

**Chemistry Major
EFFECTIVENESS PROGRAM
2014-2015**

| EXPANDED STATEMENT OF INSTITUTIONAL PURPOSE | STUDENT LEARNING OUTCOMES AND OBJECTIVES OF PROGRAM | ASSESSMENT CRITERIA AND PROCEDURES | ASSESSMENT RESULTS | USE OF RESULTS |
|---|--|--|--------------------|----------------|
| <p>University Mission: As a Christian university which embraces its Baptist heritage and namesake, William Carey University provides quality educational programs, within a caring Christian academic community, which challenge the individual student to excel in scholarship, leadership, and service in a diverse global society.</p> <p>Expanded Statement of Mission:</p> <ol style="list-style-type: none"> 1. Provide academic programs to promote student learning 2. Promote Christian development and social responsibility 3. Strengthen ties with Baptist churches, associations, and conventions 4. Provide an environment that supports student learning 5. Strengthen organizational and operational effectiveness 6. Strengthen financial resources <p>Department/Unit Purpose: While the program of the college is built around each individual student, all graduates of the Chemistry program will have developed a depth of understanding in the chemical sciences and will have been afforded the opportunity for a career, a profession, or further study following graduation.</p> | <ol style="list-style-type: none"> 1. Students completing the baccalaureate degree in chemistry have a mastery of basic chemistry skills. 2.. Students completing the baccalaureate degree in chemistry will be pleased with the quality of instruction. 3. Students completing the baccalaureate degree in chemistry have a mastery of higher order chemistry skills. 4. Students completing the baccalaureate degree in chemistry have a mastery of basic skills in scientific writing and oral presentations. 5.. Chemistry graduates who do not pursue graduate studies will find employment in their field. 6. Chemistry graduates seeking admission to graduate schools will be admitted.. | <ol style="list-style-type: none"> 1. As measured by a pre/post test of basic chemistry skills (developed internally), 80% of students will score 70% or better. 2. As measured by question 8 and 35 on the Graduate Follow-up Report, 80% of students will rate quality of instruction received a 4.0 or better. 3 As measured by American Chemical Society (ACS) test for organic chemistry students' average score will be 30% or higher. 4. As measured in CHE 481 by internally developed rubrics, 80% of students will score at or above the "Proficient" level in scientific writing and oral presentation, 5. As measured by the Graduate Follow-Up Report question 14, 20% of graduates will find employment in their field. 6. As measured by the Graduate Follow-Up Report question 10, 80% of graduates will be admitted into graduate school. | | |

Chemistry Major
EFFECTIVENESS PROGRAM
2013-2014

| EXPANDED STATEMENT OF INSTITUTIONAL PURPOSE | STUDENT LEARNING OUTCOMES AND OBJECTIVES OF PROGRAM | ASSESSMENT CRITERIA AND PROCEDURES | ASSESSMENT RESULTS | USE OF RESULTS |
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**Chemistry Major
EFFECTIVENESS PROGRAM
2012-2013**

| EXPANDED STATEMENT OF INSTITUTIONAL PURPOSE | STUDENT LEARNING OUTCOMES AND OBJECTIVES OF PROGRAM | ASSESSMENT CRITERIA AND PROCEDURES | ASSESSMENT RESULTS | USE OF RESULTS |
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| <p>University Mission: As a Christian university which embraces its Baptist heritage and namesake, William Carey University provides quality educational programs, within a caring Christian academic community, which challenge the individual student to excel in scholarship, leadership, and service in a diverse global society.</p> <p>Expanded Statement of Mission:</p> <ol style="list-style-type: none"> 1. Provide academic programs to promote student learning 2. Promote Christian development and social responsibility 3. Strengthen ties with Baptist churches, associations, and conventions 4. Provide an environment that supports student learning 5. Strengthen organizational and operational effectiveness 6. Strengthen financial resources <p>Department/Unit Purpose: While the program of the college is built around each individual student, all graduates of the Chemistry program will have developed a depth of understanding in the chemical sciences and will have been afforded the opportunity for a career, a profession, or further study following graduation.</p> | <ol style="list-style-type: none"> 1. Students completing the baccalaureate degree in chemistry will have a mastery of basic chemistry skills. 2. Students completing the baccalaureate degree in chemistry will be pleased with the quality of instruction. 3. Students completing the baccalaureate degree in chemistry have a mastery of higher order chemistry skills. 4. Students completing the baccalaureate degree in chemistry have a mastery of basic skills in scientific writing and oral presentations. 5. Chemistry graduates who do not pursue graduate studies will find employment in their field. 6. Chemistry graduates seeking admission to graduate schools will be admitted.. | <ol style="list-style-type: none"> 1. As measured by a pre/post test of basic chemistry skills (developed internally), 80% of students will score 70% or better. 2. As measured by question 8 and 35 on the Graduate Follow-up Report, 80% of students will rate quality of instruction received a 4.0 or better. 3 As measured by American Chemical Society (ACS) test for organic chemistry students' average score will be 30%. 4. As measured in CHE 481 by internally developed rubrics, 80% of students will score at or above the "Proficient" level in scientific writing and oral presentation, 5. As measured by the Graduate Follow-Up Report question 14, 20% of graduates will find employment in their field. 6. As measured by the Graduate Follow-Up Report question 10, 80% of graduates will be admitted into graduate school. | <ol style="list-style-type: none"> 1. 88% of students scored 70% or better on the basic skills test. 2. 100% of students rated the quality of instruction as 4.0 or better. 3. Organic chemistry students' average score on the ACS test was 31%. 4. 100% of students scored at or above proficient in scientific writing and oral presentation. 5. 100% of graduates seeking work found employment in their field. 6. 100% of graduates that applied to graduate school were accepted. | <ol style="list-style-type: none"> 1. Objective met: Results reviewed and faculty determined how to keep up the standard. 2. Objective met: Results reviewed and faculty determined how to continue the standard. 3. Objective met: Results reviewed and faculty determined to continue the standard. 4. Objective met: Faculty determined how to keep up the standard. 5. Objective met: Results reviewed and faculty determined how to continue the standard. 6. Objective met: Results reviewed and faculty determined how to ensure this standard continues to be met. Included in this is strategizing to gain more chemistry majors to successfully continue on to graduate studies. |

**Chemistry Major
EFFECTIVENESS PROGRAM
2011-2012**

| EXPANDED STATEMENT OF INSTITUTIONAL PURPOSE | STUDENT LEARNING OUTCOMES AND OBJECTIVES OF PROGRAM | ASSESSMENT CRITERIA AND PROCEDURES | ASSESSMENT RESULTS | USE OF RESULTS |
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| <p>University Mission: As a Christian university which embraces its Baptist heritage and namesake, William Carey University provides quality educational programs, within a caring Christian academic community, which challenge the individual student to excel in scholarship, leadership, and service in a diverse global society.</p> <p>Expanded Statement of Mission:</p> <ol style="list-style-type: none"> 1. Provide academic programs to promote student learning 2. Promote Christian development and social responsibility 3. Strengthen ties with Baptist churches, associations, and conventions 4. Provide an environment that supports student learning 5. Strengthen organizational and operational effectiveness 6. Strengthen financial resources <p>Department/Unit Purpose: While the program of the college is built around each individual student, all graduates of the Chemistry program will have developed a depth of understanding in the chemical sciences and will have been afforded the opportunity for a career, a profession, or further study following graduation.</p> | <ol style="list-style-type: none"> 1. Students completing the baccalaureate degree in chemistry will have a mastery of basic chemistry skills. 2. Students completing the baccalaureate degree in chemistry will be pleased with the quality of instruction. 3. Students completing the baccalaureate degree in chemistry have a mastery of higher order chemistry skills. 4. Students completing the baccalaureate degree in chemistry have a mastery of basic skills in scientific writing and oral presentations. 5. Chemistry graduates who do not pursue graduate studies will find employment in their field. 6. Chemistry graduates seeking admission to graduate schools will be admitted.. | <ol style="list-style-type: none"> 1. As measured by a pre/post test of basic chemistry skills (developed internally), 80% of students will score 70% or better. 2. As measured by question 8 and 35 on the Graduate Follow-up Report, 80% of students will rate quality of instruction received a 4.0 or better. 3 As measured by American Chemical Society (ACS) test for organic chemistry students' average score will be 25%. 4. As measured in CHE 481 by internally developed rubrics, 80% of students will score at or above the "Proficient" level in scientific writing and oral presentation, 5. As measured by the Graduate Follow-Up Report question 14, 20% of graduates will find employment in their field. 6. As measured by the Graduate Follow-Up Report question 10, 80% of graduates will be admitted into graduate school. | <ol style="list-style-type: none"> 1. 88% of students scored 70% or better on the basic skills test. 2. 100% of students rated the quality of instruction as 4.0 or better. 3. Organic chemistry students' average score on the ACS test was 23%. 4. 100% of students scored at or above proficient in scientific writing and oral presentation. 5. 100% of graduates seeking work found employment in their field. 6. 100% of graduates that applied to graduate school were accepted. | <ol style="list-style-type: none"> 1. Objective met: Results reviewed and faculty determined how to keep up the standard. 2. Objective met: Results reviewed and faculty determined how to continue the standard. 3. Faculty reviewed results and determined a new faculty member to teach Organic with a new goal of 30% average score. 4. Objective met: Faculty determined how to keep up the standard. 5. Objective met: Results reviewed and faculty determined how to continue the standard. 6. Objective met: Results reviewed and faculty determined how to ensure this standard continues to be met. Included in this is strategizing to gain more chemistry majors to successfully continue on to graduate studies. |

**Chemistry Major
EFFECTIVENESS PROGRAM
2010-2011**

| EXPANDED STATEMENT OF INSTITUTIONAL PURPOSE | STUDENT LEARNING OUTCOMES AND OBJECTIVES OF PROGRAM | ASSESSMENT CRITERIA AND PROCEDURES | ASSESSMENT RESULTS | USE OF RESULTS |
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| <p>University Mission: As a Christian university which embraces its Baptist heritage and namesake, William Carey University provides quality educational programs, within a caring Christian academic community, which challenge the individual student to excel in scholarship, leadership, and service in a diverse global society.</p> <p>Expanded Statement of Mission:</p> <ol style="list-style-type: none"> 1. Provide academic programs to promote student learning 2. Promote Christian development and social responsibility 3. Strengthen ties with Baptist churches, associations, and conventions 4. Provide an environment that supports student learning 5. Strengthen organizational and operational effectiveness 6. Strengthen financial resources <p>Department/Unit Purpose: While the program of the college is built around each individual student, all graduates of the Chemistry program will have developed a depth of understanding in the chemical sciences and will have been afforded the opportunity for a career, a profession, or further study following graduation.</p> | <ol style="list-style-type: none"> 1. Students completing the baccalaureate degree in chemistry will have a mastery of basic chemistry skills. 2. Students completing the baccalaureate degree in chemistry will be pleased with the quality of instruction. 3. Students completing the baccalaureate degree in chemistry have a mastery of higher order chemistry skills. 4. Students completing the baccalaureate degree in chemistry have a mastery of basic skills in scientific writing and oral presentations. 5. Chemistry graduates who do not pursue graduate studies will find employment in their field. 6. Chemistry graduates seeking admission to graduate schools will be admitted.. | <ol style="list-style-type: none"> 1. As measured by a pre/post test of basic chemistry skills (developed internally), 80% of students will score 70% or better. 2. As measured by question 8 and 35 on the Graduate Follow-up Report, 80% of students will rate quality of instruction received a 4.0 or better. 3 As measured by American Chemical Society (ACS) test for organic chemistry students' average score will be 25%. 4. As measured in CHE 481 by internally developed rubrics, 80% of students will score at or above the "Proficient" level in scientific writing and oral presentation, 5. As measured by the Graduate Follow-Up Report question 14, 20% of graduates will find employment in their field. 6. As measured by the Graduate Follow-Up Report question 10, 80% of graduates will be admitted into graduate school. | <ol style="list-style-type: none"> 1. 88% of students scored 70% or better on the basic skills test. 2. 100% of students rated the quality of instruction as 4.0 or better. 3. Organic chemistry students' average score on the ACS test was 24%. 4. 100% of students scored at or above proficient in scientific writing and oral presentation. 5. 100% of graduates seeking work found employment in their field. 6. 100% of graduates that applied to graduate school were accepted. | <ol style="list-style-type: none"> 1. Objective met: Results reviewed and faculty determined how to keep up the standard. 2. Objective met: Results reviewed and faculty determined how to continue the standard. 3. Faculty reviewed the result and determined methods to improve classroom instruction. 4. Objective met: Faculty determined how to keep up the standard. 5. Objective met: Results reviewed and faculty determined how to continue the standard. 6. Objective met: Results reviewed and faculty determined how to ensure this standard continues to be met. Included in this is strategizing to gain more chemistry majors to successfully continue on to graduate studies. |

**Chemistry Major
EFFECTIVENESS PROGRAM
2009-2010**

| EXPANDED STATEMENT OF INSTITUTIONAL PURPOSE | STUDENT LEARNING OUTCOMES AND OBJECTIVES OF PROGRAM | ASSESSMENT CRITERIA AND PROCEDURES | ASSESSMENT RESULTS | USE OF RESULTS |
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| <p>University Mission: The mission of William Carey University is to provide quality liberal arts and professional education programs within a caring Christian academic community. The individual student is encouraged to develop his or her highest potential in scholarship, leadership, and service. The university collaborates with churches, organizations, and individuals to affirm its Baptist heritage and namesake—William Carey.</p> <p>Expanded Statement of Mission:</p> <ol style="list-style-type: none"> 1. Provide academic programs to promote student learning 2. Promote Christian development and social responsibility 3. Strengthen ties with Baptist churches, associations, and conventions 4. Provide an environment that supports student learning 5. Strengthen organizational and operational effectiveness 6. Strengthen financial resources <p>Department/Unit Purpose: While the program of the college is built around each individual student, all graduates of the Chemistry program will have developed a depth of understanding in the chemical sciences and will have been afforded the opportunity for a career, a profession, or further study following graduation.</p> | <ol style="list-style-type: none"> 1. Students completing the baccalaureate degree in chemistry will have a mastery of basic chemistry skills. 2. Students completing the baccalaureate degree in chemistry will be pleased with the quality of instruction. 3. Students completing the baccalaureate degree in chemistry have a mastery of higher order chemistry skills. 4. Students completing the baccalaureate degree in chemistry have a mastery of basic skills in scientific writing and oral presentations. 5. Chemistry graduates who do not pursue graduate studies will find employment in their field. 6. Chemistry graduates seeking admission to graduate schools will be admitted.. | <ol style="list-style-type: none"> 1. As measured by a pre/post test of basic chemistry skills (developed internally), 80% of students will score 70% or better. 2. As measured by question 8 and 35 on the Graduate Follow-up Report, 80% of students will rate quality of instruction received a 4.0 or better. 3 As measured by American Chemical Society (ACS) test for organic chemistry students' average score will be 25%. 4. As measured in CHE 481 by internally developed rubrics, 80% of students will score at or above the "Proficient" level in scientific writing and oral presentation, 5. As measured by the Graduate Follow-Up Report question 14, 20% of graduates will find employment in their field. 6. As measured by the Graduate Follow-Up Report question 10, 80% of graduates will be admitted into graduate school. | <ol style="list-style-type: none"> 1. 91% of students scored 70% or better on the basic skills test. 2. 100% of students rated the quality of instruction as 4.0 or better. 3. Organic chemistry students' average score on the ACS test was 23%. 4. 100% of students scored at or above proficient in scientific writing and oral presentation. 5. 100% of graduates seeking work found employment in their field. 6. 100% of graduates that applied to graduate school were accepted (medical school). | <ol style="list-style-type: none"> 1. Objective met: Results reviewed and faculty determined how to keep up the standard. 2. Objective met: Results reviewed and faculty determined how to continue the standard. 3. Faculty reviewed the result and determined methods to improve classroom instruction. 4. Objective met: Faculty determined how to keep up the standard. 5. Objective met: Results reviewed and faculty determined how to continue the standard. 6. Objective met: Results reviewed and faculty determined how to ensure this standard continues to be met. Included in this is strategizing to gain more chemistry majors to successfully continue on to graduate studies. |