TEXAS A&M UNIVERSITY – VICTORIA

RECOMMENDED COURSE SEQUENCE

BS in Computer Science (11.0101)

This table shows a sample recommended course sequence for this degree based on the TAMUV 2025 - 26 Catalog. Students should verify degree requirements and registration plans with an advisor to ensure accuracy. Please note that some degrees and colleges have specific GPA and other requirements.

First Year (Freshman)

SEMESTER 1	SCH	ACGM	SEMESTER 2	SCH	ACGM
CORE 020: MATH 1314	3	College Algebra	MATH 2312	3	Pre-Calculus
CORE 010: ENGL 1301	3	Composition I	CORE 010: ENGL 1302	3	Composition II
COSC 1336/1136	4	Programming Fundamentals I w/Lab	COSC 1337/1137	4	Programming Fundamentals II w/Lab
UNIV 1300	3	First-Year Seminar	CORE 090: SPCH 1315	3	Fundamentals of Public Speaking
CORE 060	3		CORE 060	3	
Total Hours	**16**		**Total Hours**	**16**	

Second Year (Sophomore)

SEMESTER 1	SCH	ACGM	SEMESTER 2	SCH	ACGM
CORE 030: w/Lab	4		CORE 030: w/Lab	4	
COSC 3317	3	Object Oriented Programming	MATH 2414	4	Calculus II
COSC 3331	3	Data Structures and Algorithms I	COSC 3333	3	Data Structures and Algorithms II
MATH 2413	4	Calculus I	CORE 070	3	
Total Hours	**14**		**Total Hours**	**14**	

Third Year (Junior)

SEMESTER 1	SCH	ACGM	SEMESTER 2	SCH	ACGM
MG1: CS MATH Group	3		MATH 3361	3	Linear Algebra
ENGL 3430	4	Professional Writing	COSC 3332	3	Computer Organization and Architecture
COSC 4339	3	Telecom and Networks	COSC 3335	3	Intro Theory of Computation
MATH 3362	3	Discrete Structures	COSC 4350	3	Info Sec, Privacy and Ethics
CORE 070	3		EG1: CIS Elective Group	3	
Total Hours	**16**		**Total Hours**	**15**	

Fourth Year (Senior)

SEMESTER 1	SCH	ACGM	SEMESTER 2	SCH	ACGM
MG1: CS MATH Group	3		COSC 4360	3	Senior Project
COSC 4320	3	Software Engineering	COSC 4331	3	Structure of Prog Languages
COSC 4336	3	Database Systems	CORE 040:	3	
COSC 4337	3	Operating Systems	CORE 050:	3	
CORE 080:	3		EG1: CIS Elective Group	3	
Total Hours	**15**		**Total Hours**	**15**	

Revised June 2025

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Group Name	Course Prefix	Course Number	Course Name	SCH
CS Math Group	MATH	2320	DIFFERENTIAL EQUATIONS	3
CS Math Group	MATH	3391	PROBABILITY & STATISTICS I	3
CIS Elective Group	COSC	3318	PYTHON PROGRAMMING	3
CIS Elective Group	COSC	3332	CMPTR ORGNZTN & ARCHITECTURE	3
CIS Elective Group	COSC	3334	INTRO TO CYBER SECURITY	3
CIS Elective Group	COSC	3335	INTRO TO THEORY OF COMPUTATION	3
CIS Elective Group	COSC	4300	SELECTED TOPICS IN COMP SCI	3
CIS Elective Group	COSC	4302	Independent Study	3
CIS Elective Group	COSC	4322	ARTIFICIAL INTELLIGENCE	3
CIS Elective Group	COSC	4323	DIGITAL IMAGE PROCESSING	3
CIS Elective Group	COSC	4331	STRUCTURE-PROGRMMNG LNGS	3
CIS Elective Group	COSC	4340	CLIENT-SERVER COMPUTING	3
CIS Elective Group	COSC	4342	DIGITAL FORENSICS	3
CIS Elective Group	COSC	4343	FUND OF CRYPTOGRAPHY	3
CIS Elective Group	COSC	4345	BASIC DATA VISUALIZATION	3
CIS Elective Group	COSC	4346	DATA ANALYTICS	3
CIS Elective Group	COSC	4355	IT SVC & PROCESS MGMT	3
CIS Elective Group	COSC	4360	SENIOR PROJECT	3
CIS Elective Group	MATH	3321	GAMING MATHEMATICS FOR NON-PRO	3
CIS Elective Group	MATH	3347	OPERATIONS RESEARCH	3
CIS Elective Group	MATH	3357	INTRO-HIGHER GEOMETRY	3
CIS Elective Group	MATH	3361	LINEAR ALGEBRA	3
CIS Elective Group	MATH	3365	INTRO TO MATHEMATICAL PROOFS	3
CIS Elective Group	MATH	4300	SEL TOPICS IN MATH SCI	3
CIS Elective Group	MATH	4302	INDEPENDENT STUDY	3
CIS Elective Group	MATH	4310	FUND CNCPTS OF ANALYSIS	3
CIS Elective Group	MATH	4311	MODERN ALGEBRA	3
CIS Elective Group	MATH	4351	MATHEMATICAL MODELING	3
CIS Elective Group	MATH	4378	NUMERICAL ANALYSIS	3
CIS Elective Group	MATH	4391	PROBABILITY & STATISTICS II	3