

9-26-2006

Chemistry Minor Program and Curriculum Approval 09/26/2006

Curriculum Committee

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Program & Curriculum Approval

Executive Summary

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Program Title: Chemistry Minor
Approval Status: Proposal Not Submitted

Program Last Saved: Sep 26, 2006 11:17:23 AM

By: Carol Ford

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General Information

Campus:	University of Minnesota, Morris	<no change>
Career:	Undergraduate	<no change>
Program type:	Minor Related to a Major	<no change>
Program title (short):	Chemistry	<no change>
Program title (long):	Chemistry Minor	<no change>
Program short description:	Chem	<no change>
Additional terms:	· · This program does not need any summer terms.	<no change>
Stakeholder college(s):	· UMM-Science & Math, Div of	<no change>
Degree-granting college(s):	· UMM-Science & Math, Div of	<no change>
Approver college(s):	· UMM-Science & Math, Div of	<no change>
Administrative college(s):	· UMM-Science & Math, Div of	<no change>
Budgetary college(s):	· 'UMM-Science & Math, Div of'=100	<no change>
Acad plan code(s):	· 'UMM-Science & Math, Div of'=0168MIN27	<no change>
Department(s):	· Division of Science & Mathematics - Adm	<no change>
First term admitting students:	Fall 1960	<no change>
Effective date:	Summer 2006	Fall 2007
Degree:		<no change>
Catalog description:	Coursework in chemistry spans the four traditional areas of analytical, inorganic, organic, and physical chemistry.	Objectives—The chemistry curriculum focuses on the structure of matter and the conditions required for material change. It is designed to prepare students for post-graduate work in a wide variety of fields, or for a career in industry or in secondary teaching.
RIASEC codes:		<no change>
Field of study:	Math, Engineering, and Science	<no change>
Program contact(s):	U of M internet ID: fordcj Name: Carol Ford E-mail address: fordcj@umn.edu Telephone number: 320/589-6300	<no change>

Campus mailing address:

UMM Div of Science and Math, RM 2550 Sci,
M242A, 600 E 4th St, Morris, MN 56267

Narrative Materials

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Admission Requirements

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Program Requirements

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Minor length in credits:	23 to 26 credits	<no change>
Major length in credits:	-2147483648 credits	<no change>
Number of semesters of a second language that are required:	0	<no change>
Specific language(s) required:	No Second Language	<no change>
Other requirements:	Required courses may not be taken S-N except where noted. Up to 8 credits of coursework with a grade of D may be used to meet the minor requirements if offset by an equivalent number of credits of A or B.	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 A or B. The GPA in these courses must be at least 2.00.
Required course(s):	<p>Required Courses CHEM 1101 - General Chemistry I, SCI-L (4.0 cr) CHEM 1102 - General Chemistry II, SCI-L (4.0 cr) CHEM 2301 - Organic Chemistry I, SCI (4.0 cr) CHEM 2311 - Organic Chemistry Lab I (1.0 cr)</p> <p>Elective Courses <i>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 additional courses must include lab or have a concurrent lab registration.</i> If Chem 3101 is taken: CHEM 3101 - Analytical Chemistry, SCI-L (4.0 cr) Take 2 or more course(s) totaling 6 or more credit(s) from the following: • CHEM 2302 - Organic Chemistry II, SCI (4.0 cr) • CHEM 3111 - Instrumental Analysis, SCI-L (4.0 cr) • CHEM 3501 - Physical Chemistry I, SCI (4.0 cr) • CHEM 3502 - Physical Chemistry II, SCI (4.0 cr) • CHEM 3701 - Inorganic Chemistry, SCI</p>	<p><no change></p> <p>Elective Courses <i>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.</i> If Chem 3101 is taken: CHEM 3101 - Analytical Chemistry, SCI-L (4.0 cr) Take 2 or more course(s) totaling 6 or more credit(s) from the following: • CHEM 2302 - Organic Chemistry II, SCI (4.0 cr) • CHEM 3111 - Instrumental Analysis, SCI-L (4.0 cr) • CHEM 3501 - Physical Chemistry I, SCI (4.0 cr) • CHEM 3502 - Physical Chemistry II, SCI (4.0 cr) • CHEM 3701 - Inorganic Chemistry, SCI</p>

(3.0 cr)
 • [CHEM 3801](#) - History of Chemistry, SCI
 (3.0 cr)
 • [CHEM 3811](#) - Macromolecules, SCI (3.0 cr)
 • [CHEM 4351](#) - Bioorganic Chemistry, SCI
 (3.0 cr)
 • [CHEM 4352](#) - Synthesis, SCI (3.0 cr)
 • [CHEM 4551](#) - Theoretical Chemistry, SCI
 (3.0 cr)
 • [CHEM 4552](#) - Molecular Spectroscopy, SCI (3.0 cr)
 • [CHEM 4751](#) - Advanced Inorganic Chemistry, SCI (3.0 cr)
 • [BIOL 4211](#) - Biochemistry, SCI (4.0 cr)
 or **If Chem 3101 is not taken:**
 • [CHEM 3501](#) - Physical Chemistry I, SCI (4.0 cr)
Take 2 or more course(s) from the following:
 • *Take all of the following in the same term:*
[CHEM 2302](#) - Organic Chemistry II, SCI (4.0 cr)
[CHEM 2312](#) - Organic Chemistry Lab II (1.0 cr)
 • *Take all of the following in the same term:*
[CHEM 3502](#) - Physical Chemistry II, SCI (4.0 cr)
[CHEM 3511](#) - Physical Chemistry Lab (1.0 cr)
 • *Take all of the following in the same term:*
[CHEM 3701](#) - Inorganic Chemistry, SCI (3.0 cr)
[CHEM 3711](#) - Inorganic Chemistry Lab (1.0 cr)
 • *Take all of the following in the same term:*
[BIOL 4211](#) - Biochemistry, SCI (4.0 cr)
[BIOL 4611](#) - Biochemistry Lab (1.0 cr)
Take 1 or more course(s) from the following:
 • [CHEM 2302](#) - Organic Chemistry II, SCI (4.0 cr)
 • [CHEM 3502](#) - Physical Chemistry II, SCI (4.0 cr)
 • [CHEM 3701](#) - Inorganic Chemistry, SCI (3.0 cr)
 • [CHEM 3801](#) - History of Chemistry, SCI (3.0 cr)
 • [CHEM 3811](#) - Macromolecules, SCI (3.0 cr)
 • [CHEM 4351](#) - Bioorganic Chemistry, SCI (3.0 cr)
 • [CHEM 4352](#) - Synthesis, SCI (3.0 cr)
 • [CHEM 4551](#) - Theoretical Chemistry, SCI (3.0 cr)
 • [CHEM 4552](#) - Molecular Spectroscopy, SCI (3.0 cr)
 • [CHEM 4751](#) - Advanced Inorganic Chemistry, SCI (3.0 cr)
 • [BIOL 4211](#) - Biochemistry, SCI (4.0 cr)

(3.0 cr)
 • [CHEM 3801](#) - History of Chemistry, SCI
 (3.0 cr)
 • [CHEM 3811](#) - Macromolecules, SCI (3.0 cr)
 • [CHEM 4351](#) - Bioorganic Chemistry, SCI
 (3.0 cr)
 • [CHEM 4352](#) - Synthesis, SCI (3.0 cr)
 • [CHEM 4551](#) - Theoretical Chemistry, SCI
 (3.0 cr)
 • [CHEM 4552](#) - Molecular Spectroscopy, SCI (3.0 cr)
 • [CHEM 4751](#) - Advanced Inorganic Chemistry, SCI (3.0 cr)
 • [BIOL 4211](#) - Biochemistry, SCI (4.0 cr)
 or **If Chem 3101 is not taken:**
 • [CHEM 3501](#) - Physical Chemistry I, SCI (4.0 cr)
Chose one course and lab combination from the following pairs:
Take 2 or more course(s) from the following:
 • *Take all of the following in the same term:*
[CHEM 2302](#) - Organic Chemistry II, SCI (4.0 cr)
[CHEM 2312](#) - Organic Chemistry Lab II (1.0 cr)
 • *Take all of the following in the same term:*
[CHEM 3502](#) - Physical Chemistry II, SCI (4.0 cr)
[CHEM 3511](#) - Physical Chemistry Lab (1.0 cr)
 • *Take all of the following in the same term:*
[CHEM 3701](#) - Inorganic Chemistry, SCI (3.0 cr)
[CHEM 3711](#) - Inorganic Chemistry Lab (1.0 cr)
 • *Take all of the following in the same term:*
[BIOL 4211](#) - Biochemistry, SCI (4.0 cr)
[BIOL 4611](#) - Biochemistry Lab (1.0 cr)
Take 1 or more course(s) from the following:
 • [CHEM 2302](#) - Organic Chemistry II, SCI (4.0 cr)
 • [CHEM 3502](#) - Physical Chemistry II, SCI (4.0 cr)
 • [CHEM 3701](#) - Inorganic Chemistry, SCI (3.0 cr)
 • [CHEM 3801](#) - History of Chemistry, SCI (3.0 cr)
 • [CHEM 3811](#) - Macromolecules, SCI (3.0 cr)
 • [CHEM 4351](#) - Bioorganic Chemistry, SCI (3.0 cr)
 • [CHEM 4352](#) - Synthesis, SCI (3.0 cr)
 • [CHEM 4551](#) - Theoretical Chemistry, SCI (3.0 cr)
 • [CHEM 4552](#) - Molecular Spectroscopy, SCI (3.0 cr)
 • [CHEM 4751](#) - Advanced Inorganic Chemistry, SCI (3.0 cr)
 • [BIOL 4211](#) - Biochemistry, SCI (4.0 cr)

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Sub-plans

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