COMPUTER SCIENCE- CYBERSECURITY FALL 2021-2022

CORE REQUIREMENTS	DESCRIPTION	CREDIT HOURS	OFFERED FALL	OFFERED JTERM	OFFERED SPRING	TAKE	PREREQ	FOUNDATIONAL CORE	Notes
COS103	Computer Science and Engineering: All New Majors Orientaiton (Course fee for Retreat)	1	F			FR/ New Major		Computation requirement	
COS 109	Computer and Network Operations	3			S	FR			
COS120	Introduction to Computational Problem Solving	4	F		S	Fall-FR		Computation requirement	
COS121	Foundations of Computer Science	4	F		S	Spring-FR	SYS 120 or COS 130 or SYS 120		
COS143	Interactive Webpage Design	3	F	J-TERM		Jterm-FR			
COS232	Computer and Network Security I	3	F			SO	COS 121		
COS243	Multi-tier Web Application Development	3	F		S	SO/JR			
COS265	Data Structures and Algorithms	4	F			SO	COS 121		
COS284	Introduction to Computer Systems	3			S	SO	COS 121 and MAT 215		
COS311 or COS321H	Ethics in Computer Science	3			S	JR		(COS321H) Computation requirement	
COS323	Computer and Network Security II	3			ODD	JR	COS 232		
COS331	Data Communications	3			S	SO	COS 121		
COS343	Database Systems	3	F			SR	COS 121		
COS393	Practicum (summer credit hour costs apply)	3		Summer		JR			
COS411	Digital Forensics	3	EVEN			JR/SR	COS 331		
COS421	Operating Systems	3			ODD	JR/SR	COS 265 and COS 284		
COS432	Software Reverse Engineering and Analysis	3	ODD			JR/SR	COS 284		
COS492	Senior Project-SP	3		J-TERM		SR	SENIOR STATUS		
COS493	Computer Science Senior Capstone	1	F			SR	SENIOR STATUS		
MAT151	Calculus I	4	F			FR	MAT 145 and MAT 146 may be taken as a two-semester substitute for MAT 151	mathematics requirement	
MAT210	Introductory Statistics	4	F		S	FR		mathematics requirement	
MAT215	Discrete Mathematics for CS	3	F			SO	COS 120 or COS 130 or SYS 120; and MAT 146 or MAT 151		
POS350	International Security	3	ODD			JR			

70 HOURS

Select TWO of the Following:

	DESCRIPTION	CREDIT HOURS	OFFERED FALL	OFFERED JTERM	OFFERED SPRING	TAKE	PREREQ		
COS280	Introduction to Artificial Intelligence	3			currently not offered		COS 121		
COS320	Algorithm Design	3			EVEN	JR/SR	COS 265 and MAT 215		
COS381	Computer Architecture	3	ODD			JR/SR	COS 284		
COS382	Language Structures	3			ODD	JR/SR	COS 265		
COS435	Theory of Computation	3	EVEN			JR/SR	COS 265		
COS436	Parallel and Distributed Computing	3	EVEN			JR/SR	COS 265 and COS 284		

6 HOURS

ELECTIVES	Select electives to meet 77 total hours								
COS230	Missions Technology-CC	3			TBD				
COS280	Introduction to Artificial Intelligence	3			Currently not offered		COS 121		
COS3__	Any 300-level COS course*	1 - 4							
COS4__	Any 400-level COS course*	1 - 4							
NAS480	Seminar	1	F						

Attendance at 21 Computer Science and Engineering sanctioned events is required

BS 77 Hours TOTAL

Courses may not be used to fulfill more than one of: Core Requirements, Systems or Electives.

Degree Requirements

128 minimum hours and 42 minimum upper-division hours (3XX/4XX course numbers).

Fifty percent of the minimum hours must be completed at Taylor- 64 hours.

Fifty percent of the major/minor hours must be completed at Taylor.

22 of the last 30 hours earned must be completed at Taylor.

Cumulative GPA of 2.0; major GPA of 2.3 (higher GPA may be required in certain curricula). (See current catalog for policy).

All foundational cour, major, minor, and proficiency requirements must be completed (including Senior Comprehensive Exam/Paper/Project).

Two years of one foreign language is required for the BA degree.

Candidates for 2 degrees must complete a minimum of 158 semester hours and meet all requirements for 2 different majors.