



THE UNIVERSITY OF ARIZONA
Yuma

WESTERN CATS

Applied Computing: Cloud Computing 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 Infor-	3
CIS 175	Computer Security	3
Total		13

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		4
Total		16

Semester Three		
Course	Title	Units
CIS 270	Networking Fundamentals	3
CSC 127A	Programming I (Java)	4
Additional Course (AGEC)		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 In- troduction to Structured Programming	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
Additional Course (AGEC)		3
Focus Area		3/4
Focus Area		3/4
Total		16/18

Total AGEC Credits	36+	
Total Required Major Credits	32	
INFORMATICS AREAS OF FOCUS CREDITS	9-11	
TOTAL CREDITS	77-79	



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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

Total AGE Credit	36+	
Total Required Major Credits	32	
INFORMATICS AREAS OF FOCUS CREDITS	9-11	
TOTAL CREDITS	77-79	



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UNIVERSITY OF ARIZONA COURSES STARTING IN FALL

Semester One (Fall)		
Course	Title	Units
APCV 302	Statistics in the Information Age	3
APCV 320	Computational Thinking and Doing	3
CYBV 329	Cyber Ethics	3
ENGV 306	Advanced Composition	3
Total		12

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

NOTE: This is the advised sequence course for the B.A.S. in Applied Computing. The official degree requirements can be found in The University of Arizona catalog.

IMPORTANT: SIE 295. Introduction to UA, APCV 391. Preceptorship, APCV 393. Internship and APCV 499. Independent Study are highly recommended.

UNIVERSITY OF ARIZONA COURSES STARTING IN FALL

Semester Three (Fall)		
Course	Title	Units
CYBV 326	Introductory Methods of Network	3
NETV 301	Virtualization: Applications and Best	3
CYBV 301	Fundamentals of Cyber Security	3
Total		9

Semester Four (Spring)		
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

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

AGEC A	36+	
AA in Informatics	77-79	
BAS Degree	45+	



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UNIVERSITY OF ARIZONA COURSES STARTING IN SPRING

Semester One (Spring)		
Course	Title	Units
APCV 320	Computational Thinking and Doing	3
CYBV 301	Fundamentals of Cyber Security	3
APCV 310	Introduction to Computing	3
NETV 379	Cloud Computing	3
Total		12

Semester Two (Fall)		
Course	Title	Units
APCV 302	Statistics in the Information Age	3
NETV 301	Virtualization: Applications and Best	3
CYBV 329	Cyber Ethics	3
ENGV 306	Advanced Composition	3
Total		12

NOTE: This is the advised sequence course for the B.A.S. in Applied Computing. The official degree requirements can be found in The University of Arizona catalog.

IMPORTANT: SIE 295. Introduction to UA, APCV 391. Preceptorship, APCV 393. Internship and APCV 499. Independent Study are highly recommended.

UNIVERSITY OF ARIZONA COURSES STARTING IN SPRING

Semester Three (Spring)		
Course	Title	Units
NETV 479	Advanced Cloud Computing: Applications and Best Practices	3
NETV 480	Cloud Security: Incident Resource, Penetration Testing, & Advanced Defense	3
NETV 380	Introduction to Microsoft Azure	3
NETV 381	Introduction to Amazon Services	3
Total		12

Semester Four (Fall)		
Course	Title	Units
CYBV 326	Introductory Methods of Network	3
APCV 498	Senior Capstone	3
Total		6

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

AGEC A	36+	
AA in Informatics	77-79	
BAS Degree	45+	