

2016-2017 Assessment Cycle COS_Computer Science BS

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 multi-institution 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 BS in Computer Science Program supports the College of Sciences at UL Lafayette's mission by providing quality

education in computer science and by maintaining an ABET accredited program.

The Program Education Objectives (PEOs) for the Bachelor of Science in Computer Science are:

I. Our graduates will be able to apply theory, techniques, and methodologies to create computing systems that function effectively and reliably.

Outcomes: 1, 2, 3, 5 (these student learning outcomes support PEO I).

II. Our graduates will be able to work in teams, exhibit professionalism in their work, and grow professionally.

Outcomes: 4, 6, 7 (these student learning outcomes support PEO II).

III. Our graduates will be well prepared to enter a computer science graduate program or a career in computer science and have the communication and analytical skills necessary for career advancement.

Outcomes: 1,2,3,4,5,6,7 (these student learning outcomes support PEO III).

Consistency with the College's mission statement

The Program Educational Objectives directly support the College's mission statement cornerstone component "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."

Consistency with the University's mission statement

The Program Educational Objectives support the University's mission through provision of excellent undergraduate education in Computer Science. The Program is consistent with, and follows, all of the University's rules, regulations, and guidelines.

Assessment Plan (due 1/20/17)

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

Assessment List

Goal/Objective	Outcome 1: Understand and use the fundamental principles of the science of computation including those of algorithm analysis, software design, operating systems, and database.	
Legends		
Standards/Outcomes	Identifier	Description
	ABET- CAC.CS.1	Objectives and Assessments: Intent: The program has documented, measurable objectives, including expected outcomes for graduates. The program regularly assesses its progress against its objectives and uses the results of the assessments to identify program improvements and to modify the program's objectives.
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	ABET- CAC.CS.1.2	> The program's objectives must include expected outcomes for graduating students.
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	ABET- CAC.CS.1.4	> The extent to which each program objective is being met must be periodically assessed.						
	ABET- CAC.CS.1.5	> The results of the program??s periodic assessments must be used to help identify opportunities for program improvement.						
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Goal/Objective	Outcome 2: Have the ability to analyze, design, implement, and test computer systems or components.																
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	Direct - Writing Exam	Outcome 2 is assessed through courses CMPS 430, 453, and 455. In addition it is also assessed through indirect measure (graduating students survey, surveys from stakeholders). The target for outcome 2 is to achieve an average rating of 2.8 or higher out of 4.	

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Goal/Objective	Outcome 5: Possess the ability to solve problems using efficient algorithms and data structures								
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Direct - Writing Exam	Outcome 5 is measured through CMPS 450 and 455. In addition it is also assessed through indirect measure (graduating students survey, surveys from stakeholders). The target for outcome 5 is to achieve an average rating of 2.8 or higher out of 4.							

Goal/Objective	Outcome 6: Communicate effectively, both orally and in writing.																
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	Direct - Writing Exam	Outcome 6 is measured through CMPS 430, 453, and 460. In addition it is also assessed through indirect measure (graduating students survey, surveys from stakeholders). The target for outcome 6 is to achieve an average rating of 2.8 or higher out of 4 on rubric.	

Goal/Objective	Outcome 7: Work effectively, both independently and in a team.		
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Direct - Writing Exam		Outcome 7 is measured through CMPS 453, 455, and 460. In addition it is also assessed through indirect measure (graduating students survey, surveys from stakeholders). The target for outcome 7 is to achieve an average rating of 2.8 or higher out of 4 on its rubric.	

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Results & Improvements (due 9/15/17)

Results and Improvement Narratives

Assessment List Findings for the Assessment Measure level for Outcome 1: Understand and use the fundamental principles of the science of computation including those of algorithm analysis, software design, operating systems, and database.

Goal/Objective	Outcome 1: Understand and use the fundamental principles of the science of computation including those of algorithm analysis, software design, operating systems, and database.																		
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Standards/Outcomes	<table border="1"> <thead> <tr> <th>Identifier</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>ABET-CAC.CS.1</td> <td>Objectives and Assessments: Intent: The program has documented, measurable objectives, including expected outcomes for graduates. The program regularly assesses its progress against its objectives and uses the results of the assessments to identify program improvements and to modify the program's objectives.</td> </tr> <tr> <td>ABET-CAC.CS.1.1</td> <td>> The program must have documented, measurable objectives.</td> </tr> <tr> <td>ABET-CAC.CS.1.2</td> <td>> The program's objectives must include expected outcomes for graduating students.</td> </tr> <tr> <td>ABET-CAC.CS.1.3</td> <td>> Data relative to the objectives must be routinely collected and documented, and used in program assessments.</td> </tr> <tr> <td>ABET-CAC.CS.1.4</td> <td>> The extent to which each program objective is being met must be periodically assessed.</td> </tr> <tr> <td>ABET-CAC.CS.1.5</td> <td>> The results of the program's periodic assessments must be used to help identify opportunities for program improvement.</td> </tr> <tr> <td>ABET-CAC.CS.1.6</td> <td>> The results of the program's assessments and the actions taken based on the results must be documented.</td> </tr> </tbody> </table>	Identifier	Description	ABET-CAC.CS.1	Objectives and Assessments: Intent: The program has documented, measurable objectives, including expected outcomes for graduates. The program regularly assesses its progress against its objectives and uses the results of the assessments to identify program improvements and to modify the program's objectives.	ABET-CAC.CS.1.1	> The program must have documented, measurable objectives.	ABET-CAC.CS.1.2	> The program's objectives must include expected outcomes for graduating students.	ABET-CAC.CS.1.3	> Data relative to the objectives must be routinely collected and documented, and used in program assessments.	ABET-CAC.CS.1.4	> The extent to which each program objective is being met must be periodically assessed.	ABET-CAC.CS.1.5	> The results of the program's periodic assessments must be used to help identify opportunities for program improvement.	ABET-CAC.CS.1.6	> The results of the program's assessments and the actions taken based on the results must be documented.		
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Assessment Findings					
	Assessment Measure	Criterion	Summary	Attachments of the Assessments	Improvement Narratives
	Direct - Writing Exam	Has the criterion Outcome 1 is assessed through courses CMPS 340, CMPS 341, CMPS 455, and CMPS 460. In addition it is also assessed through indirect measure (graduating students survey, surveys from stakeholders). The target for outcome 1 is to achieve an average rating of 2.8 or higher out of 4. been met yet? Met	More than 70% of students achieved 'Developing', 'Developed', or 'Exemplary' grade on rubric for courses assessed.	rubricEvaluation_F16_cmps_341.docx outcome_1_and_5_CMPS_340_Fall16.xlsx	- Assessment Process: Results Discussed / Shared: The assessment committee discussed the results and shared them with faculty in computer science.

Assessment List Findings for the Assessment Measure level for Outcome 2: Have the ability to analyze, design, implement, and test computer systems or components.

Goal/Objective	Outcome 2: Have the ability to analyze, design, implement, and test computer systems or components.	
Legends	SLO - Student Learning Outcome/Objective (academic units);	
Standards/Outcomes	Identifier	Description
	ABET-CAC.CS.1	Objectives and Assessments: Intent: The program has documented, measurable objectives, including expected outcomes for graduates. The program regularly assesses its progress against its objectives and uses the results of the assessments to identify program improvements and to modify the program's objectives.

	ABET-CAC.CS.1.1	> The program must have documented, measurable objectives.												
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Assessment Measure	Criterion													
Direct - Writing Exam	Outcome 2 is assessed through courses CMPS 430, 453, and 455. In addition it is also assessed through indirect measure (graduating students survey, surveys from stakeholders). The target for outcome 2 is to achieve an average rating of 2.8 or higher out of 4.													
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Assessment Measure	Criterion	Summary	Attachments of the Assessments	Improvement Narratives										
Direct - Writing Exam	Has the criterion Outcome 2 is assessed through courses CMPS 430, 453, and 455. In addition it is also assessed through indirect measure (graduating students survey, surveys from	More than 70% of students achieved 'Developing', 'Developed, or 'Exemplary' grade on rubric for courses assessed	CMPS430_Fall2016_OutcomeEvaluation_out_2_and_out_6.xlsx	- Assessment Process: Results Discussed / Shared: The results were shared with CMPS faculty by assessment committee										

		stakeholders). The target for outcome 2 is to achieve an average rating of 2.8 or higher out of 4. been met yet? Met			
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Assessment List Findings for the Assessment Measure level for Outcome 3: Be proficient in more than one programming language on more than one computing platform.

Goal/Objective	Outcome 3: Be proficient in more than one programming language on more than one computing platform.																	
Legends	SLO - Student Learning Outcome/Objective (academic units);																	
Standards/Outcomes	<table border="1"> <thead> <tr> <th data-bbox="349 1062 540 1104">Identifier</th> <th data-bbox="540 1062 1528 1104">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="349 1104 540 1266">ABET-CAC.CS.1</td> <td data-bbox="540 1104 1528 1266">Objectives and Assessments: Intent: The program has documented, measurable objectives, including expected outcomes for graduates. The program regularly assesses its progress against its objectives and uses the results of the assessments to identify program improvements and to modify the program's objectives.</td> </tr> <tr> <td data-bbox="349 1266 540 1339">ABET-CAC.CS.1.1</td> <td data-bbox="540 1266 1528 1339">> The program must have documented, measurable objectives.</td> </tr> <tr> <td data-bbox="349 1339 540 1413">ABET-CAC.CS.1.2</td> <td data-bbox="540 1339 1528 1413">> The program's objectives must include expected outcomes for graduating students.</td> </tr> <tr> <td data-bbox="349 1413 540 1486">ABET-CAC.CS.1.3</td> <td data-bbox="540 1413 1528 1486">> Data relative to the objectives must be routinely collected and documented, and used in program assessments.</td> </tr> <tr> <td data-bbox="349 1486 540 1560">ABET-CAC.CS.1.4</td> <td data-bbox="540 1486 1528 1560">> The extent to which each program objective is being met must be periodically assessed.</td> </tr> <tr> <td data-bbox="349 1560 540 1633">ABET-CAC.CS.1.5</td> <td data-bbox="540 1560 1528 1633">> The results of the program's periodic assessments must be used to help identify opportunities for program improvement.</td> </tr> <tr> <td data-bbox="349 1633 540 1696">ABET-CAC.CS.1.6</td> <td data-bbox="540 1633 1528 1696">> The results of the program's assessments and the actions taken based on the results must be documented.</td> </tr> </tbody> </table>		Identifier	Description	ABET-CAC.CS.1	Objectives and Assessments: Intent: The program has documented, measurable objectives, including expected outcomes for graduates. The program regularly assesses its progress against its objectives and uses the results of the assessments to identify program improvements and to modify the program's objectives.	ABET-CAC.CS.1.1	> The program must have documented, measurable objectives.	ABET-CAC.CS.1.2	> The program's objectives must include expected outcomes for graduating students.	ABET-CAC.CS.1.3	> Data relative to the objectives must be routinely collected and documented, and used in program assessments.	ABET-CAC.CS.1.4	> The extent to which each program objective is being met must be periodically assessed.	ABET-CAC.CS.1.5	> The results of the program's periodic assessments must be used to help identify opportunities for program improvement.	ABET-CAC.CS.1.6	> The results of the program's assessments and the actions taken based on the results must be documented.
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Assessment Measure	Criterion																	
Direct - Writing Exam	Outcome 3 is measured through CMPS 351, CMPS 450, and CMPS 460. In addition it is also assessed through indirect measure (graduating students																	

	survey, surveys from stakeholders). The target for outcome 3 is to achieve an average rating of 2.8or higher out of 4.0.				
Assessment Findings					
	Assessment Measure	Criterion	Summary	Attachments of the Assessments	Improvement Narratives
	Direct - Writing Exam	Has the criterion Outcome 3 is measured through CMPS 351, CMPS 450, and CMPS 460. In addition it is also assessed through indirect measure (graduating students survey, surveys from stakeholders). The target for outcome 3 is to achieve an average rating of 2.8or higher out of 4.0. been met yet? Met	More than 70% of students achieved 'Developing', 'Developed', or 'Exemplary' grade on rubric for courses assessed.	outcome3_rubricEvaluation_450_F15.docx	- Assessment Process: Results Discussed / Shared: Results were discussed by assessment committee and results were shared with CMPS faculty.

Assessment List Findings for the Assessment Measure level for Outcome 4: Understand the professional, ethical, legal, and societal issues in the design and application of computer systems.

Goal/Objective	Outcome 4: Understand the professional, ethical, legal, and societal issues in the design and application of computer systems.	
Legends	SLO - Student Learning Outcome/Objective (academic units);	
Standards/Outcomes		
	Identifier	Description

	ABET- CAC.CS.1	Objectives and Assessments: Intent: The program has documented, measurable objectives, including expected outcomes for graduates. The program regularly assesses its progress against its objectives and uses the results of the assessments to identify program improvements and to modify the program's objectives.												
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Assessment Measure	Criterion													
Direct - Writing Exam	Outcome 4 is measured through CMPS 310 and CMPS 453. In addition it is also assessed through indirect measure (graduating students survey, surveys from stakeholders). The target for outcome 4 is to achieve an average rating of 2.8 or higher out of 4.													
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Assessment List Findings for the Assessment Measure level for Outcome 5: Possess the ability to solve problems using efficient algorithms and data structures

Goal/Objective	Outcome 5: Possess the ability to solve problems using efficient algorithms and data structures																																												
Legends	SLO - Student Learning Outcome/Objective (academic units);																																												
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Assessment List Findings for the Assessment Measure level for Outcome 6: Communicate effectively, both orally and in writing.

Goal/Objective	Outcome 6: Communicate effectively, both orally and in writing.																	
Legends	SLO - Student Learning Outcome/Objective (academic units);																	
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Assessment List Findings for the Assessment Measure level for Outcome 7: Work effectively, both independently and in a team.

Goal/Objective	Outcome 7: Work effectively, both independently and in a team.				
Legends	SLO - Student Learning Outcome/Objective (academic units);				
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	Assessment Measures	Assessment Measure		Criterion	
Direct - Writing Exam		Outcome 7 is measured through CMPS 453, 455, and 460. In addition it is also assessed through indirect measure (graduating students survey, surveys from stakeholders). The target for outcome 7 is to achieve an average rating of 2.8 or higher out of 4 on its rubric.			
Assessment Findings	Assessment Measure	Criterion	Summary	Attachments of the Assessments	Improvement Narratives
	Direct - Writing Exam	Has the criterion Outcome 7 is measured through CMPS 453, 455, and 460. In addition it is also assessed through indirect measure (graduating students survey, surveys from stakeholders). The target for outcome 7 is to achieve an	Not assessed this period		

		average rating of 2.8 or higher out of 4 on its rubric. been met yet?			

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 (selected)
- Presented formally at staff / department / committee meetings (selected)
- Discussed informally
- Other (explain in text box below)

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

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

3) With whom were assessment results shared?

Please select all that apply.

- Department Head
- 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)?

All goals were met.

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

The need to update rubrics from time to time in order to account for major changes such as change of a language in a course.

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)

CMPS430_Fall2016_OutcomeEvaluation_out_2_and_out_6.xlsx

CMPS_341__Fall_2016.xlsx

detailedgrades_sp16_341.xlsx

outcome_1_and_5_CMPS_340_Fall16.xlsx

rubricEvaluation_F16_cmps_341.docx

outcome3_rubricEvaluation_450_F15.docx

outcome_1_and_5_CMPS_340_Fall16.xlsx

Outcome5_rubricEvaluation_450_F15.docx