Major in Natural Sciences, Chemistry Education Concentration

Requirements
Effective Fall 2015

View Major Completion Map (http://wsnet.colostate.edu/CWIS608/Home/MajorCompletionMap)

Freshman

<table>
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<tr>
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<td>CHEM 111</td>
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<td>CO 150</td>
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<td>LIFE 103</td>
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Select one group from the following:

Group A:
- MATH 155 Calculus for Biological Scientists I (GT-MA1) 1B
- MATH 255 Calculus for Biological Scientists II (GT-MA1)

Group B:
- MATH 160 Calculus for Physical Scientists I (GT-MA1)
- MATH 161 Calculus for Physical Scientists II (GT-MA1)

Science Elective

Total Credits: 31

Sophomore

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<td>CHEM 261</td>
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Select one group from the following:

Group A:
- CHEM 341 Modern Organic Chemistry I
- CHEM 343 Modern Organic Chemistry II
- CHEM 344 Modern Organic Chemistry Laboratory

Group B:
- CHEM 345 Organic Chemistry I
- CHEM 346 Organic Chemistry II

Select one group from the following:

Group A:
- PH 121 General Physics I (GT-SC1) 3A
- PH 122 General Physics II 3A

Group B:

Total Credits: 32

Junior

Select one group from the following:

Group A:
- AA 100 Introduction to Astronomy (GT-SC2) 3A
- AA 101 Astronomy Laboratory (GT-SC1) 3A

Group B:
- GEOL 120 Exploring Earth: Physical Geology (GT-SC2) 3A
- GEOL 121 Introductory Geology Laboratory (GT-SC1) 3A

- CHEM 334 Quantitative Analysis Laboratory 1
- CHEM 335 Introduction to Analytical Chemistry 3
- CHEM 473 Foundations of Physical Chemistry 4
- EDUC 275 Schooling in the United States (GT-SS3) 3
- EDUC 331 Educational Technology and Assessment 2
- EDUC 340 Literacy and the Learner 3
- EDUC 350 Instruction I-Individualization/Management 3
- EDUC 386 Practicum-Instruction I 1
- Science Elective 3
- Global and Cultural Awareness 3E 3
- Historical Perspectives 3D 3

Total Credits: 38

Senior

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Select course(s) in consultation with advisor.

Total Credits: 28

Program Total Credits: 121