

Name: _____

COMPUTER SCIENCE (General) B.S.
40 courses of three or more credits and 3 one-credit PE courses

GENERAL EDUCATION CORE

BASIC REQUIREMENTS (2 courses and 3 one-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 (4 courses)

- 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, EC 209, EC 112, PO 103, PO 109, PS 109, or SO 109

CULTURAL LITERACY (6 courses)

- 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 (See Master Schedule of Day Classes)
 ____ ____
- Humanities IV: Great Works of Literature (See Master Schedule of Day Classes)
 ____ ____
- 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
(3 courses)

- Catholic Theology
 TH 109
- Intermediate Theology (200/300 level TH)
 TH ____
- Values Seminar
(See Master Schedule of Day Classes)
 ____ ____

MAJOR

(16 courses)

- CS 115: Introduction to Python
 CS 211: Object-Oriented Programming
 CS 222: Data Structures
 CS 230: Computer Architecture & Hardware Support
 CS 260: Database and Data Visualization
 CS 314: Operating Systems
 CS 321: Communications and Networks
 CS 356: Software Engineering
 CS 360: Database Analysis and Design
 CS 416: Security
 CS 453: Senior Coordinating Seminar
 MA 121: Calculus I
 MA 122: Calculus II
 MA 231: Discrete Mathematics
 MA 331: Linear Algebra

One MA and/or CS course at the 200, 300, or 400 level (except MA 260 and CS 375):

MINOR

(6 courses)

- | | |
|------------------------------------|------------------------------------|
| <input type="checkbox"/> ____ ____ | <input type="checkbox"/> ____ ____ |
| <input type="checkbox"/> ____ ____ | <input type="checkbox"/> ____ ____ |
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ELECTIVES

(As needed to complete 40-course req.)

- | | |
|------------------------------------|------------------------------------|
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A. Koefler, Dir. Acad. Resource Center
Effective Fall, 2020

For the most up-to-date record of progress toward completion of degree requirements, students should use the Academic Evaluation tool, which is listed under the Academic Planning heading in WebAdvisor.

DE SALES UNIVERSITY
Typical Program: COMPUTER SCIENCE MAJOR (B. S.) General

FALL SEMESTER

SPRING SEMESTER

FIRST YEAR

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

Object-Oriented Programming (CS 211)
Calculus II (MA 122)
Composition and Rhetoric II (EN 104)
Social Science (MOT)
Foreign Language/World Cultures
Physical Education (Activity)

SECOND YEAR

Data Structures (CS 222)
Computer Architecture & Hardware (CS 230)
Humanities 1
Free Elective
Catholic Theology (TH 109)
Physical Education (Activity)

Database and Data Visualization (CS 260)
Operating Systems (CS 314)
Humanities 2
Literature MOT
Free Elective

THIRD YEAR

Communications and Networks (CS 321)
Security (CS 416)
Linear Algebra (MA 331)
Humanities 3
Intermediate Theology

Software Engineering (CS 356)
Discrete Mathematics (MA 231)
Natural Science MOT
Humanities 4
Free Elective

FOURTH YEAR

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

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