SOFTWARE ENGINEERING, B.A.T.

Course	Title	Hours
Semester 1		
COLL 101	ORIENTATION TO COLLEGE ⁰	0
CS 121	INTRODUCTION TO PROGRAMMING ¹	4
CIT 114	WINDOWS OPERATING SYSTEMS	3
Quantitative Reasoning Elective		3
MATH 125	TECHNICAL MATHEMATICS	
or MATH 126	or ~COLLEGE ALGEBRA	
or MATH 128	or ~COLLEGE TRIGONOMETRY	
or MATH 141	or ~FINITE MATH or INTRODUCTION TO CALCULUS	
or MATH 150 or MATH 155	or in reduction to calculus or ~CALCULUS 1	
or MATH 156	or ~CALCULUS 2	
Writing and Rhetoric (https://wvup-public	c.courseleaf.com/programs-study/general-education-mission/#wr) Elective (ENGL 101 Preferred)	3
	Hours	13
Semester 2		
CS 122	OBJECT ORIENTED PROGRAMMING	4
CIT 130	PRIN OF INFORMATION SYSTEMS	3
CS 129	INTRO TO WEB PAGE DESIGN	3
CS 201	DATABASE THEORY AND DESIGN	3
Free Elective		3
1100 21001110	Hours	16
Semester 3	Titulia	10
CS 220	WEB APPLICATION DEVELOPMENT	3
CIT 105	INTRODUCTION TO NETWORKS ²	5
	ourseleaf.com/programs-study/general-education-mission/#si) Elective (PHYS 101 is preferred)	4
Select one of the following:	unselean.com/programs study/general education mission/#3/j Elective (17175-10178 preferred)	3
	on (https://wvup-public.courseleaf.com/programs-study/general-education-mission/#aca)	3
	ion (https://wvup-public.courseleaf.com/programs-study/general-education-mission/#hci)	
reopie and Their Worlds (https://wwt	p-public.courseleaf.com/programs-study/general-education-mission/#ptw) (Preferred) Hours	15
Semester 4	nouis	13
Select one of the following:		3
•	an (letter) / // www.m.u.blic.com/margement at the form and advantion mission /#aga	3
	on (https://wvup-public.courseleaf.com/programs-study/general-education-mission/#aca)	
	ion (https://wvup-public.courseleaf.com/programs-study/general-education-mission/#hci) (Preferred)	
	p-public.courseleaf.com/programs-study/general-education-mission/#ptw) DATA STRUCTURES ¹	4
CS 221	INTRODUCTION TO LINUX ^{1,3}	4
CIT 240	SECURITY FUNDAMENTALS ⁴	3
SEC 101		3
CIT 260	CAPSTONE PROJECT ⁴	3
	Hours	16
Semester 5		
SEC 300	INTRO TO SECURITY	3
STEM 300	ETHICS AND TECHNOLOGY	3
CS 302	SYSTEM ANALYSIS AND DESIGN	3
Select one of the following:		3
, .,	on (https://wvup-public.courseleaf.com/programs-study/general-education-mission/#aca)	
Human Communication and Interacti	ion (https://wvup-public.courseleaf.com/programs-study/general-education-mission/#hci)	
People and Their Worlds (https://wvu	up-public.courseleaf.com/programs-study/general-education-mission/#ptw)	
Upper Level Elective		2
	Hours	14
Semester 6		
MATH 318	DISCRETE MATHEMATICS	3
CS 320	OBJECT ORIENTED DESIGN	3
CS 410	SOFTWARE MAINT & EVOLUTION	3
or CS 420	or ADVANCED WEB DEVELOPMENT	
CS 309	OPERATING SYSTEMS	3
or CS 321	or MOBILE APPLICATION DEVELOPMENT	
writing and knetoric (https://wvup-public	c.courseleaf.com/programs-study/general-education-mission/#wr) Elective: (ENGL 102 is preferred)	3
	Hours	•

2 Software Engineering, B.A.T.

Semester 7

Total Hours	120
Hours	16
or OPERATING SYSTEMS	
MOBILE APPLICATION DEVELOPMENT	3
	3
ic.courseleaf.com/programs-study/general-education-mission/#si) Elective (PHYS 102 is preferred)	4
or SOFTWARE MAINT & EVOLUTION	
ADVANCED WEB DEVELOPMENT	3
SENIOR PROJECT ⁴	3
Hours	15
/wvup-public.courseleaf.com/programs-study/general-education-mission/#ptw)	
eraction (https://wvup-public.courseleaf.com/programs-study/general-education-mission/#hci)	
ciation (https://wvup-public.courseleaf.com/programs-study/general-education-mission/#aca)	
	6
~STATISTICS	3
SOFTWARE ENGR & DATA STRUCTURE	3
PROJECT MANAGEMENT 1	3
7	SOFTWARE ENGR & DATA STRUCTURE ~STATISTICS ciation (https://wvup-public.courseleaf.com/programs-study/general-education-mission/#aca) raction (https://wvup-public.courseleaf.com/programs-study/general-education-mission/#hci) //wvup-public.courseleaf.com/programs-study/general-education-mission/#ptw) Hours SENIOR PROJECT ADVANCED WEB DEVELOPMENT or SOFTWARE MAINT & EVOLUTION ic.courseleaf.com/programs-study/general-education-mission/#si) Elective (PHYS 102 is preferred) MOBILE APPLICATION DEVELOPMENT or OPERATING SYSTEMS

Institutional Graduation Requirement, but does not count in degree total.

- Milestone Course
- ² CISCO 1
- 3 LINUX Cert.
- 4 Capstone Course