2016-2017 Assessment Cycle COS_Biology MS

Mission (due 1/20/17)

University Mission

The University of Louisiana at Lafayette offers an exceptional education informed by diverse worldviews grounded in tradition, heritage, and culture. We develop leaders and innovators who advance knowledge, cultivate aesthetic sensibility, and improve the human condition.

University Values

We strive to create a community of leaders and innovators in an environment that fosters a desire to advance and disseminate knowledge. We support the mission of the university by actualizing our core values of equity, integrity, intellectual curiosity, creativity, tradition, transparency, respect, collaboration, pluralism, and sustainability.

University Vision

We strive to be included in the top 25% of our peer institutions by 2020, improving our national and international status and recognition.

College / Department / Program Mission

College Mission

Provide the college mission in the space provided. If none is available, write "None Available in 2016-2017." Our mission is to serve our students, the citizens of Louisiana, the nation, and the world, through innovative and stimulating educational experiences and compelling research initiatives that create knowledge, deepen our basic understanding of the world around us, further economic development, and enhance quality of life. In support of our mission, The College of Sciences seeks to:

Develop broad-thinking students into mature, ethical professionals, scientists, and researchers with the necessary creativity, critical thinking, and problem solving skills required to make significant contributions to industry, government, and the academic sector.

Recruit and support top-notch teaching and research faculty engaged in scientific endeavors that are recognized nationally for their relevance and impact.

Enrich scientific research and education through on-campus collaborations, multidisciplinary programs, large-scale multiinstitution initiatives, as well as partnerships with government and industry.

Foster scientific literacy within the University, the citizens of Louisiana, and the nation by providing stimulating courses for our students and by partnering with educators at the K-12 and community college level.

Provide leadership in the translation and application of research into practical solutions that will benefit our local community, the state of Louisiana, our natural environment, industries of the Gulf Coast region, and society as a whole.

The Ray P. Authement College of Sciences will emerge as a preeminent college of sciences in the Southeast and Gulf Coast region of the United States. The College will be recognized nationally for its innovative education, scholarly research activities addressing our nation's grand challenges, and for its diverse student body with exemplary academic achievements, leadership abilities, and global perspectives.

Department / Program Mission

Provide the department / program mission in the space provided. If none is available, write "None Available in 2016-2017".

The Department of Biology aims to advance scientific knowledge through research and teaching. We endeavor to train

future biologists for careers through extensive hands-on research opportunities coupled with intensive classroom instruction. We provide three avenues for advanced training and degrees in biology, with each tailored for particular types of careers. We offer non-thesis and thesis tracks for a Master of Science degree in biology, and a Doctor of Philosophy degree in environmental and evolutionary biology.

Assessment Plan (due 1/20/17)

Assessment List (Goals / Objectives, Assessment Measures and Criteria for Success)

Assessment List

Goal/Objective	All candidates in the M.S. Program will have the knowledge and skills necessary to understand research methods and results related to the student's field of specialization.			
Legends	SLO - Student Le	earning Outcome/Object	tive (academic units);	
Standards/Outcomes				
Assessment Measures				
	Assessment Measure	Criterion	Attachments	
	Direct - Written Assignment	We aim for 80% or more students to pass the proposal defense (thesis track) or written exam (non-thesis track) with a score of 8 or better.	MS_Thesis_Assessment_Rubric_A_proposal.pdf MS_NON_THESIS_Assessment_Rubric_A_comps.pdf	

Goal/Objective		All candidates in the M.S. program will have the knowledge and skills necessary to evaluate and orally discuss research results in the student's field.			
Legends	SLO - Student L	earning Outcome/O	bjective (academic units);		
Standards/Outcomes					
Assessment Measures					
	Assessment Measure	Criterion	Attachments		
	Direct - Presentation	We aim for 80% or more of M.S. students to defend their theses (thesis track) or pass their final oral exams (non-	MS_Thesis_Assessment_Rubric_B_defense.doc MS_NON_THESIS_Assessment_Rubric_B_final_exam.pdf		

thesis track) successfully with a rubric score of at least 10 or higher.	

Results & Improvements (due 9/15/17)

Results and Improvement Narratives

Assessment List Findings for the Assessment Measure level for All candidates in the M.S. Program will have the knowledge and skills necessary to understand research methods and results related to the student's field of specialization.

Goal/Objective	All candidates in the M.S. Program will have the knowledge and skills necessary to understand research methods and results related to the student's field of specialization.					
Legends	SLO - Student Learning Outcome/Objective (academic units);					
Standards/Outcomes						
Assessment Measures						
	Assessment Measure		Criterio	n		
	Direct - Written Assignment	1		for 80% or more students to written exam (non-thesis tra		
Assessment Findings	Assessment Measure	Criter	ion	Summary	Attachments of the Assessments	Improvement Narratives
	Direct - Written Assignment	aim fo or mo studer pass t propo defens (thesis or writ exam thesis with a	on We or 80% re nts to the sal se s track) tten (non- track) score r better.	To provide meaningful numbers, we report cumulative data for the past five years. From AY 2012-13 through 2016-17, we met the target of 80% or more of M.S. students earning a rubric score of at least 8 or higher in the proposal defense or comprehensive exam: 94.4% (17 out of 18) of students who were assessed surpassed the target, with an average		- Assessment Process: Continuous monitoring: We plan to work on increasing faculty compliance with assessments.

yet?	score of 10.0. We are still
Met	considering additional
	revisions of the
	assessment rubrics to
	make the results for
	thesis-track and non-
	thesis-track M.S. students
	more comparable to one
	another. In addition to
	these possible revisions
	and to accumulating
	sufficient data for
	analysis, we are currently
	working to increase
	participation in the
	assessment process.
	Independently of our
	assessment data, we
	have also been collecting
	data on the professional
	accomplishments and
	post-graduation
	employment outcomes of
	biology graduate
	students. We provide a
	summary of these findings
	below to supplement the
	regular assessment and
	to demonstrate the
	outstanding productivity
	and success of the
	biology graduate
	programs. In the calendar
	year 2016, biology
	graduate (MS & PhD
	combined) students at UL
	Lafayette published 26
	papers in peer-reviewed
	journals, submitted 9
	additional manuscripts for
	publication, and gave 103
	presentations at off-
	campus conferences or
	seminars. We have also
	assembled longer-term
	data on the employment
	outcomes of biology MS
	and PhD graduates. As of
	2016 (the most recent
	year for which we have
	analyzed data), 93% of
	biology MS graduates
	started careers in science
	following graduation and
	most continued as
	doctoral students; a
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updated in future years.		substantial proportion took jobs as field and laboratory technicians or took positions in federal or state agencies. We continue to collect data from additional years and will report new results as the data and analyses are updated in future years.	
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Assessment List Findings for the Assessment Measure level for All candidates in the M.S. program will have the knowledge and skills necessary to evaluate and orally discuss research results in the student's field.

Goal/Objective		the M.S. program vesearch results in the	vill have the knowledge a e student's field.	nd skills necessar	y to evaluate and
Legends	SLO - Student L	earning Outcome/O	bjective (academic units)	. ,	
Standards/Outcomes					
Assessment Measures					
	Assessment Measure	Criterion			
	Direct - Presentation	track) or pass t	% or more of M.S. student heir final oral exams (non at least 10 or higher.		`
Assessment Findings		Γ	1	Γ	
	Assessment Measure	Criterion	Summary	Attachments of the Assessments	Improvement Narratives
	Direct - Presentation	Has the criterion We aim for 80% or more of M.S. students to defend their theses (thesis track) or pass their final oral exams (non- thesis track) successfully with a rubric score of at least 10 or higher. been met yet? Met	To provide meaningful numbers, we report cumulative data for the past five years. With 2016-17 data added to our 5-year average (2012-13 through 2016-17), we met our target of 80% or more of M.S. students earning a rubric score of at least 10 or higher in the thesis defense (thesis track) or final oral exam (non-thesis track): 81% (17 out of		- Assessment Process: Continuous monitoring: We plan to work on increasing faculty compliance with assessments.

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21) of students who were assessed surpassed the target, with an average score of 10.8. We are still considering additional revisions to make the assessment results for thesis-track and non- thesis-track M.S. students more comparable to one another. In addition to these possible revisions and to accumulating sufficient data for analysis, we are currently working to increase participation in the assessment

Reflection (Due 9/15/17)

Reflection

1) How were assessment results shared in the unit?

Please select all that apply. If "other", please use the text box to elaborate. Distributed via email Presented formally at staff / department / committee meetings Discussed informally (selected) Other (explain in text box below)

2) How frequently were assessment results shared in the unit?

Frequently (>4 times per cycle) Periodically (2-4 times per cycle) Once per cycle (selected) Results were not shared this cycle

3) With whom were assessment results shared?

Please select all that apply. Department Head (selected) Dean / Asst. or Assoc. Dean Departmental assessment committee (selected) Other faculty / staff (selected)

4) What were the measurable or perceivable effects on your current (2016-2017) findings based on prior action plans (created in 2015-2016)?

Our previous action plan was to continue our strong graduate education as we have been doing for many years, without implementing new and unnecessary changes. Our previous results have been strong and stable, indicating that our previous action plans have been working well.

5) What has the unit learned from the current assessment cycle?

Our graduate programs are preparing students well for further graduate study and employment. Impressive student accomplishments in publishing, presenting research at conferences, and finding jobs in their fields after graduation all demonstrate that our programs are working well and do not need changes at this time.

Attachments

Attachments

Upload any supporting documents related to your assessment plans, results, or improvements. Documents may include rubrics, survey questions, reports, etc. There is no limit to the number of documents you can upload.

Click "Select File" to upload document(s)