



WESTERN CATS

Informatics

2019-2020 Program Plan

To schedule an appointment with an enrollment counselor or advisor: (928) 782-1914

Year One

Semester One

Course	Title	Units	Complete
ENG 101	Freshman English	3	
MAT 151	College Algebra	4	
ORI/CIS 105	Intro to Business Information Systems	3	
CIS 175	Computer Security	3	
Total		13	

Semester Two

Course	Title	Units	Complete
ECN 240 Or ECN 250	Intro to Macroeconomics Or Intro to Microeconomics (SOCIAL/BEHAVIORAL SCIENCES)	3	
CIS 260	Intro to Operating Systems	3	
ENG 102	Freshman Composition	3	
CIS 170	Microcomputer Installation and Support	3	
Physical or Biological Science		4	
Total		16	

Semester Three

Course	Title	Units	Complete
Arts or Humanities		3	
CSC 127A	Intro to Computer Science 1	4	
CIS 270	Networking Fundamentals	3	
Arts or Humanities		3	
Writing Intensive General Ed.		3	
Total		16	

Total Year 1 Credits 45

Year Two

Semester Four

Course	Title	Units	Complete
CIS 271	Network Administration	3	
ECN 240 Or ECN 250	Intro to Macroeconomics Or Intro to Microeconomics (SOCIAL/BEHAVIORAL SCIENCES)	3	
CIS 180 Or EGR 123	Computer Programming Logic Or Introduction to Structured Programming	3	
FOCUS AREA		3/4	
Physical or Biological Science		4	
Total		16/17	

Semester Five

Course	Title	Units	Complete
CIS 210	Human Computer Interaction	4	
CIS 272	Network Routing & Switching	3	
Writing Intensive General Ed.		3	
FOCUS AREA CHOICE		3/4	
FOCUS AREA CHOICE		3/4	
Total		16/18	

TOTAL AGEC CREDITS 36+

TOTAL REQUIRED MAJOR CREDITS 32

INFORMATICS AREAS OF FOCUS CREDITS 9-11

TOTAL A.A.S. CREDITS 77-79

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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Start UA Spring

OR

Start UA Fall

Year Three

Spring - Semester Six			
Course	Title	Units	Complete
AEDV 310	Transitional Resiliency	3	
INFV 302	Statistics in the Information	3	
ENGV 306	Advanced Composition	3	
INFV 310	Intro to Informatics	3	
	Focus Area Course	3	
Total		13	

Year Four

Fall - Semester Seven			
Course	Title	Units	Complete
BASV 326	Intro to Network Analysis	3	
CYBV 329	Cyber Ethics	3	
INFV 320	Computational Thinking & Doing	3	
ETCV 401	Intro to Human/Computer Interaction	3	
	Focus Area Course	3	
Total		15	

Spring - Semester Eight			
Course	Title	Units	Complete
CYBV 301	Fundamentals of Cybersecurity	3	
INFV 498	Senior Capstone	3	
	Focus Area Course	3	
	Focus Area Course	3	
	Focus Area Course	3	
Total		15	

Year Three

Fall - Semester Six			
Course	Title	Units	Complete
AEDV 310	Transitional Resiliency	3	
ENGV 306	Advanced Composition	3	
INFV 320	Computational Thinking & Doing	3	
ETCV 401	Intro to Human/Computer Interaction	3	
	Focus Area Course	3	
Total		15	

Year Four

Spring - Semester Seven			
Course	Title	Units	Complete
INFV 302	Statistics in the Information	3	
INFV 310	Intro to Informatics	3	
INFV 498	Senior Capstone	3	
CYBV 301	Fundamentals of Cybersecurity	3	
	Focus Area Course	3	
Total		15	

Fall - Semester Eight			
Course	Title	Units	Complete
CYBV 329	Cyber Ethics	3	
BASV 326	Intro to Network Analysis	3	
	Focus Area Course	3	
	Focus Area Course	3	
	Focus Area Course	3	
Total		15	

AAS in Informatics with AGECE-A	77-79	
BAS in Informatics	45	
Total	122-124	



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FOCUS AREA COURSES

INFORMATION MANAGEMENT

Course	Title	Units	Complete
CIS 127b	Computer Programming 2	4	AWC
CSC 215	Artificial Intelligence	4	AWC
CSC 252	Computer Organization	3	AWC
INFV 360	Database Management Fundamentals	3	UA
INFV 361	Data Analysis and Visualization	3	UA
CSCV 337	Web Programming	3	UA
CSCV 460	Database Design	3	UA
NETV/ETCV	Information Management Elective	3	UA
Total		26	

SOFTWARE DEVELOPMENT

Course	Title	Units	Complete
CIS 127b	Computer Programming 2	4	AWC
CSC 215	Artificial Intelligence	4	AWC
CSC 252	Computer Organization	3	AWC
CSCV 335	Object-Oriented Programming and Design	3	UA
CSCV 337	Web Programming	3	UA
CSCV 352	System Programming and Unix	3	UA
INFV 361	Data Analysis and Visualization	3	UA
CSCV XXX	Software Development Elective	3	UA
Total		26	

FOCUS AREA COURSES

SYSTEM ADMINISTRATION/NETWORK OPERATIONS

Course	Title	Units	Complete
CIS 131	Data Base	3	AWC
CIS 151	Web Design	3	AWC
CIS 295	Structured System Analysis & Design	3	AWC
NETV 370	Network Design & Architecture	3	UA
NETV 371	Network Security	3	UA
NETV 375	Advanced Routing	3	UA
NETV 379	Cloud Computing	3	UA
NETV XXX	Network Operations Elective	3	UA
Total		24	

DIGITAL DESIGN

Course	Title	Units	Complete
CIS 131	Data Base	3	AWC
GRA 104	Digital Imaging 1	4	AWC
GRA 105	Digital Imaging 2	4	AWC
INFV 403	Principles of Web Page Design	3	UA
INFV 405	Intro to Serious Game Design	3	UA
INFV 406	Intro to Game Development	3	UA
INFV 361	Data Analysis and Visualization	3	UA
INFV/NETV	Digital Design Elective	3	UA
Total		26	

CYBER OPERATIONS

Course	Title	Units	Complete
CIS 275	Fundamental of Network Security	3	AWC
CSC 127B	Computer Programming 2	4	AWC
MAT 227	Discrete Math	3	AWC
UA	Follow BAS in Cyber Operations		UA