Program/Department Assessment Plan Summary
Greenville College, Greenville, IL  62246      Revised 2005

Department________Chemistry____________________ Program ____Chemistry Major___________

Dept. Head _______Dr. Iler________ Program Director ______Dr. Iler___________________

Program/Department Mission Statement
The faculty in the Chemistry Department assumes that through the study of chemistry one can understand another aspect of God’s creation. Consequently, chemistry logically becomes a part of the College’s concept of Christian education.

Program/Department Objectives
Qualities/competencies expected in graduates:
At the completion of their degree in Chemistry students will demonstrate:

1. A score of 50% or better on ACS tests measuring knowledge in chemistry according to ACS standards nationwide.
2. Broad understanding and experience in utilizing state of the art scientific instruments (NMR, HPLC, FT-IR, UV-Vis, AA, GC, and GC-MS).
3. Understanding and the ability to discuss opportunities available to them as chemistry majors in industry, graduate school, and professional health fields.
4. The integration of scientific knowledge, faith, social responsibility and stewardship through research and writing projects carried out with peer and faculty colleagues.
5. A competitive score on nationally standardized tests (MCAT, Dentistry, Veterinary Medicine, Physical Therapy, Graduate Records Exam (GRE)).

Integration of Program Mission and Objectives with Institutional Mission and Objectives

<table>
<thead>
<tr>
<th>Institutional Objectives</th>
<th>Addressed by Program Obj.</th>
<th>Course/ Experience</th>
<th>Student Outcome Evidence</th>
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</thead>
<tbody>
<tr>
<td>Critical Thinking:</td>
<td></td>
<td>CHM 409</td>
<td>Senior Science Seminar:  Chemistry students work with Biology and Physics students to research and provide a group presentation on a research project.</td>
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<tr>
<td>Seek Truth</td>
<td>4</td>
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<td>Learn to think</td>
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<td>critically and creatively</td>
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<td>World Diversity:</td>
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<td>CHM 112 CHM 201 CHM 305 CHM 342</td>
<td>See attached description of proficiency requirements for each of these courses in the utilization of scientific instruments in the correct identification of compounds and their concentrations.</td>
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<tr>
<td>Understand and value the wholeness of creation</td>
<td>2</td>
<td>Class specific tests</td>
<td>50% or better scores in areas of ACS standardized tests in organic, general, quantitative, instrumental, physical, and biochemistry.</td>
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<td>Understand our world</td>
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<td>Respect human life</td>
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<td>and understand the human condition</td>
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<td>Understand and apply</td>
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<td>basic social structures</td>
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<td>and processes</td>
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Character:
- Develop self-understanding
- Value personal accomplishment
- Respond to God’s expression

Students research various career paths for chemists and participate in discussion of opportunities in science.

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<tr>
<th>Character</th>
<th>3</th>
<th>CHM 409</th>
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</thead>
</table>

Review Process
Assessment Committee sub-group
Assessment Committee Review

HLC Best Practices Criteria
Program/Department Assessment Plan Score Number of Reviewers

Average Criteria scores: (1=not evident; 2=present/needs improvement; 3=adequate; 4=excellent)
- Clearly stated learning outcomes for department/program
- Link department/program learning outcomes to both course experiences and institutional goals/objectives
- Identify measures to be used to assess each outcome
- Describe who will use results and for what purpose
- Describe the process for collection, analysis, interpretation, and use of data for program improvement
- Maintain feedback loops to constituents
- Evaluate the assessment plan using AAHE’s principles

Revisions Recommended

Comments:

Approval Date
Provisional Approval Date

VPAA Signature Date

Comments: