

# BACHELOR OF SCIENCE – COMPUTER INFORMATION SYSTEMS BUSINESS ADMINISTRATION MINOR

2022 - 2023

Foundations for Success <sup>1</sup>			5 courses
	FDS100	Falcon Discovery Seminar	3 cr.
	CS100	Solving Business Problems with Information Technology	3 cr.
	MA 105, 105L or 107, 107L, 131, 131L	Mathematical Sciences	3 cr.
	EMS 101, 101L or 102, 102L	Critical Reading and Writing	3 cr.
	EMS104 or EMS105	Multimodal Communication	3 cr.

MAJOR: Computer Information Systems <sup>1</sup>			8 courses
	CS150 or CS160	Introduction to Data and Information or Data-Driven Decision-Making <sup>2</sup>	3 cr.
	CS180	Programming Fundamentals	3 cr.
	CS240	Business Processing and Communications Infrastructure	3 cr.
	CS350	Database Management Systems	3 cr.
	CS360	Business System Analysis and Modeling	3 cr.
	CS	CS Elective <sup>3</sup>	3 cr.
	CS	CS Elective <sup>3</sup>	3 cr.
	CS	Advanced CS Elective <sup>4</sup>	3 cr.

Business Dynamics <sup>1</sup>			6 courses
	LA100	Business Law <sup>+, ^</sup>	3 cr.
	EC111	Principles of Microeconomics <sup>+, ^</sup>	3 cr.
	ST113	Business Statistics <sup>^</sup>	3 cr.
	AC115	Financial Reporting and Analysis <sup>+, ^</sup>	3 cr.
	MG116	Human Dynamics in Organizations <sup>+, ^</sup>	3 cr.
	FI118	Introduction to Finance <sup>+, ^</sup>	3 cr.

The Business Environment <sup>1</sup>			2 courses
	IPM300	Business Processes and Systems <sup>+, ^</sup>	3 cr.
	MG300	Strategic Management <sup>^</sup>	3cr.

**For the most up-to-date requirements, please refer to your Degreeworks Audit.**

Context & Perspectives <sup>1</sup>			6 courses
<i>See notes on page two</i>			
<b>Institutions and Power</b>			
			3 cr.
<b>Values, Ethics and Society</b>			
			3 cr.
<b>Scientific Inquiry</b>			
			3 cr.
<b>Race, Gender and Inequality</b>			
			3 cr.
<b>Culture, Change, and Behavior</b>			
			3 cr.
<b>Globalization</b>			
			3 cr.

Elective Requirements <sup>5</sup>			13 courses
		Arts & Science Elective	3 cr.
		Arts & Science Elective	3 cr.
		Arts & Science Elective	3 cr.
		Arts & Science Elective	3 cr.
		Arts & Science Elective	3 cr.
		Unrestricted Elective	3 cr.
		Unrestricted Elective	3 cr.
		Unrestricted Elective	3 cr.
		Unrestricted Elective	3 cr.
		Unrestricted Elective	3 cr.
		Unrestricted Elective	3 cr.
		Unrestricted Elective	3 cr.
		Unrestricted Elective	3 cr.
		Unrestricted Elective	3 cr.

Intensive Requirements		
	Communication	
	Communication in Major	CS360

Notes:		



**Prerequisite/Corequisite Structure**

<b>Courses</b>	<b>Prerequisite/Corequisite</b>
CS150 or CS160	CS100
CS180	CS100
CS240	CS100
CS350	CS150 or CS160 or (AC340 for AIS or ISAC majors) or (MA346 for Data Analytics major or Data Technology minor)
CS360	CS150 or CS160 (AC340 for AIS or ISAC majors & MA346 for Data Analytics major or Data Technology minors)
CS Elective	vary by course
CS Elective	vary by course
Advanced CS Elective	vary by course

- Students who have already started the CIS major are strongly encouraged to meet with a faculty mentor to develop an academic plan for course planning.
- Students who are interested in CIS and/or cannot rule out CIS as a potential major are encouraged to start their CIS courses (CS150 or CS160 and/or CS180) in their sophomore year. If it is decided that CIS is not for them, these courses will fulfill the arts and science electives.
- The two CS Electives can be any CS course not otherwise required.

**Footnotes:**

<sup>1</sup>These courses may not be taken as Pass/Fail.

<sup>2</sup>During their time at Bentley, students can take either CS150 or CS160 for credit, but they cannot do both.

<sup>3</sup>Any 3-credit CS course, not otherwise required, can fulfill the CS elective. Major electives should be selected in consultation with a faculty mentor in the CIS Department. Any substitutions for these major requirements require the permission of the CIS Department Chairperson.

<sup>4</sup>Advanced CIS Elective can be fulfilled by one of the following: CS380, CS440, CS460, and CS480.

<sup>5</sup>Elective guidelines are available on the Registrar's website.

**Additional Notes:**

<p><b>Context &amp; Perspectives</b></p> <ul style="list-style-type: none"> <li>▪ <b>Students must take 1 course in each of the 6 themes</b> of Context and Perspectives. Courses are unique to each theme; no course can satisfy more than one theme.</li> <li>▪ <b>Courses must be taken in at least 3 different departments</b> (ex. PH, EMS, HI). This means that students can do a maximum of two courses in one department.</li> <li>▪ <b>Any number of courses</b> can be shared with majors or minors, but a single course cannot count for both a major and a minor. Additionally, a single course may not count in more than one minor.</li> <li>▪ Courses that satisfy the Contexts &amp; Perspective requirements <b>may not satisfy any of the required Arts and Science electives.</b></li> <li>▪ Context and Perspective courses <b>may count for the Modern Language requirement for BA majors</b></li> <li>▪ Context and Perspective courses <b>may not count for Arts and Science or Unrestricted electives for both BA and BS majors.</b></li> </ul>
<p><b>Course Sharing Rules</b></p> <ul style="list-style-type: none"> <li>▪ <b>Up to three courses</b> may be shared across different majors</li> <li>▪ <b>No courses</b> may be shared between any major and any minor.</li> <li>▪ <b>No courses</b> may be shared between any minors.</li> <li>▪ <b>A single course</b> of any kind can be shared up to three times: <ul style="list-style-type: none"> <li>○ Example 1: If a student has three majors, a single course can count for all three majors.</li> <li>○ Example 2: If a student has two majors, a single course could count for a Context &amp; Perspectives course and both majors.</li> </ul> </li> </ul>

<sup>+</sup>These courses comprise the Business Administration Minor.

<sup>^</sup>These courses along with the following courses: EC112, AC215, MG215, MG313, and MK250 are required to complete the Business Administration Major.