



Associate in Science (AS) Degree
 MCC/ASU Fulton Computer Systems Engineering Advisement Flow Chart
 2009-2010 Catalog Year

First Year Composition	Comp Science Requirements	Physics Requirements	Mathematics Requirements	Engineering Requirements
<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="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> CSC 100 Intro to Comp Sci (3) Completed: _____ </div> <div style="text-align: center;">↓</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> CSC 120 Digital Design (4) Completed: _____ </div> <div style="text-align: center;">↓</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> CSC 205 Obj Orient Prog (3) Completed: _____ </div> <div style="text-align: center;">↓</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> CSC 220 Prog Comp Eng (3) Completed: _____ </div> <div style="text-align: center;">↓</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> CSC 230 Computer Org (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="text-align: center;">Program Prerequisites</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> PHY 111 General Physics I (4) Completed: _____ </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> <hr style="border-top: 1px dashed black;"/> <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="padding: 10px 0 0 0;"> <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> </div>	<div style="text-align: center;">Program Prerequisites</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> MAT 150, 151 or 152 College Algebra (3) Completed: _____ </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> <hr style="border-top: 1px dashed black;"/> <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 227 Discrete Math (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;"> EEE 202 Circuits & Devices (5) Completed: _____ </div>
<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <u>Social & Behavioral Sciences</u> </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> SB _____ 3 Credits Completed: _____ </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> SB _____ 3 Credits Completed: _____ </div>				
<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <u>Humanities and Fine Arts</u> </div> <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>				
<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <u>Reading and Communication</u> </div> <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>				

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 AGECS: <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 CSE 100 or 110, 101; MAT 265 each with a minimum grade of "C" 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.
# CSE 100: Principles of Programming with C++ (CS) OR # CSE 110: Principles of Programming with Java (CS)	3	<input type="checkbox"/>		Grade of C	
# CSE 101: Introduction to Computer Science & Engineering	2	<input type="checkbox"/>		Grade of C	
MAT 265: Calculus for Engineers I (MA)	3	<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 Diversity in the US (C), Global Awareness (G) or Historical Awareness (H)	3	<input type="checkbox"/>			
TERM TWO: 16-30 CREDIT HOURS					
# CSE 120: Digital Design Fundamentals	3	<input type="checkbox"/>		Grade of C	<ul style="list-style-type: none"> Complete CSE 120, 205; MAT 266 each with a minimum grade of "C" # Designates Major Course: A minimum cumulative GPA of 2.0 required.
# CSE 205: Object-Oriented Programming & Data Structures (CS)	3	<input type="checkbox"/>		Grade of C	
MAT 266: Calculus for Engineers II	3	<input type="checkbox"/>		Grade of C	
BIO 187: General Biology I (SQ) OR BIO 188: General Biology Laboratory II (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	
TERM THREE: 31-45 CREDIT HOURS					
# CSE 230: Computer Organization and Assembly Language Programming	3	<input type="checkbox"/>		Grade of C	<ul style="list-style-type: none"> Complete CSE 230; MAT 243, 267 each with a minimum grade of "C" Complete First-Year Composition requirement: ENG 101 & 102 or ENG 107 & 108 or ENG 105 # Designates Major Course: A minimum cumulative GPA of 2.0 required.
MAT 243: Discrete Mathematical Structures	3	<input type="checkbox"/>		Grade of C	
MAT 267: Calculus for Engineers III	3	<input type="checkbox"/>		Grade of C	
PHY 121/122: University Physics I/Laboratory I (SQ)	3/1	<input type="checkbox"/>			
TERM FOUR: 46-60 CREDIT HOURS					
# CSE 220: Programming for Computer Engineering	3	<input type="checkbox"/>		Grade of C	<ul style="list-style-type: none"> Complete CSE 220 with a minimum grade of "C" # Designates Major Course: A minimum cumulative GPA of 2.0 required.
MAT 275: Modern Differential Equations	3	<input type="checkbox"/>			
PHY 131/132: University Physics II Electricity and Magnetism/Laboratory II (SQ)	3/1	<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"/>			
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					
# EEE 202: Circuits I	4	<input type="checkbox"/>			# Designates Major Course: A minimum cumulative GPA of 2.0 required.
# IEE 380: Probability and Statistics for Engineering Problem Solving	3	<input checked="" type="checkbox"/>			
# CSE 301: Computing Ethics	1	<input checked="" type="checkbox"/>		Grade of C	
# CSE 310: Data Structures and Algorithms	3	<input checked="" type="checkbox"/>		Grade of C	
# CSE 360: Introduction to Software Engineering	3	<input checked="" type="checkbox"/>		Grade of C	
TERM SIX: 76-90 CREDIT HOURS					
# EEE 334: Circuits II	4	<input checked="" type="checkbox"/>			# Designates Major Course: A minimum cumulative GPA of 2.0 required.
# CSE 320: Design and Synthesis of Digital Hardware	3	<input checked="" type="checkbox"/>		Grade of C	
# CSE 325: Embedded Micro Systems	3	<input checked="" type="checkbox"/>		Grade of C	
# MAT 343: Applied Linear Algebra	3	<input checked="" 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					
# CSE 423: Systems Capstone Project I (L)	3	<input checked="" type="checkbox"/>		Grade of C	<ul style="list-style-type: none"> See Advisor for approved list of CSE Technical Electives # Designates Major Course: A minimum cumulative GPA of 2.0 required.
# CSE 430: Operating Systems	3	<input checked="" type="checkbox"/>		Grade of C	
# CSE Technical Elective	3	<input checked="" type="checkbox"/>		Grade of C	
# CSE Technical Elective	3	<input checked="" type="checkbox"/>		Grade of C	
UD Humanities, Fine Arts & Design (HU) OR Social & Behavioral Science (SB)	3	<input checked="" type="checkbox"/>			
TERM EIGHT: 106-120 CREDIT HOURS					
# CSE 420: Computer Architecture I	3	<input checked="" type="checkbox"/>		Grade of C	<ul style="list-style-type: none"> See Advisor for approved list of CSE Technical Electives # Designates Major Course: A minimum cumulative GPA of 2.0 required.
# CSE 424: Systems Capstone Project II (L)	3	<input checked="" type="checkbox"/>		Grade of C	
# CSE 434: Computer Networks	3	<input checked="" type="checkbox"/>		Grade of C	
# CSE Technical Elective	3	<input checked="" type="checkbox"/>		Grade of C	
# CSE Technical Elective	3	<input checked="" type="checkbox"/>		Grade of C	

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: