# MY DEGREE MAP
## COLLEGE OF ARTS AND SCIENCES APPROVED ACADEMIC PLAN
## COMPUTER SCIENCE MAJOR-PROGRAM YEAR 2021-22

**TROY UNIVERSITY** ™

### 1ST YEAR

| TERM 1 | | TERM 2 | | TERM 3 | | TERM 4 | | TERM 5 | |
|---|---|---|---|---|---|---|---|---|---|
| DR FREE ELEC MTH 1112 | 3 | AREA IV SS COURSE | 3 | ENG 1102/04 | 3 | DR FREE ELEC MTH 1114 | 3 | AREA II HUM/FA COURSE | 3 |
| ENG 1101/03 | 3 | AREA II FINE ARTS COURSE | 3 | AREA III PHY/ CHM SEQ COURSE | 3/1 | AREA IV SS COURSE | 3 | | |
| TROY 1101 | 1 | | | | | | | | |
| TOTAL | 7 | TOTAL | 6 | TOTAL | 7 | TOTAL | 6 | TOTAL | 3 |

### 2ND YEAR

| TERM 1 | | TERM 2 | | TERM 3 | | TERM 4 | | TERM 5 | |
|---|---|---|---|---|---|---|---|---|---|
| AREA II LIT COURSE | 3 | AREA IV HIS COURSE | 3 | AREA II HUM/FA COURSE | 3 | REQ MAJ COURSE | 3 | MINOR COURSE | 3 |
| AREA III PHY/ CHM SEQ COURSE | 3/1 | CS 2250 | 3 | CS 2255 | 4 | MTH 2215 | 3 | FREE ELEC | 3 |
| TOTAL | 7 | TOTAL | 7 | TOTAL | 7 | TOTAL | 6 | TOTAL | 6 |

### 3RD YEAR

| TERM 1 | | TERM 2 | | TERM 3 | | TERM 4 | | TERM 5 | |
|---|---|---|---|---|---|---|---|---|---|
| REQ MAJ COURSE | 3 | REQ MAJ COURSE | 3 | REQ MAJ COURSE | 3 | REQ MAJ COURSE | 3 | FREE ELEC | 1 |
| REQ MAJ COURSE | 3 | REQ MAJ COURSE | 3 | REQ MAJ COURSE | 3 | REQ MAJ COURSE | 3 | AREA II HUM/FA COURSE | 3 |
| TOTAL | 6 | TOTAL | 6 | TOTAL | 6 | TOTAL | 6 | TOTAL | 4 |

### 4TH YEAR

| TERM 1 | | TERM 2 | | TERM 3 | | TERM 4 | | TERM 5 | |
|---|---|---|---|---|---|---|---|---|---|
| REQ MAJ COURSE | 3 | REQ MAJ COURSE | 3 | REQ MAJ COURSE | 3 | REQ MAJ COURSE | 3 | FREE ELEC | 3 |
| FREE ELEC | 3 | FREE ELEC | 3 | FREE ELEC | 3 | APPROVED MAJ ELEC | 3 | APPROVED MAJ ELEC | 3 |
| | | | | SUBMIT GRADUATION APPLICATION | | | | | |
| TOTAL | 6 | TOTAL | 6 | TOTAL | 6 | TOTAL | 6 | TOTAL | 6 |

| | | | | | | | | TOTAL PROGRAM | 120 |
|---|---|---|---|---|---|---|---|---|---|

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## COLLEGE OF ARTS AND SCIENCES APPROVED ACADEMIC PLAN
## COMPUTER SCIENCE MAJOR–PROGRAM YEAR 2021-22

**COMPLETE ALL REQUIREMENTS**                                                    **(50 HOURS)**

### AREA I

TAKE THE FOLLOWING COURSES:

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

MINIMUM GRADE OF "C" REQ

### 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 |

NOTE: A SEQUENCE IN LITERATURE OR HISTORY IS REQ. WHEN SELECTING COURSEWORK IN AREAS II OR IV, PLEASE CONSIDER THIS REQUIREMENT.

### AREA III

| | | | |
|---|---|---|---|
| MTH | 1125 | CALCULUS 1 | 4 HOURS |

MINIMUM GRADE OF "C" REQ

| | |
|---|---|
| TAKE AN EIGHT-HOUR COURSE/LAB SEQUENCE IN CHEMISTRY OR PHYSICS CHEMISTRY SEQUENCE CHM 1142/L142 AND CHM 1143/L143 OR PHYSICS SEQUENCE PHY 2252/L252 AND PHY 2253/L253 OR PHYSICS SEQUENCE PHY 2262/L262 AND PHY 2263/L263 | 8 HOURS |

### AREA IV

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

**NOTE: A SEQUENCE IN LITERATURE OR HISTORY IS REQ. WHEN SELECTING COURSEWORK IN AREAS II OR IV, PLEASE CONSIDER THIS REQUIREMENT.**

### AREA V

| | | | |
|---|---|---|---|
| CS | 2250 | COMPUTER SCIENCE I | 3 HOURS |
| MTH | 1126 | CALCULUS II | 4 HOURS |
| TROY | 1101 | THE UNIVERSITY EXPERIENCE | 1 HOUR |

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## COLLEGE OF ARTS AND SCIENCES APPROVED ACADEMIC PLAN
## COMPUTER SCIENCE MAJOR–PROGRAM YEAR 2021-22

**COMPUTER SCIENCE MAJOR**     **(48 HOURS)**

TAKE THE FOLLOWING COURSES:

| | | | |
|---|---|---|---|
| CS | 2255 | COMPUTER SCIENCE II | 3 HOURS |
| CS | 3310 | FOUNDATIONS OF COMPUTER SCIENCE | 3 HOURS |
| CS | 3323 | DATA STRUCTURES | 3 HOURS |
| CS | 3329 | ANALYSIS OF ALGORITHMS | 3 HOURS |
| CS | 3332 | SOFTWARE ENGINEERING I | 3 HOURS |
| CS | 3360 | CONCEPTS OF OBJECT PROGRAM I | 3 HOURS |
| CS | 3365 | INTRO COMPUTER ORGANIZATION & ARCHITECTURE | 3 HOURS |
| CS | 3370 | NATURE OF PROGRAMMING LANGUAGE | 3 HOURS |
| CS | 3372 | FORMAL LANGUAGE & THEORY OF COMPUTATION | 3 HOURS |
| CS | 4420 | INTRODUCTION TO DATABASE SYSTEMS | 3 HOURS |
| CS | 4445 | DATA COMMUNICATION & NETWORKING | 3 HOURS |
| CS | 4448 | OPERATING SYSTEMS | 3 HOURS |
| STAT | 2210 | INTRODUCTORY STATISTICS | 3 HOURS |
| MTH | 2215 | APPLIED DISCRETE MATHEMATICS | 3 HOURS |

**MAJOR ELECTIVES**

SELECT TWO ADDITIONAL COURSES FROM THE FOLLOWING     6 HOURS
CS 3320, CS 3325, CS 3331, CS 3361, CS 4401, CS 4443, CS 4447, CS 4451,
CS 4461, CS 4462, OR CS 4495.

**FREE ELECTIVES REQUIREMENT**     **(22 HOURS)**

TAKE 22 SEMESTER HOURS OF FREE ELECTIVE CREDIT     22 HOURS
(MTH 1112 AND MTH 1114 ARE RECOMMENDED BY THE DEPARTMENT
AS A FREE ELECTIVES DUE TO BEING PREREQUISITE COURSES FOR MTH 1125.
DR DENOTES DEPARTMENTAL RECOMMENDED COURSES.)