



# WESTERNCATS

# **Reverse Engineering**

## 2019-2020

# Summer Course Title Units Complete MAT 187 Pre Calculus\* 4 ENG 101 Freshman Composition I 3 Total 7

	Semester One			
Course	Title	Units	Complete	
ENG 102	Freshman Composition II	3		
CHM 151	General Chemistry I	4		
MAT 220	Calculus I	5		
PHI 103	Intro to Logic	3		
AGEC-S	Art	3		
	Total	18		

Semester Two			
Course	Title	Units	Complete
ECN 250	Microeconomics	3	
MAT 230	Calculus II w/ Geometry	5	
EGR 123	Intro to Structured Program- ming <sup>1</sup>	3	
PHY 121	Mechanics	4	
AGEC-S	Social Science	3	
	Total	18	

Total Year 1 Credits	43	

#### **Year Two**

Semester Three			
Course	Title	Units	Complete
MAT 241	Calculus III	4	
PHY 131	Electricity & Mag	4	
CSC 127a	Intro to Comp. Science I	4	
MAT 262	Intro to Ordinary Differential	3	
	Equations		
AGEC-S	Humanities- WI	3	
	Total	18	

Semester Four			
Course	Title	Units	Complete
CSC 127b	Intro to Comp. Science II	4	
MAT 227	Discrete Mathematics	3	
CSC 252	Computer Organization	3	
CSC 210	Human Computer Interaction	4	
Arts/Humanit	Arts/Humanities (AGEC) - Ex. MUS 120 for art		
	Total	17	

Total Year 2 Credits	35	

<sup>1</sup>Prerequisites include MAT 187 or MAT 151 & 183 or placement testing

\*Courses serve as pre-requisite, completion not required for degree

# Start UA Fall

# <u>OR</u>

# **Start UA Spring**

## **Year Three**

	Fall - Semester Five			
Course	Title	Units	Complete	
195	Introduction to UA	1		
CYBV 362	Intro Network Analysis	3		
CYBV 301	Fundamentals of Cyber Security	3		
INFV 320	Computational Thinking and Doing	3		
CYBV 385	Intro to Cyber Operations	3		
	Total	13		

	Spring- Semester Six			
Course	Title	Units	Complete	
ETCV 391	Preceptorship	3		
BATSV 314	Mathematics for Applied Science	3		
CYBV 388	Cyber Investigations and Forensics	3		
CYBV 329	Cyber Law, Ethics & Policy	3		
CYBV 400	Active Cyber Defense	3		
	Total	15		

## **Year Four**

Fall - Semester Seven			
Course	Title	Units	Complete
ENGV 306	Advanced Composition	3	
CYBV 393	Internship in Cyber Operations	3	
CYBV 435	Cyber Threat Intelligence (435),	3	
CYBV 454	Malware Threats & Analysis		
GPSV 471	National Security & Intelligence		
	Total	9	

Spring - Semester Eight			
Course	Title	Units	Complete
CYBV 480	Cyber Warfare	3	
CYBV 498	Senior Capstone	3	
	Total	6	

#### **Year Three**

Spring- Semester Five			
Course	Title	Units	Complete
ASM 195	Introduction to UA	1	
CSCV 335	Object Oriented Programming	3	
CSCV 345	Discrete Structures	3	
AEDV 310	Transitional Resiliency	3	
Focus Area		6	
	Total	16	

Fall - Semester Six			
Course	Title	Units	Complete
CSCV 352	Systems Programming & UNIX	3	
CSCV 372	Comparative Programming Lan-	3	
	guages		
Focus Area		3	
ETCV 391	Preceptorship	3	
	Total	12	

## **Year Four**

Spring - Semester Seven				
Course	Title	Units	Complete	
CSCV 452	Principles of Operating Systems	3		
CSCV 460	Database Design	3		
CSCV 473	Automata, Grammars, & Languages	3		
INFV 498	Senior Capstone	3		
	Total	12		

Fall - Semester Eight				
Course	Title	Units	Complete	
CSCV 453	Compilers & Systems Software	3		
CSCV 381	Mobile Device Programming	3		
Focus Area		3		
INFV 393	Internship	3		
Total		12		