

Name: _____

COMPUTER SCIENCE (Five-Year B.S. to M.S.I.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 121: Intro to Computer Programming
- CS 122: Object-Oriented Programming
- CS 211: Application Development
- CS 230: Computer Architecture and Hardware
- CS 314: Operating Systems
- CS 321: Communications and Networking
- 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

Two MA and/or CS courses at the 200, 300, or 400 level, except MA 260 and CS 475

- _____
- _____

MSIS COURSEWORK

- ____
- ____

MINOR

(6 courses)

- ____
- ____
- ____

ELECTIVES

(As needed to complete 40-course req.)

- ____
- ____
- ____
- ____
- ____

A. Koefer, Director of the Academic Resource Center
Effective fall, 2016

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.)

FALL SEMESTER

SPRING SEMESTER

FIRST YEAR

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

... or ...

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

SECOND YEAR

Humanities 1
MA/CS Elective
Application Development (CS 211)
Literature MOT
Catholic Theology (TH 109)
Physical Education (Activity)

Humanities 2
Computer Arch. & Hardware (CS 230)
Natural Science MOT
Discrete Mathematics (MA 231)
Database Anal & Design (CS 360)

THIRD YEAR

Free Elective
Communications and Networking (CS 321)
Humanities 3
Intermediate Theology
MA/CS Elective

Operating Systems (CS 314)
Linear Algebra (MA 331)
Humanities 4
Security (CS 416)
Free Elective

FOURTH YEAR

Software Engineering (CS 356)
Values Seminar
MSIS Course
MSIS Course
Free Elective

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

FIFTH YEAR

Summer
MSIS Course

Fall
MSIS Course
MSIS Course

Winter
MSIS Course
MSIS Course

Spring
MSIS Course
MSIS Course

Summer
MSIS Course

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