

# INFORMATION SYSTEMS – COMPUTER INFORMATION TECHNOLOGY OPTION REQUIREMENTS (22 UNITS)

## CATALOG YEAR 2021 - Present

IS-CIT provides a focus of system administration electives for positions for a career in DevOps and IT Infrastructure for business.

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

### COMPUTER INFORMATION TECHNOLOGY OPTION CORE REQUIREMENTS (17 UNITS)

*\* Prerequisites of CIT 101/L (for CIT 210/L) & CIT 160/L (for CIT 270/L) are waived, but permission numbers are needed from Computer Science Department (compsci@csun.edu)*

*CIT 160/L covers shell and command prompts, so you will need to be familiar with those concepts before taking CIT 270/L.*

- COMP 122/L      Computer Architecture and Assembly Language (3+1)**  
*Prerequisite: Grade of "C-" or better in COMP 110/L; Grade of "C-" or better in MATH 103, 104, 105, 150A or 255A, or a passing score on the Math Placement Test (MPT) that satisfies prerequisites for MATH 150A or 255A; Lower division writing requirement; Corequisite: COMP 122L*
- COMP 182/L      Data Structures and Program Design and Lab (3+1)**  
*Prerequisite: Grade of "C-" or better in COMP 110/L; Grade of "C-" or better in MATH 103, 104, 105, 150A or 255A, or a passing score on the Math Placement Test (MPT) that satisfies prerequisites for MATH 150A or 255A; Lower division writing requirement; Corequisite: COMP 182L*
- CIT 210/L\*      Deployment and Management of Operating Systems (3+1)**  
*Prerequisites: Grade of "C-" or better in CIT 101/L (waived for IS-CIT majors; submit permission # request to Dept of Computer Science) and COMP 122/L; Lower division writing requirement. Corequisite: CIT 210L*
- CIT 270/L\*      Integrative Programming (3+1)**  
*Prerequisites: Grade of "C-" or better in CIT 160/L (waived for IS-CIT majors; submit permission # request to Dept of Computer Science); COMP 182/L; Grade of "C-" or better in MATH 103, MATH 150A or MATH 255A. Corequisite: CIT 270L*
- CIT 360/L      CIT System Management (2+1)**  
*Prerequisite: Grade of "C-" or better in CIT 210/L, CIT 270/L. Corequisites: CIT 360 and CIT 360L*

### COMPUTER INFORMATION TECHNOLOGY ELECTIVE (3 UNITS)

- Select 3 units from the following courses
- All 400-level IS courses require at least a grade of "C" or higher in BUS 312 and grade of CR in BUS 302L

- CIT 425/L      Information and Systems Security and Lab (2/1)**  
*Prerequisites: Grade of "C-" or better in CIT 360/L and IS 435*
- COMP 424      Computer System Security (3)**  
*Prerequisites: Grade of "C-" or better in COMP 324, or IS 435*
- COMP 484/L      Web Engineering I and Lab (2/1)**  
*Prerequisites: Grade of "C-" or better in COMP 322/L or COMP 380/L or CIT 360*
- COMP 485      Human-Computer Interaction (3)**  
*Prerequisites: COMP 380/L, or CIT 360 and IS 451*
- IS 498C      Field Assignments and Reports - Information Systems (3)**  
*Prerequisites: Consent of instructor; Approval of Program Chair*
- IS 499C      Independent Study (3)**  
*Prerequisites: Consent of instructor; Approval of Program Chair*

# REQUIRED INFORMATION SYSTEMS CORE COURSES

## LOWER DIVISION BUSINESS CORE REQUIREMENTS (27 UNITS)

ACCT 220	<b>Intro to Financial Accounting (3)</b> <i>Prerequisite: Grade of "C" or higher in MATH 103 or higher-level mathematics course and Sophomore standing</i>
ACCT 230	<b>Intro to Managerial Accounting (3)</b> <i>Prerequisite: Grade of "C" or higher in MATH 103 or higher-level mathematics course and ACCT 220</i>
ECON 160	<b>Principles of Microeconomics (3)</b> <i>Prerequisite: (1) GE-level Mathematics and (2) GE-level Written Communication or completion of 113A or 114A.</i>
ECON 161	<b>Principles of Macroeconomics (3)</b> <i>Prerequisite: 1) GE-level Mathematics and (2) GE-level Written Communication or completion of 113A or 114A. ECON 160</i>
IS 212**	<b>Information Systems for Business Users (3)</b>
SOM 120	<b>Basic Business Statistics (3)</b> <i>Prerequisite: Grade of "C" or higher in MATH 103 or higher-level mathematics course</i> <b>NOTE:</b> The 4-unit MATH 140 course also satisfies this requirement
ENGL 205	<b>Business Communication (3)</b> <i>Prerequisite: Completion of lower division writing requirement: GE (A2); Recommended Preparatory: GE (A1); IS 212</i>
BLAW 280	<b>Business Law I (3)</b> <i>Prerequisite: Completion of lower division writing requirement: GE (A2) and sophomore standing</i>
MATH 103	<b>Mathematical Methods for Business (3)</b> <i>Prerequisites: Eligibility for GE Level Mathematics</i>

NOTE: MATH 103 or higher-level mathematics course must be completed with a "C" or higher

## UPPER DIVISION BUSINESS CORE REQUIREMENTS (19 UNITS)

BUS 302	<b>Gateway Experience (3)</b> <i>Prerequisite: Junior Standing, 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>
BUS 302L	<b>Gateway Lab (1)</b> <i>Prerequisite: Junior Standing, 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>
FIN 303	<b>Financial Management (3)</b> <i>Pre/Corequisite for Business Majors: BUS 312 + BUS 302L</i>
MGT 360	<b>Management and Org. Behavior (3)</b> <i>Pre/Corequisite for Business Majors: BUS 312+BUS 302L</i>
MKT 304	<b>Marketing Management (3)</b> <i>Pre/Corequisite for Business Majors: BUS 312 + BUS302L</i>
SOM 306	<b>Operations Management (3)</b> <i>Pre/Corequisite for Business Majors: BUS 312 + BUS302L</i>
BUS 497	<b>Capstone: Strategic Management (3)</b> <i>Prerequisite: BUS 312+302L, FIN 303, MGT 360, MKT 304; Graduating senior standing (in final semester)</i>

## 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 312 and CR in BUS302L

COMP 110/L	<b>Introduction to Algorithms and Programming and Lab (3+1)</b> <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; COMP 110 + COMP 110L are co-requisites</i>
IS 312**	<b>Systems and Technologies for Managers (3)</b> <i>Prerequisite: ACCT 220 and Grade of "C" or higher in IS 212</i>
IS 431***	<b>Systems Analysis and Design (3)</b> <i>Additional Prerequisite: Grade of "C" or higher in IS 312</i>
IS 435***	<b>Business Data Networks and Cybersecurity (3)</b> <i>Additional Prerequisite: Grade of "C" or higher in IS 312</i>
IS 441***	<b>Database Management Systems (3)</b> <i>Additional Prerequisite: Grade of "C" or higher in IS 312</i>
IS 451***	<b>Enterprise Systems and Project Management (3)</b> <i>Additional Prerequisites: Grade of "C" or higher in IS 431 and 435</i>

Transfer students should be aware that no grade lower than a "C" will be accepted on transfer from another institution to satisfy department or David Nazarian College of Business and Economics requirements.

NOTE: BUS 302 no longer offered after Spring 2024. BUS 302 (if previously completed) will be honored in place of any BUS 312 prerequisite requirement