

Q.U. UNDERGRADUATE DEGREE REQUIREMENTS - BONAVENTURE AND MAJOR

B.S. COMPUTER SCIENCE (120 HRS)

CATALOG YEAR: 2018-2019

NAME _____ ID# _____

BONAVENTURE PROGRAM

A. UNIVERSITY COURSES

| | Grade | Credit | IP/Sem* |
|---------------------------------|-------|--------|---------|
| (0-6 hours) | | | |
| Diversity course (D:)** _____ ® | _____ | 0/3 | _____ |
| Global course (G:)** _____ ® | _____ | 0/3 | _____ |

**D:/G: courses - Global course will be waived if student has spent one semester abroad.
**D:/G: courses can meet requirements both here and in other areas of the checklist (hours count once)

B. WRITTEN / ORAL COMMUNICATION (9 hours)

| | | | |
|---|-------|---|-------|
| ENG 111 - W: Composition _____ | _____ | 3 | _____ |
| ENG 112 - W: Composition & Texts _____ | _____ | 3 | _____ |
| COM 101 - Fundamentals of Public Speaking _____ | _____ | 3 | _____ |

WRITING-ENRICHED COURSES (≥ 2)

C. PHILOSOPHY / THEOLOGY / ETHICS (12 hours)

| | | | |
|--|-------|---|-------|
| TRS 116 - G: Western Religious Tradi® _____ | _____ | 3 | _____ |
| <i>Transfer students with 24 SH may take any theology course for TRS 116</i> | | | |
| TRS _____ - _____ ® | _____ | 3 | _____ |
| PHI _____ - _____ | _____ | 3 | _____ |
| Ethics/Franciscan Values (E:) _____ ® | _____ | 3 | _____ |

E: course must be at 300 level or above
CSC 350/PHI329 E: Computer and Information ethics is highly rec.

D. HUMANITIES / FINE ARTS (6 hours)

| | | | |
|--------------------------------------|-------|---|-------|
| English Literature ≥ 200 level _____ | _____ | 3 | _____ |
| Art, Music, Theatre, or Film _____ | _____ | 3 | _____ |

E. SOCIAL SCIENCES (9 hours)

| | | | |
|---|-------|---|-------|
| <i>(CRJ, ECO, HMS, POL, PSY, SOC - select from 2 areas)</i> | | | |
| _____ - _____ | _____ | 3 | _____ |
| _____ - _____ | _____ | 3 | _____ |
| HIS ____ - History _____ | _____ | 3 | _____ |

F. NATURAL SCIENCES / MATHEMATICS (7-8 hours)

| | | | |
|--|-------|-------|-------|
| Life Sciences (BIO 111 recommended) * | _____ | 3/4 | _____ |
| Physical Sciences (SCI 115 recommended)* | _____ | 3/4 | _____ |
| MAT - Met by major requirements | _____ | _____ | _____ |

* One Science course needs a lab

G. MAJOR REQUIREMENTS

| | Grade | Credit | IP/Sem* |
|---|-------|--------|---------|
| (40 hours) | | | |
| CSC 115 - Introduction to Computer Science _____ | _____ | 3 | _____ |
| CSC 150 - Computer Programming I (FA) _____ | _____ | 3 | _____ |
| CSC 160 - Computer Programming II (SP) _____ | _____ | 3 | _____ |
| CSC 250 - Software Systems (FA) _____ | _____ | 3 | _____ |
| CSC 260 - Intro to Software Development(FA) _____ | _____ | 3 | _____ |
| CSC 300 - Program Design Using Data Structures (FA) _____ | _____ | 3 | _____ |
| CSC 310 - Analysis of Algorithms (SP) _____ | _____ | 3 | _____ |
| CSC 320 - Database Systems (SP) _____ | _____ | 3 | _____ |
| CSC 330 - Operating Systems (SP-even) _____ | _____ | 3 | _____ |
| CSC 340 - Computer Architecture (SP-Odd) _____ | _____ | 3 | _____ |
| CSC 390 - Web Programming (FA) _____ | _____ | 3 | _____ |
| CSC 410 - Computer Networks (SP) _____ | _____ | 3 | _____ |
| CSC 495 - W: Capstone Computing Project I _____ | _____ | 2 | _____ |
| CSC 496 - W: Capstone Computing Project II _____ | _____ | 2 | _____ |

**A minimum of 2.0 GPA is required in major courses.
No more than 2 courses with grades below a "C-".**

H. REQUIRED SUPPORT COURSES (3 hours)

| | | | |
|-------------------------------------|-------|---|-------|
| MAT 252* - Discrete Math (FA) _____ | _____ | 3 | _____ |
|-------------------------------------|-------|---|-------|

*Prereq: College Algebra (MAT 125) or appropriate score on Placement Test.

I. ELECTIVES ** (18-24 hours)

Up to 3 hours may be CSC or CIS courses (to total 120)
** A minor outside the field of Computer Science is strongly encouraged - see catalog for specific requirements for each minor (12 hours must be at 200-400 level; 12 hours must be taken at QU)
‡ **Must complete a minimum of 27 non CIS/CSC hours.**

| | | | |
|--|-------|-------|-------|
| CSC 430 - Mobile Programming is (Highly Rec) _____ | _____ | 3 | _____ |
| CSC 440 - Information System Security _____ | _____ | 3 | _____ |
| _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |

**Certain courses are usually offered in one semester (FA/SP).
Check with the Registrar or your advisor for scheduling changes.
SUMMARY:**

| | | |
|---|---------|------------------------|
| UPPER- LEVEL HOURS (300-400) | | (39 hours) |
| (30 in the total degree program) | | |
| CSC 300 | CSC 340 | CSC 410 Ethics 3 _____ |
| CSC 310 | CSC 360 | CSC 420 |
| CSC 330 | CSC 390 | CSC 496 +9 hours |

® Required: not waived with A.A./A.S. Degree
*IP/Sem = In progress. Indicate semester (e.g. FA16)

UNDERGRADUATE DEGREE REQUIREMENTS QUANTITATIVE AND RESIDENCY

- Complete ≥ 120 SH
- Complete ≥ 39 SH at the 300-400 course level
- Meet major requirements as set in Academic Catalog
- Complete ≥ 27 SH at 200-400 level with ≥ 21 SH at QU
- Complete ≥ 30 SH in residency with ≥ 21 SH in major
- Transfer students must have ≥ 56 SH at a 4-year institution

QUALITATIVE

- A minimum cumulative GPA of 2.0 in all classes
- A minimum GPA of 2.0 in major and/or minor courses

TRANSFER STUDENTS WITH A.A. OR A.S. DEGREE

All Bonaventure Program courses are fulfilled with the exception of any two 3 SH TRS, a 300 level Ethics (E:) course, a Diversity (D:) course, a Global (G:) course, two writing-enriched (W:) courses, and any other major requirements.

SERVICE LEARNING REQUIREMENTS

Students must complete 30 hours of service learning, except students who have transferred 24 to 47.9 SH must complete 20 hours, or 48 or more SH must complete 10 hours.