



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

YEAR ONE			
FIRST SEMESTER	HOURS	SECOND SEMESTER	HOURS
TROY 1101 OR TROY 1105	1	ENGLISH 1102	3
ENGLISH 1101	3	MATH 1126	4
MATH 1125	4	EEE 2221	3
EEE 2220	3	EEE L221	1
EEE L220	1	CS 2250	3
EEE 2201	3	AREA IV SOCIAL SCIENCE	3
TOTAL SEMESTER HOURS	15	TOTAL SEMESTER HOURS	17

YEAR TWO			
THIRD SEMESTER	HOURS	FOURTH SEMESTER	HOURS
AREA II FINE ARTS	3	EEE 3312	3
MATH 2227	4	EEE L312	1
EEE 3311	3	MATH 2215, 2230, 3311, OR PHY 3320 (DR)	3
EEE L311	1	EEE 3315	3
PHY 2262	3	EEE L315	1
PHY L262	1	PHY 2263	3
		PHY L263	1
TOTAL SEMESTER HOURS	15	TOTAL SEMESTER HOURS	15

YEAR THREE			
FIFTH SEMESTER	HOURS	SIXTH SEMESTER	HOURS
EEE 4420	3	EEE 4421	3
EEE L420	1	EEE L421	1
EEE 4444	3	AREA II HUMANITIES OR FINE ARTS	3
EEE L444	1	CHM 1143	3
CHM 1142	3	CHM L143	1
CHM L142	1	EEE 4445	3
CS 2220 OR PHY 3321 (DR)	3	EEE L445	1
TOTAL SEMESTER HOURS	15	TOTAL SEMESTER HOURS	15

YEAR FOUR			
SEVENTH SEMESTER	HOURS	EIGHTH SEMESTER	HOURS
EEE 4480	3	EEE 4450	3
EEE 3313	3	EEE L450	1
EEE L313	1	EEE 4481	3
AREA IV SOCIAL SCIENCE	3	AREA IV SOCIAL SCIENCE	3
AREA II HUMANITIES OR FINE ARTS	3	AREA II LITERATURE	3
STAT 2210	3	AREA IV HISTORY	3
FILE YOUR GRADUATION APPLICATION			
TOTAL SEMESTER HOURS	16	TOTAL SEMESTER HOURS	16

TOTAL PROGRAM HOURS: 124

AREA I		
ENG 1101	Composition and Modern English I	3 Hours
ENG 1102	Composition and Modern English II	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.		6 Hours
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.		

AREA III		
MTH 1125	Calculus I (Minimum grade of C required)	4 Hours
CHM 1142	General Chemistry I	3 Hours
CHM L142	General Chemistry I Lab	1 Hour
PHY 2262	Physics I With Calculus	3 Hours
PHY L252	Physics I Lab	1 Hour

AREA IV		
Any 1000-2000 level course with a primary focus in History.		3 Hours
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.		9 Hours
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.		

AREA V		
TROY 1101 or TROY 1105	The University Experience Learning Mindset Freshman Seminar	1 Hour 3 Hours
CS 2250	Computer Science I	3 Hours
CHM 1143	General Chemistry II	3 Hours
CHM L143	General Chemistry II Lab	1 Hour
MTH 1126	Calculus II	4 Hours
MTH 2227	Calculus III	4 Hours
PHY 2263	Physics II with Calculus	3 Hours
PHY L253	Physics II Lab	1 Hour

CORE COURSES		
STAT 2210	Introductory Statistics	3 Hours
EEE 2101	Introduction to Engineering	3 Hours
EEE 2220	DC Circuit Analysis	3 Hours
EEE L220	DC Circuit Analysis Lab	1 Hours
EEE 3315	Digital Electronics & Logic Circuits	3 Hours
EEE L315	Digital Electronics & Logic Circuits Lab	1 Hours
EEE 4480	Capstone Project I	3 Hours
EEE 4481	Capstone Project II	3 Hours
Choose one of the following three courses:		
MTH 2215	Applied Discrete Mathematics	3 Hours
MTH 2230	Applied Linear Algebra	3 Hours
MTH 3311	Differential Equations	3 Hours
PHY 3320	Mathematical Methods for Physicists (Requires course substitution form. DR – Departmental Recommended course.)	3 Hours
Choose one of the following two courses:		
CS 2220	Numerical Methods in Computing	3 Hours
PHY 3321	Scientific Computing (Requires course substitution form. DR – Departmental Recommended course.)	3 Hours

ELECTRICAL & ELECTRONICS ENGINEERING COURSES		
EEE 2221	AC Circuit Analysis	3 Hours
EEE L221	AC Circuit Analysis Lab	1 Hour
EEE 3311	Semiconductor Devices I	3 Hours
EEE L311	Semiconductor Devices I Lab	1 Hour
EEE 3312	Semiconductor Devices II	3 Hours
EEE L312	Semiconductor Devices II Lab	1 Hour
EEE 3313	Electronic Properties of Materials	3 Hours
EEE L313	Electronic Properties of Materials Lab	1 Hour
EEE 4420	Fundamentals of Embedded Systems	3 Hours
EEE L420	Fundamentals of Embedded Systems Lab	1 Hour
EEE 4421	Intelligent Robotics and Automation	3 Hours
EEE L421	Intelligent Robotics and Automation Lab	1 Hour
EEE 4444	Fundamentals of Optics	3 Hours
EEE L444	Fundamentals of Optics Lab	1 Hour
EEE 4445	Optoelectronics	3 Hours
EEE L445	Optoelectronics Lab	1 Hour
EEE 4450	Telecommunication Electronics	3 Hours
EEE L450	Telecommunication Electronics Lab	1 Hour

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.