2026-2027
B.S. COMPUTER SCIENCE

GRACE CORE (39 credits)

Students will integrate faith and learning across disciplines, demonstrate foundational knowledge and ways of knowing, cultivate characteristics of maturity in relationships with God, others, self, and the world, and apply knowledge to all aspects of life through intellectual and practical skills.

1000-Level Courses

First-Year Learning Communities

FYE 1000	First-Year Foundations	3
BIB 1050	Exploring the Bible	3
PSY 1200	Essentials of Behavioral Science	3
HIS 1050	Current Issues in Historical Context	3

First-Year Learning Competencies

ENG 1100	Effective Writing	3
COM 1100	Public Speaking	3

2000-Level Courses

	HUM 2100	Creative Arts & Culture	3
@	HUM 2000	Global Perspectives	3
	SCI 2030	Faith, Science, & Reason	3
	HUM 2010-30	Cross-Cultural Field Experience	0
@	BIB 2010	Scripture and Interpretation	3

3000-Level Courses

	ECN 3000	Consumer Economics	3
	PHI 3010	Christianity and Critical Thinking	3
@	BIB 3300	Essential Doctrinal Themes	3

ADDITIONAL GENERAL EDUCATION-- B.S. DEGREE (6 credits)

Satisfies B.S. Degree

MAT 3200 Probability & Statistics	3
Any course with prefix: PSY, SOC, BHS, BUS, HIS, POS, GEO	3

THE MAJOR (66 credits)

Math Courses (16 credits)

MAT 1230	Calculus I	4
MAT 1240	Calculus I Lab	0
@ MAT 1250	Calculus II	3
@ MAT 2200	Discrete Mathematics	3
@ MAT 3130	Linear Algebra	3
MAT 4020	Math Sciences Senior Seminar	3

Computing Core (35 credits)

CSI 1120	First-Year Seminar	2
CSI 1151	Introduction to Computer Science	3
@ CSI 2100	Data Structures	3
@ CSI 2150	Object-Oriented Programming	3
@ CSI 3880	Database Programming	3
@ CSI 3060	Algorithm Analysis	3
@ CSI 3150	Operating Systems	3
@ CSI 2820	Computer Organization & Architecture	3
@ CSI 3250	Theory of Computation	3
@ CSI 3300	Network and Data Communication	3
@ CSI 2720	Software Engineering	3
@† CSC 2710/COMPS VIII	Modern Technologies	3

Experiential Learning (3 credits)

CSI 4730	Computer Science Internship	3

Available Elective Courses

ISM 4110	Client-Side Programming	3
@† CSC 4140/COMPS XIII	Capstone Project	3
@† Any CSC	Any LCMC courses from the concentrations	3
Any CSI or CIS	Any course with a CSI or CIS prefix	3
MAT 4830	Research in Mathematics	3

Choose a Concentration (12 credits)

Concentration 1: General Computer Science

Choose 4 available electives

Concentration 2: Data Analytics

@†	CSC 2240/ DSM I	Data Science I	3
@†	CSC 3240/ DSM II	Data Science II	3
@	MAT 4200	Probability Theory	3
@	MAT 4320	Mathematical Statistics	3

Concentration 3: Application Development

@†	CSC 2130/COMPS VII	Web Development	3
@†	CSC 3250/COMPS IX	Application Development I	3
@†	CSC 3350/COMPS X	Application Development II	3
	Choose 1 available elective		3

Concentration 4: Cybersecurity

†	CSC 1070/CYBER I	Introduction to Cybersecurity	3
@†	CSC 3200/CYBER III	Network and System Security	3
@†	CSC 2020/CYBER IV	Cybercrime & Governance	3
@†	CSC 3330/CYBER V	Security Operations	3

Concentration 5: Applied AI

@†	CSC 1200/AAI I	Introduction to Generative AI	3
†	CSC 2420/AAI II	Career Navigation & Exploration in AI	3
@†	CSC 2820/AAI III	Predictive Modeling in AI	3
@†	CSC 3620/AAI IV	Prescriptive AI	3

GRADUATION REQUIREMENTS

To receive a degree, each student must satisfy checksheet requirements, earn 120 credit hours, have a 2.2 GPA in major courses, a 2.0 GPA in minor courses, and a GPA of 2.0 overall. It is the student's responsibility to work with his/her advisor and monitor progress toward these goals. Some majors and/or minors may have more stringent guidelines.

IS A MINOR REQUIRED WITH THIS MAJOR? NO

Notes about this major:

CHECKSHEET TOTAL CREDITS: 111
TOTAL CREDITS NEEDED TO GRADUATE: 120

† Indicates a course taught by a partner college/university.

@ Indicates a course with prerequisites. Please review catalog for prereqs.