Bachelor of Science (BS)  
Degree Code 214*  
Concentration Code 214F

Program of Study for Chemistry Majors

Student Name: __________________________________________                                                    Date________________

I. GENERAL EDUCATION CURRICULUM ............................................................................................................. 44
CHE 1101, 1110, 1102, and 1120 fulfills the Science Inquiry Perspective. MAT 1110 fulfills Quantitative Literacy.

II. MAJOR REQUIREMENTS (Not including 12 s.h. already counted in I, above) ................................................. 62-64
2.0 major GPA is required for graduation. Major GPA calculation will include all courses taken in the major department, plus any other courses under II. Minimum of 18 semester hours of courses taken to fulfill major requirements must be courses offered by Appalachian.

A. Chemistry (32 semester hours)

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<tr>
<th>Course</th>
<th>Hours</th>
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<tbody>
<tr>
<td>CHE 1101</td>
<td>(3)</td>
<td>Introductory Chemistry I (Co: CHE 1110)</td>
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<tr>
<td>CHE 1110</td>
<td>(1)</td>
<td>Introductory Chemistry I Lab (Co: CHE 1101)</td>
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<tr>
<td>CHE 1102</td>
<td>(3)</td>
<td>Introductory Chemistry II (Pre: CHE 1101/1110; Co: 1120)</td>
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<td>CHE 1120</td>
<td>(1)</td>
<td>Introductory Chemistry II Lab (Co: CHE 1102)</td>
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Choose one 4 hour organic chemistry sequence:

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<th>Course</th>
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<tbody>
<tr>
<td>CHE 2101</td>
<td>(3)</td>
<td>Fundamentals of Organic Chemistry (Pre: CHE 1102/1120; Co: CHE 2102)</td>
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<td>CHE 2102</td>
<td>(1)</td>
<td>Fundamentals of Organic Chemistry Lab (Co: CHE 2101)</td>
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OR

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<th>Course</th>
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<tr>
<td>CHE 2201</td>
<td>(3)</td>
<td>Organic Chemistry I (Pre: CHE 1102/1120; Co: CHE 2203)</td>
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<td>CHE 2203</td>
<td>(1)</td>
<td>Organic Chemistry I Lab (Pre: CHE 1102/1120; Co: CHE 2201)</td>
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<tr>
<td>CHE 2210</td>
<td>(3)</td>
<td>Quantitative Analysis (Pre: CHE 1102/1120; Co: CHE 2211)</td>
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<tr>
<td>CHE 2211</td>
<td>(1)</td>
<td>Quantitative Analysis Lab (Co : CHE 2210)</td>
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<td>CHE 3000</td>
<td>(1)</td>
<td>Introduction to Chemical Research (Pre: CHE 2101 or 2202; CHE 2210)</td>
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<tr>
<td>CHE 3301</td>
<td>(3)</td>
<td>Physical Chemistry I (Pre: CHE 2210/2211; MAT 1120; PHY 1151)</td>
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<tr>
<td>CHE 3303</td>
<td>(1)</td>
<td>Physical Chemistry I Laboratory [WID] (Pre: ENG 2001; Pre/Co: CHE 3301)</td>
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<tr>
<td>CHE 3404</td>
<td>(3)</td>
<td>Inorganic Chemistry (Pre: CHE 3301)</td>
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<tr>
<td>CHE 4000</td>
<td>(1)</td>
<td>Chemistry Seminar [CAP] (Pre: CHE 3000, 3303)</td>
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Plus an additional 7 semester hours of chemistry courses: __________________________________________

B. Physics (10 semester hours)

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<tbody>
<tr>
<td>PHY 1150</td>
<td>(5)</td>
<td>Analytical Physics I (Pre: MAT 1110)</td>
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<tr>
<td>PHY 1151</td>
<td>(5)</td>
<td>Analytical Physics II (Pre: MAT 1120)</td>
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C. Mathematics (8 semester hours)

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<tr>
<td>MAT 1110</td>
<td>(4)</td>
<td>Calculus with Analytic Geometry I (Pre: MAT 1025 w/min grade of C-)</td>
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<tr>
<td>MAT 1120</td>
<td>(4)</td>
<td>Calculus with Analytic Geometry II (Pre: MAT 1110 w/min grade of C-)</td>
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D. Other Science (6-8 semester hours) An additional 6-8 semester hours selected from astronomy, biology, geology, or physics. GLY 2301 may be used in General Education Perspectives.

(Physics courses at the 1000 level and PHY 3350 are not accepted)

E. Individually Designed Concentration (18 semester hours)

A concentration to prepare the chemistry major to pursue other career opportunities may be developed in consultation with the chairperson of the Department of Chemistry and must be individually approved.

Course       | Hours | Course          | Hours | Course       | Hours |
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III. MINOR (optional)

Student Signature: __________________________________________
Advisor Signature: __________________________________________
Chairperson Signature: _____________________________________
Date: _____________     Date Sent to Dean’s Office: __________

IV. ELECTIVES (taken to total 122 hours for the degree).................................................................................. 14-16
2 semester hours of free electives must be outside the major discipline.

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