Chemistry
Bachelor of Science Degree

I. Course Requirements for Major
A. Program Requirements 38 semester hours
   1. #CHE 141 General Chemistry I 4
   2. CHE 142 General Chemistry II 4
   3. CHE 241 Organic Chemistry I 4
   4. CHE 242 Organic Chemistry II 4
   5. CHE 341 Physical Chemistry I 3
   6. CHE 342 Physical Chemistry II 3
   7. CHE 350 Analytical Chemistry 4
   8. CHE 351 Introduction to Computational Chemistry 1
   9. CHE 395 Junior Seminar I 1
  10. CHE 396 Junior Seminar II 1
  11. CHE 441 Physical-Instrumental Analysis 4
  12. CHE 495 Senior Seminar I 1
  13. CHE 496 Senior Seminar II 1
  14. CHE ___ Approved Chemistry Elective 3
B. Cognate Requirements 22 semester hours
   1. #MAT 174 Data Analysis and Statistics 3
   2. MAT 181 Calculus with Analytic Geometry I 4
   3. MAT 182 Calculus with Analytic Geometry II 4
   4. PHY 161 Physics I (Calculus Based) 4
   5. PHY 162 Physics II (Calculus Based) 4
   6. TSC 101 Fundamentals of Speech Communication 3
C. Total for Major 60 semester hours

II. Liberal Arts 28 semester hours
   # May be double counted toward Major and Liberal Arts Requirements.

III. General Electives 32 semester hours

IV. Total for Degree 120 semester hours

V. Other Requirements
   1. Students majoring in Chemistry must maintain a 2.1 GPA in all required courses (excluding cognate requirements in the major).
   2. Chemistry majors must complete a 16 hour residency and 12 semester hours of Siena Heights chemistry courses at the 200-level or higher and the Junior and Senior seminar series (CHE 395/396/495/496).
   3. Students seeking teacher certification must take CHE 454 Biochemistry as a required chemistry elective.
   4. Students seeking secondary certification in teaching must also take NSC110 Earth Science.
   5. Students seeking secondary certification must also complete the appropriate science methods course: BIO 372 (Secondary Science Methods) from the Professional Education Sequence.
Minor in Chemistry

I. Course Requirements for Minor
A. Program Requirements 20 semester hours
   1. #CHE 141 General Chemistry I 4
   2. CHE 142 General Chemistry II 4
   3. CHE 241 Organic Chemistry I 4
   4. CHE 242 Organic Chemistry II 4
   5. CHE ___ Approved Elective 4

B. Total for Minor b 20 semester hours
   # May be double counted toward Minor and Liberal Arts Requirements.

II. Other Requirements
   1. Chemistry minors must complete 8 semester hours of Siena Heights chemistry courses at the 200-level or higher.
   2. Students minoring in Chemistry must earn a C/C- or better in each required course.
   3. Students seeking teacher certification must take CHE 454 Biochemistry as their required chemistry elective.
   4. Students seeking secondary certification in teaching must also take NSC110 Earth Science.

Chemistry

Associate of Science Degree

I. Course Requirements for Major
A. Program Requirements 20 semester hours
   1. #CHE 141 General Chemistry I 4
   2. CHE 142 General Chemistry II 4
   3. CHE 241 Organic Chemistry I 4
   4. CHE 242 Organic Chemistry II 4
   5. CHE ___ Approved Elective 4

B. Cognate Requirements 10-16 semester hours
   1. #MAT ____ Approved Electives 6-8
   2. PHY ____ Approved Electives 4-8

C. Total for Major 30-36 semester hours

II. Liberal Arts 13 semester hours
   # May be double counted toward Major and Liberal Arts Requirements.

III. General Electives 11-17 semester hours

IV. Total for Degree 60 semester hours

V. Other Requirements
   1. Students majoring in Chemistry must maintain a 2.1 GPA in all required courses (excluding cognate requirements) in the major.