UNIVERSITY ASSESSMENT COMMITTEE

Feedback to Academic Departments on Assessment Activities Reported in 2007-08 Annual Reports

DEPARTMENT_Chemical Engineering	DATE _April 14, 2009					
COMMITTEE MEMBER(S) CONDUCTING REVIEW Fred Remer, Darla Adams						
1. STUDENT LEARNING GOALS						
Were any goals referenced?If so, were goals well articulated?Do goals address student learning?	YES_U,G NO QUALIFIED Y/N YES_U, NO QUALIFIED Y/N _Y YES_U, NO QUALIFIED Y/N _Y					
Comments:						
$\label{thm:continuous} \textbf{Undergraduate: The goals referenced are well articulated and include educational objectives and more specific departmental goals.}$						
specific. For example, one student goal is identified as" Gr objective is "Students will present their research findings a least once during their program of study." A more detailed skills or values a student should exhibit) might be "upon c graduate student will be able to effectively articulate the tl	me of the objectives, however, are somewhat vague and non- raduates will be proficient researchers" and a corresponding at the chemical engineering department graduate seminar at d and specific student objective (one which identifies specific ompletion of their master's thesis, the chemical engineering heoretical and scientific underpinnings of their research uring their program of study; analyze and interpret data to					
In addition to the Departmental goals, please also consider UND's Institutional and Essential Studies goals for student learning (shown in alignment within parentheses). Use 'U' (undergraduate) or 'G' (graduate) to identify UND/Essential Studies goals which are similar to the referenced departmental goals. _UG_1 Communication – written or oral ("able to write and speak in various settings with a sense of purpose/audience") _U2 Thinking and reasoning – critical thinking (or "be intellectually curious"; analyze, synthesize, evaluate) _U3 Thinking and reasoning – creative thinking (or "be intellectually creative"; explore, discover, engage) _U6 Thinking and reasoning – quantitative reasoning ("apply empirical dataanalyze graphical information") _U5 Information literacy ("be able to access and evaluatefor effective, efficient, and ethical use") _U6 Diversity ("demonstrate understanding of diversity and use that understanding") 1 Lifelong learning ("commit themselves to lifelong learning") 8 Service/citizenship ("share responsibility both for their communities and for the world")						
Comments regarding departmental goals and alignment of departmental goals with institutional and Essential Studies goals:						
Undergraduate: Many of the departmental goals align nicely with the Essential studies goals. Diversity is minimally addressed, but is briefly mentioned.						
Graduate: no additional comments						
2. ASSESSMENT METHODS						
 Were any specific assessment methods referenced? If so, were specifically chosen assessment methods appropriately aligned with individual goals? Were both direct and indirect assessment 	YES_U_ NO_ QUALIFIED Y/N YES_U_ NO_ QUALIFIED Y/N _G_					
methods used as components of a "multiple measures" approach?	YES_U, G NO QUALIFIED Y/N					

Comments:

Undergraduate: Several methods of assessment are referenced, indicating an understanding of the importance of multiple methods of assessment of student learning. An extensive detailing of assessment methods is provided in the department's undergraduate assessment plan. Outcomes, objectives and performance criteria are paired directly to their respective method of evaluation within the department's assessment plan.

Graduate: Specific methods were found on the 2004-2005 Graduate Assessment Plan. A table linking student learning goals and outcomes with educational experiences and assessment methods was very helpful. One particular method of assessing student learning that was noted in this table, however, was "draft program of study (POS) completed" as a way of measuring student learning goal #1 "Graduates will have mastered selected topics in chemical engineering to achieve their specific goals and objectives". This particular method (completing a POS) most likely would not ensure that a student would master chemical engineering concepts or topics and the department may want to reconsider this assessment method.

3. ASSESSMENT RESULTS

Were any assessment results reported?	YES	NO_U_G_	QUALIFIED Y/N
• If so, were the results clear in terms of how they specifically affirm achievement of goals?	YES	NO	QUALIFIED Y/N
 If so, were the results clear in terms of how they indicate need for improvement? 	YES	NO	QUALIFIED Y/N
Were the results tied to goals for student			
learning?	YES	NO	QUALIFIED Y/N

Comments:

Undergraduate: This department clearly understands the assessment process and the importance of assessment of student learning. This department held a major retreat in both May and June to discuss assessment outcomes, among other things. It was determined by faculty at this retreat that the department was successfully meeting all of the learning outcomes and educational objectives. No specific assessment results were provided with this report. Results were available upon request; however there appeared to be more focus on student recruitment than student learning.

Graduate: Results were not provided.

In addition to departmental goals, some assessment results may be applicable to institutional and Essential Studies goals. Use
'U' (undergraduate) or 'G' (graduate) to identify those results which are applicable to institutional/Essential Studies goal
achievement. For indicated items, please describe findings in the appropriate section below.
1 Communication – written or oral ("able to write and speak in various settings with a sense of purpose/audience")
2 Thinking and reasoning – critical thinking (or "be intellectually curious"; analyze, synthesize, evaluate)
3 Thinking and reasoning – creative thinking (or "be intellectually creative"; explore, discover, engage)
4 Thinking and reasoning – quantitative reasoning ("apply empirical dataanalyze graphical information")
5 Information literacy ("be able to access and evaluatefor effective, efficient, and ethical use")
6 Diversity ("demonstrate understanding of diversity and use that understanding")
7 Lifelong learning ("commit themselves to lifelong learning")
8 Service/citizenship ("share responsibility both for their communities and for the world")

Comments regarding results and the application of results to departmental, institutional and Essential Studies goals:

Undergraduate: No results reported. Report referred reviewers to department for a more detailed report.

Graduate: No specific results reported. Reference made indicating no program deficiencies had been noted. Lack of qualified applicants mentioned.

4. CLOSING THE LOOP

results report	If so, do curricular or other	improvements/	YES	NO_G	QUALIFIED Y/N <u>U</u>
	changes arising from asses directly address goals for s		YES	NO	QUALIFIED Y/N
Comments:					
to student lea a faculty retr	rning outcomes. A thoroug	h review of the chemic be implemented next ye	al engineerin ar with the g	g curriculum oal of streng	tal engineering program and not related in was undertaken by faculty in 2008 at atthening the overall program. These is not established.
Graduate: F	ocus was on recruitment of	students into the progr	am		
	Strengths			Areas f	for Improvement
_U_StudentAssessn _U_Assessn _U_Direct aResultsResults _(Decisi OVERALI The Chemical		culated. scribed. tely selected. emented. plemented. ce.) COMMENDATION learly values assessmented.	Student G Assess Assessi Assessi A singl U,G No resi (Decisi	t learning gos ment method ment method ment method e type of ass ults are report s are not clea on-making is	arly tied to closing the loop. s not directly tied to evidence.) eir faculty retreats and concerted ee. A more complete description of
Reviewer(s):	Name Department Phone Number e-mail	_Darla J. Adams _ _Nursing	und.edu		
	Y Section 2: _?	Section 3:NA			
Coding Key: Y N	yes, this is done approno, this is not done at a		elationship t	o student lea	arning

NA = no information available
? = action or progress is apparent; however, evidence is lacking that this is completely and appropriately done