

BS COMPUTER SCIENCE MAJOR - FALL 2021-2022

CORE REQUIREMENTS	DESCRIPTION	CREDIT HOURS	FALL	Jterm	SPRING	TAKE	PREREQ	FOUNDATIONAL CORE	Notes
COS102	Fundamentals of Systems and Computing	3	F			FR			
COS103	Computer Science and Engineering: All New Majors Orientation (Course fee for Retreat)	1	F			FR/ New Major			
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	Jterm		FR	SYS 120 or COS 130 or SYS 120		
COS232	Computer and Network Security I	3	F			SO	COS 121		
COS243	Multi-tier Web Application Development	3	F		S	SO	COS 121 and COS 143		
COS265	Data Structures and Algorithms	4	F			SO	COS 121		
COS284	Intro to Computer Systems	3			S	SO	COS 121 and MAT 215		
COS310	Current Literature Survey	1	F			JR	One 300-level COS Course		
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		
COS452	Research I	3			S	JR	COS 310 or instructor permission		
COS453	Research II (SP)	3	F			SR	COS 452 or instructor permission		
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	mathematics requirement	
MAT215	Discrete Math for Computer Science	3	F			SO	COS 120 or COS 130 or SYS 120; and MAT 146 or MAT 151		
49 Hours									
Select ONE of the Following:									
COS311	Ethics in Computer Science	3			S	J-Term SR			
							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.		
COS321	Ethics in Technology * (not currently offered)	3			S	SR			
Select ONE of the Following:									
MAT210	Introductory Statistics	4	F		S	SO		mathematics requirement	
MAT352	Mathematical Statistics	4	F			SO	MAT 240		
Select TWO of the Following:									
COS381	Computer Architecture	3	ODD			JR / SR	COS 284		
COS421	Operating Systems	3			ODD	JR / SR	COS 265 and COS 284		
COS436	Parallel and Distributed Computing	3	EVEN			JR / SR	COS 265 and COS 284		
13 Hours									
62 Total Core Hours									

Attendance at 21 Computer Science and Engineering sanctioned events is required

ELECTIVES

Select electives to meet 80 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, Concentrations, Systems or Electives.

80 TOTAL HOURS

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.

current catalog for policy).

Senior Comprehensive Exam/Paper/Project).

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

different majors.