

|   |                         |     |                       |                   |  |     |                          |   |   |   |
|---|-------------------------|-----|-----------------------|-------------------|--|-----|--------------------------|---|---|---|
| 1 <sup>ST</sup><br>YEAR                           | TERM 1                  |     | TERM 2                |                   | TERM 3                                   |     | TERM 4                   |   | TERM 5  |   |
|   | ENG 1101/03             | 3   | AREA IV SS COURSE     | 3                 | ENG 1102/04                              | 3   | AREA IV SS COURSE        | 3 | TROY 1101   | 1 |
|   | MTH 1112 (DR)           | 3   | AREA II HUM/FA COURSE | 3                 | AREA III SCI/LAB COURSE                  | 3/1 | IS 2241                  | 3 | MTH 2201  | 3 |
|   | TOTAL                   | 6   | TOTAL                 | 6                 | TOTAL                                    | 7   | TOTAL                    | 6 | TOTAL   | 4 |
|   | FALL SEMESTER           |     |                       |                   | SPRING SEMESTER                          |     |                          |   | SUMMER SEMESTER   |   |
|   | TROY 1101               | 1   | AREA II HUM/FA COURSE | 3                 | ENG 1102/04                              | 3   | MTH 2201                 | 3 | SELECT COURSES THAT HAVE NOT BEEN COMPLETED FROM PREVIOUS TERMS OR SEMESTERS AS PREREQUISITE COURSES OR COURSES TO BE RETAKEN |   |
|   | ENG 1101/03             | 3   | AREA IV SS COURSE     | 3                 | AREA III SCI/LAB COURSE                  | 3/1 | IS 2241                  | 3 |   |   |
|   | MTH 1112 (DR)           | 3   |                       |                   | AREA IV SS COURSE                        | 3   |                          |   |   |   |
| TOTAL 13  |                         |     |                       | TOTAL 16          |  |     |                          |   |   |   |
| 2 <sup>ND</sup><br>YEAR                           | TERM 1                  |     | TERM 2                |                   | TERM 3                                   |     | TERM 4                   |   | TERM 5  |   |
|   | AREA II LIT COURSE      | 3   | MTH 2215              | 3                 | CS 2255                                  | 3   | AREA IV SS COURSE        | 3 | AREA IV HIS COURSE  | 3 |
|   | AREA III SCI/LAB COURSE | 3/1 | CS 2250               | 3                 | AREA II HUM/FA COURSE                    | 3   | MINOR COURSE             | 3 | AREA II FINE ARTS COURSE  | 3 |
|   | TOTAL                   | 7   | TOTAL                 | 6                 | TOTAL                                    | 6   | TOTAL                    | 6 | TOTAL   | 6 |
|   | FALL SEMESTER           |     |                       |                   | SPRING SEMESTER                          |     |                          |   | SUMMER SEMESTER   |   |
|   | AREA II LIT COURSE      | 3   | CS 2250               | 3                 | AREA IV SS COURSE                        | 3   | MINOR COURSE             | 3 | SELECT COURSES THAT HAVE NOT BEEN COMPLETED FROM PREVIOUS TERMS OR SEMESTERS AS PREREQUISITE COURSES OR COURSES TO BE RETAKEN |   |
|   | AREA III SCI/LAB COURSE | 3/1 | MTH 2215              | 3                 | AREA II HUM/FA COURSE                    | 3   | AREA II FINE ARTS COURSE | 3 |   |   |
|   | AREA IV HIS COURSE      | 3   |                       |                   | CS 2255                                  | 3   |                          |   |   |   |
| TOTAL 16  |                         |     |                       | TOTAL 15          |  |     |                          |   |   |   |
| 3 <sup>RD</sup><br>YEAR                           | TERM 1                  |     | TERM 2                |                   | TERM 3                                   |     | TERM 4                   |   | TERM 5  |   |
|   | CS 2265                 | 3   | MINOR COURSE          | 3                 | REQ MAJ COURSE                           | 3   | REQ MAJ COURSE           | 3 | FREE ELEC   | 3 |
|   | REQ MAJ COURSE          | 3   | MINOR COURSE          | 3                 | FREE ELEC                                | 3   | FREE ELEC                | 3 | MINOR COURSE  | 3 |
|   | TOTAL                   | 6   | TOTAL                 | 6                 | TOTAL                                    | 6   | TOTAL                    | 6 | TOTAL   | 6 |
|   | FALL SEMESTER           |     |                       |                   | SPRING SEMESTER                          |     |                          |   | SUMMER SEMESTER   |   |
|   | CS 2265                 | 3   | MINOR COURSE          | 3                 | REQ MAJ COURSE                           | 3   | FREE ELEC                | 3 | SELECT COURSES THAT HAVE NOT BEEN COMPLETED FROM PREVIOUS TERMS OR SEMESTERS AS PREREQUISITE COURSES OR COURSES TO BE RETAKEN |   |
|   | REQ MAJ COURSE          | 3   | FREE ELEC             | 3                 | REQ MAJ COURSE                           | 3   | FREE ELEC                | 3 |   |   |
|   | MINOR COURSE            | 3   |                       |                   | MINOR COURSE                             | 3   |                          |   |   |   |
| TOTAL 15  |                         |     |                       | TOTAL 15          |  |     |                          |   |   |   |
| 4 <sup>TH</sup><br>YEAR                           | TERM 1                  |     | TERM 2                |                   | TERM 3                                   |     | TERM 4                   |   | TERM 5  |   |
|   | REQ MAJ COURSE          | 3   | REQ MAJ COURSE        | 3                 | APPROVED MAJ ELEC                        | 3   | APPROVED MAJ ELEC        | 3 | FREE ELEC   | 3 |
|   | APPROVED MAJ ELEC       | 3   | MINOR COURSE          | 3                 | REQ MAJ COURSE                           | 3   | MINOR COURSE             | 3 | FREE ELEC   | 3 |
|   |                         |     |                       |                   | REMEMBER TO FILE YOUR INTENT TO GRADUATE |     |                          |   |   |   |
|   | TOTAL                   | 6   | TOTAL                 | 6                 | TOTAL                                    | 6   | TOTAL                    | 6 | TOTAL   | 6 |
|   | FALL SEMESTER           |     |                       |                   | SPRING SEMESTER                          |     |                          |   | SUMMER SEMESTER   |   |
|   | REQ MAJ COURSE          | 3   | MINOR COURSE          | 3                 | REQ MAJ COURSE                           | 3   | MINOR COURSE             | 3 | SELECT COURSES THAT HAVE NOT BEEN COMPLETED FROM PREVIOUS TERMS OR SEMESTERS AS PREREQUISITE COURSES OR COURSES TO BE RETAKEN |   |
|   | REQ MAJ COURSE          | 3   | FREE ELEC             | 3                 | APPROVED MAJ ELEC                        | 3   | FREE ELEC                | 3 |   |   |
| APPROVED MAJ ELEC                                 | 3                       |     |                       | APPROVED MAJ ELEC | 3  |     |                          |   |   |   |
| REMEMBER TO FILE YOUR INTENT TO GRADUATE TOTAL 15 |                         |     |                       | TOTAL 15          |  |     |                          |   |   |   |
| TOTAL PROGRAM 120                                 |                         |     |                       |                   |  |     |                          |   |   |   |

## COLLEGE OF ARTS AND SCIENCES APPROVED ACADEMIC PLAN APPLIED COMPUTER SCIENCE MAJOR–PROGRAM YEAR 2016-17

COMPLETE ALL 6 SUB-REQUIREMENTS

(48 HOURS)

### A. AREA I:

TAKE THE FOLLOWING COURSES:

MINIMUM GRADE OF "C" REQUIRED

|          |                            |         |
|----------|----------------------------|---------|
| ENG 1101 | COMP AND MODERN ENGLISH I  | 3 HOURS |
| ENG 1102 | COMP AND MODERN ENGLISH II | 3 HOURS |

### B. AREA II:

|   |         |
|---|---------|
| TAKE ANY 1000-2000 LEVEL COURSE IN LITERATURE | 3 HOURS |
|---|---------|

|   |         |
|---|---------|
| TAKE ANY 1000-2000 LEVEL COURSE WITH AN EXPANDED HISTORICAL AND CULTURAL SCOPE IN FINE ARTS, INCLUDING THE DISCIPLINES OF ART, MUSIC, THEATRE, FILM, OR OTHER FINE ARTS AREA. | 3 HOURS |
|---|---------|

|   |         |
|---|---------|
| TAKE ANY TWO 1000-2000 LEVEL COURSES WITH AN EXPANDED HISTORICAL AND CULTURAL SCOPE IN THE HUMANITIES/FINE ARTS DISCIPLINES, INCLUDING ENGLISH, FOREIGN LANGUAGES, RELIGION, PHILOSOPHY, CLASSICS, THEATRE, MUSIC, DANCE, COMMUNICATION, SIGN LANGUAGE, INTERDISCIPLINARY STUDIES, OR OTHER HUMANITIES/FINE ARTS AREAS. | 6 HOURS |
|---|---------|

### C. AREA III:

|                               |         |
|-------------------------------|---------|
| TAKE MTH 2201 ("C" OR BETTER) | 3 HOURS |
|-------------------------------|---------|

|   |         |
|---|---------|
| TAKE ANY TWO 1000-2000 LEVEL SCIENCE CLASSES (CLASS AND CORRESPONDING LAB BOTH REQUIRED) FROM THE FOLLOWING SCIENCE DISCIPLINES: BIOLOGY, CHEMISTRY, PHYSICS, PHYSICAL SCIENCE, OR OTHER SCIENCE AREAS. SELECT 2: | 8 HOURS |
|---|---------|

BIO-1100/L100, BIO 1101/L101, BIO 2202/L202, BIO 2229/L229, CHM 1115/L115, CHM 1142/L142, CHM 1143/L143, CHM 2242/L242, PHY 2252/L252, PHY 2253/L253, PHY 2262/L262, PHY 2263/L263, SCI 2233/L233, SCI 2234/L234.

### D. AREA IV:

TAKE THE FOLLOWING COURSES:

|   |         |
|---|---------|
| TAKE ANY 1000-2000 LEVEL COURSE WITH A PRIMARY FOCUS IN HISTORY | 3 HOURS |
|---|---------|

|   |         |
|---|---------|
| TAKE ANY THREE 1000 2000 LEVEL COURSE FROM THE FOLLOWING SOCIAL SCIENCE DISCIPLINES: ANTHROPOLOGY, BUSINESS, CRIMINAL JUSTICE, ECONOMICS, GEOGRAPHY, HISTORY, HUMAN SERVICES, LEADERSHIP, INTERDISCIPLINARY STUDIES, NURSING, POLITICAL SCIENCE, PSYCHOLOGY, RELIGION, SOCIAL WORK, SOCIOLOGY, OR OTHER SOCIAL SCIENCE AREAS. | 9 HOURS |
|---|---------|

### E. AREA V:

|  |         |
|--|---------|
| TAKE THE FOLLOWING COURSES: IS 2241 COMPUTER CONCEPTS & APPLICATIONS | 3 HOURS |
|--|---------|

|                                       |         |
|---------------------------------------|---------|
| MTH 2215 APPLIED DISCRETE MATHEMATICS | 3 HOURS |
|---------------------------------------|---------|

|                                  |        |
|----------------------------------|--------|
| TROY 1101 UNIVERSITY ORIENTATION | 1 HOUR |
|----------------------------------|--------|



## COLLEGE OF ARTS AND SCIENCES APPROVED ACADEMIC PLAN APPLIED COMPUTER SCIENCE MAJOR–PROGRAM YEAR 2016-17

### APPLIED COMPUTER SCIENCE MAJOR

(27 HOURS)

MINIMUM 2.0 OVERALL GPA REQUIRED

TAKE THE FOLLOWING COURSES:

|    |      |                                  |         |
|----|------|----------------------------------|---------|
| CS | 2250 | COMPUTER SCIENCE I               | 3 HOURS |
| CS | 2255 | COMPUTER SCIENCE II              | 3 HOURS |
| CS | 2265 | ADVANCED PROGRAMMING I           | 3 HOURS |
| CS | 3330 | DATA STRUCTURE & ALGORITHMS      | 3 HOURS |
| CS | 4420 | INTRODUCTION TO DATABASE SYSTEMS | 3 HOURS |
| CS | 4443 | WEB-BASED SOFTWARE DEVELOPMENT   | 3 HOURS |
| CS | 4445 | DATA COMMUNICATION & NETWORKING  | 3 HOURS |
| CS | 4447 | SYSTEMS ANALYSIS AND DESIGN      | 3 HOURS |
| CS | 4448 | OPERATING SYSTEMS                | 3 HOURS |

### MAJOR ELECTIVES

(9 HOURS)

TAKE THREE ADDITIONAL COURSES FROM THE FOLLOWING:

CS 3320, CS 3332, CS 3347, CS 4449, CS 4451 OR CS 4495

9 HOURS

### MINOR

(18 HOURS)

AT LEAST ONE 18 SEMESTER HOUR MINOR IS REQUIRED TO COMPLETE THIS DEGREE PROGRAM. ADDITIONAL MAJORS ARE ALSO ACCEPTABLE.

### FREE ELECTIVES REQUIREMENT

(18 HOURS)

TAKE 18 SEMESTER HOURS OF FREE ELECTIVE CREDIT.

18 HOURS