Academic Planning Guide - Chemistry

North Park University

effective with 2015-2016 Catalog

Major Requirements

***Required Semester Hours*:** **BA: 38 semester hours**
BS: 54 semester hours

***Prerequisites and Supporting Courses*:**

BA: 4 semester hours

- [ ] MATH 1150: Pre-Calculus Mathematics (4) - *meets Analytical & Quantitative Reasoning Requirement*

BS: 16 semester hours

- [ ] MATH 1510: Calculus I (4) - *meets Analytical & Quantitative Reasoning Requirement*
- [ ] MATH 1520: Calculus II (4)

Select one of the following options:

option 1:

- [ ] PHYS 1110: College Physics I (4) (offered only during the summer term)
- [ ] PHYS 1120: College Physics II (4) (offered only during the summer term)

option 2:

- [ ] PHYS 1210: Introductory Physics I (4) (offered only during the academic year)
- [ ] PHYS 1220: Introductory Physics II (4) (offered only during the academic year)

***Required Core Courses*:** **BA: 22 semester hours**
BS: 30 semester hours

- [ ] CHEM 1150: General Chemistry I (4) - *meets Physical Science Requirement*
- [ ] CHEM 1160: General Chemistry II (4)
- [ ] CHEM 2310: Organic Chemistry I (4)
- [ ] CHEM 2320: Organic Chemistry II (4)
- [ ] CHEM 3250: Physical Chemistry: Thermodynamics and Kinetics (4) (required for BS only)
- [ ] CHEM 2410: Analytical Chemistry (4)
- [ ] CHEM 3010: Chemistry Ethics, Skill, and Professional Practices (2) - *meets Ethical Reasoning Requirement*
- [ ] CHEM 4020: Chemistry Seminar Series (0), must be taken 3 times pass/fail
- [ ] CHEM 3260: Physical Chemistry: Quantum Chemistry and Spectroscopy (4) (required for BS only)

Electives:

BA: 12 semester hours

- [ ] Chemistry courses numbered 2000 and above (4)
- [ ] Chemistry courses numbered 2000 and above (4)
- [ ] Chemistry courses numbered 3000 and above (4)

BS: 8 semester hours

- [ ] Chemistry courses numbered 2000 and above (4)
- [ ] Chemistry courses numbered 3000 and above (4)

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Core Curriculum

Starting with the framework of North Park's identity as a Christian, liberal arts institution, our Core Curriculum is intentionally multi-disciplinary and multi-year. It is set up as a progress through three areas: Foundation Courses, Explorations Courses, and Capstone Courses.

http://www.northpark.edu/Academics/Undergraduate-Studies/Core-Curriculum

Foundations

Preparing for more in-depth work in both the Core Curriculum and your major

- [ ] Cornerstone Seminar (4sh)
- [ ] Biblical Studies (4sh)
- [ ] Health and Well-Being (2sh)
- [ ] Analytical & Quantitative Reasoning (4sh)
  met by MATH 1150 (BA only) or MATH 1510 (BS only)
- [ ] Global Histories (4sh)
- [ ] Modern Languages (8sh)

Explorations

Knowledge in specific disciplines, with strong emphasis on how you can use them in the context of your own life

- [ ] Art and Aesthetics (2sh)
- [ ] Christian Life & Thought (4sh)
- [ ] Life Science (2sh/lab)
- [ ] Physical Science (2sh/lab)
  met by CHEM 1150
- [ ] Culture and Society (4sh)
- [ ] Ethical Reasoning (2sh)
  met by CHEM 3010

Intermediate Level Writing

Two courses in the context of your major that specifically address writing clearly and doing effective research

- [ ] Writing Intensive Course (4sh)
- [ ] Research Writing Course (4sh)
  met by CHEM 3250 (BS only)

Keystone

Interdisciplinary integration of skills and knowledge applied to contemporary social issues

- [ ] Keystone Seminar (4sh)

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