



Applied Computing: Cloud Computing Emphasis 2022-2023

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

ARIZONA WESTERN COLLEGE COURSES			ARIZONA WESTERN COLLEGE COURSES								
Semester One			Semester Four								
Course	Title	Units	Course	Title	Units						
MAT 151	College Algebra	4	CIS 180 or EGR 123	Computer Programming Logic or Introduction to Structured Programming	3						
ENG 101	Freshman English	3	CIS 271	Network Administration	3						
101*	1st Semester Second Language	4	ECN 250	Principles of Microeconomics	3						
CIS 105	Introduction to Business Information Systems	3	AGEC Course	Physical/Biological Science (ex: ENV 101 or BIO 100/160)	4						
CIS 175	Computer Security	3	Focus Area		3/4						
Total		17	Total		16/17						
Semester Two			Semester Five								
Course	Title	Units	Course	Title	Units						
ENG 102	Freshman English	3	CSC 210	Human Computer Interaction	4						
102*	2nd Semester Second Language	4	CIS 272	Network Routing & Switching	3						
CIS 170	Microcomputer Installation and Support	3	AGEC Course	Humanities (ex: AJS 123 or REL 201)	3						
CIS 260	Introduction to Operating Systems	3	AGEC Course	Physical/Biological Science (ex: ENV 101 or BIO 100)	4						
Focus Area		3/4	Focus Area		3/4						
Total		16/17	Total		17/18						
Semester Three			<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">INFORMATICS AREAS OF FOCUS CREDITS</td> <td style="text-align: center;">9-11</td> <td></td> </tr> <tr> <td colspan="2" style="text-align: center;">TOTAL CREDITS</td> <td style="text-align: center;">77-79</td> </tr> </table>			INFORMATICS AREAS OF FOCUS CREDITS	9-11		TOTAL CREDITS		77-79
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TOTAL CREDITS		77-79									
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									
			<p>*Second semester proficiency required in a second language for BAS degree. Can be fulfilled with 101 and 102 courses at AWC or CLEP exam.</p>								

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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

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	
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TOTAL CREDITS	77-79	
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UNIVERSITY OF ARIZONA COURSES

Semester One

Course	Title	Units
APCV 302	Statistics in the Information Age	3
APCV 320	Computational Thinking and Doing	3
NETV 301	Virtualization: Applications & Best Practices	3
CYBV 326	Introductory Methods of Network	3
Total		12

Semester Two

Course	Title	Units
NETV 379	Cloud Computing	3
NETV 380	Introduction to Microsoft Azure	3
NETV 381	Introduction to Amazon Web Services	3
APCV 310	Introduction to Computing	3
Total		12

UNIVERSITY OF ARIZONA COURSES

Semester Three

Course	Title	Units
ENGV 306	Advanced Composition	3
CYBV 301	Fundamentals of Cyber Security	3
CYBV 329	Cyber Ethics	3
GEN ED	Building Connections: Upper Division	3
Total		12

Semester Four

Course	Title	Units
NETV 479	Advanced Cloud Computing: Applications and Best Practices	3
NETV 480	Cloud Security: Incident Response, Penetration Testing, & Advanced Defense	3
APCV 498	Senior Capstone	3
Total		9

AAS in Informatics	77-79
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BAS Degree	45+
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