BA COMPUTER SCIENCE MAJOR - 2021-2022

Core Requirements	DESCRIPTION	CREDIT HOURS	FALL	OFFERED JTERM	SPRING	TAKE	PREREQ	FOUNDATIONAL CORE	Notes
COS102	Fundamentals of Systems and Computing	3	F			FR			
COS103	Computer Science and Engineering: All New Majors Orientaiton (Course fee for Retreat)	1	F			FR/ New Major			
COS120	Introduction to Computational Problem Solving	4	F		S	Fall-FR		Meets Foundation core 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	JTERM		FR	SYS 120 or COS 130 or SYS 120		
COS232	Computer and Network Security I	3			ODD	SO	COS 121		
COS243	Multi-tier Web Application Development	3	F			SO/JR	COS 121 and COS 143		
COS265	Data Structures and Algorithms	4	F			SO	COS 121		
COS284	Intro to Computer Systems	3			S	SO/JR	COS 121 and MAT 215		
COS492	Senior Project-SP	3		J-TERM		SR			
COS493	Computer Science Senior Capstone	1	F			SR	Senior Status		
MAT151	Calculus 1	4	F		S	FR	MAT 145 and MAT 146 may be taken as a two-semester substitute for MAT 151	Meets foundational core mathematics requirement	
MAT215	Discrete Math for Computer Science	3	F			FR/SO	COS 120 or COS 130 or SYS 120; and MAT 146 or MAT 151		
		39 hours							
Select ONE of the Following:									
COS311	Ethics in Computer Science (SP)	3			S	JR			
COS321	Ethics in Technology (not currently offered)	3			S	JR		This course is intended for students in the Honors Guild but will also meet the COS 311 requirement for majors in computer science and engineering. Meets foundational core computation requirement.	
Select ONE of the Following:									
COS320	Algorithm Design	3			EVEN	JR/SR	COS 265 and MAT 215		
COS382	Language Structures	3			ODD	JR/SR	COS 265		
COS435	Theory of Computation	3	EVEN			JR/SR	COS 265		
Select ONE of the Following:									
COS393	Practicum (summer credit hour costs apply)	3		Summer		JR			
COS394	Advanced Projects	3		By Request		JR			
COS450	Directed Research	3		By Request		JR	COS major and instructor permission		May be taken by any COS major with instructor approval. May be taken multiple times for credit
Select ONE of the Following:									
MAT210	Introductory Statistics	4	F		S	SO		Meets foundational core mathematics requirement	
MAT352	Mathematical Statistics	4	F			SO	MAT 240		
		13 Hours							
		52 Total Core Requirements							

Attendance at 21 Computer Science and Engineering sanctioned events is required

Select electives to meet 64 Total Hours from:

ANY COS COURSE; SYS 214, 352, 401, 402, 411; MGT 403; MAT 230, 240, 251, 310, 345; and NAS 480

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

64 TOTAL HOURS

Language Requirements for BA Degree -Complete four courses in one language option see catalog requirements

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.