

# MY DEGREE MAP COLLEGE OF ARTS AND SCIENCES APPROVED ACADEMIC PLAN APPLIED COMPUTER SCIENCE MAJOR-PROGRAM YEAR 2023-24

1 <sup>st</sup> YEAR	term 1		term 2		term 3		term 4		term 5	
	MTH 1112 (DR)	3	AREA IV SS Course	3	ENG 1102/04	3	CS 2210	3	MTH 2201	3
	ENG 1101/03	3	AREA II HUM/FA Course	3	AREA III SCI/LAB Course	3/1	AREA IV SS COURSE	3		
	TROY 1101	1				TH				
2 <sup>ND</sup> YEAR	TOTAL	7	TOTAL	6	TOTAL	7	TOTAL	6	TOTAL	3
	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
							。指於性的極限		· 3万/16世纪	
	TOTAL	7	TOTAL	6	TOTAL	6	TOTAL	6	TOTAL	6
	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
3 <sup>RD</sup> YEAR	REQ MAJ COURSE	3	MINOR COURSE	3	FREE ELEC	3	FREE ELEC	3	MINOR COURSE	3
									THE RESERVE	
	TOTAL	6	TOTAL	6	TOTAL	6	TOTAL	6	TOTAL	6
4 <sup>TH</sup> 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
					SUBMIT GRAI	SUBMIT GRADUATION APPLICATION				
	TOTAL	6	TOTAL	6	TOTAL	6	TOTAL	6	TOTAL	6
	TOTAL PROGRAM 12									120



# COLLEGE OF ARTS AND SCIENCES APPROVED ACADEMIC PLAN APPLIED COMPUTER SCIENCE MAJOR-PROGRAM YEAR 2023-24

#### **COMPLETE ALL REQUIREMENTS** (48 HOURS) **AREA I** TAKE THE FOLLOWING COURSES: COMP AND MODERN ENGLISH I ENG 1101 3 HOURS COMP AND MODERN ENGLISH II ENG 1102 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 3 HOURS AND CULTURAL SCOPE IN FINE ARTS, INCLUDING THE DISCIPLINES OF ART, MUSIC, THEATRE, FILM, OR OTHER FINE ARTS AREA. TAKE ANY TWO 1000 2000 LEVEL COURSES WITH AN EXPANDED 6 HOURS 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. NOTE: A SEQUENCE IN LITERATURE OR HISTORY IS REQ. WHEN SELECTING COURSEWORK IN AREAS II OR IV, PLEASE CONSIDER THIS REQUIREMENT. **AREA III** MTH 2201 CALCULUS AND ITS APPLICATIONS 3 HOURS MINIMUM GRADE OF "C" REQ TAKE ANY TWO 1000-2000 LEVEL SCIENCE CLASSES (CLASS 8 HOURS AND CORRESPONDING LAB) FROM THE FOLLOWING SCIENCE DISCIPLINES: BIOLOGY, CHEMISTRY, PHYSICS, PHYSICAL SCIENCE, OR OTHER SCIENCE AREAS. SELECT 2: BIO 1100/L100, BIO 1101/L101, BIO 1120/L120, 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, 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	9 HOURS
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.

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

EVERY REASONABLE ATTEMPT TO ENSURE ACCURACY HAS BEEN MADE. SOME COURSES (SUCH AS DEVELOPMENTAL OR PRE-REQUISITE COURSES) ARE NOT REFLECTED IN THIS DEGREE MAP.

COMPLETION OF DEGREE REQUIREMENTS IS BASED ON THE SPECIFIC CATALOG YEAR FOR EACH STUDENT.A MINIMUM OF 120 HOURS IS REQUIRED FOR ALL BACCALAUREATE DEGREE PROGRAMS.

AT LEAST 25% OF THE CREDIT HOURS REQUIRED FOR THE DEGREE MUST BE COMPLETED IN RESIDENCY WITH TROY UNIVERSITY.AT LEAST 12 SEMESTER HOURS OF RESIDENCY MUST BE COMPLETED IN EACH MAJOR FIELD(S) OF STUDY.A MINIMUM GPA OF 2.0 OVERALL AND IN THE MAJOR IS REQUIRED TO GRADUATE.NOTE: PLEASE CONSULT THE COLLEGE OF ARTS AND SCIENCES OR CURRENT CATALOG FOR OTHER REQUIREMENTS NOT COVERED IN THIS DOCUMENT.NOTES: A SEQUENCE IN LITERATURE OR HISTORY IS REQUIRED. PLEASE CONSIDER THIS REQUIREMENT. WHEN SELECTING COURSEWORK IN AREAS II OR IV.



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### AREA V

AP

CS 2210 TROY 1101 MTH 2215	COMPUTER CONCEPTS AND APPLICATIONS THE UNIVERSITY EXPERIENCE APPLIED DISCRETE MATHEMATICS	3 HOURS 1 HOUR 3 HOURS
PPLIED COMP	UTER SCIENCE MAJOR	(36 HOURS)
TAKE THE FO	OLLOWING COURSES:	

TARE THE FOLLOWING COOKSES.					
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**

SEI	LECT THREE ADDITIONAL COURSES FROM THE FOLLOWING	9 HOURS
CS	3320. CS 3332. CS 3347. CS 4449. CS 4451. CS 4495. CS 4499. CS 4480. OR CS 4410	

### MINOR (18 HOURS)

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

## FREE ELECTIVES REQUIREMENT

TAKE 18 SEMESTER HOURS OF FREE ELECTIVE CREDIT (MTH 1112 PRECALCULUS ALGEBRA IS RECOMMENDED BY THE DEPARTMENT AS A FREE ELECTIVE DUE TO BEING A PREREQUISITE COURSE FOR MTH 2201 AND MTH 2215. DR DENOTES DEPARTMENTAL RECOMMENDED COURSE.)

(18 HOURS)

18 HOURS

MY DEGREE MAP SERVES AS A GUIDE TO ASSIST YOU WITH THE PROPER SEQUENCE AND SELECTION OF COURSES. IT DOES NOT REPLACE YOUR PROGRAM EVALUATION, WHICH DEPICTS THE OFFICIAL DOCUMENT USED TO CLEAR STUDENTS FOR GRADUATION. MY DEGREE MAP INCLUDES THE REQUIRED COURSE WORK AND SUGGESTED SEQUENCE OF COURSES FOR A PARTICULAR DEGREE PROGRAM. EVERY REASONABLE ATTEMPT HAS BEEN MADE TO ENSURE ACCURACY OF CONTENT. PLEASE KEEP IN MIND THAT SOME COURSES, SUCH AS DEVELOPMENTAL OR PRE-REQUISITE COURSES, ARE NOT REFLECTED IN MY DEGREE MAP. COMPLETION OF DEGREE REQUIREMENTS IS BASED ON THE SPECIFIC CATALOG YEAR UNDER WHICH YOU WERE ADMITTED TO TROY. PLEASE CONSULT THE COLLEGE CATALOG, YOUR ACADEMIC ADVISOR, YOUR SPECIFIC SCHOOL, DEPARTMENT, OR YOUR PROGRAM EVALUATION FOR ANY ADDITIONAL REQUIREMENTS.