



ALAMO  
COLLEGES

PALO ALTO COLLEGE

## AS Biology

### Natural Sciences Degrees

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| #1 | <p>AS Biology Degree Student Learning Outcome</p> <p>Apply the Scientific Method to the processes of learning and problem solving.</p>  |
|    | <p>Courses in the degree plan that address this outcome<br/>BIOL 2421, BIOL 2416</p>  |
|    | <p>Assessment Measure for this Outcome</p> <ul style="list-style-type: none"><li>• Embedded questions on final exams in Biology 2421 (Microbiology) and 2416 (Genetics). There is no actual “capstone” course for this degree. These are the two sophomore level courses required. Some students take Microbiology first, and some take Genetics first. The scores on the relevant questions will be quantified only for those students taking their fourth semester of biology course.</li></ul> |
|    | <p>Achievement Target for this Measure</p> <ul style="list-style-type: none"><li>• The student will master 70% of the assessment questions.</li></ul>   |
|    | <p>Findings</p> <ul style="list-style-type: none"><li>• A mixed pool of sixteen Biology and Pre-Medicine students were assessed. There was a 73.4% mastery of this objective on the Spring 2010 Genetics final exam.</li></ul>  |
|    | <p>Related Action Plans</p> <ul style="list-style-type: none"><li>• Create test item blue prints</li><li>• Maintain a minimum of 70% mastery of the assessment questions.</li></ul>   |
| #2 | <p>AS Biology Degree Student Learning Outcome</p> <p>Correlate Scientific Principles with life experiences, including Science Professions</p>   |
|    | <p>Courses in the degree plan that address this outcome<br/>BIOL 2421, BIOL 2416</p>  |
|    | <p>Assessment Measure for this Outcome</p> <ul style="list-style-type: none"><li>• Embedded questions on final exams in Biology 2421 (Microbiology) and 2416 (Genetics). There is no actual “capstone” course for this degree. These are the two sophomore level courses required. Some students take Microbiology first, and some take Genetics first. The scores on the relevant questions will be quantified only for those students taking their fourth semester of biology course.</li></ul> |



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|    | <p>Achievement Target for this Measure</p> <ul style="list-style-type: none"><li>The student will master 70% of the assessment questions.</li></ul>   |
|    | <p>Findings</p> <ul style="list-style-type: none"><li>A mixed pool of sixteen Biology and Pre-Medicine students were assessed. There was a 77.8% mastery of this objective on the Spring 2010 Genetics final exam.</li></ul>  |
|    | <p>Related Action Plans</p> <ul style="list-style-type: none"><li>Create test item blue prints</li><li>Maintain a minimum of 70% mastery of the assessment questions.</li></ul>   |
| #3 | <p>AS Biology Degree Student Learning Outcome</p> <p>Correlate laboratory techniques and technology with Science concepts.</p>  |
|    | <p>Courses in the degree plan that address this outcome</p> <p>BIOL 2421, BIOL 2416</p>   |
|    | <p>Assessment Measure for this Outcome</p> <ul style="list-style-type: none"><li>Embedded questions on final exams in Biology 2421 (Microbiology) and 2416 (Genetics). There is no actual “capstone” course for this degree. These are the two sophomore level courses required. Some students take Microbiology first, and some take Genetics first. The scores on the relevant questions will be quantified only for those students taking their fourth semester of biology course.</li></ul> |
|    | <p>Achievement Target for this Measure</p> <ul style="list-style-type: none"><li>The student will master 70% of the assessment questions.</li></ul>   |
|    | <p>Findings</p> <ul style="list-style-type: none"><li>A mixed pool of sixteen Biology and Pre-Medicine students were assessed. There was a 71.4% mastery of this objective on the Spring 2010 Genetics final exam.</li></ul>  |
|    | <p>Related Action Plans</p> <ul style="list-style-type: none"><li>Create test item blue prints</li><li>Maintain a minimum of 70% mastery of the assessment questions.</li></ul>   |