







# 2018 - 2019 Major Map




## Applied Computing (Cybersecurity), BS

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

**ASU is no longer accepting new students to this program. Students interested in cybersecurity should apply to the **Computer Science (Cybersecurity), BA** program.**

Term 1 0 - 16 Credit Hours <b>Critical course signified by</b> 	Hours	Minimum Grade	Notes
 ACO 101: Introduction to Computer Science (CS)	3	C	<ul style="list-style-type: none"> <li>An SAT, ACT, Accuplacer, IELTS, or TOEFL score determines placement into first-year composition courses.</li> <li>Mathematics Placement Assessment score determines placement in mathematics course. Student may elect to take an MA course in place of elective if needed to prepare for MAT 210 in term 2.</li> <li>ASU 101 or college-specific equivalent First-Year Seminar required of all freshman students. NEW 101 satisfies this requirement.</li> <li>IAS 300 (3 credit hours) is required for all transfer students in place of NEW 101.</li> <li>Select your <b>career interest area</b> and play <b>me3@ASU</b>.</li> </ul>
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	
NEW 101: The ASU New College Experience	1		
PSY 101: Introduction to Psychology (SB)	3	C	
Historical Awareness (H)	3		
Elective	3		
Term hours subtotal:	16		

Term 2 16 - 32 Credit Hours <b>Critical course signified by</b> 	Hours	Minimum Grade	Notes
 ACO 102: Object-Oriented Programming (CS)	3	C	<ul style="list-style-type: none"> <li>Explore interdisciplinary connections.</li> </ul>
 MAT 210: Brief Calculus (MA)	3	C	
COM 100: Introduction to Human Communication (SB)	3	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	
Natural Science - Quantitative (SQ)	4		
 Complete ENG 101 OR ENG 105 OR ENG 107 course(s).			
Term hours subtotal:	16		

Term 3 32 - 48 Credit Hours <b>Critical course signified by</b> 	Hours	Minimum Grade	Notes
 ACO 201: Data Structures and Algorithms (CS)	3	C	<ul style="list-style-type: none"> <li>Develop your <b>research skills</b>.</li> </ul>
 MAT 243: Discrete Mathematical Structures	3	C	
Global Awareness (G)	3		

Humanities, Arts and Design (HU)

3


Natural Science - Quantitative (SQ) OR  
Natural Science - General (SG)

4

 Complete First-Year Composition requirement.

Complete Mathematics (MA) requirement.

Term hours subtotal: 16

<b>Term 4 48 - 63 Credit Hours</b> <b>Critical course signified by</b> 	<b>Hours</b>	<b>Minimum Grade</b>	<b>Notes</b>
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 ACO 240: Introduction to Programming Languages

3

C

- Develop your [professional online presence](#).

 STP 226: Elements of Statistics (CS)

3

C

Humanities, Arts and Design (HU)

3


Literacy and Critical Inquiry (L)

3

Elective

3

Term hours subtotal: 15

<b>Term 5 63 - 78 Credit Hours</b> <b>Necessary course signified by</b> 	<b>Hours</b>	<b>Minimum Grade</b>	<b>Notes</b>
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 ACO 320: Database Systems and Transaction Processing

3

C

- IAS 300 (3 credit hours) is required for all transfer students.
- Start exploring an [internship](#), study abroad, or [IGLE experience](#).

 ACO 330: Computer Networks

3

C

Cultural Diversity in the U.S. (C)

3


Upper Division Literacy and Critical Inquiry (L) OR  
IAS 300: Adult Career Development (L or SB)

3

Elective

3

Term hours subtotal: 15

<b>Term 6 78 - 93 Credit Hours</b> <b>Necessary course signified by</b> 	<b>Hours</b>	<b>Minimum Grade</b>	<b>Notes</b>
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 ACO 350: Systems Programming (CS)

3

C

- Use Handshake to research [employment opportunities](#).

ACO 361: Secure Coding Concepts

3

C

ACO 430: Wireless Networks

3

C


Diversity Elective

3




C



Elective

3

 Complete Cultural Diversity in the U.S. (C) AND Global Awareness (G) AND Historical Awareness (H) course(s).

Complete ACO 320 AND ACO 330 course(s).

Term 7 93 - 105 Credit Hours <b>Necessary course signified by</b> 	Hours	Minimum Grade	Notes
 ACO 484: Internship OR ACO 499: Individualized Instruction	3	C	<ul style="list-style-type: none"> <li>Completion of ACO 320 and ACO 330 with a C or better is required to enroll in ACO 484 and ACO 499. ACO 484 and ACO 499 may not be taken concurrently, and is limited to a maximum of 3 hours per semester (six hours total in the major). Subject of study requires faculty approval.</li> <li>If planning to take ACO 402 in Term 8, ACO 401 must be taken to fulfill Upper Division Cybersecurity Elective in Term 7 (ACO 401 is a prerequisite to ACO 402).</li> <li>If ACO 494 is taken to meet the Cybersecurity Elective requirement, it must be a security-related topic.</li> </ul>
 Upper Division Cybersecurity Elective	3	C	
ACO 431: Network Security	3	C	
ACO 461: Security Operations	3	C	
Term hours subtotal:	12		

Term 8 105 - 120 Credit Hours <b>Necessary course signified by</b> 	Hours	Minimum Grade	Notes
 ACO 484: Internship OR ACO 499: Individualized Instruction	3	C	<ul style="list-style-type: none"> <li>Completion of ACO 320 and ACO 330 with a C or better is required to enroll in ACO 484 and ACO 499. ACO 484 and ACO 499 may not be taken concurrently, and is limited to a maximum of 3 hours per semester (six hours total in the major). Subject of study requires faculty approval.</li> </ul>
ACO 351: Governance, Risk and Compliance OR ACO 402: Privacy, Ethics and Compliance Issues	3	C	
Upper Division Communication Elective	3	C	
Upper Division Ethics Elective	3	C	
Upper Division Elective	3		
Term hours subtotal:	15		

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

Upper Division Communication Elective	Upper Division Cybersecurity Elective	Diversity Elective
COM 312: Communication, Conflict, and Negotiation	ACO 401: Managing Cyber Risks in Enterprise Business Processes	ASB 211: Women in Other Cultures ((HU or SB) & G)
COM 316: Gender and Communication (SB & C)	ACO 494: Special Topics	COM 263: Elements of Intercultural Communication (SB & C & G)
COM 317: Nonverbal Communication	FOR 350: Computer Forensics	ENG 317: Cross-Cultural Writing ((L or HU) & G)
COM 353: Professional Communication		IAP 464: Media and Diversity (HU & G)
COM 415: Risk Communication		POS 480: Global Justice (G) or SBS 480: Global Justice (G)
COM 416: Gender and Race in the Media		PSY 385: Psychology of Gender (SB)
COM 459: Theory and Methods of Social Media Networks		SBS 301: Cultural Diversity ((L or SB) & C)

COM 471: Global Media and Cultural Identity (G)

COM 477: Sport, Culture, and Discourses

WST 220: Gender, Media and Culture ((HU or SB) & C)

WST 390: Women, Gender and Religion (HU & G) or REL 390: Women, Gender and Religion (HU & G)

#### Upper Division Ethics Elective

IAS 340: Bioethics (HU)

IAS 406: Moral Dilemmas (L or HU) or PHI 406: Moral Dilemmas (L or HU)

IAS 407: Environmental Philosophy and Policy (L or HU) or PHI 407: Environmental Philosophy and Policy (L or HU)

IAS 409: Eco-Community Ethics (HU) or PHI 409: Eco-Community Ethics (HU)

PHI 306: Applied Ethics (HU)

PHI 360: Business and Professional Ethics (HU)

**Total Hours:** 120

**Upper Division Hours:** 45 minimum

**Major GPA:** 2.00 minimum

**Cumulative GPA:** 2.00 minimum

**Total hrs at ASU:** 30 minimum

**Hrs Resident Credit for**

**Academic Recognition:** 56 minimum

**Total Community College Hrs:** 64 maximum

**Total College Residency Hrs:** 12 minimum

### General University Requirements Legend

General Studies Core Requirements:

- Literacy and Critical Inquiry (L)
- Mathematical Studies (MA)
- Computer/Statistics/Quantitative Applications (CS)
- Humanities, Arts and Design (HU)
- Social-Behavioral Sciences (SB)
- Natural Science - Quantitative (SQ)
- Natural Science - General (SG)

General Studies Awareness Requirements:

- Cultural Diversity in the U.S. (C)
- Global Awareness (G)
- Historical Awareness (H)

First-Year Composition

General Studies designations listed next to courses on the major map were valid for the 2018 - 2019 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.