Major: Computer Information Systems—Business Systems Concentration

Suggested Four-Year Major Plan (Academic Year 2019-2020)

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 2019-2020 academic year.

First Year

Fall Semester	CR	✓	Spring Semester	CR	✓
CS 195 – Computer Programming I **	3		CS 196 – Computer Programming II	3	
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: 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 225 – Operating Systems	3		CS 238 – E-Commerce	3	
CS 230 –Web Page Design & Programming	3		Core: Fine Arts – Art or Music	3	
BU 305 – Introduction to Statistics **or** MA 207 – Application of Statistics	3		Core: Social Science – BU 205: Principles of Economics I	3	
Core: Literature – EN XXX	3		Computer Information Systems Major Elective***	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	✓
BU 211 – Accounting I	3		BU 212 – Accounting II	3	
CS 260 – Data Management Systems	3		CS 348 – Data Security and Disaster Recovery	3	
Computer Information Systems Major Elective***	3		Enriched Core Cluster – (Ethical Inquiry/Global Awareness/Catholic & Dominican)	3	
Core: CO 230 – Communication Skills (or DR 102, 103, 104)	3		Electives****	6	
Enriched Core Cluster – (Ethical Inquiry/Global Awareness/Catholic & Dominican)	3				
Total:	15		**Total:**	15	

Fourth Year

Fall Semester	CR	✓	Spring Semester	CR	✓
BU 337 – Principles of Finance	3		CS 420 – Software Engineering	4	
Electives****	12		Electives****	10	
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 two additional 3-credit Computer Science (CS XXX) or Business Administration (BU XXX) courses at the 200-level or above.

****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
Business Systems Concentration

COURSE		CR/	TAKEN		REPEATED		PREREQ
NO	TITLE	TR	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	Operating Systems	3					CS 115 OR waived test
CS 230	Web Page Design and Programming	3					CS 115 OR waived test
CS 238	**E-Commerce**	**3**					**CS 115 OR waived test**
CS 260	Data Management Systems	3					CS 195, CS 219
CS 348	Data Security and Disaster Recovery	3					CS 260
BU 205	**Principles of Economics I**	‡					**MA 112 OR equiv.**
BU 211	**Accounting I**	**3**					**MA 112 OR equiv.**
BU 212	**Accounting II**	**3**					**BU 211**
BU 305	Introduction to Statistics or MA207	3					CS 219, MA 112 OR equiv.
BU 337	**Principles of Finance**	**3**					**BU 210, BU 212, BU 305/MA 207**
CS 450	Software Engineering	4					
BU/CS	Elective 200 level or higher	3					
BU/CS	Elective 200 level or higher	3					
	TOTAL	**46**					
CS 487	Internship (encouraged)						
‡BU 205 IS COUNTED AS PART OF THE LIBERAL ARTS AND SCIENCES CORE							