

Name: _____

BASED ON CREDITS

COMPUTER SCIENCE (Cyber Security Track), B.S.

122 credits and Three 1-credit PE courses

GENERAL EDUCATION CORE

BASIC REQUIREMENTS

(6 credits and three 1-credit PE Courses)

Composition and Rhetoric

- EN 103 Composition and Rhetoric I
- EN 104 Composition and Rhetoric II

Physical Education Courses

- PE 100
- PE _____
- PE _____

MODES OF THINKING (12 credits)

Literature (Select one)

- EN 110, EN 112, EN 115

Mathematics (**Satisfied by Major – 121**)

Natural Science (Select one)

- BI 209, BI 210, BI 211, BI 242, CH 209, PH 209

Philosophy

- PL 109

Social Sciences (Select one)

- CJ 109, CM 130, EC 209, EC 112, HCM 230, PO 103, PO 109, PS 109, SO 109

CULTURAL LITERACY (18 credits)

Humanities I and II. *Preferably* select a set (e.g., HI 201/202). However, a combination (e.g., PO 201 + HI 214) is acceptable.

- Hum. I: HI 201, PO 201, HI 213
- Hum. II: HI 202, PO 202, HI 214, HI 262

Humanities III: Great Works of Art & Music

- _____

Humanities IV: Great Works of Literature

- _____

Foreign Language/World Cultures

(Select either two of the same language, any two WC, or one WC and one approved course with international study)

- _____
- _____

CHRISTIAN VALUES AND THEOLOGY

(9 credits)

Catholic Theology

- TH 109

Intermediate Theology (200/300 level TH)

- TH _____

Values Seminar (CS 475 is recommended)

- _____

MAJOR (50 credits)

- CS 115: Intro to Python – 4 credits
- CS 211: Object-Oriented Programming – 4 credits
- CS 216: Cyber Security
- CS 222: Data Structures
- CS 230: Computer Architecture and Hardware
- CS 260: Databases & Data Visualization
- CS 314: Operating Systems
- CS 321: Communication and Networking
- CS 360: Database Analysis and Design
- CS 416: Security
- CS 453: Senior Coordinating Seminar
- MA 121: Calculus I
- MA 122: Calculus II
- MA 387: Cryptology
- CJ 270: Digital Forensics I

Any CS course at the 200 level or above (except for CS 475), CJ 320, CJ 330, IT 515 or IT 545. The IT elective courses are graduate level and need special permission:

- _____

FREE ELECTIVES (27 credits)

- | | |
|--------------------------------|--------------------------------|
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OPTIONAL MINOR

- | | |
|--------------------------------|--------------------------------|
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| <input type="checkbox"/> _____ | <input type="checkbox"/> _____ |

DE SALES UNIVERSITY
Typical Program: COMPUTER SCIENCE (Cyber Security Track), B. S.

FIRST YEAR

FALL SEMESTER (16 credits and 1-credit PE)

Intro to Python (CS 115) -4 credits
Calculus I (MA 121)
Composition and Rhetoric I (EN 103)
Philosophy MOT (PL 109)
Foreign Language/World Cultures
Lifetime Fitness and Wellness (PE 100)

SPRING SEMESTER (16 credits and 1-credit PE)

Object-Oriented Programming (CS 211) – 4 credits
Cyber Security (CS 216)
Calculus II (MA 122)
Composition and Rhetoric II (EN 104)
Foreign Language/World Cultures
Physical Education (Activity)

SECOND YEAR

FALL SEMESTER (15 credits and 1-credit PE)

Computer Architecture and Hardware (CS 230)
Digital Forensics I (CJ 270)
Data Structures (CS 222)
Humanities I
Catholic Theology (TH 109)
Physical Education (Activity)

SPRING SEMESTER (15 credits)

Databases & Data Visualization (CS 260)
Operating Systems (CS 314)
Literature MOT
Humanities II
Social Science MOT

THIRD YEAR

FALL SEMESTER (15 credits)

Communication and Networking (CS 321)
Security (CS 416)
Humanities III
Intermediate Theology
Free Elective

SPRING SEMESTER (15 credits)

Cryptology (MA 387)
Natural Science MOT
Humanities IV
Free Elective
Free Elective

FOURTH YEAR

FALL SEMESTER (15 credits)

Database Analysis & Design (CS 360)
CS Elective
Values Seminar
Free Elective
Free Elective

SPRING SEMESTER (15 credits)

Senior Coordinating Seminar (CS 453)
Free Elective
Free Elective
Free Elective
Free Elective

A. Koefler, Director of the Academic Success Center
Effective fall, 2022