### Student Learning Outcomes Template

#### Mathematics and Sciences

<table>
<thead>
<tr>
<th>Course Code</th>
<th>CHM 101</th>
<th>CHM 121</th>
<th>CHM 122</th>
<th>CHM 141</th>
<th>CHM 142</th>
<th>PHY 101</th>
<th>PHY 121</th>
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<th>PSY 222</th>
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</thead>
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### Desired Student Behavior

**Student should be able to:**

#### Effective Communication (Written/Oral/Reading/Listening):

- Organize and develop ideas effectively.
- Present ideas in an appropriate, mechanically and grammatically correct, professional style.
- Follow a standardized documentation format.

#### Quantitative Literacy (includes computational skills):

- Determine a solution strategy and set up the problem with the pertinent information.
- Mathematical operations (symbols and formulas), and the appropriate technology (such as calculators and computers).
- Analyze and interpret the results for accuracy and reasonableness and explain the results using such tools as graphs, charts, and tables as needed.

#### Information Literacy Skills:

- Locate, evaluate and use effectively the needed information.
- Manipulate current software and hardware to access and communicate information appropriately.
- Understand copyright rules and the ethics of extracting, sharing and citing source information.

#### Critical Thinking Skills:

- Understand and interpret data by analyzing and synthesizing information.
- Challenge assumptions and draw informed and logical conclusions.
- Test conclusions against relevant criteria and standards while considering practical and ethical implications.

#### Global and Diversity Awareness:

- Demonstrate appreciation and respect for individuals and groups and use effective interpersonal and collaboration skills.
- Demonstrate awareness of the interdependence of factors of diversity: culture, history, sexual orientation, psychological functioning, education, economics, environment, geography, language, politics, age, gender, ethnic heritage, physical challenges, social class, social skills and religion.

#### Civic, Professional and Ethical Responsibility:

- Demonstrate personal integrity and social responsibility consistent with ethics, individual rights, and civility in a democratic society.
- Accept responsibility for and act in a manner that reflects the values of the communities and organizations.
- Relate to others in a respectful, courteous, and professional manner.

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**Legend**

1 = Present  
2 = Practice  
3 = Master  
NA = Not Applicable