### Program: Associates of Science (engineering track)

**Program Mission:** to prepare students to complete an engineering or engineering technology baccalaureate program

<table>
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<tr>
<th>Student Learning Outcome</th>
<th>Measure</th>
<th>Description</th>
<th>Target</th>
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| 1. an ability to apply knowledge of mathematics, science, and engineering to solve fundamental problems appropriate for rising juniors within the engineering major | M1.1 Rubrics designed within a core set of fundamental engineering courses that address learning outcome #1 sub-areas. | D1.1 Recording and statistically assessing rubric results at the end of freshman year and sophomore year | T1.1 Benchmark: 70% of students will have satisfied the relevant rubric requirements
| | M1.2 Success of AS graduates who pursue a four year degree with a major in a STEM field | D1.2 Longitudinal tracking of students who continue on to obtain a four year degree in a STEM field | T1.2 Benchmark: 70% of students who transfer or remain at Armstrong to pursue a BS degree in a STEM major are successful within 3 years of earning their AS(excluding hardship withdrawals) |
| 2. an ability to design and conduct experiments as well as to analyze and interpret data appropriate for rising juniors within the engineering major | M2.1 Rubrics designed within a core set of fundamental lab and project based engineering courses that address learning outcome #2 sub-areas. | D2.1 Recording and statistically assessing rubric results at the end of sophomore year | T2.1 Benchmark: 70% of students will have satisfied the relevant rubric requirements |
| 3. Armstrong’s core curriculum learning outcomes | http://www.usg.edu/academic_affairs_handbook/section2/C738/ | | |

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**Note:**
- **M1.1** and **M1.2** are measures related to the first student learning outcome.
- **M2.1** is a measure related to the second student learning outcome.
- The target for **T1.1** is 70% satisfaction of rubric requirements for students.
- The target for **T1.2** is 70% success of students who transfer or remain at Armstrong to obtain a BS degree in a STEM major within 3 years of earning their AS degree.

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**Sources:**
- Armstrong Atlantic State University
- AY2014-2015
- ACADEMIC PROGRAM ASSESSMENT PLAN

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**Related Links:**
- Usge.edu/academic_affairs_handbook/section2/C738/