



DEPARTMENT OF THE ARMY
UNITED STATES MILITARY ACADEMY
West Point, New York 10996

REPLY TO
ATTENTION OF

MADN-CHM-LS

21 December 2015

MEMORANDUM THRU COL Leon Robert, Professor and Head, Department of Chemistry and Life Science, United States Military Academy, West Point, NY 10996

FOR Dean of the Academic Board, United States Military Academy, West Point, NY 10996

SUBJECT: 2015 Executive Summary of Chemical Engineering Program Assessment

1. This memorandum is an executive summary, per *DPOM 5-07 Assessment of Student Learning in the Academic Program*, outlining the changes in the Chemical Engineering Program's assessment and assessment process, as well as curriculum changes, that have occurred since the last executive summary in November 2014.

a. The Chemical Engineering Program did not make any changes to the program during AY15. However, the program provided input to the department and the Curriculum Committee regarding USMA curriculum changes throughout the academic year. A curriculum change memorandum will be submitted during AY16 detailing the relationship between the Chemical Engineering Program and the new core curriculum.

b. The collation of assessment data for the Chemical Engineering Student Outcomes and Program Educational Objectives for AY15 is still being analyzed. Initial analysis does not indicate significant differences between AY14 and AY15 in terms of attainment of Student Outcomes. The performance of cadets on the Fundamentals of Engineering Exam (FEE) during AY15 was somewhat lower than in previous years, with 16/21 cadets passing. Assessment of the individual areas in which the program may need to offer increased emphasis is ongoing.

c. As part of the curriculum change memorandum, a complete mapping of Student Outcomes with the APG-WGCD framework will be conducted.

d. There are currently no proposed curricular changes to the Chemical Engineering program from AY15 for execution in AY16.

e. There are no proposed changes to the Student Outcomes or Program Educational Objectives from AY15 for execution in AY16. The Chemical Engineering Advisory Board met in the Fall of 2014 and did not have any proposed changes or suggestions. The board will meet in the spring of 2016 and any proposed changes will be discussed at that time for implementation in AY17.

f. There are no significant planned or implemented assessment process changes for AY16.

g. AY15 full assessment will be completed NLT 15 February 2016. Course assessments for AY16-1 will be complete NLT 31 January 2016. The Chemical Engineering Advisory Board will meet on or about 1 April 2016. Course assessments for AY16-2 will be complete NLT 30 June 2016. The AY16 program assessment and executive summary will be complete NLT 31 August 2016.

2. Point of contact for this action is the Chemical Engineering Program Director, LTC Geoffrey Bull, at x2031.

Enclosures –

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