UNIVERSITY ASSESSMENT COMMITTEE

Feedback to Academic Departments on Assessment Activities Reported in __2013-14_____

UNDERGRADUATE PROGRAMS

DEPARTMENT	Space Studies			DATE	_2/17/15
PROGRAM(S) CO	VERED IN REVIEW	_Minor in Space S	tudies		
COMMITTEE ME	MBER(S) CONDUCTING	REVIEW Mar	y K. Askim-	Lovseth and	Surojit Gupta
1. STUDENT LEAR	NING GOALS				
• If so, wer	goals referenced? re goals well articulated? address student learning?	YES <i>X</i> _	NO	QUALIFIE QUALIFIE QUALIFIE	ED Y/N
Comments:					
In addition to the progression of the progression o	ram goals, please also consider Uthin parentheses) and identify wation – written or oral ("able to wand reasoning – creative thinking and reasoning – creative thinking and reasoning – quantitative reason literacy ("be able to access and "demonstrate understanding of darning ("commit themselves to lizenship ("share responsibility be included in the second in the se	the website (April 2 ix goals of the gradual ix goals of the gradual ix goals are similar write and speak in votor "be intellectually (or "be intellectually coning ("apply empire evaluate for effectiversity and use that if elong learning")	and Essential lar to program arious setting y curious"; and y creative"; y creative, efficier t understandi	I Studies goals m goals. gs with a sensonalyze, synthe explore, disconalyze graphicat, and ethical ing")	addressed student s for student learning e of purpose/audience" esize, evaluate) ever, engage) eal information")
Comments regarding p	program goals and alignment w	ith institutional and	d Essential S	tudies goals:	
	ment with the critical thinking Espects of space enterprises and co				
2. ASSESSMENT M	ETHODS				
Were any specific assessment methods reference • If so, were specifically chosen asse methods appropriately aligned with		i.	NO	QUALIFIE	ED Y/N
goals?		YES	NO	QUALIFIE	ED Y/NX_
methods i	h direct and indirect assessment used as components of a "multip " approach?	le YES	NOX_	QUALIFIE	ED Y/N

Comments:

3. ASSESSMENT RESULTS

It was noted that course papers, homework, presentations, and examinations (direct measures) are to be used but the reporting does not align with these artifacts. It appears that a summation of these measures are used. Both the Assessment Plan and Annual Report indicated that the data that are reported are to be the average GPA for the "substantially interdisciplinary courses (i.e., 200)" and a student "mastery" rating regarding conceptual understanding for each course. The anchors to the five-point rating scale were 'Substantially unacceptable' (0) to Noteworthy' (4). The targeted mean standard for the GPA was >3.00 and the course mean standard using the rating scale was noted to be >3.0, which was a descriptor of 'Good.' No indirect measures were noted.

It is unclear how these methods (GPA and rating scale) align as one of the goals related to applying the understanding of interrelationships to problem solving. There is no direct measurement of problem solving. In addition, GPAs and an aggregate mean regarding students' performance in a course based on a qualitative assessment do not allow the Department to identify distinct areas for improvement of student learning.

Were any assessment results reported?		YES	NOX_	QUALIFIED Y/N
	• If so, were the results clear in terms of how they specifically affirm achievement of goals?		NO	QUALIFIED Y/N
 If so, were the results clear in terms of how they indicate need for improvement? Were the results tied to goals for student learning? 	YES	NO	QUALIFIED Y/N	
		YES	NO	QUALIFIED Y/N
Comments	:			
It was repo	orted that the Department has "obtained a rather i	ncomplete se	et of data."	
1 2 3 4 5 6 6 7 7 8	for which the program presents findings, and, for in Communication – written or oral ("able to write a Thinking and reasoning – critical thinking (or "be Thinking and reasoning – creative thinking (or "Be Thinking and reasoning – quantitative reasoning Information literacy ("be able to access and evaluative programs of diversity ("demonstrate understanding of diversity Lifelong learning ("commit themselves to lifelong Service/citizenship ("share responsibility both for regarding results and the application of results to	and speak in e intellectual be intellectual ("apply empi natefor efforty and use the g learning") r their comm	various setting ly curious"; an lly creative"; e irical dataan ective, efficien at understandin unities and for	as with a sense of purpose/audience") halyze, synthesize, evaluate) explore, discover, engage) halyze graphical information") ht, and ethical use") ht, use "') the world")
4. CLOSI	NG THE LOOP			
Were any a results repo	actions taken on the basis of assessment orted?	YES	NO_ <i>X</i> _	QUALIFIED Y/N
•	If so, do curricular or other improvements/ changes arising from assessment results			
	directly address goals for student learning?	YES	NO	OUALIFIED Y/N

Comments:

There were no comments regarding closing the loop activities.

SUMMARY

Strengths Areas for Improvement A specific plan for assessment is in place. ____ No specific plan for assessment is in place. ____ Student learning goals are not well-articulated. __X_Student learning goals are well-articulated. ____Assessment methods are clearly described. ___ Assessment methods are not clearly described. __X_ Assessment methods are not appropriately selected. ____Assessment methods are appropriately selected. ____Assessment methods are well-implemented. __X_ Assessment methods are not well-implemented. __X_ A single type of assessment methods predominates. Direct and indirect methods are implemented. __X_ No results are reported. Results are reported. __X_ Results are not clearly tied to closing the loop. Results are tied to closing the loop. (Decision-making is tied to evidence.) (Decision-making is not directly tied to evidence.)

OVERALL SUMMARY AND RECOMMENDATIONS:

The Assessment Committee doesn't usually review academic minors, however, it is pleased to know that the Department is doing some preliminary assessment planning as it moves toward offering this as an undergraduate major.

It may be helpful to consider developing rubrics for each of the student learning goals that relate to specific competencies so that whatever artifacts are assessed, better insight can be realized regarding areas for improvement. The use of student means do not provide much insight into what the students do well and what needs improvement.

MATERIALS REVIEWED

Annual lX AssessmX Previous	assessment report Report nent plan (as posted) s assessment review lease describe)		
Reviewer(s):	Name Department Phone Number e-mail	Mary K. Askim-Lovseth Marketing 777-2930 maskim@business.und.edu	Surojit Gupta Mechanical Engineering 777-1632 surojit.gupta@und.edu
	Section 2: <i>Q</i> Section 3: Section 3: Section 3: Section 3: _	ection 3:N Section 4: _	_N
Coding Key: Y	= ves this is done appropr	iately and well (hearing in min	d the kind of program(s) reviewed and recognizing
			cinds of data to be collected and analyzed in other
Q	= qualified yes as action or	r progress is apparent; however	, evidence is lacking that this is completely and

appropriately done

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

UNIVERSITY ASSESSMENT COMMITTEE

Feedback to Academic Departments on Assessment Activities Reported in _2013-14__

GRADUATE PROGRAMS

DEPARTMENTSpace Studies			_DATE	_2/4/15
PROGRAM(S) COVERED IN REVIEWM.S.				
COMMITTEE MEMBER(S) CONDUCTING REV	TEW Mary	y K. Askim-1	ovseth and	l Surojit Gupta
1. STUDENT LEARNING GOALS				
Were any goals referenced?If so, were goals well-articulated?Do goals address student learning?	YES_ <i>X</i> YES_ <i>X</i> YES_ <i>X</i>		QUALIFI	ED Y/N ED Y/N ED Y/N
Comments:				
The Department of Space Studies offers a campus and online	e Master of Sci	ence		
The Assessment Plan was updated in April 2012 with the new last review).	v student learn	ing goals of t	he program	(a recommendation of the
Student learning goals (SLG) are well written. Specific outce "background, career goals, availability of resources, and apprimary advisor. Goals related to interdisciplinary understathinking and problem solving (SLG 3) were assessed in receip projects and contribution to the project team environment, reare not consistently involved in these activities.	propriate focu anding (SLG 1) nt semesters. S	s" and detern , conceptual SLGs 5 and 6,	nined jointly understandi participatio	y by the student and his/he ng (SLG 2), and critical on in faculty research
2. ASSESSMENT METHODS				
Were any specific assessment methods referenced? • If so, were specifically chosen assessment methods appropriately aligned with individual	YES_X	NO	QUALIFI	ED Y/N
goals?	YES_ <i>X</i>	NO	QUALIFI	ED Y/N
 Were both direct and indirect assessment methods used as components of a "multiple measures" approach? 	YES	NO_X	QUALIFI	ED Y/N

Comments:

Direct assessment methods included "assessments of individual courses, independent studies, Capstone project performance and comprehensive examinations." The Assessment Plan had an alignment matrix of the assessment measures with the student learning goals. In addition, it identified specifics for the measures and a standard (>3.0). The standard was based on a rating scale of 0 to 4 that had different descriptors for the different measures. For course assessment, the independent study, and thesis committee assessment, the anchors to the scale were 'Substantially unacceptable' to Noteworthy.' The 3 rating indicated 'Good.' These measures would provide a very general assessment and would be difficult to delineate specific areas of conceptual knowledge where learning could be improved. This would also include the use of GPAs for specific courses. Regarding the comprehensive examination, the anchors were Fail' to 'Pass.' The 3 rating represented 'Pass—Low Pass.' The capstone team project had a more developed rubric with four competencies.

No indirect assessment was noted in the Annual Report though student self-assessment and a self-rating by alumni were indicated in the Assessment Plan. These were to be developed Spring 2013.

3. ASSESSMENT RESULTS

Results are tied to closing the loop. (Decision-making is tied to evidence.)

5. ABBEBBALLA REBUETS			
Were any assessment results reported?	YES_ <i>X</i>	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
• If so, were the results clear in terms of how they indicate need for improvement?	YES	NO_X	QUALIFIED Y/N
 Were the results tied to goals for student learning? 	YES_X	NO	QUALIFIED Y/N
Comments:			
Mean scores were reported for several semesters along with a composite mean), conceptual understanding (3.03), critical the and contribution to team project environment (3.00); the latter being conceptual understanding) were below the 3.0 standard understanding, critical thinking/problem solving is also assess critical thinking/problem solving has averaged 2.17 with the 42.13.	hinking/probler fr two having d. As with in tssed in the co	lem solving (2 g limited data terdisciplina omprehensive	2.95), participation in research (3.02), For AY 2013-14, four goals (exception ry understanding and conceptual exam. The mean over the semesters for
This type of data reported makes it difficult to determine any learning. For example, with critical thinking/problem solving selecting an appropriate method to solve the problem, solving higher in one area than other but that would not be depicted to	g students co g the problen	uld have diffi 1, or defendin	culty with identifying the problem, ag the solution. Competencies could be
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:			
Recommendations noted were to review the comprehensive exmeasuring student learning and to monitor the "seasonal beh pattern was noted in reporting the results).			
Determining how to assess the experiential learning goal (SL were ongoing actions to implement the Department's Assessm		veloping the s	tudent self-assessment indirect measure
SUMMARY			
Strengths		Areas	for Improvement
A specific plan for assessment is in place	Stude Asses X_ Asses A sin	ent learning g ssment metho ssment metho ssment metho	or assessment is in place. oals are not well-articulated. ods are not clearly described. ods are not appropriately selected. ods are not well-implemented. sessment methods predominates. orted.

_____ No results are reported.
___X_ Results are not clearly tied to closing the loop.

(Decision-making is not directly tied to evidence.)

OVERALL SUMMARY AND RECOMMENDATIONS:

The Space Studies Department has developed clear student learning goals for the graduate program and has used multiple direct measures to assess student learning.

Since the caliber of student performance has not improved over the last few years, it may be because the assessment data that are collected do not provide much meaningful information to make relevant closing the loop decisions. It may be helpful to consider developing rubrics for each of the student learning goals that relate to specific competencies so that whatever artifacts are assessed, better insight can be realized regarding areas for improvement. Of note is the data regarding critical thinking/problem solving. Faculty discussions regarding the steps in this process could lead to developing a different measurement tool, mapping where this skill is reinforced throughout the program, changes to curriculum, etc. The Committee looks forward to the Department's next assessment review to see how it has addressed closing the loop.

Another point to discuss would be are there any differences between the campus and online students regarding student learning outcomes. It may be worthwhile to segment the data to determine this. If differences occur, the Department is provided another distinct closing the loop opportunity.

MATERIALS	REVIEWED		
Annual :X AssessnX Previou	assessment report report nent plan (as posted) s assessment review blease describe)		
Reviewer(s):	Name Department Phone Number e-mail	Mary K. Askim-Lovseth Marketing 777-2930 maskim@business.und.edu	Surojit Gupta Mechanical Engineering 777-1632 surojit.gupta@und.edu
Section 1:Y_Coding Key:	Section 2: <i>Q</i> Sec	etion 3:Q Section 4: _	_Q
	= ves. this is done appropria	tely and well (bearing in min	d the kind of program(s) reviewed and recognizing
			ainds of data to be collected in other years)
_	= qualified yes as action or pappropriately done	progress is apparent; however	, evidence is lacking that this is completely and
		was done at all, or it is not d	one in relationship to student learning

Revised Sept 24, 2014