CHEM&121 - Intro To Chemistry

Document Type: Master Course Outline
Proposal Type: Revision
Requester(s): Emily C Sprafka Coleman  Jake Ruel Ashcraft  Jc Clapp
College: South
Origination Approved: 10/17/2016 - 3:31 PM

BASIC INFORMATION

Requester(s): Emily C Sprafka Coleman
                      Jake Ruel Ashcraft
                      Jc Clapp

College: South Seattle College
Division/Dept: Academic Programs
Dean: Jc Clapp
Peer Reviewer(s): Jake Ruel Ashcraft
                      Marie E Villarba

COURSE INFORMATION

Proposed Course Number:
Prefix: CHEM&  Number: 121
☐ Request a new Prefix
☑ This will be a common course

Full Title: Intro To Chemistry
Abbreviated Title: Intro To Chemistry

Catalog Course Description:
Introduction to the qualitative and quantitative principles of inorganic chemistry including bonding, stoichiometry, gas laws, and acid/base topics for non-science majors and students enrolled in allied health science programs. Lab course.

Course Length: 11 Weeks ☐ Request an Exception

Topical Outline:
- The Scientific Method
- Measurements and the metric system
- Dimensional analysis and problem-solving
- Matter and energy
- Atomic theory
- Chemical bonding and intermolecular forces
- Chemical nomenclature
- Chemical reactions
- Mole concept and stoichiometry
- Solutions and concentration
- Acid-base reactions and pH
- Kinetics and equilibrium
- Nuclear chemistry

**COURSE CODING**

<table>
<thead>
<tr>
<th>Funding Source:</th>
<th>1..................State</th>
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<tbody>
<tr>
<td>Institutional Intent:</td>
<td>11..................Academic Transfer</td>
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Select the Distribution Area of the AA Degree that this course will satisfy, if applicable:

**Distribution Areas**
- Natural World

**Will this course transfer to a 4-year university?** Yes

Please Describe:
- The course transfers to the University of Washington as CHEM 120

**Is this course designed for Limited English Proficiency?** No

**Is this course designed for Academic Disadvantaged?** No

**Does this course have a Workplace Training component?** No

**CIP Code:** 40.0501

**Credits:**
- Will this course be offered as Variable Credit? No

**List Course Contact Hours**

<table>
<thead>
<tr>
<th>Activity</th>
<th>Contact Hours</th>
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<tbody>
<tr>
<td>Lecture (11 Contact Hours : 1 Credit)</td>
<td>33</td>
</tr>
<tr>
<td>Lab (22 Contact Hours : 1 Credit)</td>
<td>44</td>
</tr>
<tr>
<td>Clinical Work (33 Contact Hours : 1 Credit)</td>
<td>0</td>
</tr>
<tr>
<td>Other (55 Contact Hours : 1 Credit)</td>
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Total Contact Hours: 77
Total Credits: 5
This is to certify that the above criteria have all been met and all statements are accurate to the best of my knowledge.

Faculty involved in originating this program:

<table>
<thead>
<tr>
<th>Name</th>
<th>Signature</th>
<th>Date</th>
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<tbody>
<tr>
<td>Emily C Sprafka Coleman</td>
<td>Emily C Sprafka Coleman</td>
<td>7/6/2016</td>
</tr>
<tr>
<td>Jake Ruel Ashcraft</td>
<td>Jake Ruel Ashcraft</td>
<td>7/6/2016</td>
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<tr>
<td>Jc Clapp</td>
<td>Jc Clapp</td>
<td>7/6/2016</td>
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Dean:

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<td>Jc Clapp</td>
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Results of SSCC Curriculum Coordinating Council Findings

Participating Faculty Response and Remarks

☐ Recommended for approval
☐ Not recommended for approval

Chairman, Curriculum Coordinating Council:

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<thead>
<tr>
<th>Name</th>
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<tr>
<td>Mary Elizabeth Beans</td>
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Vice President for Instruction:

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<tr>
<td>Peter H Lortz</td>
<td>Peter H Lortz</td>
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