

**MY DEGREE MAP  
COLLEGE OF ARTS AND SCIENCES APPROVED ACADEMIC PLAN  
COMPUTER SCIENCE MAJOR-PROGRAM YEAR 2020-21**

| <b>1<sup>ST</sup> YEAR</b>           |              |                                |              |
|--------------------------------------|--------------|--------------------------------|--------------|
| <b>1<sup>ST</sup> SEMESTER</b>       | <b>HOURS</b> | <b>2<sup>ND</sup> SEMESTER</b> | <b>HOURS</b> |
| TROY 1101                            | 1            | ENG 1102/04                    | 3            |
| ENG 1101/03                          | 3            | AREA III PHY/CHM SEQ<br>COURSE | 3/1          |
| MTH 1112 (DR)                        | 3            | MTH 1114 (DR)                  | 3            |
| AREA IV SS COURSE                    | 3            | AREA IV SS COURSE              | 3            |
| AREA II FINE ARTS COURSE             | 3            | AREA II HUM/FA COURSE          | 3            |
| <b>TOTAL</b>                         | <b>13</b>    | <b>TOTAL</b>                   | <b>16</b>    |
| <b>2<sup>ND</sup> YEAR</b>           |              |                                |              |
| <b>3<sup>RD</sup> SEMESTER</b>       | <b>HOURS</b> | <b>4<sup>TH</sup> SEMESTER</b> | <b>HOURS</b> |
| AREA II LIT COURSE                   | 3            | MTH 1126                       | 4            |
| MTH 1125                             | 4            | AREA IV SS COURSE              | 3            |
| AREA III PHY/CHM SEQ<br>COURSE       | 3/1          | MTH 2215                       | 3            |
| CS 2250                              | 3            | CS 2255                        | 3            |
| AREA IV HIS COURSE                   | 3            | FREE ELEC                      | 1            |
| <b>TOTAL</b>                         | <b>17</b>    | <b>TOTAL</b>                   | <b>14</b>    |
| <b>3<sup>RD</sup> YEAR</b>           |              |                                |              |
| <b>5<sup>TH</sup> SEMESTER</b>       | <b>HOURS</b> | <b>6<sup>TH</sup> SEMESTER</b> | <b>HOURS</b> |
| REQ MAJOR COURSE                     | 3            | REQ MAJOR COURSE               | 3            |
| REQ MAJOR COURSE                     | 3            | REQ MAJOR COURSE               | 3            |
| REQ MAJOR COURSE                     | 3            | REQ MAJOR COURSE               | 3            |
| REQ MAJOR COURSE                     | 3            | REQ MAJOR COURSE               | 3            |
| AREA II HUM/FA COURSE                | 3            | FREE ELEC                      | 3            |
| <b>TOTAL</b>                         | <b>15</b>    | <b>TOTAL</b>                   | <b>15</b>    |
| <b>4<sup>TH</sup> YEAR</b>           |              |                                |              |
| <b>7<sup>TH</sup> SEMESTER</b>       | <b>HOURS</b> | <b>8<sup>TH</sup> SEMESTER</b> | <b>HOURS</b> |
| REQ MAJOR COURSE                     | 3            | REQ MAJOR COURSE               | 3            |
| REQ MAJOR COURSE                     | 3            | REQ MAJOR COURSE               | 3            |
| APPROVED MAJ ELEC                    | 3            | APPROVED MAJ ELEC              | 3            |
| FREE ELEC                            | 3            | FREE ELEC                      | 3            |
| FREE ELEC                            | 3            | FREE ELEC                      | 3            |
| <b>SUBMIT GRADUATION APPLICATION</b> |              |                                |              |
| <b>TOTAL</b>                         | <b>15</b>    | <b>TOTAL</b>                   | <b>15</b>    |
|                                      |              | <b>TOTAL PROGRAM</b>           | <b>120</b>   |

## COLLEGE OF ARTS AND SCIENCES APPROVED ACADEMIC PLAN COMPUTER SCIENCE MAJOR-PROGRAM YEAR 2020-21

### 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 8 HOURS

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

PHYSICAL SCIENCE AND EARTH SCIENCE SCI 2233/L233 & SCI 2234/L234

PHYSICAL SCIENCE AND ASTRONOMY SCI 2233/L233 & SCI 2240/L240

#### 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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**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<br>CS 3320, CS 3325, CS 3331, CS 3361, CS 4401, CS 4443, CS 4447, CS 4451,<br>CS 4461, CS 4462, OR CS 4495. | 6 HOURS |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|

**FREE ELECTIVES REQUIREMENT**

**(22 HOURS)**

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