

**SUGGESTED PROGRAM OF STUDY**  
**Bachelor of Science - Major in Chemistry<sup>1</sup> Pre-Med Track**  
with AMTH 141 Placement      2011/12 bulletin

**First Year**

**Fall Semester**

ACHM 111	(General Chem. I)	(4)_____
AMTH 141	(Calc. 1)	(4)_____
AEGL 101	(Composition) <sup>2</sup>	(3)_____
ABIO 121	(Biology I)	(4)_____
AFCI 101	(Critical Inquiry)	(1)_____

16 credit hours

**Spring Semester**

ACHM 112	(General II)	(4)_____
AMTH 142	(Calc. II)	(4)_____
AEGL 102	(Comp. and Lit.) <sup>2</sup>	(3)_____
ABIO 122	(Biology II)	(4)_____

15 credit hours

**Second Year**

**Fall Semester**

ACHM 331	(Org Chem. I)	(3)_____
ACHM 331L	(Org. I Lab)	(1)_____
APHY 211	(Physics I)	(4)_____
Communicat.	(ACOM 201 or 241)	(3)_____
Cognate/Minor*	ABIO 315 or 360	(4)_____

15 credit hours

**Spring Semester**

ACHM 332	(Org Chem. II)	(3)_____
ACHM 332L	(Org. Lab II)	(1)_____
ACHM 310	(Research Meth.)	(1)_____
APHY 212	(Physics II) <sup>*4</sup>	(4)_____
Cognate*ABIO	302(Cell Molec. Biol.)	(4)_____
Amer. Gov't	(AHST 201 or 202 or APLS 201)	(3)_____

16 credit hours

**Third Year**

**Fall Semester**

ACHM 321	(Quant. Analysis)	(3)_____
ACHM 321 L	(Quant. Anal. Lab)	(1)_____
ACHM 541	(Phys. Chem I)	(3)_____
ACHM 541 L	(Phys Chem I Lab)	(1)_____
ABIO 541	(Biochem)	(3)_____
Second Language	1 <sup>5</sup>	(4)_____

15 credit hours

**Spring Semester**

ACHM 311	(Intro Inorg. Chem.)	(3)_____
ACHM 311L	(Intro Inorg. Chm Lab)	(1)_____
ACHM 542	(Phys. Chem II)	(3)_____
ACHM 542L	(Phys Chem. II Lab)	(1)_____
Second Language	2 <sup>5</sup>	(4)_____
Cognate/Minor*	ABIO 350 (Genetics)	(3)_____

15 credit hours

**Fourth Year**

**Fall Semester**

ACHM 511	(Adv. Inorg. Chem)	(3)_____
ACHM 511L	(Adv. Inorg. Ch. Lab)	(1)_____
ACHM 499	(Senior Res.) <sup>7</sup>	(2/3)_____
History of Civ.	(AHST 101 or 102)	(3)_____
Humanities or Social Science <sup>3</sup>		(3)_____
Humanities or Social Science <sup>3</sup>		(3)_____

15/16 credit hours

**Spring Semester**

ACHM 522	(Inst. Anal.)	(5)_____
ACHM 499	(Senior Res) <sup>7</sup>	(1/2)_____
Humanities or Social Science <sup>3</sup>		(3)_____
Humanities or Social Science <sup>3</sup>		(3)_____
Humanities or Social Science <sup>3</sup>		(3)_____

15/16 credit hours

•Students can change to a Biology Major at the end of the Second Year and still complete a B.S. in 4 years

- 1 - A grade of C or higher is required in all chemistry courses counting toward the degree. Students placing in Mathematics 108 or below will successfully complete these courses before enrolling in any chemistry course.
- 2 - Students must complete English 101/102 with a grade of C or better in order to fulfill general education requirements. Students must complete AEGL 102 with a grade of C or better before taking other English courses and for any course to count as Writing Intensive including ACHM 541L, 542L, and 511L
- 3 - At least three (3) credit hours of the degree must be in non-Western studies.
- 4 - Two (2) semesters of the same language are required.
- 5 - APHY 212 can be counted toward a cognate.
- 6 - Some scholarship programs including the SC LIFE scholarship require a minimum of 30 hours completed for each year in school. This elective ensures the student will have 90 hours after the 3<sup>rd</sup> year.
- 7 - Completion of a thesis and seminar on the research project are required for graduation.

\* The cognate requirement is completed with ABIO 315/360, ABIO 302, ABIO 350 and APHY 212.

\* One additional ABIO course 300 level or above completes a Biology minor

(July 2012 Revised)