



# MY DEGREE MAP

## COLLEGE OF ARTS AND SCIENCES APPROVED ACADEMIC PLAN APPLIED COMPUTER SCIENCE MAJOR-PROGRAM YEAR 2017-18

|                                | TERM 1                         |             | TERM 2                |                   | TERM 3                  |             | TERM 4                   |                   | TERM 5  |           |
|--------------------------------|--------------------------------|-------------|-----------------------|-------------------|-------------------------|-------------|--------------------------|-------------------|---|-----------|
|                                | <b>1<sup>ST</sup><br/>YEAR</b> | ENG 1101/03 | 3                     | AREA IV SS COURSE | 3                       | ENG 1102/04 | 3                        | AREA IV SS COURSE | 3   | TROY 1101 |
| 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                |             |                          |                   |   |           |
| <b>2<sup>ND</sup><br/>YEAR</b> | 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                |             |                          |                   |   |           |
| <b>3<sup>RD</sup><br/>YEAR</b> | 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                |             |                          |                   |   |           |
| <b>4<sup>TH</sup><br/>YEAR</b> | 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         |
|                                | 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                       |             |                          |                   |   |           |
|                                | TOTAL 15                       |             |                       |                   | TOTAL 15                |             |                          |                   |   |           |
| <b>TOTAL PROGRAM 120</b>       |                                |             |                       |                   |                         |             |                          |                   |   |           |

**COLLEGE OF ARTS AND SCIENCES APPROVED ACADEMIC PLAN  
APPLIED COMPUTER SCIENCE MAJOR–PROGRAM YEAR 2017-18**

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 |
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|   |         |
|---|---------|
| 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 |
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**C. AREA III:**

|                               |         |
|-------------------------------|---------|
| TAKE MTH 2201 ("C" OR BETTER) | 3 HOURS |
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|   |         |
|---|---------|
| 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 |
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**E. AREA V:**

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| TAKE THE FOLLOWING COURSES: IS 2241 COMPUTER CONCEPTS & APPLICATIONS | 3 HOURS |
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|                                       |         |
|---------------------------------------|---------|
| 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 2017-18**

**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