

Assessment Impact by Assessment Methods
 Seward County Community College/Area Tech School
 Program - Sciences

Direct

Program - Sciences

Presentations, Lab design, group activities

Outcome: Oral Communication - Effectively use the language of science in a "real life" context through oral communication.
Benchmark: 80% of students will receive a C or better

Schedule: Each semester

| Results | | | |
|--|---|-----------|-------------------------|
| Result | Action | Follow-Up | Action Status |
| 05/20/2015 - Physiology 35 meet 9 did not Chem 1 23 meet 4 did not Chem 2 9 meet 2 did not Chem in Society 35 meet 2 did not Organic 6 meet 0 did not Physical Science 16 meet 3 did not Nutrition 9 meet 0 did not A&P 7 meet 0 did not Micro 18 meet 3 did not Principles of Biology 17 meet 16 did not Totals 175 meet 39 did not 82% meet Result Type: Benchmark Met | | | Action Plan in Progress |
| 05/20/2013 - Principles of Biology 65/69 Zoology 6/6 Physiology 42/46 Organic Chem 3/4 Chem 1 34/42 Chem 2 12/12 Physical Sci 22/22 Totals 184/201 | 94% 100% 91% 75% 81% 100% 100% 92% | | Action Complete |
| 05/17/2012 - Principles of Biology 44/54 Organic Chemistry 3/3 Chemistry 2 9/13 Physical Science 19/23 Physiology 41/42 Total 116/135 86% Met Standard Result Type: Benchmark Met | | | Action Plan in Progress |
| 05/23/2011 - 76 % students met expectations 24/40 students met expectations - Organic Chemistry, College Chemistry, Physical Science 79/95 students met expectations - Principles of Biology Presentations Result Type: Benchmark Not Met | 05/23/2011 - Ongoing, clearly define expectations | | Action Plan in Progress |
| 12/31/2010 - Microbiology: 88% (15/17) of the students made A's on their presentations and 12% (2/17) did not participate and were given zeros. | 01/01/2011 - There were no needs for modification in Micro, however, in Nutrition, I will now assign specific dates | | Action Plan in Progress |

| Results | | | |
|--|---|-----------|---------------|
| Result | Action | Follow-Up | Action Status |
| Nutrition: 87.5% (14/16) made a 10/10 or higher on their vitamin presentations and 12.5% did not participate and were given zeros. | for the students to participate instead of it being on a voluntary basis. | | |
| Result Type: Benchmark Met | | | |

Quiz (inheritance), Case studies, Lab investigations, Exam questions

Outcome: Solving problems - Use the methodologies and models of science to select, define, solve and evaluate problems independently and collaboratively

Benchmark: 80% of students will receive a C or better on the assignment

Schedule: each semester

| Results | | | |
|--|--|-----------|----------------------------|
| Result | Action | Follow-Up | Action Status |
| 05/19/2015 - Physiology not | 35 meet 9 do | | Action Plan in Progress |
| Engineering Physics | 3 meet 1 do not | | |
| Principles of Biology | 83 meet 8 do not | | |
| Chem 1 | 14 meet 10 do not | | |
| Chem 2 | 8 meet 4 do not | | |
| Physical Science | 15 meet 2 do not | | |
| Chem in Society | 30 meet 7 do not | | |
| Totals | 188 meet 41 do not | | |
| 82% meet | | | |
| Result Type: Benchmark Met | | | |
| 05/20/2014 - Chem 1 Exam question 8 meet 4 below Chem 2 Exam question 9 meet 3 below Chem 2 Lab design 8 meet 2 below Intro to Chem Exam question 20 meet 13 below Principles of Biology 103 meet 25 below Zoology 1 meet 2 below Physiology CV Lab Exam 28 meet 20 below Overall 177 meet 69 below 72% | | | Action Plan in Progress |
| Result Type: Benchmark Not Met | | | |
| 05/17/2012 - Principles of Biology 43/54 Intro to Chem 12/21 Chem 1 19/31 Chem 2 8/11 Physiology 41/42 Totals 123/159 77% Met the Standard | | | Action Plan in Progress |
| Result Type: Benchmark Not Met | | | |
| 05/23/2011 - 66 % students met expectations 52/53 students met expectations - Organic Chemistry, College Physics, College Chemistry 60/84 students met expectations - Principles of Biology | 05/23/2011 - Ongoing, clarify the expectations | | Action Plan in Progress |
| Result Type: Benchmark Not Met | | | |

| Results | | | |
|--|---|--|-------------------------|
| Result | Action | Follow-Up | Action Status |
| 12/31/2010 - Microbiology: 100% (17/17) of the class made an 89% or higher on their unknown project. Result Type: Benchmark Met | 01/01/2011 - We need to specify that the report be turned in as a .doc or .rtf file. Two of the reports could not be opened due to odd file extensions. | 01/01/2011 - Add note to instruction sheet for unknowns that the report must be turned in as a .doc or .rtf if submitted electronically. | Action Plan in Progress |

Final exams (essay portion), papers, article reviews

Outcome: Written communication - Effectively use the language of science in a "real life" context through written communication.
Benchmark: 80% of students will receive a C or better

Schedule: 8/15/2010

| Results | | | |
|--|---|-----------|-------------------------|
| Result | Action | Follow-Up | Action Status |
| 05/19/2015 - Principles of Biology below Nutrition A&P Micro Chem 1 Chem 2 Organic Chem in Society Physical Science Totals 82% meet Result Type: Benchmark Met | 66 meet 26 14 meet 6 below 7 meet 0 below 12 meet 9 below 23 meet 10 below 11 meet 0 below 4 meet 2 below 31 meet 6 below 15 meet 2 below 282 meet 61 below | | Action Plan in Progress |
| 05/20/2014 - Chem 2 article review Chem 1 research paper Chem in Society Brochure Chem in Society Essay Organic Chem Lab report Principles of Biology Essay Nutrition Essay Zoology Essay Anatomy CV Essay Overall 69% Result Type: Benchmark Not Met | 7 meet 4 below 7 meet 2 below 19 meet 8 below 18 meet 5 below 2 meet 1 below 81 meet 41 below 10 meet 2 below 2 meet 0 below 18 meet 9 below 164 meet 72 below | | Action Plan in Progress |
| 05/20/2013 - Physiology Principles of Biology Zoology Chem 1 Chem 2 Organic Chem Physical Science Chemistry in Society Totals Result Type: Benchmark Met | 42/46 91% 65/69 94% 6/6 100% 27/35 77% 14/14 100% 3/4 75% 16/21 76% 10/13 77% 183/208 88% | | Action Complete |

| Results | | | |
|--|--|--|----------------------------|
| Result | Action | Follow-Up | Action Status |
| 05/17/2012 - Principles of Biology 39/53 Intro to Chem 12/21 Organic Chem 3/3 Chem 1 26/30 Chem 2 10/13 Microbiology 34/41 Nutrition 30/33 Anatomy and Physiology 9/10 Physiology 41/42 Totals 204/246 83% Success Result Type: Benchmark Met | | | Action Plan in Progress |
| 05/23/2011 - 57% overall met expectations 42/53 students met expectations - College Chemistry, Organic Chemistry, College Physics 10/30 students met expectations - Physiology 5/8 students met expectations - Zoology 13/22 students met expectations - Principles of Biology Result Type: Benchmark Not Met | 05/23/2011 - Modifications will be to model a complete and accurate essay using examples of past student work. Clarification of questions and expected results. | | Action Plan in Progress |
| 12/31/2010 - Nutrition: only 50% (5/10) of the class made an 80% or higher; 50% made 35 ? 78% and 6 did not turn research papers in and were given a zero. Microbiology: 87% (13/15) made an 80% or better; 13% (2/15) made a 73-79% and two did not turn in research papers and were given a zero. Result Type: Benchmark Met | 12/31/2010 - I did not grade the papers until @ Thanksgiving and the end of the course. I need to get the grades done sooner and be more proactive about them getting the papers done. | 01/01/2011 - Grade the papers earlier and get the results back to the students in a more reasonable amount of time. Be more proactive about getting them in at the deadline. | Action Complete |

Case studies, laboratory investigations, policies affecting science, critical thinking rubric

Outcome: Critical Thinking - By the end of their program of study, students will demonstrate critical thinking skills by communicating the short and long term outcomes related to solutions to real world problems that use potentially controversial science-based information.

Benchmark: 80% of our students will receive a C or better on the assessment tools

Schedule: Each semester

| Results | | | |
|--|------------------------------------|-----------|----------------------------|
| Result | Action | Follow-Up | Action Status |
| 05/19/2015 - Principles of Biology do not meet | 75 meet 19 | | Action Plan in Progress |
| Chem 1 | 26 meet 10 do not meet | | |
| Chem 2 | 8 meet 4 do not meet | | |
| Chem in Society | 31 meet 6 do not meet | | |
| Micro | 19 meet 2 do not meet | | |
| A&P | 7 meet 0 do not meet | | |
| Totals | 166 meet 41 do not meet | | |
| 80% meet | | | |
| Result Type: Benchmark Met | | | |
| 05/20/2014 - Physiology Oral Presentation Principles of Biology | 38 meet 8 below 79 meet 9 below | | Action Plan |

| Results | | | |
|---|--------|--|----------------------------|
| Result | Action | Follow-Up | Action Status |
| Zoology 1 meet 2 below Chem 1 lab investigations 4 meet 5 below Chem in Society essay 14 meet 3 below Overall 136 meet 27 below 83% meet Result Type: Benchmark Met | | | |
| 08/14/2013 - 42/46 91.3% completed all requirement successfully Totals 128/163 79% Result Type: Benchmark Met | | | Action Plan in Progress |
| 05/20/2013 - Principles of Biology 48/65 74% Zoology 1/4 25% Chem 1 27/35 77% Chemistry in Society 10/13 77% Totals 86/117 74% Result Type: Benchmark Not Met | | | Action Complete |
| 05/17/2012 - Principles of Biology 40/53 Physiology 41/42 Chemistry I 7/11 Totals 88/106 83% success Result Type: Benchmark Met | | | Action Plan in Progress |
| 05/23/2011 - 52 % students met expectations 28/ 58 students met expectations - Principles of Biology 17/29 students met expectations - College Chemistry Result Type: Benchmark Not Met | | 05/23/2011 - Ongoing, better definition of expectations. | Action Plan in Progress |

Presentations, writing assignment

Discussion threads

Quizzes and exams

Lab journal

Outcome: Diversity - Evaluate and characterize the relationship between scientific concepts and diverse cultures.

Benchmark: 80% of students will receive a C or better on the assignment

Schedule: Each semester

| Results | | | |
|--|--------|-----------|----------------------------|
| Result | Action | Follow-Up | Action Status |
| 05/19/2015 - Microbiology 18 met 3 did not Chem in Society 31 met 6 did not Totals 49 meet, 9 do not 84% meet goal Result Type: Benchmark Met | | | Action Plan in Progress |
| 05/20/2014 - Direct Chem is Society Culture Essay 14 meet 3 below Exam Question 9 meet 16 below Indirect Chem in Society Lab Project 16 meet 7 below | | | Action Plan in Progress |

| Results | | | |
|---------|--------|-----------|---------------|
| Result | Action | Follow-Up | Action Status |

Overall 39 meet 26 below
60%

Result Type:
Benchmark Not Met

Indirect

Program - Sciences

Class/Lab Grade

Outcome: Oral Communication - Effectively use the language of science in a "real life" context through oral communication.
Benchmark: 80% of students will receive a C or better in the class or lab
Schedule: End of the semester

| Results | | | |
|---|--------|-----------|-------------------------|
| Result | Action | Follow-Up | Action Status |
| 05/20/2015 - Nutrition 9 meet 0 did not | | | Action Plan in Progress |
| A&P 7 meet 0 did not | | | |
| Micro 18 meet 3 did not | | | |
| Physiology 35 meet 9 did not | | | |
| Totals 60 meet 12 did not | | | |
| 83% meet | | | |
| Result Type: Benchmark Met | | | |

Class/Lab Grade

Outcome: Solving problems - Use the methodologies and models of science to select, define, solve and evaluate problems independently and collaboratively
Benchmark: 80% of students will receive a C or better in the class or lab
Schedule: End of the semester

| Results | | | |
|--|--------|-----------|-------------------------|
| Result | Action | Follow-Up | Action Status |
| 05/19/2015 - Principles of Biology 74 meet 11 do not | | | Action Plan in Progress |
| Physiology 35 meet 9 do not | | | |
| Intro to Chem 7 meet 5 do not | | | |
| Totals 116 meet 25 do not | | | |
| 82% meet | | | |
| Result Type: Benchmark Met | | | |
| 05/20/2014 - Biology 113 meet 16 below | | | Action Plan in Progress |
| Intro to chem 28 meet 5 below | | | |
| Physiology 41 meet 7 below | | | |
| Chem 2 8 meet 2 below | | | |
| Overall 190 meet 30 below | | | |
| 86% | | | |
| Result Type: Benchmark Met | | | |

Class/Lab Grade

Outcome: Written communication - Effectively use the language of science in a "real life" context through written communication.

Benchmark: 80% of students will receive a C or better in the class or lab

Schedule: End of the semester

| Results | | | |
|--|----------|----------|----------------------------|
| Result | Action | | Follow-Up |
| 05/19/2015 - Principles of Biology 112 meet 17 below | | | Action Plan in Progress |
| Zoology 1 meet 1 below | | | |
| Anatomy 23 meet 4 below | | | |
| Chem 2 9 meet 4 below | | | |
| Chem in society 15 meet 3 below | | | |
| Overall | | | |
| 160 meet 29 below | | | |
| 85% | | | |
| 2015 | | | |
| Chem 1 | 25 meet | 3 below | |
| Chem 2 | 9 meet | 3 below | |
| Chem in Society | 34 meet | 3 below | |
| Principles of Biology | 84 meet | 12 below | |
| Nutrition | 17 meet | 3 below | |
| A&P | 7 meet | 0 below | |
| Micro | 12 meet | 9 below | |
| Totals | 188 meet | 33 below | |
| 85% meet | | | |
| Result Type: | | | |
| Benchmark Met | | | |

Class/Lab Grade

Outcome: Critical Thinking - By the end of their program of study, students will demonstrate critical thinking skills by communicating the short and long term outcomes related to solutions to real world problems that use potentially controversial science-based information.

Benchmark: 80% of students will receive a C or better in the class or lab

Schedule: End of the semester

| Results | | | |
|-----------------------|----------|----------------|----------------------------|
| Result | Action | | Follow-Up |
| 05/19/2015 - Chem 1 | 25 meet | 10 do | Action Plan in Progress |
| not meet | | | |
| Chem 2 | 10 meet | 0 do not meet | |
| Organic | 4 meet | 2 do not meet | |
| Chem in Society | 26 meet | 7 do not meet | |
| Principles of Biology | 84 meet | 12 do not meet | |
| Micro | 19 meet | 2 do not meet | |
| A&P | 7 meet | 0 do not meet | |
| Totals | 175 meet | 33 do not meet | |
| 84% meet the goal | | | |
| Result Type: | | | |
| Benchmark Met | | | |

| | | | |
|--|--|--|----------------------------|
| 05/20/2014 - Indirect | | | Action Plan in Progress |
| Principles of Biology 78 meet 11 below | | | |
| Zoology 1 meet 1 below | | | |
| Chem 1 10 meet 1 below | | | |
| Chem in Society 16 meet 10 below | | | |
| Physiology 41 meet 7 below | | | |

| Results | | | |
|---|--------|-----------|---------------|
| Result | Action | Follow-Up | Action Status |
| Overall 146 meet 30 below 83% meet Result Type: Benchmark Met | | | |

Literature research and discussion

Lab projects

Outcome: Diversity - Evaluate and characterize the relationship between scientific concepts and diverse cultures.
Benchmark: 80% of students will receive a C or better in the class or lab
Schedule: End of the semester

| Results | | | |
|---|--------|-----------|----------------------------|
| Result | Action | Follow-Up | Action Status |
| 05/19/2015 - Microbiology 19 met, 2 did not Chem in Society 34 met, 3 did not Totals 53 meet, 5 did not 91% met the benchmark Result Type: Benchmark Met | | | Action Plan in Progress |
| 05/20/2014 - Direct Chem in Society Culture Essay 14 meet 3 below Exam Question 9 meet 16 below Indirect Chem in Society Lab Project 16 meet 7 below Over All 39 meet 26 below 60% meet Result Type: Benchmark Not Met | | | Action Plan in Progress |

No Assessment Method Category specified.

No Assessment Tools reported for this Assessment Method Category