

Appendix II - Program Outcomes using the Graduating Senior Survey

Program Outcome	Survey of Computer Science Graduating Seniors							
	GOAL is 75% Strongly Agree or Agree							
		Responses	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree	
a.An ability to apply knowledge of computing and mathematics appropriate to the discipline			45.8%	33.4%	20.9%	0.0%	0.0%	
	a1. The Computer Science laboratory experiences were positive learning experiences.	12	83.3%	16.7%	0.0%	0.0%	0.0%	
	a2. How many programming languages do you feel you have a working knowledge with?	12	66.7%	83.0%	25.0%	0.0%	0.0%	
	a3. The Computer Science courses provided you with a working knowledge of at least one database, operating system, and network technology currently used in practice.	12	8.3%	50.0%	41.7%	0.0%	0.0%	
b.An ability to analyze a problem, and identify and define the computing requirements appropriate to its solution			16.7%	45.9%	20.8%	16.7%	0.0%	
	b1. The Computer Science problems and projects assigned were open ended enough to allow for variations in solution approaches.	12	16.7%	75.0%	8.3%	0.0%	0.0%	
	b2. The Computer Science courses presented problems that required you to consider hardware, software and system (databases, etc.) tradeoffs to identify a solution.	12	16.7%	16.7%	33.3%	33.3%	0.0%	
c.An ability to design, implement and evaluate a computer-based system, process, component, or program to meet desired needs			8.3%	50.0%	37.5%	4.2%	0.0%	
	c1. The Computer Science courses required you to "build" enough applications	12	8.3%	58.3%	33.3%	0.0%	0.0%	
	c3. Creativity was rewarded in Computer Science problem solutions.	12	8.3%	41.7%	41.7%	8.3%	0.0%	
d.An ability to function effectively on teams to accomplish a common goal			15.0%	40.0%	25.0%	15.0%	5.0%	
	d1. There are enough team activities in courses in the Computer Science program.	12	25.0%	33.3%	25.0%	16.7%	0.0%	
	d2. The relative participation from team members is appropriate in most cases.	12	8.3%	25.0%	41.7%	16.7%	8.3%	
	d3. You have an opportunity to practice leadership in your team experiences.	12	25.0%	50.0%	25.0%	0.0%	0.0%	
	d4. The group work was productive - compared to individual effort.	12	8.3%	41.7%	16.7%	16.7%	16.7%	
	d5. Your IPRO courses were a good team experience.	12	8.3%	50.0%	16.7%	25.0%	0.0%	
e.An understanding of professional, ethical, legal, security, and social issues and responsibilities			62.5%	20.9%	12.5%	4.2%	0.0%	
	e1. Do you belong to any professional societies in Computer Science?	12	8.3%	91.7%				
	e2. Were you encouraged by the faculty to join any professional societies?	12	41.7%	58.3%				
	e3. The coverage of ethics was adequate in your Computer Science courses.	12	25.0%	41.7%	25.0%	8.3%	0.0%	
	e4. Have you read the ACM code of ethics?	12	100.0%	0.0%	0.0%	0.0%	0.0%	

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f. An ability to communicate effectively with a range of audiences			18.2%	50.0%	13.7%	13.7%	4.6%
	f1. The Communication (C) courses required in the BS in CS degree (CS100, CS350, CS430, CS485, CS487, COM421 or COM428, and two IPROs) helped to improve your communication skills.	11	27.3%	36.4%	18.2%	9.1%	9.1%
	f4. Communication was emphasized at the correct level in the program?	11	9.1%	63.6%	9.1%	18.2%	0.0%
g. An ability to analyze the local and global impact of computing on individuals, organizations and society			24.3%	51.5%	15.2%	6.1%	3.0%
	g2. The Computer Science program helped shape your understanding of your societal responsibility.	11	27.3%	36.4%	27.3%	9.1%	0.0%
	g3. The humanities and social sciences courses that you took influenced your thinking about the role of computer science in society.	11	18.2%	54.5%	9.1%	9.1%	9.1%
	g4. Your IPROs and CS courses that you took influenced your thinking about the role of computer science in society.	11	27.3%	63.6%	9.1%	0.0%	0.0%
h. Recognition of the need for, and an ability to engage in, continuing professional development			73.3%	26.7%			
	h1. In the last year have you attended at least one lecture in the field of computer science that was not part of the curriculum?	10	50.0%	50.0%			
	h2. Have you browsed the internet or in the library for computer science information or a technical article that was not related to your classes?	10	100.0%	0.0%			
	h3. In your computer science assignments did you ever go beyond the assignment just because it interested you?	10	70.0%	30.0%			
i. An ability to use current techniques, skills, and tools necessary for computing practices.			16.7%	53.3%	16.7%	13.3%	0.0%
	i1. The use of application software tools was emphasized enough in course work.	10	10.0%	60.0%	10.0%	20.0%	0.0%
	i2. Programming was emphasized enough in your coursework, including choosing the best programming paradigm for the problem	10	40.0%	30.0%	20.0%	10.0%	0.0%
	i3. The systems developed were "real world" utilizing current technologies.	10	0.0%	70.0%	20.0%	10.0%	0.0%
j. An ability to apply mathematical foundations, algorithmic principles, and computer science theory in the modeling and design of computer-based systems in a way that demonstrates comprehension of the tradeoffs involved in design choices			35.0%	60.0%	5.0%	0.0%	0.0%
	j1. The curriculum provided an appropriate blend of theory and application.	10	40.0%	60.0%	0.0%	0.0%	0.0%

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	j2. The program improved your ability to synthesize and organize ideas, information, and experiences to be able to solve new and more-complex problems.	Responses	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree
		10	30.0%	60.0%	10.0%	0.0%	0.0%
k.An ability to apply design and development principles in the construction of software systems of varying complexity.			23.3%	56.7%	16.7%	3.3%	0.0%
	k1. Your Computer Science course containing a major design experience was challenging.	10	30.0%	50.0%	10.0%	10.0%	0.0%
	k2. Your Computer Science course containing a major design experience was relevant.	10	20.0%	50.0%	30.0%	0.0%	0.0%
	k3. Your Computer Science course containing a major design experience integrated previous learning.	10	20.0%	70.0%	10.0%	0.0%	0.0%
l.Be prepared to enter a top-ranked graduate program in Computer Science.							
	l1. Did you consider graduate school as an option after graduation?	10	90.0%	10.0%			
	l2. If yes to #1, did you apply to graduate school?	9	10.0%	90.0%			
	l3. If yes to #2, were you accepted to graduate school?	1	100.0%	0.0%			