# **TROY** UNIVERSITY M MY DEGREE MAP COLLEGE OF ARTS AND SCIENCES APPROVED ACADEMIC PLAN COMPUTER SCIENCE MAJOR--PROGRAM YEAR 2019-2020

1 <sup>ST</sup> YEAR									
1 <sup>st</sup> SEMESTER	HOURS	2 <sup>ND</sup> SEMESTER	HOURS						
TROY 1101	1	ENG 1102/04	3						
ENG 1101/03	3	AREA III PHY/CHM SEQ	3/1						
		COURSE							
DR FREE ELEC MTH 1112	3	DR FREE ELEC MTH 1114	3						
AREA IV SS COURSE	3	AREA IV SS COURSE	3						
AREA II FINE ARTS COURSE	3	AREA II HUM/FA COURSE	3						
TOTAL	13	TOTAL	16						
	2 <sup>ND</sup> Y								
3 <sup>RD</sup> SEMESTER	HOURS	$4^{TH}$ SEMESTER	HOURS						
AREA II LIT COURSE	3	MTH 1126	4						
MTH 1125	4	AREA IV SS COURSE	3						
AREA III PHY/CHM SEQ	3/1	MTH 2215	3						
COURSE									
CS 2250	3	CS 2255	3						
AREA IV HIS COURSE	3	FREE ELEC	1						
TOTAL	17	TOTAL	14						
	3 <sup>rd</sup> Y								
5 <sup>TH</sup> SEMESTER	HOURS	6 <sup>TH</sup> SEMESTER	HOURS						
REQ MAJOR COURSE	3	REQ MAJOR COURSE	3						
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REQ MAJOR COURSE	3	REQ MAJOR COURSE	3						
REQ MAJOR COURSE	3	REQ MAJOR COURSE REQ MAJOR COURSE	3 3						
REQ MAJOR COURSE REQ MAJOR COURSE	3 3	REQ MAJOR COURSE REQ MAJOR COURSE REQ MAJOR COURSE	3 3 3						
REQ MAJOR COURSE REQ MAJOR COURSE AREA II HUM/FA COURSE	3 3 3	REQ MAJOR COURSE REQ MAJOR COURSE REQ MAJOR COURSE FREE ELEC	3 3 3 3						
REQ MAJOR COURSE REQ MAJOR COURSE	3 3 3 15	REQ MAJOR COURSEREQ MAJOR COURSEREQ MAJOR COURSEFREE ELECTOTAL	3 3 3						
REQ MAJOR COURSE REQ MAJOR COURSE AREA II HUM/FA COURSE TOTAL	3 3 3 15 4 <sup>TH</sup> Y	REQ MAJOR COURSE REQ MAJOR COURSE REQ MAJOR COURSE FREE ELEC TOTAL EAR	3 3 3 3 15						
REQ MAJOR COURSE REQ MAJOR COURSE AREA II HUM/FA COURSE TOTAL 7 <sup>TH</sup> SEMESTER	3 3 3 15 4 <sup>TH</sup> Y HOURS	REQ MAJOR COURSE REQ MAJOR COURSE REQ MAJOR COURSE FREE ELEC TOTAL EAR 8 <sup>TH</sup> SEMESTER	3 3 3 3 15 HOURS						
REQ MAJOR COURSE REQ MAJOR COURSE AREA II HUM/FA COURSE TOTAL 7 <sup>TH</sup> SEMESTER REQ MAJOR COURSE	3 3 3 15 4 <sup>TH</sup> Y HOURS 3	REQ MAJOR COURSE REQ MAJOR COURSE REQ MAJOR COURSE FREE ELEC TOTAL EAR 8 <sup>TH</sup> SEMESTER REQ MAJOR COURSE	3 3 3 3 15 HOURS 3						
REQ MAJOR COURSE REQ MAJOR COURSE AREA II HUM/FA COURSE TOTAL 7 <sup>TH</sup> SEMESTER REQ MAJOR COURSE REQ MAJOR COURSE	3 3 3 15 4 <sup>TH</sup> Y HOURS 3 3	REQ MAJOR COURSE REQ MAJOR COURSE REQ MAJOR COURSE FREE ELEC TOTAL EAR 8 <sup>TH</sup> SEMESTER REQ MAJOR COURSE REQ MAJOR COURSE	3 3 3 15 HOURS 3 3						
REQ MAJOR COURSE REQ MAJOR COURSE AREA II HUM/FA COURSE TOTAL 7 <sup>TH</sup> SEMESTER REQ MAJOR COURSE REQ MAJOR COURSE APPROVED MAJ ELEC	3 3 3 15 4 <sup>TH</sup> Y HOURS 3 3 3 3	REQ MAJOR COURSE REQ MAJOR COURSE REQ MAJOR COURSE FREE ELEC TOTAL EAR 8 <sup>TH</sup> SEMESTER REQ MAJOR COURSE REQ MAJOR COURSE APPROVED MAJ ELEC	3 3 3 3 15 HOURS 3 3 3 3						
REQ MAJOR COURSE REQ MAJOR COURSE AREA II HUM/FA COURSE TOTAL 7 <sup>TH</sup> SEMESTER REQ MAJOR COURSE REQ MAJOR COURSE APPROVED MAJ ELEC FREE ELEC	3 3 3 15 4 <sup>TH</sup> Y HOURS 3 3 3 3 3 3	REQ MAJOR COURSE REQ MAJOR COURSE REQ MAJOR COURSE FREE ELEC TOTAL EAR REQ MAJOR COURSE REQ MAJOR COURSE REQ MAJOR COURSE APPROVED MAJ ELEC FREE ELEC	3 3 3 15 HOURS 3 3 3 3 3 3						
REQ MAJOR COURSE REQ MAJOR COURSE AREA II HUM/FA COURSE TOTAL 7 <sup>TH</sup> SEMESTER REQ MAJOR COURSE REQ MAJOR COURSE APPROVED MAJ ELEC FREE ELEC FREE ELEC	3 3 3 15 4 <sup>TH</sup> Y HOURS 3 3 3 3	REQ MAJOR COURSE REQ MAJOR COURSE REQ MAJOR COURSE FREE ELEC TOTAL EAR 8 <sup>TH</sup> SEMESTER REQ MAJOR COURSE REQ MAJOR COURSE APPROVED MAJ ELEC	3 3 3 3 15 HOURS 3 3 3 3						
REQ MAJOR COURSE REQ MAJOR COURSE AREA II HUM/FA COURSE TOTAL 7 <sup>TH</sup> SEMESTER REQ MAJOR COURSE REQ MAJOR COURSE APPROVED MAJ ELEC FREE ELEC	3 3 3 15 4 <sup>TH</sup> Y HOURS 3 3 3 3 3 3	REQ MAJOR COURSE REQ MAJOR COURSE REQ MAJOR COURSE FREE ELEC TOTAL EAR REQ MAJOR COURSE REQ MAJOR COURSE REQ MAJOR COURSE APPROVED MAJ ELEC FREE ELEC	3 3 3 15 HOURS 3 3 3 3 3 3						
REQ MAJOR COURSE REQ MAJOR COURSE AREA II HUM/FA COURSE TOTAL 7 <sup>TH</sup> SEMESTER REQ MAJOR COURSE REQ MAJOR COURSE APPROVED MAJ ELEC FREE ELEC FREE ELEC SUBMIT GRADUATION	3 3 3 15 4 <sup>TH</sup> Y HOURS 3 3 3 3 3 3	REQ MAJOR COURSE REQ MAJOR COURSE REQ MAJOR COURSE FREE ELEC TOTAL EAR REQ MAJOR COURSE REQ MAJOR COURSE REQ MAJOR COURSE APPROVED MAJ ELEC FREE ELEC	3 3 3 15 HOURS 3 3 3 3 3 3						

### JNIVERSITY TM College of Arts and Sciences Approved Academic Plan Computer Science Major--program year 2019-2020

COMPLETE ALL REQUIREMENTS				
AREA I				
TAKE THE FOLLOWING COURSES: Eng 1101 Comp and modern English I Eng 1102 Comp and modern English II Minimum grade of "C" Req.	3 HOURS 3 HOURS			
AREA II				
TAKE ANY 1000 2000 LEVEL COURSE IN LITERATURE 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 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 MINIMUM GRADE OF "C" REQ	4 HOURS			
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 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.	3 HOURS 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				
CS2250COMPUTER SCIENCE IMTH1126CALCULUS IITROY1101UNIVERSITY ORIENATION	3 HOURS 4 HOURS 1 HOUR			

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. COMPLE-TION OF DEGREE REQUIREMENTS IS BASED ON THE SPECIFIC CATALOG YEAR FOR EACH STUDENTA 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 COURSE-WORK IN AREAS II OR IV.

## COLLEGE OF ARTS AND SCIENCES APPROVED ACADEMIC PLAN COMPUTER SCIENCE MAJOR--PROGRAM YEAR 2019-2020

#### COMPUTER SCIENCE MAJOR

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### (48 HOURS)

	TAKE	THE FOLLO	DWING 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		INTRODUCTORY STATISTICS	3 HOURS			
	MTH	2215	APPLIED DISCRETE MATHEMATICS	3 HOURS			
MAJOR ELECTIVES							
	SELEC	T TWO AD	DITIONAL COURSES FROM THE FOLLOWING	6 HOURS			
C\$ 3320, C\$ 3325, C\$ 3331, C\$ 3361, C\$ 4401, C\$ 4443, C\$ 4447, C\$ 4451,							
	CS 4461, CS 4462, OR CS 4495.						
FREE ELECTIVES REQUIREMENT			(22 HOURS)				
	TAKE			22 HOURS			
TAKE 22 SEMESTER HOURS OF FREE ELECTIVE CREDIT							
			MTH 1114 ARE RECOMMENDED BY THE DEPARTMENT				
	AS A FREE ELECTIVES DUE TO BEING PREREQUISITE COURSES FOR MTH 1125.						
	DR DENOTES DEPARTMENTAL RECOMMENDED COURSES.)						

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 (AVAILABLE THROUGH TROJAN WEE EXPRESS), WHICH DEPICTS THE OFFICIAL DOCUMENT USED TO CLEAR STUDENTS FOR GRADUATION. MY DEGREE MAP INCLUDES THE REQUIRED COURSE WAR 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.