

# SUFFOLK COUNTY COMMUNITY COLLEGE

## Institutional Educational Goals/Program Learning Outcomes Mapping

Program: Liberal Arts & Sciences – Sciences – Physics Option/A.S.

Updated: May 2017

Submitted By: Glenda Denicolo

### **Institutional Educational Goals\* See the SUNY General Education Learning Outcomes for Definitions**

- |   |  |
|---|--|
| 1. Written and Oral Communication                         | 5. Critical Analysis and Reasoning               |
| 2. Cultural and Global Awareness and Cultural Sensitivity | 6. Technological Competency/Information Literacy |
| 3. Quantitative Reasoning                                 | 7. Values, Ethics and Diverse Perspectives       |
| 4. Scientific Reasoning                                   |  |

## SUFFOLK COUNTY COMMUNITY COLLEGE

| PROGRAM LEARNING OUTCOME   | INSTITUTIONAL EDUCATIONAL GOALS |   |   |   |   |   |   |
|--|---------------------------------|---|---|---|---|---|---|
| <i>Indicate the HIGHEST level of learning that the outcome can be demonstrated through the alignment to the IEG's. (I=Introduce, R=Reinforce, A=Apply)</i> | 1                               | 2 | 3 | 4 | 5 | 6 | 7 |
| 1. Demonstrate knowledge of factual material essential to their discipline in science.   | A                               |   | A | A | A | A |   |
| 2. Apply the scientific process, including designing and conducting experiments and testing hypotheses.  | A                               |   | A | A | A | A |   |
| 3. Prepare written reports in a standard scientific format.  | A                               |   | A | A | A | A |   |
| 4. Analyze and interpret quantitative scientific data.   | A                               |   | A | A | A | A |   |
| 5. Perform laboratory skills specific to their discipline in science.  | A                               |   | A | A | A | A |   |

# SUFFOLK COUNTY COMMUNITY COLLEGE

## Institutional Educational Goals/Courses Mapping

Program: Liberal Arts & Sciences – Sciences – Physics Option/A.S.

Updated: May 2017

Submitted By: Glenda Denicolo

| INSTITUTIONAL EDUCATIONAL GOALS (IEGS)   | PROGRAM COURSES* |        |        |        |        |        |
|--|------------------|--------|--------|--------|--------|--------|
| <i>Indicate the HIGHEST level of learning that the outcome can be demonstrated through the alignment to the IEG's. (I=Introduce, R=Reinforce, A=Apply)</i> | PHY130           | PHY132 | PHY230 | PHY232 | PHY245 | PHY246 |
| 1. Written and Oral Communication  |                  | R      |        | R      |        | R      |
| 2. Cultural and Global Awareness and Cultural Sensitivity  |                  |        |        |        |        |        |
| 3. Quantitative Reasoning  | A                | A      | A      | A      | A      | A      |
| 4. Scientific Reasoning  | A                | A      | A      | A      | A      | A      |
| 5. Critical Analysis and Reasoning   | A                | A      | A      | A      | A      | A      |
| 6. Technological Competency/Information Literacy   | A                | A      | A      | A      | A      | A      |
| 7. Values, Ethics and Diverse Perspectives   |                  | R      |        | R      |        | R      |

\*Courses are limited to those offered by the program's faculty