



Cyber Operations: Defense & Forensics Emphasis 2022-2023

Additional pathways available, to speak to an Academic Advisor call (520) 261-3970.

ARIZONA WESTERN COLLEGE COURSES

Semester One

Course	Title	Units
MAT 151	College Algebra	4
ENG 101	Freshman English	3
101*	1st Semester Second Language	4
CIS 105	Intro. to Business Info. Systems	3
CIS 175	Computer Security	3
Total		17

Semester Two

Course	Title	Units
ENG 102	Freshman English	3
102*	2nd Semester Second Language	4
CIS 170	Microcomputer Installation and Support	3
CIS 260	Introduction to Operating Systems	3
Focus Area		3/4
Total		16/17

Semester Three

Course	Title	Units
CIS 270	Networking Fundamentals	3
CSC 127A	Introduction to Computer Science I	4
ECN 240	Principles of Macroeconomics	3
AGEC Course	Arts (ex: MUS 120 or ARH 141)	3
Additional Course	Writing Intensive (ex: ENG 290 or ENG 291)	3
Total		16

ARIZONA WESTERN COLLEGE COURSES

Semester Four

Course	Title	Units
CIS 180 or EGR 123	Computer Programming Logic or Introduction to Structured Programming	3
CIS 271	Network Administration	3
ECN 250	Principles of Microeconomics	3
AGEC Course	Physical/Biological Science (ex: ENV 101 or BIO 100/ 160)	4
Focus Area		3/4
Total		16/17

Semester Five

Course	Title	Units
CSC 210	Human Computer Interaction	4
CIS 272	Network Routing & Switching	3
AGEC Course	Humanities (ex: AJS 123 or REL 201)	3
AGEC Course	Physical/Biological Science (ex: ENV 101 or BIO 100)	4
Focus Area		3/4
Total		17/18

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

INFORMATICS AREAS OF FOCUS CREDITS	9-11	
TOTAL CREDITS	77-79	

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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.

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 INFORMATION MANAGEMENT

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

INFORMATICS AREAS OF FOCUS CREDITS	9-11	
TOTAL CREDITS		77-79

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UNIVERSITY OF ARIZONA COURSES

Semester One

Course	Title	Units
CYBV 301	Fundamentals of Cybersecurity	3
CYBV 385	Introduction to Cyber Operations	3
CYBV 326	Introductory Methods of Network Analysis	3
CYBV 312**	Introduction to Security Scripting	3
Total		12

Semester Two

Course	Title	Units
CYBV 329	Cyber Ethics	3
CYBV 388	Cyber Investigations & Forensics	3
CYBV 435	Cyber Threat Intelligence	3
ENGV 306	Advanced Composition	3
APCV 320	Computational Thinking and Doing	3
Total		15

**CYBV 312 is a pre-requisite for CYBV 473: Violent Python.

UNIVERSITY OF ARIZONA COURSES

Semester Three

Course	Title	Units
CYBV 400	Active Cyber Defense	3
BASV 314	Mathematics for Applied Science	3
CYBV 473	Violent Python	3
CYBV 480	Cyber Warfare	3
Total		12

Semester Four

Course	Title	Units
CYBV 498	Senior Capstone	3
GEN ED	Building Connections: Upper Division GEN ED Course	3
Elective:	CYBV 460, 354, 474, 450, 442, 443, 479, 475, 330, 437, 438, 436,454,471,477,481, 384, 386	3
Total		9

AAS in Informatics	77-79
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BAS Degree	45+
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