

INFORMATION SYSTEMS – HEALTH SYSTEMS

DEGREE REQUIREMENTS (18 UNITS)

CATALOG YEAR 2021 - Present

IS-HS provides a focus of health informatics electives for IT positions in the healthcare industry.

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

HEALTH 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

HEALTH SYSTEMS OPTION ELECTIVE AREA B (12 UNITS)

- Select 12 units from the following courses
- *All 400-level IS courses require at least a grade of "C" or higher in BUS 302 and grade of CR in BUS 302L
- **Class note states that it is restricted to Health Science, so permission number is needed from Health Science.

- HSCI 314**** **Organization and Delivery of Health Services (3)**
Prerequisites: None
- HSCI 391** **Computer Applications in Health Science (3)**
Prerequisites: None
- HSCI 412**** **Medical Care Organization in the U.S.**
Prerequisites: HSCI 314
- HSCI 415** **Health Information Systems**
Prerequisites: HSCI 412
- IS 498C*** **Internship (3)**
Additional Prerequisites: Consent of instructor; Approval of Program Chair
- IS 499C*** **Independent Study (3)**
Additional Prerequisites: Consent of instructor; Approval of Program Chair

REQUIRED INFORMATION SYSTEMS CORE COURSES

LOWER DIVISION BUSINESS CORE REQUIREMENTS (27 UNITS)

ACCT 220	Intro to Financial Accounting (3) <i>Prerequisites: A grade of "C" or higher in MATH 103 or higher-level mathematics course and sophomore standing</i>
ACCT 230	Intro to Managerial Accounting (3) <i>Prerequisite: ACCT 220</i>
ECON 160	Principles of Microeconomics (3) <i>Prerequisites: Multiple Measures Placement in (1) GE-level Mathematics and (2) GE-level Written Communication or completion of 113A or 114A.</i>
ECON 161	Principles of Macroeconomics (3) <i>Prerequisites: ECON 160</i>
IS 212	Information Systems for Business Users (3) <i>** Requires a minimum 'C' grade for major</i>
SOM 120*	Basic Business Statistics (3) <i>Prerequisite: A grade of "C" or higher in MATH 103 or higher-level math course</i> <i>*The 4-unit MATH 140 course also satisfies this requirement</i>
ENGL 205	Business Communication (3) <i>Prerequisite: Completion of Lower Division Writing Exam. Recommended Preparatory: AAS/AFRS/CAS/CHS/COMS 151 or equivalent; IS 212 or equivalent.</i>
BLAW 280	Business Law I (3) <i>Prerequisites: Completion of lower division writing requirement and sophomore standing</i>
MATH 103**	Mathematical Methods for Business (3) <i>Prerequisites: Eligibility for GE level mathematics</i> <i>**MATH 103 or MATH 150A or MATH 150B (Calculus) with a grade of "C" or higher</i>

UPPER DIVISION BUSINESS CORE REQUIREMENTS (19 UNITS)

BUS 302	Gateway Experience (3) <i>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</i> <i>Corequisite: BUS 302L</i>
BUS 302L	Gateway Lab (1) <i>Prerequisites: Junior standing and completion of all Lower Division Business Core courses</i> <i>Corequisite: BUS 302</i>
FIN 303	Financial Management (3) <i>Pre/Corequisite for Business Majors: BUS 302+302L</i>
MGT 360	Management and Org. Behavior (3) <i>Pre/Corequisite for Business Majors: BUS 302+302L</i>
MKT 304	Marketing Management (3) <i>Pre/Corequisite for Business Majors: BUS 302+302L</i>
SOM 306	Operations Management (3) <i>Pre/Corequisite for Business Majors: BUS 302+302L</i>
BUS 497	Capstone: Strategic Management (3) <i>Prerequisites: Senior standing; BUS 302+302L, FIN 303, MGT 360, MKT 304; Graduating senior standing</i>

INFORMATION SYSTEMS CORE REQUIREMENTS (19 UNITS)

- All Information Systems majors must earn a "C" or higher in all IS courses
- ***All IS 400-level courses require a 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) <i>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</i> <i>COMP 110 AND COMP 110L are co-requisites</i>
IS 312	Systems and Technologies for Business Managers (3) <i>Prerequisite: ACCT 220 and Grade of "C" or higher in IS 212</i>
IS 431***	Systems Analysis and Design (3) <i>Additional Prerequisite: Grade of "C" or higher in IS312</i>
IS 435***	Business Data Networks and Cybersecurity (3) <i>Additional Prerequisite: Grade of "C" or higher in IS312</i>
IS 441***	Database Management Systems (3) <i>Additional Prerequisite: Grade of "C" or higher in IS312</i>
IS 451***	Enterprise Systems and Project Management (3) <i>Additional Prerequisites: A Grade of "C" or higher in IS431 and IS435</i>