Developmental Studies Student Learning Report (rev. 7/14)

Fall 2014 - Spring 2015

The Department of Mathematics & Physical Sciences in the School of Mathematics Science & Health Sciences

Developmental Math and Science

Effectively assessing a degree program should address a number of factors:

- Valid student learning outcomes should be clearly articulated;
- Valid assessment measures should be used, consistent with the standards of professional practice;
- there should be evidence that instructional or assessment changes are being implemented to improve student learning There should be evidence that assessment data are being used by faculty to make necessary instructional or assessment changes; and

PART 1 (A & B)

Relationship of Degree Program Learning Outcomes to Departmental and University Missions

A. Clearly state the school, department and degree program missions.

Our mission is to ensure students develop the skills and knowledge required to achieve professional and personal goals in dynamic local and global communities.	University Mission
Central to the mission of the School of Mathematics, Science & Health Science is the preparation of students to achieve professional and personal goals in their respective disciplines and to enable their success in dynamic local and global communities. Three departments comprise this School, the	School Mission
——————————————————————————————————————	Department Mission
Our mission in Developmental Education is to ensure that skill deficient students develop the math and science skills necessary to be successful in their college-level classes to promote their future personal and professional success in their local and global communities.	Degree Program Mission

	University Mission
Departments of Biology, Health Science, and Math and Physical Science. These departments pledge to deliver existing and newly developed programs that meet student demands, and to be responsive to the evolving culture of academia in general and the sciences in particular. Our Strategy is to foster an academic setting of diverse curricula that inherently incorporates an environment of service and collegiality.	School Mission
them academically in the areas of critical thinking, analytical analyses, communication through written and graphical means, and fostering thinking in terms of processes. This mission is also focused on integrating the above skills in their daily lives within a fast changing society and technology.	Department Mission
	Degree Program Mission

Ü Clearly state school purposes, department purposes and degree program student learning outcomes. Align student learning outcomes with their appropriate school and department purposes, and these outcomes and purposes with their appropriate university commitments.

University Commitments	School Purposes	Department Purposes	Student Learning Outcomes
To provide quality associate, baccalaureate, and graduate degree opportunities and educational experiences which foster student excellence in oral and written communications, scientific reasoning and critical and creative thinking.	The School will offer developmental courses that will prepare students for college careers that will enhance their quality of life. This will be accomplished by honing and developing analytical and communication skills.	The Math and Physical Science Department will provide courses that will hone mathematical and scientific analytical skills, creative problem solving, critical thinking and data gathering as well as process thinking. These learned skills will prepare the students to be successful in college level math and science courses.	Students will demonstrate mastery of mathematic skills necessary for entry-level collegiate study. Students will demonstrate mastery of scientific principles necessary for entry-level collegiate study.
To promote an atmosphere of academic and intellectual freedom and respect for diverse expression in an environment of physical safety that is supportive of teaching and learning.			

University Assessment Committee

Through Commitments	School B.	
1		The man of the second of the s
lo provide a general liberal arts education that supports specialized		
academic programs and prepares students for lifelong learning and		
To provide students with a diverse		
innovative faculty dedicated to		
excellence in teaching, scholarly		
of programs.		
To provide university-wide student		
complement academic programs.		- Madrian - m
To support and strengthen student,		
that promote shared governance of the institution.		
To promote and encourage student, faculty, staff and community		
climate that creates opportunities for cultural, intellectual and personal		
enrichment for the University and the communities it serves.		

Discussion of Instructional Changes Resulting from 2013-2014 Developmental Studies Student Learning Report

List and discuss all instructional or assessment changes proposed in Part 5 of last year's Degree Program Student Learning Report, whether implemented or not. Any other changes or assessment activities from last year, but not mentioned in last year's report, should be discussed here as well. Emphasis should be placed on student learning and considerations such as course improvements, the assessment process, and the budget. If no changes were planned or implemented, simply state "No changes were planned or implemented."

Instructional or Assessment Changes	Changes Implemented (Y/N)	Impact of Changes on Degree Curriculum or Budget
No changes were proposed. But due to the unavailability of BIOL0123 data, the outcome		
2) Students will demonstrate mastery of scientific principles necessary for entry-level collegiate study		
has not been assessed in this report unlike in the previous year.		

Discussion of the University Assessment Committee's 2013-2014 Peer Review Report

improvement in assessment. List or accurately summarize <u>all feedback and recommendations from the committee</u>, and state whether they were implemented or will be implemented at a future date. If they were not or will not be implemented, please explain why. If no changes were recommended last year, simply state "No changes were recommended." The University Assessment Committee in its Developmental Studies Peer Review Report provided feedback and recommendations for

The UAC advocates separating assessment data by class delivery mode. Data from on-	1) The UAC advocates the use of distributional tables to report student scores. This presents a much richer picture of student achievement toward outcomes than a simple percentage of students meeting the standard. It appears that only a portion of the data was presented in this manner. Please consider making this change.	Feedback and Recommended Changes from the University Assessment Committee Developmental Math and Sciences
~	≺	Suggestions Implemented (Y/N)
Results (percentages) were given based on class delivery mode.	Distributional tables were used.	Changes that Were or Will Be Implemented, or Rationale for Changes that Were Not Implemented

		measure.
		collegiate study.
		writing skills necessary for entry-level
		SLO 2: Students will demonstrate mastery of basic
		collegiate study.
		reading skills necessary for entry-level
		SLO 1: Students will demonstrate mastery of basic
		outcome into the following two outcomes:
		to assess. Consider splitting the single learning
		 A single nebulous learning outcome is difficult
Due to unavailability of data, Developmental Reading and Writing has not been assessed in this report.	z	Developmental Reading and Writing
		ground, online, and blended courses should be reported separately.

Analysis of Evidence of Developmental Studies Student Learning Outcomes

For all student learning outcomes (as listed in Part 1 B above), describe the assessment measures and performance standards used, as well as the sampling methods and sample sizes. For each measure, document the results of the activity measured and draw relevant conclusions related to strengths and weaknesses of their performance.

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Student Learning Outcomes	Assessment Measures	Performance Standards	Sampling Methods	Sample Size (N)	Results	lts	Conclusions	Performance Standards Met (Y/N)
1) Students will	la. Posttest in	la. 65% of the	1a. Students	1a.124 Students	Posttest results:		Overall 69% of the students	la. Y
mastery of	Algebra Plus	• •	posttest in day,		% score #	%	65% or above. Out of the	
mathematic	with four		evening, and	(Online-33		0	online sections, only 61% of	
skills necessary	course	posttest will	online sections	On campus-	21-30 0	0	the students taking posttest	
for entry-level	objective areas	score at least	taught by both	91)	31-40 4	w	made 65% or above. Out of	
collegiate study.		65% on the	fulltime and	*	41-50 7	6	the on campus sections, 73%	
	Operations,	posttest.	adjunct faculty		51-64 28	23	of the students made 65% or	
	Algebraic		on all three		65-70 21	17	above. Online sections alone	
	Expressions,		campuses		70-80 36	29	did not meet the standards.	
	Algebraic		summer and		81-90 21	17		
	Equations, and		fall semesters.		91-100 7	6		
	Applications.							
	1b. Posttest in	1b. 65% of the	1b. Students	1b. 161	Posttest results:		Overall 84% of the students	1b. Y
	Intermediate		took the	students.			taking the posttest made	
	Algebra with	pretest	posttest in day,	:	% score #	%	65% or above. Out of the	
	four course	and the	evening, and	(Online 27	0-10 0	0	online sections, 67% of the	
	objective areas	posttest will	online sections	On campus-	11-20 0	0	students taking posttest	
	of Slope	score at least	taught by	134)	21-30 1	,	made 65% or above. Out of	
	&Line,	65% on the	fulltime and		31-40 4	2	the on campus sections, 87%	
	Functions,	posttest.	adjunct faculty		41-50 3	2	of the students made 65% or	
	Systems &		on all three			12	above. Both online and on	
	Equations, and		campuses		65-70 17	11	campus sections met the	
	Quadratic		summer and		71-80 43	27	standards.	
	Equations.		fall semesters		81-90 46	29		
					91-100 27	17		

			A. Student Learning Outcomes
le. Based on results in the Entry-Level Assessment Through Fall 2012. Report	course objective areas of Oder of Operations, Algebraic Expressions, Algebraic Equations, and Applications. Id. Pre/Post Test Intermediate Algebra with four course objective areas of Slope & Line, Functions, Systems & Equations, and Quadratic Equations, and Quadratic Equations.	1c. Pre/Post Test Elementary Algebra Plus with four	B. Assessment Measures
le. Students completing Elementary Algebra and enrolling in Intermediate	Elementary Algebra Plus will improve at least 30%. Id. 70% of the students taking both the pretest and the posttest in Intermediate Algebra will improve at least 30%.	1c. 70% of the students taking both the pretest and the posttest in	C. Performance Standards
1e. Student success (A, B, C) was tracked from Elementary Algebra through	taught by both fulltime and adjunct faculty on all three campuses in the summer and fall semesters. Id .Students took the posttest in day, evening, and online sections taught by fulltime and adjunct faculty on all three campuses in summer and fall semesters.	1c.Students took the posttest in day, evening, and online sections	D. Sampling Methods
le. Requiring remediation: n=117 Waived or	91) 1d. 161 students (Online 27 On campus- 134)	1c. 124 students (Online-33 On campus-	E, Sample Size (N)
le. 64% of the students completing Elementary Algebra made a C or higher in Intermediate Algebra in the Fall of 2012 compared to 54% of the students who	21-30 39 31 31-40 24 19 41-50 10 8 51-64 6 5 65-70 1 1 71-80 0 0 > 80 0 0 Id. Pretest results: 0-10 22 14 11-20 34 21 21-30 42 26 31-40 32 20 41-50 20 12 51-64 4 2 65-70 3 2 71-80 4 2 81-90 0 0 91-100 0 0	etest results re # 16 28	F. Results
vhere students remediating through Elementary Algebra improve their math skill deficiencies to such an extent that they out perform	only 52% of the students improved at least 30%. Out of the on campus sections, 79% of the students improved at least 30%. Online sections alone did not meet the standards. Id. Overall 84 % of the students taking both the pretest and the posttest improved more than 30%. Out of the online sections, 67% of the students improved at least 30%. Out of the on campus sections, 87% of the students improved at least 30%. Online sections alone did not meet the standards.	1c. Overall 72% of the students taking both the pretest and the posttest improved more than 30%. Out of the online sections,	G Conclusions
le. Y	ld, Y	Ic. Y	H. Performance Standards Met (Y/N)

		A. Student Learning Outcomes
1f. Based on results in the Entry-Level Assessment through Fall 2012. Report compiled by Office of Accountability	compiled by Office of Accountability and Academics.	B, Assessment Measures
1f. Students completing Int. Alg. And enrolling in College algebra (Math 1513) or Math for Critical Thinking (MATH 1503) in the next semester will make a grade of C or higher at the same percentage rate or higher than those students who waive/clear remediation.	Algebra will make a grade of C or higher at the same percentage rate or higher than those students who waive/clear remediation.	C. Performance Standards
1f. Student success (A, B, C) was tracked from Intermediate Algebra through both College Algebra and Math for Critical Thinking for Fall 2012 students.	Intermediate Algebra for Fall 2012 students.	D. Sampling Methods
1f. Requiring remediation: MATH 1513: n=106 MATH 1503: n=4 Waived or cleared remediation: MATH 1513: n=641 MATH 1513: n=641 MATH 1513: n=641 MATH 1503: n=41	cleared remediation: n=289	E. Sample Size (N)
1f. 49% of the students completing Intermediate Algebra made a C or higher in College Algebra in fall 2012 compared to 56% of those students who made a grade of C or better that waived or cleared remediation requirement. 100% of the students completing Intermediate Algebra made a C or higher in Math for Critical Thinking in fall 2012 compared to 49% of those students who made a grade of C or better that waived or cleared remediation requirement.	made a grade of C or better in Intermediate Algebra that waived or cleared remediation requirement.	F. Results
1f. These data continue a 9- year trend for Students in College Algebra after completing Intermediate Algebra. They are consistently performing below (about 7%) compared to those who waive or clear remediation.	on a competitive level students not requiring the first course in the remediation sequence.	G. Conclusions
lf. N		H. Performance Standards Met (Y/N)

2) Students will demonstrate mastery of scientific principles necessary for entry-level collegiate study.	A. Student Learning Outcomes
Not been assessed due to unavailability of BIOL0123 data.	B. C. Assessment Performance Measures Standards
	C. Performance Standards
	D. Sampling Methods
	E. Sample Size (N)
	F. Results
	G. Conclusions
	H. Performance Standards Met (Y/N)

Proposed Instructional Changes Based on Conclusions Drawn from Evidence Presented Above

reported in Part 4 (above) or on <u>informal activities, such as faculty meetings and discussions, conferences, pilot projects, textbook adoption, new course proposals, curriculum modifications, etc. Explain the rationale for these changes and how they will impact student learning and other considerations, such as curriculum, degree plan, assessment process, or budget. If no changes are planned, simply state "No changes</u> State any proposed instructional or assessment changes to be implemented for the next academic year. They should be based on conclusions are planned."

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No changes are planned at this point.	l O
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PART 6

Shared Pedagogical Insight that Improves Student Learning or Classroom Engagement

(OPTIONAL) If your department or a faculty member has developed a method or technique of teaching that seems especially effective in improving student learning or student engagement in the classroom, please provide a brief description below. More detail can be

communicated during the face to face peer review session. Description

PART 7 (A & B)

Assessment Measures and Faculty Participation

- A. Assessment Measures:
- How many different assessment measures were used? Three measures per course.
- <u>)</u> List the direct measures (see rubric): (1) Percentage of students passing the posttest at 65% or higher and (2) the percentage of students improving 30% from pretest to posttest in each of the three courses
- ω List the indirect measures (see rubric): Students success in subsequent college-level coursework
- Ø 1) Provide the names and signatures of all faculty members who contributed to this report and indicate their respective roles:

Dr. Suhkitha Vidurupola	Evalon St. John	Roya Namavar	Faculty Members
Math Faculty, collect data, analyze data, prepare report	Math Faculty – collect data	Math Faculty - collect data	Roles in the Assessment Process (e.g., collect data, analyze data, prepare report, review report, etc.)
Suphitha Viduoupota	deceased	Kon Ucan.	Signatures t,

2) Reviewed by:

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RUBRIC FOR STUDENT LEARNING STUDENT LEARNING REPORT

1) A. Are the school, department and program missions clearly stated?

The program, department, and school missions are clearly stated. exhibit some deficiency (e.g., a partial or brief).	Exemplary
The program, department, and school missions are stated, yet exhibit some deficiency (e.g., are partial or brief).	Established
The program, department, and school missions are incomplete and exhibit some deficiency (e.g., are partial or brief).	Developing
The program, department, and school missions are not stated.	Undeveloped

ĠΩ Are student learning outcomes and department purposes aligned with university commitments and school purposes?

Student learning outcomes and department purposes are aligned with university commitments and school purposes.	Exemplary
Student learning outcomes and department purposes demonstrate some alignment with university commitments and school purposes.	Established
Student learning outcomes and department purposes demonstrate limited alignment with university commitment and school purposes.	Developing
Student learning outcomes and department purposes do not demonstrate alignment with university commitment and school purposes.	Undeveloped

2) How well did the department incorporate instructional or assessment changes from last year's report or from other assessment activities?

No planned changes were listed, and their status or impact on curriculum or program budget was not discussed.	were impact on udget was	listed, et was	All planned changes were listed, whether they were implemented or not, and their impact on curriculum or program budget was or program budget was discussed.
Undeveloped	Developing	Established	Exemplary

ယ Did the department include peer review feedback and provide rationale for implementing or not implementing suggestions?

l	All reviewer teedback was listed,	
and for most suggestions a	listed,	Established
listed, and for some suggestions a lin	Some reviewer feedback was	Developing
included.	Feedback from reviewers was not	Undeveloped

D .
R Are the assessment measures appropriate for the student learning outcome
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Bloom's Taxonomy).

outcomes.	appropriate to the student learning appropriate to the student lea	All assessment measures are		Exemplary		B. Are the assessment incasaics after the
Outcomes.	Olophate to all ologonic services	Most assessment measure and			Established	
		appropriate to the student learning	Some assessment measures are		Developing	
	learning outcomes.	ng are appropriate to the student	Some assessment measures are Indice of the assessment measures are	Name of the assessment measures	Dildersight	Hadovoloped

Do the performance standards provide a clearly defined threshold at an acceptable level of student performance?

periorilarica.	cemplary Se standards provide ed threshold at an rel of student	C. Do the performance standa
	Established Most performance standards provide a clearly defined threshold at an acceptable level of student performance.	C. Do the performance standards provide a clearly defined ""
	Some of the performance standards provide a clearly defined threshold at an acceptable level of student performance. No performance standards provide a clearly defined threshold at an acceptable level of student performance.	
	No performance standards provide a clearly defined threshold at an acceptable level of student performance.	Windowsloped

Is the sampling method appropriate for all assessment measures?

measures.	gy is ment	D. Is the sampling memora appropriate Estab
III Gasar Gs.	The sampling methodology is appropriate for most assessment appropriate for some assessment measures.	Established Developing
	ent appropriate for none of the assessment measures.	Undeveloped

Is the sample size listed for each assessment measure?

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assessment measures.	Sample size was listed for all	
assessment measures.	Sample size was listed for most	
assessment measures.	Sample size was listed for some	
assessment measures.	Sample size was not listed for any	

F. How well do the data provide clear and meaningful overview of the results?

performance.	performance.	performance.	
an overview of student	an overview of student	an overview of student	student performance.
information was given that reveals	information was given that reveals	information was given that reveals	given that reveals an overview of
were included, and meaningful	were included, and meaningful	were included, and meaningful	and meaningful information was
more than a single year's results	more than a single year's results	more than a single year's results	single year's results were included, more than a single year's results
outcomes were the results clear,	outcomes the results were clear,	outcomes the results were clear,	the results were clear, more than a outcomes the results were clear
For none of the student learning	For some student learning	For most student learning	For all student learning outcomes
Undeveloped	Developing	Established	Exemplary

റ Are the conclusions reasonably drawn and significantly related to student learning outcomes?

Most consider an expension of the second of	Most conclusions are reasonably drawn and significantly based on the results and related to the	strengths and weaknesses in strengths and weaknesses in		All conclusions are reasonably drawn and significantly based on the results and related to the strengths and weaknesses in student performance.	Most conclusions are reasonably drawn and significantly based on the results and related to the strengths and weaknesses in student performance.	`	No conclusions are reasonab drawn and significantly based the results or related to the strengths and weaknesses in student performance.
Exemplary Established Developing Undeveloped		Most conclusions are reasonably drawn and significantly based on drawn and significantly based on the reality and related to the	Most conclusions are reasonably drawn and significantly based on the results and related to the strengths and weaknesses in	Exemplary	Established	Developing	Undeveloped

H. Does the report indicate whether the performance standards were met?

standards.	Stated for all performance	Exemplary
standards.	Stated for most performance	Established
standards.	Stated for some performance	Developing
standard.	Not stated for any performance	Undeveloped

5 adoption, new course proposals, curriculum modifications, etc. Explain the rationale for these changes and how they will impact How well supported is the rationale for making assessment or instructional changes? The justification can be based on conclusions student learning and other considerations, such as curriculum degree plan, assessment process, or budget. reported in Part 4 or on informal activities, such as faculty meetings and discussions, conferences, pilot projects, textbook

All planned changes are	Exemplary
Most planned changes are	Established
Some planned changes are	Developing
No planned changes are	Undeveloped

		explained.	
	not convincingly explained.	grounded and convincingly	and convincingly explained.
	planned changes is lacking or is	planned changes is mostly well	planned changes is well grounded
conclusio	conclusions. The rationale for	conclusions. The rationale for	conclusions. The rationale for
learning a	learning and based on the		learning and based on the
specifical	specifically focused on student	specifically focused on student	specifically focused on student

ally focused on student g and based on the sions. There is no rationale.

<u></u> Did the faculty include at least one teaching technique they believe improves student learning or student engagement in the classroom?

The faculty has included at least one teaching technique they believe improves student learning or student engagement in the classroom.	Yes
The faculty has not included any teaching techniques they believe improve student learning or student engagement in the classroom.	No

A. How well did the faculty vary the assessment measures?

Assessment measures vary and include multiple direct measures and at least one indirect measure. The number of measures is consistent with those listed.	Exemplary
Assessment measures vary, but they are all direct. The number of measures is consistent with those listed.	Established
Assessment measures do not vary or are all indirect. There is some inconsistency in the number of measures recorded and the total listed. Assessment measures are not all listed or are listed in the wrong category. The total number of measures is not consistent with those listed.	Developing
Assessment measures are not all listed or are listed in the wrong category. The total number of measures is not consistent with those listed.	Undeveloped

B. Does the list of faculty participants clearly describe their role in the assessment process?

The faculty role is clearly identified and it and it is apparent that the majority of the of the faculty participated in the process. The roles are varied. The faculty role is identified and it is apparent that the majority of the faculty participated in the process. The roles are varied.	Exemplary
İ	Established
The faculty roles are not in Few faculty participated.	Developing
dentified. The faculty roles are not identified Faculty participation is not sufficiently described to make a determination about who participated.	Undeveloped

EXPLANATION & EXAMPLES OF DIRECT AND INDIRECT EVIDENCE

Examples include: DIRECT EVIDENCE of student learning is tangible, visible, self-explanatory evidence of exactly what students have and haven't learned

- Ratings of student skills by their field experience supervisors
- Scores and pass rates on licensure/certification exams or other published tests (e.g. Major Field Tests) that assess key learning outcomes
- ω Capstone experiences such as research projects, presentations, oral defenses, exhibitions, or performances that are scored using a
- <u>400</u> Written work or performances scored using a rubric
 - Portfolios of student work.
- Scores on locally-designed tests such as final examinations in key courses, qualifying examinations, and comprehensive examinations that are accompanied by test blueprints describing what the tests assess.
- Score gains between entry and exit on published or local tests or writing samples
- Employer ratings of the skills of recent graduates.
- Summaries and analyses of electronic class discussion threads
- 2,000 Student reflections on their values, attitudes, and beliefs, if developing those are intended outcomes of the program

and less convincing. Examples include: INDIRECT EVIDENCE provides signs that students are probably learning, but the evidence of exactly what they are leaning is less clear

- Course grades.
- Assignment grades, if not accompanied by a rubric or scoring guide
- For four year programs, admission rates into graduate programs and graduation rates from those programs.
- For two year programs, admission rates into four-year institutions and graduation rates from those programs
- Placement rates of graduates into appropriate career positions and starting salaries
- **40058** Alumni perceptions of their career responsibilities and satisfaction.
 - Student ratings of their knowledge and skills and reflections on what they have learning over the course of the program.
- Those questions on end-of-course student evaluations forms that ask about the course rather than the instructor
- Student/alumni satisfaction with their learning, collected through surveys, exit interviews, or focus groups
- Honors, awards, and scholarships earned by students and alumni

Suskie, L. (2004). Assessing Student Learning: A Common Sense Guide. Anker Publishing Company: Bolton, MA

University Assessment Committee

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