WESTERN CATS

Cyber Operations

Defense & Forensics Emphasis

2021—2022

ARIZONA WESTERN COLLEGE COURSES

Semester One		
Course	**Title**	**Units**
MAT 151	College Algebra	4
ENG 101	Freshman English	3
CIS 105	Introduction to Business Information Systems	3
CIS 175	Computer Security	3
	Total	16

Semester Two		
Course	**Title**	**Units**
ENG 102	Freshman English	3
ECN 240 or ECN 250	Intro to Macroeconomics or Intro to Microeconomics	3
CIS 170	Microcomputer Installation and Support	3
CIS 260	Introduction to Operating Systems	3
Physical/Biological Sciences (AGEC) - Ex. CHM 151		4
	Total	16

Semester Three		
Course	**Title**	**Units**
CIS 270	Networking Fundamentals	3
CSC 127A	Programming I (Java)	4
Focus Area		3
Arts (AGEC) Ex. MUS 120		3
Humanities (AGEC) - Ex. PHI 101		3
	Total	16

ARIZONA WESTERN COLLEGE COURSES

Semester Four		
Course	**Title**	**Units**
CIS 180 or EGR 123	Computer Programming Logic or Introduction to Structured Program-	3
CIS 271	Network Administration	3
ECN 240 or	Intro to Macroeconomics or Intro to	3
Focus Area		3/4
Physical or Biological Science (AGEC) Ex. PHY 111		4
	Total	16/17

Semester Five		
Course	**Title**	**Units**
CSC 210	Human Computer Interaction	4
CIS 272	Network Routing & Switching	3
Focus Area		3
Additional Courses (AGEC)		3/4
Additional Courses (AGEC)		3/4
	Total	16/18

Total AGEC Units	**36+**
Focus Area	**9-11**
Total Units	**77-82**

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ARIZONA WESTERN COLLEGE COURSES

FOCUS AREAS COURSES
SYSTEMS ADMINISTRATION

Course	Title	Units
CIS 231	Database Design and Programming	3
CIS 151	Web Design	3
CIS 295	Structured System Analysis & Design	3
	Total	9

FOCUS AREAS COURSES
CYBER OPERATIONS

Course	Title	Units
CIS 275	Fundamental of Network Security	3
CSC 127B	Computer Programming 2	4
MAT 227	Discrete Math	3
	Total	10

NOTE: This is the advised sequence course for the A.A.S. in Informatics. The official degree requirements can be found in AWC's catalog.

Second semester proficiency required in a second language for BAS degree. Can be fulfilled with 101 and 102 courses at AWC or CLEP exam.

ARIZONA WESTERN COLLEGE COURSES

FOCUS AREAS COURSES
DIGITAL DESIGN

Course	Title	Units
CIS 231	Database Design and Programming	3
GRA 101	Intro to Graphic Communication	4
GRA 104	Digital Imaging I	4
	Total	11

FOCUS AREAS COURSES
SOFTWARE DEVELOPMENT

Course	Title	Units
CSC 127B	Computer Programming 2	4
CSC 215	Artificial Intelligence	4
CSC 252	Computer Organization	3
	Total	11

Total AGEC Units	36+
Focus Area	9-11
Total Units	77-82

WESTERN CATS

Cyber Operations
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UNIVERSITY OF ARIZONA COURSES

Semester Six		
Course	**Title**	**Units**
CYBV 301	Fundamentals of Cybersecurity	3
CYBV 385	Introduction to Cyber Operations	3
APCV 320	Computational Thinking and Doing	3
CYBV 326	Introductory Methods of Network Analysis	3
ENGV 306	Advanced Composition	3
	Total	15

Semester Seven		
Course	**Title**	**Units**
CYBV 329	Cyber Law, Ethics & Policy	3
CYBV 388	Cyber Investigations & Forensics	3
CYBV 435	Cyber Threat Intelligence	3
BASV 314	Mathematics for Applied Science	3
	Cyber Defense Elective	3
	Total	15

NOTE: This is the advised sequence course for the B.A.S. in Cyber Operations—Defense & Forensics Emphasis. The official degree requirements can be found in The University of Arizona catalog.

UNIVERSITY OF ARIZONA COURSES

Semester Eight		
Course	**Title**	**Units**
CYBV 400	Active Cyber Defense	3
Gen Ed	Individual & Societies	3
CYBV 473	Violent Python	3
CYBV 480	Cyber Warfare	3
CYBV 498	Senior Capstone	3
	Total	15

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AGEC A Units Required	**36+**
AA Units Required	**77-82**
BAS Degree Units Required	**45+**