After the Foundational Studies Program has approved a course, departments will continue through the regular department and college procedures. The approved course should be submitted to the University Curriculum Committee by October 1, 2011.

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Instructions:

1. Complete one form per course.
2. Attach this Foundational Studies Course Application Form to the back of the University Curriculum Committee “Request for Curriculum Action” form. Both forms should be submitted to the Foundational Studies Program Office by August 19, 2011.

Part I. Course Information

Course Number and Title: CHEM 101/CHEM 101L: Essentials of Chemistry I

Type of Foundational Studies Course – (Choose One):
[ ] DLS (Disciplinary Lens – Social Science)
[ ] DLL (Disciplinary Lens – Literature and Humanities)
[ ] DLV (Disciplinary Lens – Visual and Performing Arts)
[ ] DLM (Disciplinary Lens – Mathematics)
[x] DLN (Disciplinary Lens – Natural, Physical, and Applied Sciences)
   Includes Lab: [x] Yes [ ] No
[ ] CID (Communication in the Discipline)
[ ] FF (Finishing Foundations)

Delivery Format(s) – (Check all that apply):
[x] Face to Face
[ ] Fully Online
[ ] Hybrid
[ ] Concurrent Enrollment
[ ] Other (briefly describe):
Part II. Syllabus Statement

Boise State's Foundational Studies Program provides undergraduates with a broad-based education that spans the entire university experience. CHEM 101/101L satisfies 3 credits of the Foundational Studies Program's Disciplinary Lens – Natural, Physical and Applied Science requirements. It supports the following University Learning Outcomes, along with a variety of other course-specific goals.

ULO 8. Apply knowledge and methods characteristic of scientific inquiry to think critically about and solve theoretical and practical problems about physical structures and processes.

CHEM 101/101L: Essentials of Chemistry I is

After successful completion of this course, you will be able to:

Part III. Design for Accessibility

In the space below, briefly describe plans for providing access to course materials and activities (or equivalent alternatives) to all students in adherence with the Americans with Disabilities Act. Although these plans may vary from instructor to instructor, the descriptions provided below should be representative of intended departmental and instructor practices. (See example statements appended to this form.)

CHEM 101/101L: Essentials of Chemistry: All posted pdf reading assignments will be checked for readability by a screen reader. (The department will ask Academic Technologies to help with a review of these electronic materials.) Whenever available, videos chosen for use in the course will be those that have been close-captioned by the content producer to provide access to students with hearing impairment. PowerPoint presentations used in class lectures, insofar as they contain graphs or other visual representations of content, will be verbally described to students on an as-needed basis. We will add textual descriptions accessible by screen readers to images used on the course web site. Extra time on tests, oral examinations, or other accommodations will be provided to students as needed per the policies of the Disability Resource Center.

Part IV. Evidence of Quality Course Design

Please use the table below (column headings for this table should not be changed) to provide evidence that the course has been carefully designed and is clearly aligned with Foundational Studies Program desired ULOs. All sections of the course should share similar student learning outcomes. Teaching and Learning Activities and Assessment Methods may vary from instructor to instructor. Please use the table to report representative strategies that may be used. Assessment activities used for reporting to the Foundational Studies Program should be consistent across different sections of the course.

Please see below.
<table>
<thead>
<tr>
<th>Foundation ULO 8 Criteria and Notions of Exemplary Work</th>
<th>Course Learning Outcomes: By the end of this course, each student should be able to…</th>
<th>Assessment Method: Evidence of Student Learning</th>
<th>Planned Teaching &amp; Learning Activities / Pedagogy</th>
</tr>
</thead>
<tbody>
<tr>
<td>ULO 8.1: Process of Inquiry and Analysis in Response to Evidence or Observation</td>
<td>Analyze data or models for trends and relationships - use data or models to make meaning, draw conclusions, or draft hypotheses and make predictions</td>
<td>Exams</td>
<td>Problem sets</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Homework</td>
<td>Homework</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Class Discussion</td>
</tr>
<tr>
<td>ULO 8.2: Understanding of knowledge and inquiry</td>
<td>* Articulate an understanding of the particulate nature of matter (&quot;thinking&quot; on the level of atoms and molecules)</td>
<td>Exams</td>
<td>Problem sets</td>
</tr>
<tr>
<td></td>
<td>Relate the basic structure of atoms and molecules to their chemical properties and behavior</td>
<td>Homework</td>
<td>Homework</td>
</tr>
<tr>
<td></td>
<td>Solve basic chemical problems related to the behavior and properties of atoms and molecules by drawing upon your conceptual understanding of chemistry and your knowledge of quantitative relationships.</td>
<td></td>
<td>Class discussion</td>
</tr>
</tbody>
</table>

Boise State University
Foundational Studies Course
Spring 2014

Course Number and Title: CHEM 101/101L: Essentials of Chemistry I

Course Design Table
<table>
<thead>
<tr>
<th>Foundation ULO 8</th>
<th>Course Learning Outcomes: By the end of this course, each student should be able to…</th>
<th>Assessment Method: Evidence of Student Learning</th>
<th>Planned Teaching &amp; Learning Activities / Pedagogy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Criteria and Notions of Exemplary Work</td>
<td>Identify, use, and articulate an understanding of information derived from both written and spoken sources</td>
<td>Exams</td>
<td>Problem sets</td>
</tr>
<tr>
<td>ULO 8.3: Communication of Scientific and/or Technological Understandings</td>
<td></td>
<td>Homework</td>
<td>Homework</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Class Discussion</td>
</tr>
</tbody>
</table>

5-16-2013

Foundational Studies Program Director Signature

Date