

A.A.S. in Informatics

Catalog Year 2019-2020

Below is the advised sequence of courses for this degree program.

The official degree requirements can be found in AWC's Catalog.

Course Number and Title	Units	Prerequisites	Part of the Program
1st SEMESTER (FALL)			
ORI/ CIS 105 (H) Introduction to Business Information Systems	3	ENG 101 eligibility or completion of RDG 121, or appropriate reading score (>65), and MAT 142 eligibility or *AHLM	Required Major Course
ENG 101 Freshman English	3	ENG 100 or appropriate placement test scores	AGEC-A Requirement
CIS 175 Computer Security	3		Required Major Course
MAT 151 College Algebra	4	MAT 121 or score on CPT	AGEC-A Requirement
Total Credits	13		

2nd SEMESTER (SPRING)			
CIS 260 Introduction to Operating Systems	3	CIS 105 or CIS 120	Required Major Course * CONFIGURING WINDOW DEVICES Microsoft Exam 70-697 & CompTIA Linux +
ENG 102 Freshman Composition	3	ENG 101	AGEC-A Requirement
CIS 170 Microcomputer Installation and Support	3	CIS 105 or CIS 120	Required Major Course * A+ CompTIA Exams 220-901 and 220-902
Physical or Biological Science	4	ENG 101	AGEC-A Requirement
ECN 240 (G) Intro to Macroeconomics Or ECN 250 (G) Intro to Microeconomics (SOCIAL/BEHAVIORAL SCIENCES)	3	ENG 101 and MAT 142 eligibility	AGEC-A Requirement
Total Credits	16		

3rd SEMESTER (FALL)			
Arts/Humanities (C,WI)	3	ENG 101	AGEC-A Requirement
CSC 127A Introduction to Computer Science 1	4	CIS 105 or CIS 120 and MAT 151 or approved higher level of math	Required Major Course
CIS 270 Networking Fundamentals	3	CIS 260 Intro to Operating Systems	Required Major Course
Arts/Humanities (C,WI)	3	ENG 101	AGEC-A Requirement
Writing Intensive General Ed.	3	ENG 101	AGEC-A Requirement
Total Credits	16		

4th SEMESTER (SPRING)			
CIS 180 Computer Programming Logic Or EGR 123 Introduction to Structured Programming	3	CIS 105 or CIS 120 Either MAT 187 or Both MAT 151 and MAT 184	Required Major Course
ECN 240 (G) Intro to Macroeconomics Or ECN 250 (G) Intro to Microeconomics (SOCIAL/BEHAVIORAL SCIENCES)	3	ENG 101 and MAT 142 eligibility	Required Major Course & AGECE-A Requirement

CIS 271 Network Administration	3	CIS 260 Intro to Operating Systems	Required Major Course *CompTIA SERVER+ Exam SK0-004 ADMINISTERING WINDOWS SERVER 2012 & Microsoft Exam 70-411 & CompTIA Network +
FOCUS AREA	3/4		Focus Area Requirement
Physical or Biological Science	4		AGEC
Total Credits	16/17		

5th SEMESTER (FALL)			
CSC 210 Human Computer Interaction	4	CSC 127A	Required Major Course
CIS 272 Network Routing and Switching	3	CIS 270	Required Major Course CISCO exam 100-105 ICND1 (NETWORK+ WITH ADDITIONAL STUDY) CompTIA exam Network+ N10-006
Writing Intensive General Ed.	3	ENG 101	AGEC-A Requirement
FOCUS AREA CHOICE	3/4		Focus Area Requirement
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Total Credits	16/18		

FOCUS AREAS COURSES	Units	Prerequisites & Certifications
SYSTEM ADMINISTRATION		
CIS 231 Database Design and Programming	3	MAT 081 or higher and CIS 105 or CIS 120
CIS 151 Web Design	3	CIS 105 or CIS 120
CIS 295 Structured System Analysis & Design	3	CIS 180
Total Credits	9	
DIGITAL DESIGN		
CIS 231 Database Design and Programming	3	MAT 081 or higher and CIS 105 or CIS 120
GRA 101 Intro to Graphic Communication	4	
GRA 104 Digital Imaging 1	4	
Total Credits	11	
CYBER OPERATIONS		
CIS 275 Fundamental of Network Security	3	CIS 175+CIS 275=* SECURITY + CompTIA exam SYO-501
CSC 127B Computer Programing 2	4	CSC 127A
MAT 227 Discrete Math	3	MAT 151 or MAT 187
Total Credits	10	
SOFTWARE DEVELOPMENT/ INFORMATION MANAGEMENT		
CSC 127B Computer Programing 2	4	CSC 127A
CSC 215 Artificial Intelligence	4	CSC 127A
CSC 252 Computer Organization	3	CSC 127A
Total Credits	11	

TOTAL AGE CREDITS: 36+

TOTAL REQUIRED MAJOR CREDITS: 32

INFORMATICS AREAS OF FOCUS CREDITS: 9-11

TOTAL A.A.S. CREDITS: 77-79

* It is highly recommended that additional studying be done using specific certification exam materials.

*Prerequisites & Certifications are subject to change (Rev. 05/16/19).