

My Degree Map TROY UNIVERSITY

College of Education Recommended Academic Plan Chemistry Education - Program Year 2013-2014

1 st Semester/Term 1-2	Hours	2 nd Semester/Term 3-4	Hours
Troy 1101 University Orientation	1	ENG 1102/04 Comp/Mod English II	3
ENG 1101/03 Comp/Mod English I#	3	CHM 1143/lab Gen Chem II/lab	4
MTH 1125 Calculus I#	4	History Course from AREA IV	3
CHM 1142/lab Gen Chem I/lab	4	ART 1133* or MUS 1131* or DRA 2200	2
ART 1133* or MUS 1131* or DRA 2200	2	MTH 1126 Calculus II	4
AREA II, Group 4 course option**	3		
TOTAL	17	TOTAL	16
3 rd Semester/Term 1-2	Hours	4 th Semester/Term 3-4	Hours
AREA II, Group 3 literature course option	3	COM 2241 Fundamentals of Speech	3
BIO 1100 Principles of Bio and Lab	4	CHM 2242/lab Analytical Chemistry	4
CHM 3342/lab Organic Chem I/lab	4	CHM 3343/lab Organic Chem II/lab	4
AREA IV, Group 2 course option**	3	IS 2241 Computer Concepts/Applications	3
AREA V Physics course/lab	4	AREA V Physics course/lab	4
TOTAL	18	TOTAL	18
5 th Semester/Term 1-2	Hours	6 th Semester/Term 3-4	Hours
CHM 3381/lab Physical Chem I/lab	4	CHM 3382 Physical Chem II	3
EDU 3310 Professional Educator	3	CHM 4444 Adv Inorganic Chem	3
PSY 3303 Educational Psychology	3	AREA IV, Group 2 course option**	3
SPE 3340 Diverse Learners	3	SED 4400 Classroom Management	3
AREA IV, Group 2 course option**	3	EDU 3305 Microcomputers in Education	3
		SED 3346 Educational Assessment	3
TOTAL	16	TOTAL	18
7 th Semester/Term 1-2	Hours	8 th Semester/Term 3-4	Hours
CHM 4445/lab Instrumental Analysis/lab	4	SED 4454 Intern Seminar	3
Major elective option course/lab***	4	CHM 4474 Internship Chemistry Edu	9
CHM 4481 Methods/Mat Sec Teacher	3		
EDU 4471 Curriculum/Instruct Delivery	3		
RED 4484 Language/Literacy IV	3		
TOTAL	17	TOTAL	12
Minimum number of hours required for this major:			TOTAL 132 Hours

*Indicates an international scope class (6 hours required)

**A sequence is required in either literature or history. Make selections from AREA II and IV accordingly.

***CHM 3352 and lab are required for Alabama Teacher Certification.

Indicates courses which require approved placement scores

Courses in **BOLD** require a grade of C or above.

A **minimum** 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 of study.

A minimum GPA of 2.75 overall and in each major is required to graduate.

NOTE: Please consult the College of Education or current catalog for other requirements not covered in this document.

General Studies: Chemistry Education (55 Hours)

Complete all 6 subrequirements

A: AREA I:

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: *ENG 2205, *ENG 2206, ENG 2211, ENG 2212, ENG 2244, ENG 2245,	3 hours
Group 4: Take three semester hours from the following: *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	3 hours

C. AREA III:

Take the following courses:

MTH 1125 Calculus I	4 hours
CHM 1142/L General Chemistry with Lab	3/1 hours
BIO 1100/L Principles of Biology/Lab	3/1 hours

D. AREA IV:

Group 1: Take three hours from the following: HIS 1101, HIS 1102, HIS 1111, HIS 1112, *HIS 1122 or *HIS 1123	3 hours
Group 2: Take nine semester hours from the following: *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	9 hours

E. AREA V:

Take the following courses:

IS 2241	Computer Concepts & Applications	3 hours
TROY 1101	University Orientation	1 hour

F. AREA V Continued:

Take one of the following series:

PHY 2252/L252 and PHY 2253/L253 OR PHY 2262/L262 and PHY 2263/L263	8 hours
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Chemistry Education - Program Year 2013-2014 - (34 hours)

A. **Chemistry Major** - Take the following courses:

CHM 1143/L General Chemistry II/Lab	3/1 hours
CHM 2242/L Analytical Chemistry/Lab	3/1 hours
CHM 3342/L Organic Chemistry I/Lab	3/1 hours
CHM 3343/L Organic Chemistry II/Lab	3/1 hours
CHM 3381/L Physical Chemistry I/Lab	3/1 hours
CHM 3382 Physical Chemistry II	3 hours
CHM 4444 Advanced Inorganic Chemistry	3 hours
CHM 4445/L Instrumental Analysis/Lab	3/1 hours
MTH 1126 Calculus II	4 hours

B. **Take 3 hours of chemistry electives from the following:** 3 hours

CHM 3352/L352 (3/1), CHM L382 (1), CHM 4400 (3),
CHM 4403 (3), CHM L444 (1), CHM 4491/4492/4493/
4494 (1-3), or CHM 4499. **NOTE: CHM 3352/L352**
is required for AL teacher certification. **Minimum**
grade of 'C' required in all course work in the major.

Educatio Major – (42 hours)

Minimum grade of 'C' required in all course work in the major.

Take the following courses:

EDU 3305	Microcomputers in Education	3 hours
EDU 3310	The Professional Educator	3 hours
SED 4400	Classroom Management	3 hours
EDU 4471	Curriculum & Instruction Design	3 hours
PSY 3303	Educational Psychology	3 hours
RED 4484	Language & Literacy Learning IV	3 hours
SED 3346	Educational Assessment	3 hours
SED 4400	Classroom Management	3 hours
SPE 3340	Diverse Learners	3 hours
CHM 4481	Methods and Materials	3 hours
SED 4454	Internship Seminar	3 hours
CHM 4474	Internship	9 hours

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.