

Major: Computer Information Systems—Information Technology Concentration

Suggested Four-Year Major Plan (Academic Year 2016-2017)

The Suggested Four-Year Major Plan is a guide to help Caldwell University students complete their graduation requirements within four years. It is a suggested framework which builds upon the core curriculum as well as the required and elective courses within a student's major. This suggested plan does not include developmental courses. Should developmental courses be required, students will need to work with their Academic Advisor to include those additional courses; this may delay graduation in four years. Students should always meet with their Academic Advisor to further individualize their academic plans and confirm the availability of courses and course sequencing. The following credits below include the minimum required courses and credits needed to graduate. Students enrolled as full-time status may take 12-18 credits a semester.

NOTE: This suggested Four-Year Major Plan applies to students who matriculated during the 2016-2017 academic year.

First Year					
Fall Semester	CR	✓	Spring Semester	CR	✓
Core: FS 189 – Freshman Seminar (Freshmen only)	1		CS 219 – Business Spreadsheet Applications	3	
Core: EN 111 – College Writing* (or EN 320 by placement)	3		Core: Biological or Physical Science	3	
Core: MA 112 – Concepts of Mathematics (or college-level math by placement)	3		Core: Social Science	3	
CS 225 – PC Operating Systems	3		Core: HI 101 – Roots of the West or HI 102 – The Shaping of the West	3	
Core: Social Science	3		Core: TH 102 – Introduction to Christian Theology	3	
Core: Modern Language Core – SP/FR/AS/IT	3				
Total:	16		Total:	15	

Second Year					
Fall Semester	CR	✓	Spring Semester	CR	✓
CS 195 – Computer Programming I **	3		CS 196 – Computer Programming II	3	
CS 230 – Emerging Technologies – Web Page Design	3		Computer Information Systems Major Elective ***	3	
Core: Literature – EN XXXX	3		Computer Information Systems Major Elective ***	3	
Core: CO 230 – Communication Skills (or DR 102, 103, 104)	3		Core: Fine Arts – Art or Music	3	
Core: PH 102 – Introduction to Philosophy	3		Enriched Core Cluster – (Ethical Inquiry/Global Awareness/Catholic & Dominican)	3	
Total:	15		Total:	15	

Third Year					
Fall Semester	CR	✓	Spring Semester	CR	✓
CS 260 – Data Management Systems	3		CS 348 – Data Security and Disaster Recovery	3	
BU 305 – Introduction to Statistics or MA 207 – Application of Statistics	3		CS 240 – Windows Programming	3	
Elective	3		CS 320 – Networking & Communications	3	
Elective	3		Enriched Core Cluster – (Ethical Inquiry/Global Awareness/Catholic & Dominican)	3	
Enriched Core Cluster – (Ethical Inquiry/Global Awareness/Catholic & Dominican)	3		Elective	3	
Total:	15		Total:	15	

Fourth Year					
Fall Semester	CR	✓	Spring Semester	CR	✓
Computer Information Systems Major Elective***	3		CS 315 – Elements of Systems Analysis	4	
CS 327 – Internet & Enterprise Security	3		Electives****	10	
CS 355 – Web Applications	3				
Elective	3				
Elective	3				
Total:	15		Total:	14	

*A second writing intensive (WI) course is required. Students are recommended to complete it before the end of their fourth semester. Students who transfer to Caldwell with a minimum of 30 credits will have their second WI course waived.

**Students must have waived out of the CS 115 waiver test in order to take CS 195. Students who did not pass the CS 115 waiver test must take CS 115, Essential Computer Skills, before they can begin the Computer Information Systems major sequence.

***Students must take three additional 3-credit Computer Science (CS 2XXX) or Business Administration (BU 2XXX) courses at the 200-level or above. Students who take BU 205 as an elective for the major must use it to fulfill the social science core requirement.

****Remaining credits should be determined based on meeting the minimum graduation credits in consultation with the student's Academic Advisor.

Total Credits Required (minimum): 120 credits

GPA: 2.0

Minimum Grade in Major Courses: C

Bachelor of Science in Computer Information Systems
Information Technology Concentration

COURSE		CR/ TR	TAKEN		REPEATED		PREREQ
NO	TITLE		SEM/YR	GRADE	SEM/YR	GRADE	
CS 195	Computer Programming I	3					CS 115 OR waived test
CS 196	Computer Programming II	3					CS 195
CS 219	Business Spreadsheet Applications	3					CS 115, MA 112 or equiv.
CS 225	PC Operating Systems	3					CS 115 OR waived test
CS 230	Emerging Technologies – Web Page Design	3					CS 115 OR waived test
CS 240	Windows Programming	3					CS 195
CS 260	Data Management Systems	3					CS 195, CS 219
CS 315	Elements of Systems Analysis	4					CS 260
CS 320	Networking and Communications	3					CS 225
CS 327	Internet and Enterprise Security	3					CS 320
CS 348	Data Security and Disaster Recovery	3					CS 260
CS 355	Web Applications	3					CS 230, CS 240, CS 260
BU 305	Introduction to Statistics or MA207	3					CS 219, MA 112 OR equiv.
BU/CS	Elective 200 level or higher	3					
BU/CS	Elective 200 level or higher	3					
BU/CS	Elective 200 level or higher	3					
	TOTAL	49					
CS 487	Internship (encouraged)						