

MY DEGREE MAP COLLEGE OF ARTS AND SCIENCES APPROVED ACADEMIC PLAN APPLIED COMPUTER SCIENCE MAJOR – PROGRAM YEAR 2014-2015

1ST YEAR	TERM 1		TERM 2		TERM 3		TERM 4		TERM 5			
	ENG 1101/03	3	AREA II, GRP 4 COURSE	3	ENG 1102/04	3	IS 2241	3	TROY 1101	1		
	MTH 2201	3	AREA IV, GRP 2 COURSE	3	BIO 1100/LAB	3/1	AREA IV, GRP 2 COURSE	3	SELECT TWO: ART 1133, MUS 1131, DRA 2200	2/2		
	TOTAL		6	TOTAL		6	TOTAL		6	TOTAL		5
	FALL SEMESTER				SPRING SEMESTER				SUMMER SEMESTER			
	TROY 1101	1	ART 1133 OR MUS 1131 OR DRA 2200	2	ENG 1102/04	3	ART 1133 OR MUS 1131 OR DRA 2200	2	SELECT COURSES THAT HAVE NOT BEEN COMPLETED FROM PREVIOUS TERMS OR SEMESTERS AS PREREQUISITE COURSES OR COURSES TO BE RETAKEN			
	ENG 1101/03	3			BIO 1100/LAB	3/1						
	MTH 2201	3	AREA IV, GRP 2 COURSE	3	AREA IV, GRP 2 COURSE	3						
	AREA II, GRP 4 COURSE	3			IS 2241	3						
	TOTAL				TOTAL				TOTAL			
TOTAL 15				TOTAL 15								
2ND YEAR	TERM 1		TERM 2		TERM 3		TERM 4		TERM 5			
	AREA II, GRP 3 LIT COURSE	3	MTH 2215	3	AREA IV, GRP 2 COURSE	3	MINOR COURSE	3	AREA IV, HIS COURSE	3		
	AREA III CONT, SCI/LAB	3/1	CS 2250	3	CS 2255	3	FREE ELECTIVE	3	COM 2241	3		
	TOTAL		7	TOTAL		6	TOTAL		6	TOTAL		6
	FALL SEMESTER				SPRING SEMESTER				SUMMER SEMESTER			
	AREA II, GRP 3 LIT COURSE	3	CS 2250	3	AREA IV, GRP 2 COURSE	3	MINOR COURSE	3	SELECT COURSES THAT HAVE NOT BEEN COMPLETED FROM PREVIOUS TERMS OR SEMESTERS AS PREREQUISITE COURSES OR COURSES TO BE RETAKEN			
	AREA III CONT, SCI/LAB	3/1	MTH 2215	3	COM 2241	3	FREE ELECTIVES	3				
	AREA IV, HIS COURSE	3			CS 2255	3						
	TOTAL		TOTAL		TOTAL		TOTAL					
	TOTAL 16				TOTAL 15							
3RD YEAR	TERM 1		TERM 2		TERM 3		TERM 4		TERM 5			
	CS 2265	3	MINOR COURSE	3	REQ MAJOR COURSE	3	MINOR COURSE	3	MINOR COURSE	3		
	REQ MAJOR COURSE	3	FREE ELECTIVES	3	REQ MAJOR COURSE	3	FREE ELECTIVES	3	FREE ELECTIVES	3		
	TOTAL		6	TOTAL		6	TOTAL		6	TOTAL		6
	FALL SEMESTER				SPRING SEMESTER				SUMMER SEMESTER			
	CS 2265	3	MINOR COURSE	3	REQ MAJ COURSE	3	FREE ELECTIVES	3	SELECT COURSES THAT HAVE NOT BEEN COMPLETED FROM PREVIOUS TERMS OR SEMESTERS AS PREREQUISITE COURSES OR COURSES TO BE RETAKEN			
	REQ MAJ COURSE	3	FREE ELECTIVES	3	REQ MAJ COURSE	3	FREE ELECTIVES	3				
	MINOR COURSE	3			MINOR COURSE	3						
	TOTAL		TOTAL		TOTAL		TOTAL					
	TOTAL 15				TOTAL 15							
4TH YEAR	TERM 1		TERM 2		TERM 3		TERM 4		TERM 5			
	REQ MAJ COURSE	3	APPROVED MAJ ELEC	3	REQ MAJ COURSE	3	APPROVED MAJ ELEC	3	FREE ELECTIVES	3		
	REQ MAJ COURSE	3	MINOR COURSE	3	APPROVED MAJ ELEC	3	MINOR COURSE	3	FREE ELECTIVES	2		
	TOTAL		6	TOTAL		6	TOTAL		6	TOTAL		5
	FALL SEMESTER				SPRING SEMESTER				SUMMER SEMESTER			
	REQ MAJ COURSE	3	MINOR COURSE	3	REQ MAJ COURSE	3	MINOR COURSE	3	SELECT COURSES THAT HAVE NOT BEEN COMPLETED FROM PREVIOUS TERMS OR SEMESTERS AS PREREQUISITE COURSES OR COURSES TO BE RETAKEN			
	REQ MAJ COURSE	3	FREE ELECTIVES	3	APPROVED MAJ ELEC	3	FREE ELECTIVES	2				
	APPROVED MAJ ELEC	3			APPROVED MAJ ELEC	3						
	TOTAL		TOTAL		TOTAL		TOTAL					
	TOTAL 15				TOTAL 14							
TOTAL PROGRAM 120												

**COLLEGE OF ARTS AND SCIENCES APPROVED ACADEMIC PLAN
APPLIED COMPUTER SCIENCE MAJOR – PROGRAM YEAR 2014-2015**

COMPLETE ALL 6 SUB-REQUIREMENTS

A. AREA I:

MINIMUM GRADE OF "C" REQUIRED

ENG-1101 COMP AND MODERN ENGLISH I 3 HOURS
ENG-1102 COMP AND MODERN ENGLISH II 3 HOURS

B. AREA II:

GROUP 1: TAKE COM 2241 FUNDAMENTALS OF SPEECH 3 HOURS

GROUP 2: SELECT TWO COURSES FROM ART 1133*, MUS 1131*
OR DRA 2200 4 HOURS

GROUP 3: TAKE THREE SEMESTER HOURS FROM THE FOLLOWING: 3 HOURS
ENG 2205*, ENG 2206*, ENG 2211, ENG 2212, ENG 2244, ENG 2245

GROUP 4: TAKE THREE SEMESTER HOURS FROM THE FOLLOWING: 3 HOURS
ASL 1141, CLA 2260*, ENG 2205*, ENG 2206*, ENG 2211, ENG 2212,
ENG 2244, ENG 2245, FRN 1101*, GER 1121*, GRK 1111*, IDS 2200,
LAT 1131*, PHI 2203, PHI 2204, ANT 2280* OR SPN 1141*

C. AREA III:

TAKE THE FOLLOWING COURSES:

BIO 1100/L100 GENERAL BIOLOGY W/LAB 3/1 HOURS
MTH 2201 BUSINESS CALCULUS ("C" OR BETTER) 3 HOURS

AREA III CONTINUED:

SELECT ONE COURSE WITH CORRESPONDING LAB: 3/1 HOURS
CHM 1142/L142, PHY 2252/L252, SCI 2233/L233, SCI 2234/L234

D. AREA IV:

GROUP 1: TAKE THREE SEMESTER HOURS FROM THE FOLLOWING: 3 HOURS
HIS 1101, HIS 1102, HIS 1111, HIS 1112, HIS 1122* OR HIS 1123*

GROUP 2: TAKE NINE SEMESTER HOURS FROM THE FOLLOWING: 9 HOURS
ANT 2200, ECO 2251*, ECO 2252*, GEO 2210*, HIS 1101, HIS 1102,
HIS 1111, HIS 1112, HIS 1122*, HIS 1123*, IDS 2200, LDR 1100,
POL 2260*, POL 2241, PSY 2200, PSY 2210, OR SOC 2275

E. AREA V:

TAKE THE FOLLOWING COURSES:

IS 2241 COMPUTER CONCEPTS & APPLICATIONS 3 HOURS
MTH 2215 APPLIED DISCRETE MATHEMATICS 3 HOURS
TROY 1101 UNIVERSITY ORIENTATION 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. 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 50% OF REQUIRED COURSEWORK MUST BE EARNED AT A SENIOR INSTITUTION.

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 SCIENCE OR CURRENT CATALOG FOR OTHER REQUIREMENTS NOT COVERED IN THIS DOCUMENT.

NOTES: A SEQUENCE IN LITERATURE OR HISTORY IS REQUIRED. WHEN SELECTING COURSEWORK IN AREAS II OR IV, PLEASE CONSIDER THIS REQUIREMENT. COURSEWORK MARKED WITH AN ASTERISK (*) ARE INTERNATIONAL COURSES. SIX HOURS OF INTERNATIONAL COURSEWORK IS REQUIRED. CONSIDER THIS REQUIREMENT WHEN SELECTING COURSEWORK IN AREAS II AND IV.



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APPLIED COMPUTER SCIENCE MAJOR

TAKE THE FOLLOWING COURSES:

2.0 GPA REQUIRED:

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

(9 HOURS)

TAKE 9 ADDITIONAL HOURS FROM THE FOLLOWING:

CS 3320	BUSINESS SYSTEMS PROGRAMMING	3 HOURS
CS 3332	SOFTWARE ENGINEERING I	3 HOURS
CS 3347	ADVANCED PROGRAMMING II	3 HOURS
CS 4449	APPLIED NETWORKING	3 HOURS
CS 4451	COMPUTER SECURITY	3 HOURS
CS 4495	SPECIAL TOPICS IN COMPUTER SCIENCE	3 HOURS

MINOR:

(18 HOURS)

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

FREE ELECTIVES:

(17 HOURS)

TAKE 17 SEMESTER HOURS OF FREE ELECTIVE CREDIT