General Education Annual Course Assessment Form  AY 2017-2018

Course Number/Title:  AE172B – Spacecraft Design II – Spring 2018
GE Area  V  in conjunction with Engr.195B

Results reported for  AY 2017-2018  # of sections: 1  # of instructors: 1
Course Coordinator:  Nikos J. Mourtos  E-mail: nikos.mourtos@sjsu.edu
Department Chair:  Nikos J. Mourtos  College: Engineering

Part 1 – Completed by the Course Coordinator:

(1) What SLO(s) were assessed for the course during the AY?

SLO-1 was assessed.
Compare systematically the ideas, values, images, cultural artifacts, economic structures, technological developments, and / or attitudes of people from more than one culture outside the U.S.

(2) What were the results of the assessment of this course?

The assignment for this SLO is described below. It was graded by Dr. Pat Backer, using a 50-point rubric, also developed by Dr. Pat Backer. The rubric uses four criteria: thesis statement (5 points), organization of the paper (5 points), mechanics of the paper (grammar, spelling, and punctuation, 5 points), and content (35 points).

Scores of 0 – 34: indicate that the student failed the assignment and did not meet the SLO.
Scores of 35 – 44: indicate that the student passed the assignment and met the SLO.
Scores of 45 – 50: indicate that the student passed the assignment and exceeded the expectations for meeting the SLO.

If students do not meet the minimum expectation for the SLO (a score of 35), they are given one more opportunity to re-write and re-submit their paper, following specific recommendations on their paper.

Reflection Paper 1 (750 words): Assume that your spacecraft will go into production. Using the studies provided in Engr195B as a background, write about how you will take into account at least two aspects (e.g. ideas, values, images, cultural artifacts, economic structures, or technological developments) while evaluating your decision to manufacture your spacecraft in two other countries.

<table>
<thead>
<tr>
<th>Number of students in the course</th>
<th>27</th>
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<tbody>
<tr>
<td>Students who did not meet SLO-1</td>
<td>7 (26%)</td>
</tr>
<tr>
<td>Students who met SLO-1</td>
<td>8 (30%)</td>
</tr>
<tr>
<td>Students who exceeded the expectations for SLO-1</td>
<td>10 (37%)</td>
</tr>
<tr>
<td>Students who did not submit assignment</td>
<td>2 (7%)</td>
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</tbody>
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(3) What were the lessons learned from the assessment?

In general, students performed well. Two did not submit a reflection and received an “incomplete” grade. Seven students (26%) did not meet SLO-1. Of these, one received an “incomplete” grade; the other six averaged from 75% to 83% in their four reflections, so they met the Area V requirement and received passing grades.
Part 2 – Completed by the Department Chair

(4) Are all sections of the course still aligned with the area Goals, Student Learning Objectives (SLOs), Content, Support, and Assessment? If they are not, what actions are planned?

Yes, they are. No actions are necessary.

(5) If this course is in a GE Area with a stated enrollment limit (Areas A1, A2, A3, C2, D1, R, S, V, & Z), please indicate how oral presentations will be evaluated with larger sections (Area A1), or how practice and revisions in writing will be addressed with larger sections, particularly how students are receiving thorough feedback on the writing which accounts for the minimum word count in this GE category (Areas A2, A3, C2, D1, R, S, V, & Z) and, for the writing intensive courses (A2, A3, and Z), documentation that the students are meeting the GE SLOs for writing.

AE172B is a second semester senior design capstone experience, which typically draws an enrollment between 25 and 50 students. The AE Program does not anticipate larger enrollment in this course.