MY DEGREE MAP
COLLEGE OF SCIENCE AND ENGINEERING
COMPUTER SCIENCE
ACADEMIC YEAR 2025-2026

YEAR ONE			
FIRST SEMESTER	HOURS	SECOND SEMESTER	HOURS
TROY 1101 OR TROY 1105	1	ENGLISH 1102	3
ENGLISH 1101	3	AREA IV SOCIAL SCIENCE	3
AREA IV SOCIAL SCIENCE	3	PHY 2252 OR PHY 2262	3
AREA II FINE ARTS	3	PHY L252	1
AREA II HUMANITIES OR FINE ARTS	3	CS 2250	3
FREE ELECTIVE (MTH 1112 DR)	3	FREE ELECTIVE (MATH 1114 DR)	3
TOTAL SEMESTER HOURS	16	TOTAL SEMESTER HOURS	16

YEAR TWO			
THIRD SEMESTER	HOURS	FOURTH SEMESTER	HOURS
AREA III SCIENCE	3	AREA IV SOCIAL SCIENCE	3
AREA III SCIENCE LAB	1	AREA IV HISTORY	3
MTH 1125	4	AREA II LITERATURE	3
MTH 2215 (MAJOR COURSE)	3	MTH 1126	4
CS 2255 (MAJOR COURSE)	3	CS 3323 (MAJOR COURSE)	3
FREE ELECTIVE	1		
TOTAL SEMESTER HOURS	15	TOTAL SEMESTER HOURS	16

Take CS 3323 before CS 3329, CS 3332, CS 3370, CS 3372, CS 4420, CS 4445, and CS 4448.

YEAR THREE			
FIFTH SEMESTER	HOURS	SIXTH SEMESTER	HOURS
AREA II HUMANITIES OR FINE ARTS	3	MAJOR COURSE	3
STAT 2210 (MAJOR COURSE)	3	MAJOR COURSE	3
CS 2220	3	MAJOR COURSE	3
MAJOR COURSE	3	MAJOR COURSE	3
MAJOR COURSE	3	FREE ELECTIVE	3
TOTAL SEMESTER HOURS	15	TOTAL SEMESTER HOURS	15

YEAR FOUR			
SEVENTH SEMESTER	HOUR	EIGHTH SEMESTER	HOURS
MAJOR COURSE	3	MAJOR COURSE	3
MAJOR COURSE	3	MAJOR COURSE	3
MAJOR ELECTIVE	3	MAJOR ELECTIVE	3
FREE ELECTIVE	3	FREE ELECTIVE	3
FREE ELECTIVE	3		
FILE YOUR GRADUATION APPLICATION			
TOTAL SEMESTER HOURS	15	TOTAL SEMESTER HOURS	12

TOTAL PROGRAM HOURS: 120

AREA I		
ENG 1101	Composition and Modern English I (Minimum grade of C required)	3 Hours
ENG 1102	Composition and Modern English II (Minimum grade of C required)	3 Hours

AREA II	
Any 1000-2000 level course in Literature	3 Hours
Any 1000-2000 level course with an expanded historical and cultural scope in the Fine Arts, including the disciplines of Art, Music, Theatre, Film, or other Fine Arts areas.	3 Hours
Any two 1000-2000 level courses with an expanded historical and cultural scope in the Humanities/Fine Arts disciplines, including English, Foreign Languages, Nursing, Religion, Philosophy, Classics, Theatre, Music, Dance, Communication, Sign Language, Interdisciplinary Studies, or other Humanities/Fine Arts areas. When selecting general studies courses in AREA II and/or AREA IV, you must complete a six-hour sequence in Literature or History. The course sequence must be completed in one content area.	6 Hours

AREA III		
MTH 1125	Calculus I (Minimum grade of C required)	4 Hours
	Any 1000-2000 level science class and corresponding lab from the following Science disciplines: Biology, Chemistry, Physics, Physical Science, or other Science areas.	4 Hours
Select a lecture and lab in General Physics or Physics with Calculus.		
PHY 2252 and PHY L252	General Physics I and Lab	4 Hours
PHY 2262 and PHY L252	Physics I with Calculus and Lab	4 Hours

AREA IV	
Any 1000-2000 level course with a primary focus in History.	3 Hours
Take any three 1000-2000 level courses from the following Social Science disciplines: Anthropology, Business, Criminal Justice, Economics, Education, Finance, Geography, History, Human Services, Hospitality, Sport, and Tourism Management, Leadership, Interdisciplinary Studies, Nutrition, Nursing, Political Science, Psychology, Religion, Social Work, Sociology, or other Social Science areas. When selecting general studies courses in AREA II and/or AREA IV, you must complete a six-hour sequence in Literature or History. The course sequence must be completed in one content area.	9 Hours

AREA V		
TROY 1101 or TROY 1105	The University Experience Learning Mindset Freshman Seminar	1 Hour 3 Hours
MTH 1126	Calculus II	4 Hours
CS 2220	Numerical Methods in Computing	3 Hours
CS 2250	Computer Science I	3 Hours

COMPUTER SCIENCE		
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 Oriented Programming I	3 Hours
CS 3365	Introduction to Computer Organization and Architecture	3 Hours
CS 3370	Nature of Programming Languages	3 Hours
CS 3372	Formal Languages and the Theory of Computation	3 Hours
CS 4420	Introduction to Database Systems	3 Hours
CS 4445	Data Communication and Networking	3 Hours
CS 4448	Operating Systems	3 Hours
STAT 2210	Introductory Statistics	3 Hours
MTH 2215	Applied Discrete Mathematics	3 Hours
Take two courses from the following:		
CS 3320	Business Systems Programming	3 Hours
CS 3331	Fundamentals of Artificial Intelligence	3 Hours
CS 4410	Introduction to Machine Learning	3 Hours
CS 4443	Web Application Development	3 Hours
CS 4447	Systems Analysis and Design	3 Hours
CS 4451	Computer Security	3 Hours
CS 4495	Special Topics in Computer Science	3 Hours

FREE ELECTIVES	
Take 19 semester hours of free electives. MTH 1112 and MTH 1114 are departmental recommendations, as they are prerequisites for MTH 1125.	19 Hours

My Degree Map serves as a guide to assist you with the proper sequence and selection of courses. It includes the required coursework and suggested sequence of courses for a particular degree program. It does not replace your program evaluation, which is the official document used to clear students for graduation. 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. Please review the current Academic Catalog for other requirements not covered in this document. A sequence in literature or history is required. When selecting coursework in Areas II or IV, please consider this requirement. In order to graduate, students must meet all requirements and file a Graduation Application through the Graduation Overview tab in Self-Service by the deadline posted on the Academic Calendar.

SPECIAL NOTE FOR UNIVERSITY HONORS GLOBAL SCHOLARS

All students in the UHGS program are required to complete 12 credits of Honors courses, which include HON 1101 (3), HON 2201 (3), HON 3380 (3), and HON CORE 4498 (3). With the approval of the Honors Program Director, the Associate Provost for Academic Affairs, and the relevant academic Dean, these courses may be substituted for certain University General Studies requirements. In general, HON 1101 replaces TROY 1101 in Area V, while HON 2201/HON 3380/HON 4498 replace 9sh of free electives. If the degree program doesn't require free electives, or if the free electives section has been fulfilled, HON 2201/HON 3380/HON 4498 may replace Area II or Area IV credit hours, or major/minor electives in some cases, if approved by the Department Chair and/or Dean of the discipline.