











2024 - 2025 Major Map



Computational Forensics, BS

School/College: New College of Interdisciplinary Arts and Sciences
ASCPFBS

Term 1 0 - 15 Credit Hours Critical course signified by 	Hours	Minimum Grade	Notes
 ACO 101: Introduction to Computer Science (QTRS OR CS)	3	C	<ul style="list-style-type: none"> ASU 101 or college-specific equivalent First-Year Seminar required of all first-year students. NEW 101 satisfies this requirement. IAS 300 (three credit hours) is required for all transfer students in place of NEW 101. Select your Career Interest Community and play me3@ASU. Activate your Handshake account and build out your profile.
 MAT 270: Calculus with Analytic Geometry I (MATH OR MA)	4	C	
ENG 101 or ENG 102: First-Year Composition OR ENG 105: Advanced First-Year Composition OR ENG 107 or ENG 108: First-Year Composition	3	C	
FOR 105: Physical Evidence and the Crime Scene (SCIT OR SQ)	4	C	
NEW 101: The ASU New College Experience OR IAS 300: Career Strategies and Personal Resilience (L or SB)	1-3		
Term hours subtotal:	15-17		

Term 2 15 - 29 Credit Hours Critical course signified by 	Hours	Minimum Grade	Notes
 ACO 102: Object-Oriented Programming (QTRS OR CS)	3	C	<ul style="list-style-type: none"> Create a first draft resume. Join a student club or professional organization. Secure a part-time job or volunteer experience.
 MAT 271: Calculus with Analytic Geometry II (MATH OR MA)	4	C	
ENG 101 or ENG 102: First-Year Composition OR ENG 105: Advanced First-Year Composition OR ENG 107 or ENG 108: First-Year Composition	3	C	
FOR 106: Biology Behind the Crime Scene (SCIT OR SQ)	4	C	
 Complete ENG 101 OR ENG 105 OR ENG 107 course(s).			
Term hours subtotal:	14		

Term 3 29 - 45 Credit Hours Critical course signified by 	Hours	Minimum Grade	Notes
 MAT 272: Calculus with Analytic Geometry III (MATH OR MA)	4	C	<ul style="list-style-type: none"> Develop your research skills. Develop your professional skills. Interested in pre-professional pathways? Explore our pre-health and pre-law websites.
ACO 201: Data Structures and Algorithms (QTRS OR CS)	3	C	
STP 280: Probability and Statistics for Researchers (QTRS OR CS)	3	C	
Humanities, Arts and Design (HUAD)	3		
Social and Behavioral Sciences (SOBE)	3		
 Complete First-Year Composition requirement. Complete Mathematics (MATH) requirement.			
Term hours subtotal:	16		

Term 4 45 - 60 Credit Hours Critical course signified by 	Hours	Minimum Grade	Notes
 MAT 275: Modern Differential Equations (MATH OR MA)	3	C	<ul style="list-style-type: none"> Explore an internship, ASU study abroad, or an IGLE international experience.
ACO 240: Introduction to Programming Languages	3	C	
MAT 243: Discrete Mathematical Structures OR MAT 300: Mathematical Structures (L)	3	C	

STP 281: Statistical Analysis for Researchers	3	C
Humanities, Arts and Design (HUAD)	3	
Term hours subtotal:	15	

Term 5 60 - 75 Credit Hours Necessary course signified by ★	Hours	Minimum Grade	Notes
★ MAT 343: Applied Linear Algebra	3	C	<ul style="list-style-type: none"> Thinking about graduate school? Consider registering for a graduate test prep course and explore accelerated master's degrees. Develop your professional online presence.
★ STP 310: Design and Analysis of Experiments	3	C	
ACO 320: Database Systems	3	C	
STP 311: Regression and Time Series Analyses	3	C	
Upper Division Elective	3-0		
Term hours subtotal:	15-12		

Term 6 75 - 90 Credit Hours Necessary course signified by ★	Hours	Minimum Grade	Notes
★ MAT 350: Techniques and Applications of Applied Mathematics	3	C	<ul style="list-style-type: none"> Use Handshake to research employment opportunities. Complete an in person or virtual practice interview.
ACO 350: Systems Programming (QTRS OR CS)	3	C	
STP 450: Nonparametric Statistics	3	C	
Computational Forensics Elective	3-4	C	
Global Communities, Societies and Individuals (GCSI)	3		
Term hours subtotal:	15-16		

Term 7 90 - 105 Credit Hours Necessary course signified by ★	Hours	Minimum Grade	Notes
★ ACO 423: Data Science	3	C	<ul style="list-style-type: none"> Gather professional references.
Upper Division Computational Forensics Elective	3-4	C	
Upper Division Global and Civic Engagement Requirement: satisfied through completion of 6 credits of upper-division courses with a Global Communities, Societies and Individuals (GCSI) or Governance and Civic Engagement (CIVI) designation, in addition to the courses used to meet the university General Studies requirements; or completion of 3 credits from an ASU-approved Global Education program. Adjustment to upper-division and elective hours is required if a lower-division Global Education course is used.	3	C	
Governance and Civic Engagement (CIVI)	3		
Sustainability (SUST)	3		
Term hours subtotal:	15-16		

Term 8 105 - 120 Credit Hours Necessary course signified by ★	Hours	Minimum Grade	Notes
★ FOR 350: Computer Forensics	3	C	<ul style="list-style-type: none"> Apply for full-time career opportunities.
Complete 2 courses:	6-8	C	
Upper Division Computational Forensics Elective			
Upper Division Global and Civic Engagement Requirement: satisfied through completion of 6 credits of upper-division courses with a Global Communities, Societies and Individuals (GCSI) or Governance and Civic Engagement (CIVI) designation, in addition to the courses used to meet the university General Studies requirements; or completion of 3 credits from an ASU-approved Global Education program. Adjustment to upper-division and elective hours is required if a lower-division Global Education course is used.	3	C	
American Institutions (AMIT)	3		
Term hours subtotal:	15-17		

Hide Course List(s)/Track Group(s)

Computational Forensics Elective	Upper Division Computational Forensics Elective
ACO 321: Database Development & Applications	ACO 321: Database Development & Applications
ACO 420: Big Data Systems	ACO 420: Big Data Systems
BIO 181: General Biology I (SCIT OR SQ)	FOR 402: Forensic Biology
BIO 182: General Biology II (SCIT OR SG)	LSC 347: Fundamentals of Genetics AND LSC 348: Fundamentals of Genetics Laboratory
CHM 113: General Chemistry I (SCIT OR SQ)	MAT 421: Applied Computational Methods (MATH OR CS)
CHM 116: General Chemistry II (SCIT OR SQ)	MAT 450: Mathematical Models in Biology
CHM 233: General Organic Chemistry I AND CHM 237: General Organic Chemistry Laboratory I	MAT 452: Introduction to Chaos and Nonlinear Dynamics
CHM 234: General Organic Chemistry II AND CHM 238: General Organic Chemistry Laboratory II	
FOR 286: Principles of Forensic Science	
FOR 402: Forensic Biology	
LSC 347: Fundamentals of Genetics AND LSC 348: Fundamentals of Genetics Laboratory	
MAT 421: Applied Computational Methods (MATH OR CS)	
MAT 450: Mathematical Models in Biology	
MAT 452: Introduction to Chaos and Nonlinear Dynamics	

- **Total Hours:** 120
- **Upper Division Hours:** 45 minimum
- University Undergraduate Graduation Requirements

Notes:

Mathematics Placement Assessment score determines placement in first mathematics course.

General Studies designations listed next to courses on the major map were valid for the 2024 - 2025 academic year. Please refer to the course catalog for current General Studies designations at time of class registration. General Studies credit is applied according to the designation the course carries at the time the class is taken.