

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)

** Prerequisite of CIT 160/L is waived, but permission number is needed from Computer Science Department.*

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

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| COMP 122/L | Computer Architecture and Assembly Language (3+1) <i>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</i> |
| COMP 182/L | Data Structures and Program Design and Lab (3+1) <i>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</i> |
| CIT 210/L | Deployment and Management of Operating Systems (3+1) <i>Prerequisites: CIT 101/L (waived for IS-CIT majors; submit permission # request to Dept of Computer Science), COMP 122/L; Lower division writing requirement. Corequisite: CIT 210L</i> |
| CIT 270/L* | Integrative Programming (3+1) <i>Prerequisites: Grade of "C-" or better in CIT 160/L; COMP 182/L; Grade of "C-" or better in MATH 103, MATH 150A or MATH 255A. Corequisite: CIT 270L</i> |
| CIT 360/L | CIT System Management (2+1) <i>Prerequisite: Grade of "C-" or better in CIT 210/L, CIT 270/L. Corequisites: CIT 360 and CIT 360L</i> |

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 302 and grade of CR in BUS 302L

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

REQUIRED INFORMATION SYSTEMS CORE COURSES

LOWER DIVISION BUSINESS CORE REQUIREMENTS (27 UNITS)

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| 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 *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 **MATH 103 or MATH 150A or MATH 150B with a grade of "C" or higher</i> |

UPPER DIVISION BUSINESS CORE REQUIREMENTS (19 UNITS)

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| 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 Corequisite: BUS 302L</i> |
| BUS 302L | Gateway Lab (1) <i>Prerequisites: Junior standing and completion of all Lower Division Business Core courses 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 also require completion of grade of "C" or higher in BUS 302 and CR in BUS 302L

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| 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 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 IS 312</i> |
| IS 435*** | Business Data Networks and Cybersecurity (3) <i>Additional Prerequisite: Grade of "C" or higher in IS 312</i> |
| IS 441*** | Database Management Systems (3) <i>Additional Prerequisite: Grade of "C" or higher in IS 312</i> |
| IS 451*** | Enterprise Systems and Project Management (3) <i>Additional Prerequisites: A grade of "C" or higher in IS 431 and 435</i> |