



Applied Computing: Software Development 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	Intro to Macroeconomics or Intro	3
ECN 250	to Microeconomics	
CIS 170	Microcomputer Installation and	3
	Support	
CIS 260	Introduction to Operating Systems	3
Physical/Bio	logical Sciences (AGEC) - Ex. CHM	4
151		
	Total	16

Semester Three		
Course	Title	Units
CIS 270	Networking Fundamentals	3
CSC 127A	Programming I (Java)	4
AGEC Additional Course		3
Arts (AGEC) E	k. MUS 120	3
Humanities (A	GEC) - Ex. PHI 101	3
	Tota	ıl 16

ARIZONA WESTERN COLLEGE COURSES

Semester Four		
Course	Title	Units
CIS 180 or	Computer Programming Logic or In-	3
EGR 123	troduction to Structured Programming	
CIS 271	Network Administration	3
ECN 240 or	Intro to Macroeconomics or Intro to	3
250	Microeconomics	
Focus Area		3/4
Physical or E	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
AGEC Additi	onal Course	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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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	

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





Applied Computing: Software Development Emphasis 2021-2022

UNIVERSITY OF ARIZONA COURSES START FALL

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

Semester Two		
Course	Title	Units
CYBV 301	Fundamentals of Cyber Security	3
APCV 361	Data Analysis and Visualization	3
APCV 310	Introduction to Computing	3
CSCV 335	Object-Oriented Programming and Design	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 START FALL

Semester Three		
Course	Title	Units
CSCV 381*	Mobile Device Programming	3
CSCV 352	Systems Programming and Unix	3
APCV 361	Data Analysis and Visualization	3
APCV 401	Introduction to Human-Computer Interaction	3
	Total	12

Semester Four		
Course	Title	Units
CSCV 337	Web Programming	3
APCV 498	Senior Capstone	3
	Total	6

*Software Development track students can make the following elective substitutions with the following courses: CSCV 460 Database Design, CYBV 473 Violent Python and APCV 496 Special Topics in Informatics.

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+	





Applied Computing: Software Development Emphasis 2021—2022

UNIVERSITY OF ARIZONA COURSES START SPRING

Semester One		
Course	Title	Units
APCV 310	Introduction to Computing	3
APCV 320	Computational Thinking and Doing	3
ENGV 306	Advanced Composition	3
APCV 302	Statistics in the Information Age	3
	Total	12

Semester Two		
Course	Title	Units
CYBV 301	Fundamentals of Cyber Security	3
APCV 361	Data Analysis and Visualization	3
APCV 401	Introduction to Human-Computer Interaction	3
CYBV 329	Cyber Ethics	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 START SPRING

Semester Three		
Course	Title	Units
CSCV 335	Object-Oriented Programming and	3
CSCV 337	Web Programming	3
CYBV 326	Introductory Methods of Network	3
	Total	9

Semester Four		
Course	Title	Units
CSCV 352	Systems Programming and Unix	3
APCV 498	Senior Capstone	3
CSCV 381*	Mobile Device Programming	3
	Total	9

*Software Development track students can make the following elective substitutions with the following courses: CSCV 460 Database Design, CYBV 473 Violent Python and APCV 496 Special Topics in Informatics.

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+	