

2023-2024



B.S. COMPUTER SCIENCE

GRACE CORE (39 credits)

Students will integrate faith and learning across disciplines, demonstrate foundational knowledge and ways of knowing, cultivate characteristics of maturity in relationships with God, others, self, and the world, and apply knowledge to all aspects of life through intellectual and practical skills.

1000-Level Courses

First-Year Learning Communities

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|----------|--------------------------------------|---|
| FYE 1000 | First-Year Foundations | 3 |
| BIB 1050 | Exploring the Bible | 3 |
| PSY 1200 | Essentials of Behavioral Science | 3 |
| HIS 1050 | Current Issues in Historical Context | 3 |

First-Year Learning Competencies

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| ENG 1100 | Effective Writing | 3 |
| COM 1100 | Public Speaking | 3 |

2000-Level Courses

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|-------------|---------------------------------|---|
| HUM 2100 | Creative Arts & Culture | 3 |
| @ HUM 2000 | Global Perspectives | 3 |
| SCI 2030 | Faith, Science, & Reason | 3 |
| HUM 2010-30 | Cross-Cultural Field Experience | 0 |
| @ BIB 2010 | Scripture and Interpretation | 3 |

3000-Level Courses

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|------------|------------------------------------|---|
| ECN 3000 | Consumer Economics | 3 |
| PHI 3010 | Christianity and Critical Thinking | 3 |
| @ BIB 3300 | Essential Doctrinal Themes | 3 |

ADDITIONAL GENERAL EDUCATION--B.S. DEGREE (6 credits)

Satisfies B.S. Degree

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|--|--------------------------|---|
| MAT 3200 | Probability & Statistics | 3 |
| Any Science/Social Science with the following course prefix: | | 3 |
| PSY, SOC, BHS, ECN, CSI, HIS, POS, GEO | | |

THE MAJOR (64 credits)

Math Courses (16 hours)

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|------------|----------------------|---|
| MAT 1230 | Calculus I | 4 |
| MAT 1240 | Calculus I Lab | 0 |
| @ MAT 1250 | Calculus II | 3 |
| @ MAT 2250 | Calculus III | 3 |
| @ MAT 2200 | Discrete Mathematics | 3 |
| @ MAT 3130 | Linear Algebra | 3 |

Choose a Concentration (12 hours)

Concentration 1: Business

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|------------|--------------------------|---|
| BUS 1010 | Foundations of Business | 3 |
| @ ACC 2110 | Financial Accounting | 3 |
| @ MGT 2430 | Principles of Management | 3 |
| @ ISM 4800 | ISM Senior Seminar | 3 |

Concentration 2: Data Analytics

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|------------|-------------------------|---|
| @ MAT 4200 | Probability Theory | 3 |
| @ MAT 4320 | Mathematical Statistics | 3 |
| @ MAT 4830 | Research in Mathematics | 3 |
| @ MAT 4020 | Math Senior Seminar | 3 |

Concentration 3: Application Development

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|------------|-----------------------|---|
| † | 3 Electives from LCMC | 9 |
| @ ISM 4800 | ISM Senior Seminar | 3 |

Concentration 4: Cybersecurity

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|-------------|-------------------------------|---|
| † CSC 1070 | Introduction to Cybersecurity | 3 |
| @† CSC 2020 | Cybercrime & Governance | 3 |
| † CSC 2230 | Modern Cybersecurity | 3 |
| † CSC 3200 | Network and System Security | 3 |

Grace/LCMC

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|------------|----------------------------------|---|
| ISM 1150 | Introduction to Computer Science | 3 |
| ISM 2700 | HTML and Web Development | 3 |
| @ ISM 2150 | Object Oriented Programming | 3 |
| @ ISM 3800 | Database Programming | 3 |
| @ ISM 4110 | Client-Side Programming | 3 |
| @ ISM 4200 | Application Development Lab | 3 |
| @ ISM 4930 | Internship | 3 |

Computing Core (21 hours)

Grace/LCMC

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|---------------------|----------------------------|---|
| @† CSC 3030/CSM I | Introduction to C | 3 |
| @† CSC 3100/CSM II | Inside of a Microprocessor | 3 |
| @† CSC 3150/CSM III | Data Structures | 3 |
| @† CSC 4100/CSM IV | Algorithms | 3 |
| † CSC 3230/CSM V | Product Development | 3 |

Computer Science (15 hours)

Grace/LCMC

| | | |
|--------------------|--------------------------------------|---|
| † CSC 1050/CSC I | Internet History, Tech, and Security | 3 |
| † CSC 2130/CSC IV | Web Development | 3 |
| @† CSC 3250/CSC V | Application Development I | 3 |
| @† CSC 3350/CSC VI | Application Development II | 3 |

Available LCMC Elective Courses

IS A MINOR REQUIRED FOR THIS MAJOR: No

CHECKSHEET TOTAL CREDITS: 109

TOTAL CREDITS NEEDED TO GRADUATE: 120

GRADUATION REQUIREMENTS

To receive a degree, each student must satisfy checklist requirements, earn 120 credit hours, fulfill 12 credits of Applied Learning, have a 2.2 GPA in major courses, and a GPA of 2.0 overall. It is the student's responsibility to work with his/her advisor and monitor progress toward these goals. Some majors and/or minors may have more stringent guidelines.

† Indicates a course taught by a partner college/university.

@ Indicates a course with prerequisites. Please review catalog for prereqs.