

SUGGESTED PROGRAM OF STUDY

Bachelor of Science - Major in Chemistry¹ General Track

with MATH 111 Placement PHYS 201/202 2011/12/13/14/15/16 bulletins

First Year

Fall Semester

CHEM 111	(General Chem. I) ¹	(4)_____
MATH 111	(Pre-Calc. I)	(3)_____
ENGL 101	(Composition) ²	(3)_____
BIOL 121	(Biology I)	(4)_____
AFCI 101	(Critical Inquiry)	(1)_____

15 credit hours

Spring Semester

CHEM 112	(General Chem. II) ¹	(4)_____
MATH 112	(Pre-Calc. II)	(3)_____
ENGL 102	(Comp. and Lit.) ²	(3)_____
History of Civ.	(either HIST 101 or 102)	(3)_____
Humanities or Social Science ³		(3)_____

16 credit hours

Second Year

Fall Semester

CHEM 331	(Org Chem. I) ¹	(3)_____
CHEM 331L	(Org. I Lab) ¹	(1)_____
PHYS 201	(Gen. Physics I)	(4)_____
MATH 141	(Calc. I)	(4)_____
Amer. Gov't (HIST 201 or 202 or POLI 201)		(3)_____

15 credit hours

Spring Semester

CHEM 332	(Org Chem. II) ¹	(3)_____
CHEM 332L	(Org. Lab II) ¹	(1)_____
PHYS 202	(Gen. Physics II) ⁴	(4)_____
MATH 142	(Calc. II)	(4)_____
CHEM 310	(Research Meth.) ¹	(1)_____
Communications (COMM 201 or 241)		(3)_____

16 credit hours

Third Year

Fall Semester

CHEM 321	(Quant. Analysis) ¹	(3)_____
CHEM 321 L	(Quant. Anal. Lab) ¹	(1)_____
CHEM 541	(Phys. Chem I) ¹	(3)_____
CHEM 541 L	(Phys Chem I Lab) ¹	(1)_____
BIOL 541	(Biochem)	(3)_____
Second Language ¹⁵		(4)_____

15 credit hours

Spring Semester

CHEM 311	(Intro Inorg. Chem.) ¹	(3)_____
CHEM 311L	(Intro Inorg. Chm Lab)	(1)_____
CHEM 542	(Phys. Chem II) ¹	(3)_____
CHEM 542L	(Phys Chem. II Lab) ¹	(1)_____
Human. ³ /Soc. Science ³ or Cognate ⁶ /Minor ⁷		(3/4)_____
Second Language ²⁵		(4)_____

15/16 credit hours

Fourth Year

Fall Semester

CHEM 511	(Adv. Inorg. Chem) ¹	(3)_____
CHEM 511L	(Adv. Inorg. Ch. Lab)	(1)_____
CHEM 499	(Senior Res.) ^{1,8}	(2)_____
Human. ³ /Soc. Science ³ or Cognate ⁶ /Minor ⁷		(3/4)_____
Human. ³ /Soc. Science ³ or Cognate ⁶ /Minor ⁷		(3/4)_____
Human. ³ /Soc. Science ³ or Cognate ⁶ /Minor ⁷		(3/4)_____

15/16 credit hours

Spring Semester

CHEM 522	(Inst. Anal.) ¹	(5)_____
CHEM 499	(Senior Res) ^{1,8}	(1/2)_____
Human. ³ /Soc. Science ³ or Cognate ⁶ /Minor ⁷		(3/4)_____
Human. ³ /Soc. Science ³ or Cognate ⁶ /Minor ⁷		(3/4)_____
Human. ³ /Soc. Science ³ or Cognate ⁶ /Minor ⁷		(3/4)_____

15/17 credit hours

- 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 ENGL 102 with a grade of C or better before taking other English courses and for any course to count as Writing Intensive including CHEM 541L, 542L, and 511L
- 3 - At least three (3) credit hours of the degree must be in non-Western studies. See the bulletin for a complete list.
- 4 - PHYS 212 and BIOL 541 can be counted toward a cognate.
- 5 - Two (2) semesters of the same language are required.
- 6 - All graduates must complete either a Cognate or Minor. The cognate requirement is completed with a total of 12 credit hours earned in BIOL 514 plus any combination of accepted cognates (any 300+ course and selected 200 level courses). A partial list of the approved 200 level courses includes BIOL 244, 250, PHYS 212, MATH 241, 242, ENCP 200, 210, 260, and 290.
- 7 - The Biology Minor requirement is completed with BIOL 541 plus 12 hours of 300+ BIOL courses for a total of 15 hours. For example; BIOL 541 (3) and BIOL 315 (4), 350(4), and 360(4). Any Minor listed in the bulletin is accepted.
- 8 - Completion of a thesis and seminar on the research project are required for graduation.

SUGGESTED PROGRAM OF STUDY

Bachelor of Science - Major in Chemistry¹ General Track

with MATH 111 Placement APHY211/212 2011/12/13/14/15/16 bulletins

First Year

Fall Semester

CHEM 111	(General Chem. I) ¹	(4)_____
ENGL 101	(Composition) ²	(3)_____
MATH 111	(Pre-Calc. I)	(3)_____
MATH 112	(Pre-Calc. II)	(3)_____
Humanities or Social Science ³		(3)_____

16 credit hours

Spring Semester

CHEM 112	(General Chem. II) ¹	(4)_____
ENGL 102	(Comp. and Lit.) ²	(3)_____
MATH 141	(Calc. I)	(4)_____
BIOL 121	(Biology I)	(4)_____
AFCI 101	(Critical Inquiry)	(1)_____

16 credit hours

Second Year

Fall Semester

CHEM 331	(Org Chem. I) ¹	(3)_____
CHEM 331L	(Org. I Lab) ¹	(1)_____
PHYS 211	(Physics I)	(4)_____
MATH 142	(Calc. II)	(4)_____
History of Civ. (either HIST 101 or 102)		(3)_____

15 credit hours

Spring Semester

CHEM 332	(Org Chem. II) ¹	(3)_____
CHEM 332L	(Org. Lab II) ¹	(1)_____
PHYS 212	(Physics II) ⁴	(4)_____
Amer. Gov't (HIST 201 or 202 or POLI 201)		(3)_____
CHEM 310	(Research Meth.) ¹	(1)_____
Communications (COMM 201 or 241)		(3)_____

15 credit hours

Third Year

Fall Semester

CHEM 321	(Quant. Analysis) ¹	(3)_____
CHEM 321 L	(Quant. Anal. Lab) ¹	(1)_____
CHEM 541	(Phys. Chem I) ¹	(3)_____
CHEM 541 L	(Phys Chem I Lab) ¹	(1)_____
BIOL 541	(Biochem)	(3)_____
Second Language ¹⁵		(4)_____

15 credit hours

Spring Semester

CHEM 311	(Intro Inorg. Chem.) ¹	(3)_____
CHEM 311L	(Intro Inorg. Chm Lab)	(1)_____
CHEM 542	(Phys. Chem II) ¹	(3)_____
CHEM 542L	(Phys Chem. II Lab) ¹	(1)_____
Human. ³ /Soc. Science ³ or Cognate ⁶ /Minor ⁷		(3/4)_____
Second Language ²⁵		(4)_____

15/16 credit hours

Fourth Year

Fall Semester

CHEM 511	(Adv. Inorg. Chem) ¹	(3)_____
CHEM 511L	(Adv. Inorg. Ch. Lab)	(1)_____
CHEM 499	(Senior Res.) ^{1,8}	(2)_____
Human. ³ /Soc. Science ³ or Cognate ⁶ /Minor ⁷		(3/4)_____
Human. ³ /Soc. Science ³ or Cognate ⁶ /Minor ⁷		(3/4)_____
Human. ³ /Soc. Science ³ or Cognate ⁶ /Minor ⁷		(3/4)_____

15/16 credit hours

Spring Semester

CHEM 522	(Inst. Anal.) ¹	(5)_____
CHEM 499	(Senior Res) ^{1,8}	(1/2)_____
Human. ³ /Soc. Science ³ or Cognate ⁶ /Minor ⁷		(3/4)_____
Human. ³ /Soc. Science ³ or Cognate ⁶ /Minor ⁷		(3/4)_____
Human. ³ /Soc. Science ³ or Cognate ⁶ /Minor ⁷		(3/4)_____

15/17 credit hours

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(last updated May 2016)