## UNIVERSITY ASSESSMENT COMMITTEE Feedback to Departments on Assessment Activities Reported in 2006-2007 Annual Reports DEPARTMENT\_\_\_\_\_Physics\_\_\_\_\_\_DATE\_November 2007\_\_\_\_\_ COMMITTEE MEMBER(S) CONDUCTING REVIEW Joan Hawthorne, Nabil Suleiman 1. STUDENT LEARNING GOALS Were any goals referenced? QUALIFIED Y/N \_\_\_ YES\_\_\_\_ QUALIFIED Y/N X If so, were goals well articulated? NO Do goals address student learning? YES QUALIFIED Y/N X In addition to the Departmental goals, please also consider UND's Institutional and General Education goals for student learning (shown in alignment within parentheses). For each goal, use a Y (yes), N (no), or ? (qualified y/n or uncertain) to indicate whether this department has a similar or related goal. X\_\_\_1 Communication ("communicate effectively, both orally and in writing") \_\_\_\_X\_\_\_2 Critical/creative thinking ("think critically and creatively" and "be intellectually curious and creative") 3 Informed choices ("make informed choices") 4 Understanding across disciplines ("understand how conclusions are reached in the natural sciences, the social sciences, and the arts and sciences" and "acquire knowledge over a broad spectrum of subject areas") \_\_\_\_\_5 Lifelong learning ("commit themselves to lifelong learning") \_\_\_\_\_6 Cross-cultural appreciation ("develop some familiarity with cultures other than their own") 7 Service/citizenship ("commit themselves to...the service of others," and "share responsibility both for their communities and for the world") Comments regarding Departmental goals and alignment of Departmental Goals with Institutional and General Education Goals: **Undergraduate:** Although the goals themselves are about what the department will do ("Provide students with..."). most of the objectives are about student learning of knowledge and skills. In some cases, the goals are about gaining experience (e.g., "students will practice..." or "students will gain...") rather than learning. Some of the goals are clearly about student learning ("students will acquire a knowledge base..." or "Students will be able to use their knowledge base..."). **Graduate:** Goals for the graduate program are written in terms of student learning. 2. ASSESSMENT METHODS Were any specific assessment methods referenced? YES X NO QUALIFIED Y/N If so, were specifically chosen assessment methods appropriately aligned with individual NO QUALIFIED Y/N X goals? Were both direct and indirect assessment YES X NO QUALIFIED Y/N methods used as components of a "multiple measures" approach?

## Comments:

**Undergraduate:** We could find linkages between methods and goals in the assessment plan, although that alignment was not clear in the report itself (either in terms of plans for data collection or use of the data). Direct assessments appear to have been used within the gen ed portion of the curriculum, although not more generally. It would be extremely useful to collect direct assessments of student learning at the outcome level (i.e., among seniors) in order to determine how students are doing in terms of goals of interest. For example, do seniors/recent grads have the desired knowledge base? Can they use that knowledge base to solve physical problems, outside of the normal class context where students typically "know" the sorts of

problems and the sorts of methods they are about to be tested on? Can they demonstrate analytical skills or communication skills consistent with the department's expectations? Etc.

**Graduate:** Although appropriate tools are identified (e.g., qualifying and preliminary exams, seminars), it does not appear that data from those tools are being systematically collected, and the data do not appear to be collected in relation to learning goals. However, they do have a plan that specifies intended linkages between goals and data.

|--|

report.

Were any assessment results reported?	YES_X_	_ NO	QUALIFIED Y/N				
• If so, were the results clear in terms of how they specifically affirm achievement of goals?	YES	NO	QUALIFIED Y/N _X_				
<ul> <li>If so, were the results clear in terms of how they indicate need for improvement?</li> <li>Were the results tied to goals for student</li> </ul>	YES	NO	QUALIFIED Y/NX				
learning?	YES	NO_X_	QUALIFIED Y/N				
In addition to departmental goals, some assessment results may be applicable to Institutional and General Education goals. A list of the latter goals is included below. Please indicate with a Y, N, or ? whether results reported are applicable to Institutional or General Education goal achievement. For items with a Y or a ?, please describe findings in the appropriate section below.							
Comments regarding results and the application of results to	o Departme	ntal, Institution	nal and General Education Goals:				
<b>Undergraduate:</b> The collected data appear to be lar does not exactly speak to student achievement of departments acquiring a knowledge base, but that connection is not clearly speak to that goal or simply to student success at the course-le extensive, high quality effort to assess student learning in an irreported here.	al learning go made and i evel. One fa	oals. The data t's difficult to call the member of the control of	do seem applicable to the goal about determine if the data are intended to appears to have conducted an				
Graduate: Data regarding learning around grad pro	gram goals	are not reported	d here.				
4. CLOSING THE LOOP							
Were any actions taken on the basis of assessment results reported?  • If so, do curricular or other improvements/	YES	NO	QUALIFIED Y/N _X				
changes arising from assessment results directly address goals for student learning?	YES	NO	QUALIFIED Y/N _X_				
Comments:							

Undergraduate: Changes were reported, but no clear linkage to either goals or data was documented in the annual

**Graduate:** Changes stemming from systematic data collection are not reported.

## SUMMARY

SUMMAKI	Strengths		Areas for Impr	rovement
Student leaAssessmenAssessmenAssessmenDirect andResults areResults are(Decision-	plan for assessment is in parining goals are well-articulat methods are clearly descript methods are appropriately at methods are well-implement indirect methods are implemented to closing the loop.  -making is tied to evidence.  UMMARY AND RECO	atedX ibed A v selected A ented X mented N X )	Student learning goals are assessment methods are not assessment for results are reported.  Results are not clearly tie Decision-making is not directly assessment methods.	e not well-articulated. It clearly described. It appropriately selected. In the well-implemented. It methods predominates. It is closing the loop.
student learning goals, and the d major workload collected. Ther review of currer value (not high-	g," refers specifically to syst egree to which that kind of addition or an "add-on" if e are many resources on car	ematically-collected, aggredata are contributing to product it is to be effective – insteampus (including within other hareview might be very be collection and analysis, and	egated data about student leagram change is unclear. And, it should be built in so the er science departments) the delpful in terms of refocusing we encourage the department of the department	hat relevant data are routinely at can be accessed as part of a ng assessment work on high- tment to take advantage of
Reviewer(s):	Name Department Phone Number e-mail	_Joan Hawthorne_ _Provost's Office_ _777-4684 joan_hawthorne@und.no	_Nabil Suleiman_ _Civil Engineering _777-3993 dak.edunabilsuleiman@	mail.und.edu

Coding Key:

Y = yes, this is done appropriately and well

Section 1: \_\_Y\_\_ Section 2: \_\_?\_\_ Section 3: \_\_?\_\_ Section 4: \_\_N\_\_

N = no, this is not done at all, or it is not done in relationship to student learning

NA = no information available

? = action or progress is apparent; however, evidence is lacking that this is completely and appropriately done