WESTERN CATS

Applied Computing: DevOps 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 Introduction to Structured Programming	3
CIS 271	Network Administration	3
ECN 240 or 250	Intro to Macroeconomics or Intro to Microeconomics	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 AGEC Credits	**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**
CYBV 326	Introductory Methods of Network Analysis	3
CYBV 301	Fundamentals of Cyber Security	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.

Semester Three (Fall)		
Course	**Title**	**Units**
APCV 360	Database Management Fundamentals	3
CYBV 302	Linux Security Essentials	3
CYBV 303	Windows Security Essentials	3
NETV 382	Network Defense, Incident Response &	3
	Total	12

Semester Four (Spring)		
Course	**Title**	**Units**
NETV 378	System Administration	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+	

WESTERN CATS

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UNIVERSITY OF ARIZONA COURSES
STARTING IN SPRING

Semester One (Spring)		
Course	Title	Units
CYBV 301	Fundamentals of Cyber Security	3
APCV 310	Introduction to Computing	3
CYBV 329	Cyber Ethics	3
ENGV 306	Advanced Composition	3
	Total	12

Semester Two (Fall)		
Course	Title	Units
APCV 302	Statistics in the Information Age	3
APCV 320	Computational Thinking and Doing	3
NETV 303	Windows Security Essentials	3
CYBV 302	Linux Security Essentials	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
CYBV 326	Intro to Network Design and Architec-	3
NETV 379	Cloud Computing	3
NETV 378	System Administration	3
	Total	9

Semester Four (Fall)		
Course	Title	Units
NETV 382	Network Defense, Incident Response & Disaster Recovery	3
APCV 360	Database Management Fundamentals	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+