



THE UNIVERSITY OF ARIZONA
Yuma

WESTERN CATS

Applied Computing: Information Management 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 Courses (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 Courses (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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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 AGECE 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		
Course	Title	Units
APCV 302	Statistics in the Information Age	3
CYBV 329	Cyber Ethics	3
ENGV 306	Advanced Composition	3
APCV 302	Statistics in the Information Age	3
Total		12

Semester Two		
Course	Title	Units
APCV 320	Computational Thinking and Doing	3
CYBV 326	Introductory Methods of Network Analysis	3
APCV 310	Introduction to Computing	3
APCV 403*	Principles of Web 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 STARTING IN FALL

Semester Three		
Course	Title	Units
APCV 360	Database Management Fundamentals	3
APCV 361	Data Analysis and Visualization	3
APCV 401	Introduction to Human-Computer Interaction	3
Total		9

Semester Four		
Course	Title	Units
CSCV 337	Web Programming	3
CSCV 460	Database Design	3
APCV 498	Senior Capstone	3
Total		9

*Information Management track students can make the following elective substitutions with the following courses: NETV 378 System Administration, NETV 379 Cloud Computing, 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+	



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WESTERN CATS

Applied Computing: Information Management Emphasis 2021—2022

UNIVERSITY OF ARIZONA COURSES STARTING IN SPRING

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

Semester Two		
Course	Title	Units
CYBV 329	Cyber Ethics	3
CYBV 301	Fundamentals of Cyber Security	3
APCV 360	Database Management Fundamentals	3
APCV 361	Data Analysis and Visualization	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		
Course	Title	Units
APCV 403*	Principles of Web Design	3
CSCV 460	Database Design	3
CSCV 337	Web Programming	3
CYBV 326	Introductory Methods of Network Analysis	3
Total		12

Semester Four		
Course	Title	Units
APCV 401	Introduction to Human-Computer	3
APCV 498	Senior Capstone	3
Total		6

*Information Management track students can make the following elective substitutions with the following courses: NETV 378 System Administration, NETV 379 Cloud Computing, 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+	