

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: Yes No Completed AGEC: Yes No

| Course Subject and Title (courses in <i>bold/shading</i> are critical) | Hrs. | Upper Division | Transfer Course/Grade | Minimum Grade if Required | Additional Critical Requirement Notes |
|---|----------|-------------------------------------|-----------------------|-----------------------------|--|
| TERM ONE: 0-15 CREDIT HOURS | | | | | |
| ASU 101: The ASU Experience | 1 | <input type="checkbox"/> | | | <ul style="list-style-type: none"> ASU 101 is for freshman ASU students only. Not required for transfer students. An SAT, ACT, Accuplacer, or TOEFL score determines placement into first-year composition courses *Mathematical Studies (MA) designation approval pending Complete at least 2 critical courses each with a minimum grade of C. Suggested courses for term 1: APM 270; CST 100, CST 150 Students must complete either a Physics (PHY 111/113 & 112/14) OR Chemistry (113 and 115) sequence Minimum cumulative 2.5 GPA required for all critical (bold/shaded) courses Minimum cumulative 2.0 GPA required |
| Complete 2 courses from: MA course: (APM 265: Mathematics of Change I *) APM 266: Mathematics of Change II CST 100: Object-Oriented Software Development CST 150: Digital Systems I (CS) CST 200 & 201: Object-Oriented Software Development II/Laboratory (3/1 hrs) | 3 | <input type="checkbox"/> | | Grade of C | |
| MAT 243: Discrete Mathematical Structures PHY 111/113: General Physics/Laboratory (SQ) or CHM 113: General Chemistry I (SQ) | 3 | <input type="checkbox"/> | | Grade of C | |
| CST 230: Applied Data Structures | 3 or 3/1 | <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 | |
| Humanities, Fine Arts & Design (HU) | 3 | <input type="checkbox"/> | | | |
| TERM TWO: 16-30 CREDIT HOURS | | | | | |
| Complete 2 additional courses from: MA course: (APM 265: Mathematics of Change I *) APM 266: Mathematics of Change II CST 100: Object-Oriented Software Development CST 150: Digital Systems I (CS) CST 200 & 201: Object-Oriented Software Development II/Laboratory (3/1 hrs) MAT 243: Discrete Mathematical Structures PHY 111/113: General Physics/Laboratory (SQ) or CHM 113: General Chemistry I (SQ) CST 230: Applied Data Structures | 3 | <input type="checkbox"/> | | Grade of C | <ul style="list-style-type: none"> Complete at least 2 additional critical courses each with a minimum grade of C. Suggested courses for term 2: APM 271; CST 200 & 201 Students must complete either a Physics (PHY 111/113 & 112/14) OR Chemistry (113 and 115) sequence Minimum cumulative 2.5 GPA required for all critical (bold/shaded) courses Minimum cumulative 2.0 GPA required |
| CST 250/251: Microcomputer Architecture & Programming/Lab | 3/1 | <input type="checkbox"/> | | Grade of C | |
| ENG 101 or 102: First-Year Composition or ENG 107 or 108: English for Foreign Students or ENG 105: Advanced First-Year Composition | 3 | <input type="checkbox"/> | | Minimum grade of C required | |
| | | | | | |
| TERM THREE: 31-45 CREDIT HOURS | | | | | |
| Complete 2 additional courses from: MA course: (APM 265: Mathematics of Change I *) APM 266: Mathematics of Change II CST 100: Object-Oriented Software Development CST 150: Digital Systems I (CS) CST 200 & 201: Object-Oriented Software Development II/Laboratory (3/1 hrs) MAT 243: Discrete Mathematical Structures PHY 111/113: General Physics/Laboratory (SQ) or CHM 113: General Chemistry I (SQ) CST 230: Applied Data Structures | 3 | <input type="checkbox"/> | | Grade of C | <ul style="list-style-type: none"> First-year composition requirement must be completed by end of term 3 Complete at least 2 additional critical courses each with a minimum grade of C. Suggested courses for term 3: MAT 243; PHY 111 & 113 or CHM 113 Students must complete either a Physics (PHY 111/113 & 112/14) OR Chemistry (113 and 115) sequence Minimum cumulative 2.5 GPA required for all critical (bold/shaded) courses Minimum cumulative 2.0 GPA required |
| APM 294: Mathematics of Change III | 3 | <input type="checkbox"/> | | Grade of C | |
| CST 220 Programming Languages for Technology with C/C++ & Scripting | 3 | <input type="checkbox"/> | | | |
| CST 386 Operating Systems Principles | 3 | <input checked="" type="checkbox"/> | | | |
| TERM FOUR: 46-60 CREDIT HOURS | | | | | |
| Complete remaining courses from: MA course: (APM 265: Mathematics of Change I *) APM 266: Mathematics of Change II CST 100: Object-Oriented Software Development CST 150: Digital Systems I (CS) CST 200 & 201: Object-Oriented Software Development II/Laboratory (3/1 hrs) MAT 243: Discrete Mathematical Structures PHY 111/113: General Physics/Laboratory (SQ) or CHM 113: General Chemistry I (SQ) CST 230: Applied Data Structures | 3 | <input type="checkbox"/> | | Grade of C | <ul style="list-style-type: none"> Complete remaining critical courses each with a minimum grade of C. Suggested courses for term 4: CST 230 Students must complete either a Physics (PHY 111/113 & 112/14) OR Chemistry (113 and 115) sequence Minimum cumulative 2.5 GPA required for all critical (bold/shaded) courses Minimum cumulative 2.0 GPA required |
| CST 359 Internet Networking Protocol | 3 | <input checked="" type="checkbox"/> | | | |
| Choose 1 from: PHY 112 General Physics AND PHY 114 General Physics Lab OR CHM 115 General Chemistry with Qualitative Analysis (SQ) | 3/1 or 4 | <input type="checkbox"/> | | | |
| ECN 211 Macroeconomic Principles (SB) | 3 | <input type="checkbox"/> | | | |
| Social & Behavioral Science (SB) AND Cultural Awareness in the US (C), Global Awareness (G) or Historical Awareness (H) | 3 | <input type="checkbox"/> | | | |

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| Course Subject and Title (courses in <i>bold/shading</i> are critical) | Hrs. | Upper Division | Transfer Course/Grade | Minimum Grade if Required | Additional Critical Requirement Notes |
|---|------|-------------------------------------|-----------------------|---------------------------|---|
| TERM FIVE: 61-75 CREDIT HOURS | | | | | |
| APM 301 Introductory Statistics (CS) | 3 | <input checked="" type="checkbox"/> | | | |
| CST 315 Software Enterprise I: Tools & Process | 3 | <input checked="" type="checkbox"/> | | | |
| CST 420 Foundations of Distributed Web-based Applications in Java | 3 | <input checked="" type="checkbox"/> | | | |
| CST 433 Database Technology | 3 | <input checked="" type="checkbox"/> | | | |
| Technical elective | 3 | <input type="checkbox"/> | | | |
| TERM SIX: 76-90 CREDIT HOURS | | | | | |
| CST 316 Software Enterprise II: Construction & Transition | 3 | <input checked="" type="checkbox"/> | | | |
| CST 355 Applications of Computer Theory | 3 | <input checked="" type="checkbox"/> | | | |
| CST 400-level course | 3 | <input checked="" type="checkbox"/> | | | |
| Literacy and Critical Inquiry (L) | 3 | <input type="checkbox"/> | | | |
| Humanities, Fine Arts & Design (HU) AND Cultural Diversity in the US (C), Global Awareness (G) or Historical Awareness (H) | 3 | <input type="checkbox"/> | | | |
| TERM SEVEN: 91-105 CREDIT HOURS | | | | | |
| CST 415 Software Enterprise III: Inception & Elaboration (L) | 3 | <input checked="" type="checkbox"/> | | | |
| CST 496 Ethics and Professionalism in Computing | 1 | <input checked="" type="checkbox"/> | | | |
| CST 400-level course | 3 | <input checked="" type="checkbox"/> | | | |
| Technical elective | 3 | <input type="checkbox"/> | | | |
| Lab Science | 4 | <input type="checkbox"/> | | | |
| TERM EIGHT: 106-120 CREDIT HOURS | | | | | |
| CST 416: Software Enterprise IV: Project & Process Management (L)** or TWC 400: Technical Communications (L) | 3 | <input checked="" type="checkbox"/> | | | **Literacy (L) designation approval pending |
| CST 400-level course | 3 | <input checked="" type="checkbox"/> | | | |
| CST 400-level course | 3 | <input checked="" type="checkbox"/> | | | |
| Technical Elective | 3 | <input type="checkbox"/> | | | |
| Upper division Humanities (HU) AND Cultural Awareness in the US (C), Global Awareness (G) or Historical Awareness (H) OR Upper division Social Behavioral Science (SB) AND Cultural Awareness in the US (C), Global Awareness (G) or Historical Awareness (H) | 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: