic Writing OR WAC 107: Intro to Academic Writing for International Students OR 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>MAT 117: College Algebra (does not meet MA) OR MAT 170: Pre-calculus or Calculus I</b>	3-4	<input type="checkbox"/>		Grade of C	
Natural Science (SQ/SG) Such as chemistry, physics, geography, geology or biology (particular course depends on majors interests)	4	<input type="checkbox"/>		Grade of C	
Social/Behavioral Science (SB) or Humanities/Fine Arts/Design (HU) with Awareness Area or Second Language	3-4	<input type="checkbox"/>			
<b>TERM TWO: 16-30 CREDIT HOURS</b>					
UNI XXX: Special Topics: Choosing a Major	1	<input type="checkbox"/>		Grade of C	<ul style="list-style-type: none"> <li>Completed ENG 101/107/105 "C" or better</li> </ul>
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>MAT 170: Pre-calculus or Calculus I or Calculus II</b> or Science or Engineering	3-4	<input type="checkbox"/>		Grade of C	
<b>Natural Science-Quantitative or General (SQ/SG)</b>	4	<input type="checkbox"/>		Grade of C	
Computer Literacy/Statistics (CS)	3	<input type="checkbox"/>			
Social/Behavioral Science (SB) or Humanities/Fine Arts/Design (HU) with Awareness Area or Second Language	3-4	<input type="checkbox"/>			
<b>TERM THREE: 31-45 CREDIT HOURS</b>					
UNI XXX: Special Topics: Choosing a Major	1	<input type="checkbox"/>		Grade of C	<ul style="list-style-type: none"> <li>Complete First-Year Composition requirement: ENG 101 &amp; 102 OR ENG 107 &amp; 108 or 105</li> </ul>
ENG 102: First-Year Composition OR ENG 108: English for Foreign Students OR Literacy and Critical Inquiry (L) OR Social/Behavioral Science (SB) or Humanities/Fine Arts/Design (HU) – course that is appropriate for majors of interest	3	<input type="checkbox"/>		Grade of C	
<b>Calculus III</b> or Science or Engineering	3-4	<input type="checkbox"/>		Grade of C	
<b>Natural Science – Quantitative (SQ):</b>	3-4	<input type="checkbox"/>		Grade of C	
Social/Behavioral Science (SB) or Humanities/Fine Arts/Design (HU) with Awareness Area	3-4	<input type="checkbox"/>		Grade of C	
Elective or Second Language	3	<input type="checkbox"/>			

**Graduation Requirements Summary:**

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

**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:** ASU Majors That May Be Tracked To This Path

**MATH, PHYSICAL SCIENCES, ENGINEERING & TECHNOLOGY MAJOR TRACK**

Majors	Academic Programs	Math	Additional Math
Aerospace Engineering (Aeronautics) – BSE	Ira A. Fulton School of Engineering (Tempe)	MAT 265, 266, 267	additional math required
Aerospace Engineering (Astronautics) – BSE	Ira A. Fulton School of Engineering (Tempe)	MAT 265, 266, 267	additional math required
Applied Computer Science – BS	College of Technology & Innovation (Polytechnic)	APM 265, 266	additional math required
Applied Computing – BS	New College of Interdisciplinary Arts & Sciences (West)	MAT 210	MAT 243, STP 300
Applied Math – BS	New College of Interdisciplinary Arts & Sciences (West)	MAT 210	MAT 243, STP 300
Bioengineering – BSE	Ira A. Fulton School of Engineering (Tempe)	MAT 265, 266, 267	additional math required
Chemical Engineering – BSE	Ira A. Fulton School of Engineering (Tempe)	MAT 265, 266, 267	additional math required
Chemistry – BA	College of Liberal Arts and Sciences (Tempe)	MAT 270	MAT 271
Chemistry – BS	College of Liberal Arts and Sciences (Tempe)	MAT 270	MAT 271, 272
Chemistry (Environmental Chemistry) – BS	College of Liberal Arts and Sciences (Tempe)	MAT 270	MAT 271, 272
Civil Engineering – BSE	Ira A. Fulton School of Engineering (Tempe)	MAT 265, 266, 267	additional math required
Civil Engineering (Construction Engineering) – BSE	Ira A. Fulton School of Engineering (Tempe)	MAT 265, 266, 267	additional math required
Civil Engineering (Environmental Engineering) – BSE	Ira A. Fulton School of Engineering (Tempe)	MAT 265, 266, 267	additional math required
Computational Mathematical Sciences – BS	College of Liberal Arts and Sciences (Tempe)	MAT 270, 271, 272	additional math required
Computer Science – BS	Ira A. Fulton School of Engineering (Tempe)	MAT 265, 266, 267	additional math required
Computer Systems (Computer Hardware Technology) – BS	College of Technology & Innovation (Polytechnic)	APM 265, 266	additional math required
Computer Systems (Embedded Systems Technology) – BS	College of Technology & Innovation (Polytechnic)	APM 265, 266	additional math required
Computer Systems Engineering – BSE	Ira A. Fulton School of Engineering (Tempe)	MAT 265, 266, 267	additional math required
Earth & Space Exploration – BS	College of Liberal Arts and Sciences (Tempe)	MAT 170, 265, 266, 267	additional math required
Electrical Engineering – BSE	Ira A. Fulton School of Engineering (Tempe)	MAT 265, 266, 267	additional math required
Electrical Engineering (Electric Power and Energy Systems) – BSE	Ira A. Fulton School of Engineering (Tempe)	MAT 265, 266, 267	additional math required
Electronics Engineering Technology (Alternate Energy Technologies) – BS	College of Technology and Innovation (Polytechnic)	APM 265, 266	additional math required
Electronics Engineering Technology (Electronic Systems) – BS	College of Technology and Innovation (Polytechnic)	APM 265, 266	additional math required
Electronics Engineering Technology (Integrated Systems) – BS	College of Technology and Innovation (Polytechnic)	APM 265, 266	additional math required
Electronics Engineering Technology (Telecommunications) – BS	College of Technology and Innovation (Polytechnic)	APM 265, 266	additional math required
Engineering – BSE	College of Technology and Innovation (Polytechnic)	APM 265, 266	additional math required
Engineering Special Studies (Premedical Engineering) – BSE	Ira A. Fulton School of Engineering (Tempe)	MAT 265, 266, 267	additional math required
Geography (Meteorology-Climatology) – BS	College of Liberal Arts and Sciences (Tempe)	MAT 270, 271, 272	additional math required
Geological Sciences – BS	College of Liberal Arts and Sciences (Tempe)	MAT 170, 270	MAT 271, 272
Industrial Engineering – BSE	Ira A. Fulton School of Engineering (Tempe)	MAT 265, 266, 267	additional math required
Interdisciplinary Studies – BIS	School of Letters & Sciences (Downtown Phoenix, Polytechnic, Tempe, West)	MAT 142 or higher	depends on concentration
Manufacturing Engineering Technology (Manufacturing Engineering Technology) – BS	College of Technology and Innovation (Polytechnic)	APM 265, 266	additional math required
Manufacturing Engineering Technology (Mechanical Engineering Technology) – BS	College of Technology and Innovation (Polytechnic)	APM 265, 266	additional math required
Materials Science & Engineering – BSE	Ira A. Fulton School of Engineering (Tempe)	MAT 265, 266, 267	additional math required
Mathematics – BA	College of Liberal Arts and Sciences (Tempe)	MAT 270, 271, 272	additional math required
Mathematics – BS	College of Liberal Arts and Sciences (Tempe)	MAT 270, 271, 272	additional math required
Mathematics (Statistics) – BS	College of Liberal Arts and Sciences (Tempe)	MAT 270, 271, 272	additional math required
Mechanical Engineering – BSE	Ira A. Fulton School of Engineering (Tempe)	MAT 265, 266, 267	additional math required
Mechanical Engineering (Computational and Mathematical Mechanics) – BSE	Ira A. Fulton School of Engineering (Tempe)	MAT 265, 266, 267	additional math required
Mechanical Engineering Technology (Aeronautical Engineering Technology) – BS	College of Technology and Innovation (Polytechnic)	APM 265, 266	additional math required
Mechanical Engineering Technology (Automation Engineering Technology) – BS	College of Technology and Innovation (Polytechnic)	APM 265, 266	additional math required
Mechanical Engineering Technology (Automotive Engineering Technology) – BS	College of Technology and Innovation (Polytechnic)	APM 265, 266	additional math required
Mechanical Engineering Technology (Mechanical Engineering Technology) – BS	College of Technology and Innovation (Polytechnic)	APM 265, 266	additional math required
Physics – BS	College of Liberal Arts and Sciences (Tempe)	MAT 270	MAT 271, 272
Secondary Education (Chemistry) – BAE	Mary Lou Fulton College of Education (Tempe)	MAT 270	MAT 271, 272
Secondary Education (Earth & Space Sciences) – BAE	Mary Lou Fulton College of Education (Tempe)	MAT 210 or MAT 270	N/A
Secondary Education (Mathematics) – BAE	Mary Lou Fulton College of Education (Tempe)	MAT 270, 271, 272	additional math required
Secondary Education (Mathematics) – BAE	College of Teacher Education and Leadership (Downtown Phoenix, West)	MAT 270, 271, 272	additional math required
Secondary Education (Physics) – BAE	Mary Lou Fulton College of Education (Tempe)	MAT 270	MAT 271, 272
Sustainability – BS	School of Sustainability (Tempe)	MAT 210, 211 or MAT 170, 251 or MAT 170, 265 or MAT 270, 271	N/A