**Computer Science, B.S.** for students entering Fall 2022

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| --- | --- | --- | --- | --- | --- | --- |
| MATH/STAT | Collateral 1 | 3 |  | MATH/BUSA | Collateral 2 | 3 |
| CPSC 121 | Intro. to Computer Program I | 4 |  | CPSC 122 | Intermediate Programming | 4 |
| CPSC 140 | Intro to Information Technology | 3 |  | MATH 130 | Discrete Math | 3 |
| WRIT 102 | Research Writing | 3 |  | LIT 104 | Literature | 3 |
| CORE 113 | First Year Seminar | 3 |  | CSA 130 | Cybersecurity Foundations | 3 |
| CORE 103 | Community Enrichment | 0 |  | CORE 104 | Community Enrich. | 0 |
|  | **Total** | **16** |  |  | **Total** | **16** |
|  |  |  |  |  |  |  |
| CPSC 221 | Data Structures | 4 |  | CPSC | Track 1 elective 1 | 3 |
| MATH/BUSA | Collateral III | 3 |  | CPSC | Track 2 elective 1 | 3 |
| CPSC 280 | Algorithmic Programming | 1 |  | PHIL 205 | Discovering Philosophy | 3 |
| RLST 105 | Franciscan Goals for Today | 3 |  | LANG | ASL/FREN/GERM/ITAL/LATN/SPAN | 3 |
| EPPS | ECON101/PLSC/PSYC101/SOC | 3 |  | EPPS | ECON101/PLSC/PSYC101/SOC | 3 |
|  | Free Elective | 2 |  |  | Free Elective | 2 |
|  | **Total** | **16** |  |  | **Total** | **17** |
| CPSC | Track 1 elective II | 3 |  | CPSC | Track 1 elective III | 3 |
| CPSC | Track 2 elective II | 3 |  | CPSC | Track 2 elective III | 3 |
| EXAM 301 | Writing Competence Exam | 0 |  | \*\*\* | Diversity Requirement | 3 |
| RLST/PHIL | RLST or Philosophy | 3 |  | FNAR | FNAR/ART/MUS/THTR | 3 |
| HIST | HIST 100 or 200 level | 3 |  | EPPS | ECON101/PLSC/PSYC101/SOC | 3 |
|  | Free Elective | 3 |  |  | Free Elective | 1 |
|  | **Total** | **15** |  |  | **Total** | **16** |
| CPSC 492 | Computer Science Seminar | 1 |  |  | Free Elective | 1 |
| CORE 407 | Senior Capstone | 3 |  |  | Free Elective | 3 |
|  | Free Elective | 3 |  |  | Free Elective | 3 |
|  | Free Elective | 3 |  |  | Free Elective | 3 |
|  | Free Elective | 3 |  |  | Free Elective | 3 |
|  | Free Elective | 3 |  |  | Free Elective | 3 |
|  | **Total** | **16** |  |  | **Total** | **16** |

Total: 128 credits

**Collateral Requirements (9 credit hours): Choose one focus**

Applied Mathematics Focus: MATH 121, MATH 122, MATH 322

Analytic Focus: STAT 205 or MATH 215; BUSA 201, BUSA 202

**Tracks: (18 total credits) Must Complete two separate tracks with 9 credits in each.**

Information Technology: CPSC 231, CPSC 322, CPSC 422

Machine Learning and Data Science: CPSC 360, CPSC 361, CPSC 460

Programming and Language Track: CPSC 408, CPSC 420, CPSC 428

Software Development: CPSC 222, CPSC 409, CPSC 410

Information Technology track

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• CPSC 322 - Introduction to System Administration

• CPSC 422 - System Administration

• CPSC 231 - Introduction to Networking

Machine Learning and Data Science track

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• CPSC 360 - Machine Learning I

• CPSC 361 - Machine Learning II

• CPSC 460 - Deep Learning

Programming and Languages track

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• CPSC 408 - Software Craftsmanship

• CPSC 420 - Programming Languages

• CPSC 428 - Advanced Programming Topics

Software Development track

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• CPSC 222 - Server-Side Programming

• CPSC 409 - Web Application Architectures

• CPSC 410 - Software Engineering