Morris Campus

Chemistry Minor

Division of Science & Mathematics - Adm

Division of Science and Mathematics

- Program Type: Undergraduate minor related to major
- Requirements for this program are current for Spring 2016
- Required credits in this minor: 24 to 28

The chemistry curriculum focuses on the structure of matter and the conditions required for material change. It prepares students for postgraduate work in a wide variety of fields, or for careers in industry or secondary teaching.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Minor Requirements

Courses may not be taken S-N except where noted. Up to 8 credits of coursework with a grade of D or D+ may be used to meet the minor requirements if offset by an equivalent number of credits of coursework with a grade of A or B. The GPA in the minor courses must be at least 2.00.

Required Courses

CHEM 1101 - General Chemistry I [SCI-L] (5.0 cr)
CHEM 1102 - General Chemistry II [SCI-L] (5.0 cr)
CHEM 2301 - Organic Chemistry I [SCI] (4.0 cr)
CHEM 2311 - Organic Chemistry Lab I (1.0 cr)

Elective Courses

Three elective courses are required. Students must take either CHEM 3101 or 3501. Two additional courses are also required. If CHEM 3101 is not taken, one of the two courses must include lab or have an additional concurrent lab registration.

If CHEM 3101 is taken:

CHEM 3101 - Analytical Chemistry [SCI-L] (4.0 cr)
Take 2 or more course(s) from the following:
- BIOL 4211 - Biochemistry (4.0 cr)
- CHEM 3301 *{Inactive}*[SCI] (4.0 cr)
- CHEM 3401 *{Inactive}*[SCI] (4.0 cr)
- CHEM 3501 - Physical Chemistry: Thermodynamics [SCI] (4.0 cr)
- CHEM 3502 - Physical Chemistry: Quantum Mechanics [SCI] (4.0 cr)
- CHEM 4111 - Instrumental Analysis (5.0 cr)
- CHEM 4352 - Synthesis (4.0 cr)
- CHEM 4551 - Theoretical Chemistry (4.0 cr)
- CHEM 4552 - Molecular Spectroscopy (3.0 cr)
- CHEM 4701 - Inorganic Chemistry (4.0 cr)
- CHEM 4751 - Advanced Inorganic Chemistry (2.0 cr)
- CHEM 2302 - Organic Chemistry II [SCI] (4.0 cr)
  or CHEM 2304 - Organic Chemistry II with a Biological Emphasis [SCI] (4.0 cr)
- CHEM 4351 *{Inactive}*(2.0 cr)
  or CHEM 4354 *{Inactive}*(4.0 cr)

or **If CHEM 3101 is not taken:**

CHEM 3501 - Physical Chemistry: Thermodynamics [SCI] (4.0 cr)
Chose one course and lab combination from the following pairs:
Take 2 or more course(s) from the following:
- CHEM 3502 - Physical Chemistry: Quantum Mechanics [SCI] (4.0 cr)
  CHEM 3511 - Physical Chemistry Lab (1.0 cr)
- CHEM 4701 - Inorganic Chemistry (4.0 cr)
  CHEM 4711 - Inorganic Chemistry Lab (1.0 cr)
- BIOL 4211 - Biochemistry (4.0 cr)
  BIOL 4611 - Biochemistry Lab (1.0 cr)
- CHEM 3401 *{Inactive}*[SCI] (4.0 cr)
  CHEM 3411 - Polymer Chemistry Lab (1.0 cr)

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Take 1 or more course(s) from the following:

- BIOL 4211 - Biochemistry (4.0 cr)
- CHEM 2302 - Organic Chemistry II [SCI] (4.0 cr)
- CHEM 2304 - Organic Chemistry II with a Biological Emphasis [SCI] (4.0 cr)
- CHEM 3301 *{Inactive}*[SCI] (4.0 cr)
- CHEM 3401 *{Inactive}*[SCI] (4.0 cr)
- CHEM 3502 - Physical Chemistry: Quantum Mechanics [SCI] (4.0 cr)
- CHEM 4351 *{Inactive}*(2.0 cr)
- CHEM 4352 - Synthesis (4.0 cr)
- CHEM 4354 *{Inactive}*(4.0 cr)
- CHEM 4551 - Theoretical Chemistry (4.0 cr)
- CHEM 4552 - Molecular Spectroscopy (3.0 cr)
- CHEM 4701 - Inorganic Chemistry (4.0 cr)
- CHEM 4751 - Advanced Inorganic Chemistry (2.0 cr)

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