



## Applied Computing: Information Management 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	Physical/Biological Science (ex: ENV	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			INFORMATICS AREAS OF FOCUS CREDITS 9-11		
Course	Title	Units	TOTAL CREDITS 77-79		
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			

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

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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 INFORMATION MANAGEMENT

Course	Title	Units
CSC 127B	Computer Programming 2	4
CSC 215	Artificial Intelligence	4
CSC 252	Computer Organization	3
Total		11

<b>INFORMATICS AREAS OF FOCUS CREDITS</b>	<b>9-11</b>	
<b>TOTAL CREDITS</b>	<b>77-79</b>	

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### UNIVERSITY OF ARIZONA COURSES

#### Semester One

Course	Title	Units
ENGV 306	Advanced Composition	3
CYBV 301	Fundamentals of Cyber Security	3
APCV 302	Statistics in the Information Age	3
APCV 320	Computational Thinking and Doing	3
Total		12

#### Semester Two

Course	Title	Units
CYBV 326	Introductory Methods of Network Analysis	3
CYBV 329	Cyber Ethics	3
APCV 310	Introduction to Computing	3
CSCV 337	Web Programming	3
Total		12

\*\*Information Management students may choose one of the following Information Management course electives:

NETV 378: System Administration, NETV 379: Cloud Computing, APCV 403: Principles of Web Design, or APCV 496 Special Topics in Informatics.

### UNIVERSITY OF ARIZONA COURSES

#### Semester Three

Course	Title	Units
APCV 360	Database Management Fundamentals	3
APCV 361	Data Analysis and Visualization	3
APCV Elective**	APCV 403: Principles of Web Design, APCV 496: Special Topics, NETV 378 System Administration, or NETV 379:	3
Total		12

#### Semester Four

Course	Title	Units
GEN ED	Building Connections: Upper Division GEN ED Course	3
CSCV 460	Database Design	3
APCV 498	Senior Capstone	3
APCV Elective*	APCV 403: Principles of Web Design, APCV 496: Special Topics, NETV 378 System Administration, or NETV 379: Cloud Computing	3
Total		12

<b>AAS in Informatics</b>	<b>77-79</b>
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<b>BAS Degree</b>	<b>45+</b>
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