

Program Assessment Plan for Computer Science

Program Mission

The B.S. in Computer Science program contributes to the University’s goals by fostering academic excellence in computer science with emphasis on software engineering and theoretical foundations. The program prepares students for further professional development including graduate study.

Curriculum

The curriculum provides more than one opportunity for students to meet the Program Learning Objectives

Key Courses And Assignments

CMPS 490 (Plishka): i,j,k,b,c,fACM data (Bishop): hPhil 214 (Nordberg): e,gCMPS 352 (Bi): dCMPS 344 (Jackowitz): a

Program Learning Outcomes to be Assessed

PLO	ILOs to which the PLOs map
Year:	
Is the evidence Direct or Indirect	
Where in the program does the evidence reside?	
What tools are necessary to collect evidence? (Rubrics, Portfolio, Embedded Exam Questions etc.)	
Benchmarks	
ListOfSources	

Program Learning Outcomes to be Assessed

PLO	a. An ability to apply knowledge of computing and mathematics appropriate to the discipline;	ILOs to which the PLOs map	3
Year:	Year 2 AY 2015-16		
Is the evidence Direct or Indirect	Direct		
Where in the program does the evidence reside?	CMPS 344		
What tools are necessary to collect evidence? (Rubrics, Portfolio, Embedded Exam Questions etc.)	Rubric		
Benchmarks	Compared against previous data		
ListOfSources	Rubric		

Program Learning Outcomes to be Assessed

PLO	b. An ability to analyze a problem, and identify and define the computing requirements appropriate to its solution;	ILOs to which the PLOs map	3
Year:	Year 2 AY 2015-16		
Is the evidence Direct or Indirect	Direct		
Where in the program does the evidence reside?	CMPS 490		
What tools are necessary to collect evidence? (Rubrics, Portfolio, Embedded Exam Questions etc.)	Rubric		
Benchmarks	Compared against previous data		
ListOfSources	Rubric		

Program Learning Outcomes to be Assessed

PLO	k. An ability to apply design and development principles in the construction of software systems of varying complexity.	ILOs to which the PLOs map	3
Year:	Year 2 AY 2015-16		
Is the evidence Direct or Indirect	Direct		
Where in the program does the evidence reside?	CMPS 490 (advisor evaluation)		
What tools are necessary to collect evidence? (Rubrics, Portfolio, Embedded Exam Questions etc.)	Rubric		
Benchmarks	Compared against previous data		
ListOfSources	Rubric		

Program Learning Outcomes to be Assessed

PLO		ILOs to which the PLOs map	
Year:			
Is the evidence Direct or Indirect			
Where in the program does the evidence reside?			
What tools are necessary to collect evidence? (Rubrics, Portfolio, Embedded Exam Questions etc.)			
Benchmarks			
ListOfSources			

Program Learning Outcomes to be Assessed

PLO	ILOs to which the PLOs map
Year:	
Is the evidence Direct or Indirect	
Where in the program does the evidence reside?	
What tools are necessary to collect evidence? (Rubrics, Portfolio, Embedded Exam Questions etc.)	
Benchmarks	
ListOfSources	

Program Learning Outcomes to be Assessed

PLO	ILOs to which the PLOs map
Year:	
Is the evidence Direct or Indirect	
Where in the program does the evidence reside?	
What tools are necessary to collect evidence? (Rubrics, Portfolio, Embedded Exam Questions etc.)	
Benchmarks	
ListOfSources	

Program Learning Outcomes to be Assessed

PLO	ILOs to which the PLOs map
Year:	
Is the evidence Direct or Indirect	
Where in the program does the evidence reside?	
What tools are necessary to collect evidence? (Rubrics, Portfolio, Embedded Exam Questions etc.)	
Benchmarks	
ListOfSources	

Program Learning Outcomes to be Assessed

PLO	c. An ability to design, implement and evaluate a computer-based system, process, component, or program to meet	ILOs to which the PLOs map	3
Year:	Year 2 AY 2015-16		
Is the evidence Direct or Indirect	Direct		
Where in the program does the evidence reside?	CMPS 490		
What tools are necessary to collect evidence? (Rubrics, Portfolio, Embedded Exam Questions etc.)		Rubric	
Benchmarks	Compared against previous data		
ListOfSources	Rubric		

Program Learning Outcomes to be Assessed

PLO	d. An ability to function effectively on teams to accomplish a common goal;	ILOs to which the PLOs map	1
Year:	Year 2 AY 2015-16		
Is the evidence Direct or Indirect	Direct		
Where in the program does the evidence reside?	CMPS 352		
What tools are necessary to collect evidence? (Rubrics, Portfolio, Embedded Exam Questions etc.)	Rubric		
Benchmarks	Compared against previous data		
ListOfSources	Rubric		

Program Learning Outcomes to be Assessed

PLO	e. An understanding of professional, ethical, legal, security, and social issues and responsibilities;	ILOs to which the PLOs map	2
Year:	Year 2 AY 2015-16		
Is the evidence Direct or Indirect	Direct		
Where in the program does the evidence reside?	Phil 214		
What tools are necessary to collect evidence? (Rubrics, Portfolio, Embedded Exam Questions etc.)	Rubric		
Benchmarks	Compared against previous data		
ListOfSources	Rubric		

Program Learning Outcomes to be Assessed

PLO	f. An ability to communicate effectively with a range of audiences;	ILOs to which the PLOs map	1
Year:	Year 2 AY 2015-16		
Is the evidence Direct or Indirect	Direct		
Where in the program does the evidence reside?	CMPS 490		
What tools are necessary to collect evidence? (Rubrics, Portfolio, Embedded Exam Questions etc.)	Rubric		
Benchmarks	Compared against previous data		
ListOfSources	Rubric		

Program Learning Outcomes to be Assessed

PLO	g. An ability to analyze the local and global impact of computing on individuals, organizations and society;	ILOs to which the PLOs map	4
Year:	Year 2 AY 2015-16		
Is the evidence Direct or Indirect	Direct		
Where in the program does the evidence reside?	Phil 214		
What tools are necessary to collect evidence? (Rubrics, Portfolio, Embedded Exam Questions etc.)	Rubric		
Benchmarks	Compared against previous data		
ListOfSources	Rubric		

Program Learning Outcomes to be Assessed

PLO	h. Recognition of the need for, and an ability to engage in, continuing professional development;	ILOs to which the PLOs map	3
Year:	Year 2 AY 2015-16		
Is the evidence Direct or Indirect	Direct		
Where in the program does the evidence reside?	Attendance at events, club membership		
What tools are necessary to collect evidence? (Rubrics, Portfolio, Embedded Exam Questions etc.)	Rubric		
Benchmarks	Compared against previous data		
ListOfSources	Rubric		

Program Learning Outcomes to be Assessed

PLO	i. An ability to use current techniques, skills, and tools necessary for computing practices.	ILOs to which the PLOs map	3
Year:	Year 2 AY 2015-16		
Is the evidence Direct or Indirect	Direct		
Where in the program does the evidence reside?	CMPS 490 (advisor evaluation)		
What tools are necessary to collect evidence? (Rubrics, Portfolio, Embedded Exam Questions etc.)	Rubric		
Benchmarks	Compare against previous data		
ListOfSources	Rubric		

Program Learning Outcomes to be Assessed

PLO	j. An ability to apply mathematical foundations, algorithmic principles, and computer science theory in the modeling and	ILOs to which the PLOs map	3
Year:	Year 2 AY 2015-16		
Is the evidence Direct or Indirect	Direct		
Where in the program does the evidence reside?	CMPS 490 (advisor evaluation)		
What tools are necessary to collect evidence? (Rubrics, Portfolio, Embedded Exam Questions etc.)	Rubric		
Benchmarks	Compare against previous data		
ListOfSources	Rubric		