

# 2021-2022 Degree Requirement Summary

# B.S. IN COMPUTER INFORMATION SYSTEMS

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

## General Education Requirements

- IT 101** Information Technology
- EXP 1** \_\_\_\_\_ Expository Writing I<sup>1</sup>
- EXP 2** \_\_\_\_\_ Expository Writing II<sup>1</sup>
- \_\_\_\_\_ Literature/Cinema/EMS<sup>2</sup>
- MA** \_\_\_\_\_ Mathematical Science I<sup>3</sup>
- MA** \_\_\_\_\_ Mathematical Science II<sup>3</sup>
- NASC** \_\_\_\_\_ Natural Science (4 credits)
- GLS** \_\_\_\_\_ Global Studies: **GLS 100, 101, 102, 105 or 116**
- HI** \_\_\_\_\_ History
- PH 101** Problems of Philosophy
- PS/SO** \_\_\_\_\_ Behavioral Science
  
- EC 111** Principles of Microeconomics
- EC 112** Principles of Macroeconomics
- FS 111** First Year Seminar (1 credit)

## Business Core Requirements

- GB 110** Legal and Ethical Environment of Business
- GB 112** Tools and Concepts in Accounting and Finance
- GB 212** Practice and Applications in Accounting and Finance
- GB 213** Business Statistics
- GB 214** Marketing-Operations Fundamentals
- GB 215** Human Behavior and Organizations
- GB 310** Business Processes and Systems
- GB 320** Integrated Business Project
- GB 410** Global Strategy

## Major Requirements

- CS 150 or CS 160** Introduction to Data and Information Management or Data-Driven Decision-Making
- CS 180** Programming Fundamentals
- CS 240** Business Processing and Communications Infrastructure
- CS 350** Database Management Systems
- CS 360** Business System Analysis and Modeling
- CS** \_\_\_\_\_ Computer Information Systems Elective<sup>4</sup>
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## Electives<sup>5,6</sup>

- MA** \_\_\_\_\_ Math Elective
- \_\_\_\_\_ Humanities/Social Science Elective
- \_\_\_\_\_ Business Related Elective
- \_\_\_\_\_ Arts and Science Elective
- \_\_\_\_\_ Arts and Science Elective
- \_\_\_\_\_ Arts and Science Elective
- \_\_\_\_\_ Arts and Science Elective
- \_\_\_\_\_ Unrestricted Elective
- \_\_\_\_\_ Unrestricted Elective

## Course Focus Requirements

- U.S. Diversity Intensive (D)
- International Intensive (I)
- Communication Intensive (C)
- Communication Intensive/Major (**CS 360**)

### Total credits required 122

Note: Transfer students with at least 15 credits in transfer will complete 121 credits.

All courses are 3 credits unless otherwise indicated.

Office Notes:

**IMPORTANT NOTICE!** Students are responsible for understanding all university policies, procedures and requirements. Such information can be found in the Undergraduate Course Catalogue, Registrar's website, and the Student Handbook. Please be aware that overall and major averages must be at least 2.000 for graduation. This information is to help the student in monitoring progress toward the degree. Responsibility for meeting all degree requirements rests with the student.

# COMPUTER INFORMATION SYSTEMS (CIS)

The CIS major equips students with the knowledge and understanding of information technology capabilities and implications, as well as with competency in “best-of-breed” methodologies and tools for information systems development. The CIS graduate is prepared to excel in any of the emerging and varied roles of the IT professional: business analyst, systems analyst, application developer, systems integrator, IT liaison, end-user support, network manager, vendor representative and technical support specialist.

CIS courses integrate concept-focused and applied technology-focused material. The conceptual content emphasizes the theory and principles of information technology, computer science and management that form the discipline of information systems. The course content related to applied technology emphasizes leading-edge technologies spanning information systems solutions utilizing the World Wide Web, database systems, programming languages, networking and mobile computing apps. These courses are designed to develop professional expertise, the ability to produce value from beginning of one’s professional career, self-confidence, and a can-do attitude in CIS graduates.

## Prerequisite/Corequisite Structure

COURSES	PREREQUISITES
CS 150 or CS 160	IT 101
CS 180	IT 101
CS 240	IT 101
CS 350	CS 150
CS 360	CS 150
CS Elective	vary by course
CS Elective	vary by course
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 (150 or 160, and/or 180) in their sophomore year. If they decide that CIS is not for them, these courses will count as arts and science electives.
- Electives can be chosen from any CS course except CS 213. Refer to the registration book for any other exceptions.
- Qualified students are highly encouraged to include an internship in their course sequence to provide on-the-job experience prior to graduation.

1. Placement in this course is determined by the English and Media Studies department.
2. Requirement may be fulfilled with any LIT/CIN/EMS or MLCH 402, MLFR 304, MLIT 304, MLIT 305, MLSP 301, MLSP 306, 404, or 405.
3. The Math sequence consists of either MA 123 and MA 126 or MA 131 and MA 139, depending upon departmental placement.
4. Any 3-credit CIS course, not otherwise required, can fulfill the CIS elective requirement except CS 213. Some experimental CS courses cannot be counted towards the major; please verify with advisor. Major electives should be selected in consultation with a faculty mentor. Any substitutions for these major requirements require the permission of the chairperson.
5. CIS majors are required to take a MA elective, which can be fulfilled by a MA course numbered 200 or higher which does not duplicate material presented in any previously taken course.
6. Elective guidelines are available on the Registrar’s website. An optional 12-credit minor can fulfill the applicable elective requirements.