INFORMATION SYSTEMS – BUSINESS SYSTEMS
DEGREE REQUIREMENTS (18 UNITS)

CATALOG YEAR 2021 - Present

IS-BS provides a diverse array of business and information systems electives for analyst and compliance/governance/audit type of positions.

All Information Systems majors must earn a grade of "C" or higher in all IS courses

BUSINESS SYSTEMS OPTION CORE REQUIREMENTS (6 UNITS)

IS 335 — **Building Enterprise Architecture (3)**
Prerequisite: Grade of "C" or higher in COMP 110/L and IS 212

IS 355 — **Application Development (3)**
Prerequisite: Grade of "C" or higher in COMP 110/L and IS 212

BUSINESS SYSTEMS OPTION ELECTIVE AREA B (12 UNITS)

- *Select 12 units from the following courses*
- *All 400-level IS courses require a grade of "C" or higher in BUS 302 and grade of CR in BUS 302L*

IS 457 — **Advanced Telecommunications and Networking (3)**
Additional Prerequisites: A grade of "C" or higher in IS 431, IS 435, and IS 441

IS 497A-Z — **Special Topics (3)**
Additional Prerequisites: A grade of "C" or higher in IS 431, IS 435, and IS 441

IS 498C — **Internship (3)**
Prerequisites: Consent of instructor; Approval of Program Chair

IS 499C — **Independent Study (3)**
Prerequisites: Consent of instructor; Approval of Program Chair

SOM 485 — **Decision Support Systems (3)**
Prerequisites: SOM 306 and IS 312; BUS 302+302L are prerequisites for business majors

REQUIRED INFORMATION SYSTEMS CORE COURSES

LOWER DIVISION BUSINESS CORE REQUIREMENTS (27 UNITS)

ACCT 220   **Intro to Financial Accounting (3)**
Prerequisites: A grade of "C" or higher in MATH 103 or higher-level mathematics course and sophomore standing

ACCT 230   **Intro to Managerial Accounting (3)**
Prerequisite: ACCT 220

ECON 160   **Principles of Microeconomics (3)**
Prerequisites: Multiple Measures Placement in (1) GE-level Mathematics and (2) GE-level Written Communication or completion of 113A or 114A.

ECON 161   **Principles of Macroeconomics (3)**
Prerequisites: ECON 160

IS 212   **Information Systems for Business Users (3)**
** Requires a minimum 'C' grade for major

SOM 120*   **Basic Business Statistics (3)**
Prerequisite: A grade of "C" or higher in MATH 103 or higher-level math course
*The 4-unit MATH 140 course also satisfies this requirement

ENGL 205   **Business Communication (3)**
Prerequisite: Completion of Lower Division Writing Exam. Recommended Preparatory: AAS/AFRS/CAS/CHS/COMS 151 or equivalent; IS 212 or equivalent.

BLAW 280   **Business Law I (3)**
Prerequisites: Completion of lower division writing requirement and sophomore standing

MATH 103   **Mathematical Methods for Business (3)**
Prerequisites: Eligibility for GE level mathematics
**MATH 103 or MATH 150A or MATH 150B with a grade of "C" or higher

UPPER DIVISION BUSINESS CORE REQUIREMENTS (19 UNITS)

BUS 302   **Gateway Experience (3)**
Prerequisites*: Lower division business core ACCT 220, ACCT 230, ECON 160, ECON 161, IS 212, SOM 120 or MATH 140, ENGL 205, BLAW 280, and MATH 103
Corequisite: BUS 302L

BUS 302L   **Gateway Lab (1)**
Prerequisites: Junior standing and completion of all Lower Division Business Core courses ***Corequisite: BUS 302***

FIN 303   **Financial Management (3)**
Pre/Corequisite for Business Majors: BUS 302+302L

MGT 360   **Management and Org. Behavior (3)**
Pre/Corequisite for Business Majors: BUS 302+302L

MKT 304   **Marketing Management (3)**
Pre/Corequisite for Business Majors: BUS 302+302L

SOM 306   **Operations Management (3)**
Pre/Corequisite for Business Majors: BUS 302+302L

BUS 497   **Capstone: Strategic Management (3)**
Prerequisites: Senior standing; BUS 302+302L, FIN 303, MGT 360, MKT 304; Graduating senior standing

INFORMATION SYSTEMS CORE REQUIREMENTS (19 UNITS)

- **All Information Systems majors must earn a grade of "C" or higher in all IS courses**
- *****All IS 400-level courses require completion of grade of "C" or higher in BUS 302 and CR in BUS 302L**

COMP 110/L   **Introduction to Algorithms and Programming and Lab (3+1)**
Prerequisites: Grade of "C-" or better in MATH 102, 103, 104, 105, 150A or 255A, or a passing score on the Math Placement Test (MPT) that satisfies pre-requisites for MATH 150 or 255A
COMP 110 AND COMP 110L are co-requisites

IS 312   **Systems and Technologies for Business Managers (3)**
Prerequisite: ACCT 220 and Grade of "C" or higher in IS 212

IS 431***   **Systems Analysis and Design (3)**
Additional Prerequisite: Grade of "C" or higher in IS 312

IS 435***   **Business Data Networks and Cybersecurity (3)**
Additional Prerequisite: Grade of "C" or higher in IS 312

IS 441***   **Database Management Systems (3)**
Additional Prerequisite: Grade of "C" or higher in IS 312

IS 451***   **Enterprise Systems and Project Management (3)**
Additional Prerequisites: Grade of "C" or higher in IS 431 and 435