



Appendix IV - Program Outcomes using Direct Assessment of Five Courses

Program Outcome	GOALS: We note that this rule may well be adjusted over time, but it is a starting point. For all CS 1xx or 2xx courses all assessments will have a goal of an A, B, or C for 80% of the students.						GOALS: We note that this rule may well be adjusted over time, but it is a starting point. For all CS 3xx courses, assessments will have a goal of an A, B, or C for 75% of the students.					
	CS201 Metrics	A	B	C	D	E	CS331 Metrics	A	B	C	D	E
							Project 1, Part A	63%	25%	12%	0%	0%
e. An understanding of professional, ethical, legal, security, and social issues and responsibilities												
f. An ability to communicate effectively with a range of audiences												
g. An ability to analyze the local and global impact of computing on individuals, organizations and society												
h. Recognition of the need for, and an ability to engage in, continuing professional development												
i. An ability to use current techniques, skills, and tools necessary for computing practices.												
	<b>AVERAGE</b>	<b>61%</b>	<b>30%</b>	<b>9%</b>	<b>0%</b>	<b>0%</b>						
	Lab 2 - Part 3	47%	44%	9%	0%	0%	All Labs (development environments and versid	56%	22%	16%	6%	0%
	Lab 9 - Part 1, 2	81%	16%	3%	0%	0%						
	Lab 14	53%	34%	13%	0%	0%						
	Project	63%	25%	12%	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												
	<b>AVERAGE</b>	<b>55%</b>	<b>26%</b>	<b>15%</b>	<b>4%</b>	<b>0%</b>	<b>AVERAGE</b>	<b>76%</b>	<b>7%</b>	<b>6%</b>	<b>2%</b>	<b>9%</b>
	Exam 2 - Question 2,3	47%	31%	16%	6%	0%	Exam 1 q 3	96%	0%	4%	0%	0%
	Lab 12	63%	25%	12%	0%	0%	Exam 1 q 4	52%	5%	28%	0%	15%
	Final - Question 4, 5	56%	22%	16%	6%	0%	Exam 1 q 5	93%	0%	0%	0%	7%
							Exam 1 q 6	44%	5%	10%	0%	41%



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	CS425 Metrics	Median	Mean	CS429 Metrics	Median	Mean
a. An ability to apply knowledge of computing and mathematics appropriate to the discipline	<b>AVERAGE</b>	80%	78%	<b>AVERAGE</b>	86%	79%
	home Work 2: Design	95%	89%	Exam 1 - Query Processing: Qxxxxx	100%	90%
	Exam 1: Relational Algebra	75%	75%	Exam 2 - Query Processing	83%	75%
	Exam 2: Design	78%	75%	Exam 3 - Q. processing & Ranking	75%	71%
	Exam 3: Design	71%	71%			
b. An ability to analyze a problem, and identify and define the computing requirements appropriate to its solution						
c. An ability to design, implement and evaluate a computer-based system, process, component, or program to meet desired needs	<b>AVERAGE</b>	84%	78%	<b>AVERAGE</b>	86%	73%
	Home Work 1: SQL	80%	80%	Project 1 - Preprocessing	86%	80%
	Exam 1: SQL	78%	77%	Project 1 - Indexing	90%	77%
	Exam 3: SQL	88%	75%	Project 2 - Indexing	90%	60%
	E 3: additional topics	90%	83%	Project 2 - query processing- Vector Space Mo	71%	70%
	Project	85%	77%	Project 2 - query processing- Boolean	90%	82%
				Project 2 - query processing- Probablistic	90%	73%
				Project 3 - Efficiency: Compression	85%	72%
				Project 3 - efficiency: Query Thresholding	85%	70%
d. An ability to function effectively on teams to accomplish a common goal	<b>AVERAGE</b>	85%	77%	<b>AVERAGE</b>	80%	72%

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	CS425 Metrics	Median	Mean	CS429 Metrics	Median	Mean
e. An understanding of professional, ethical, legal, security, and social issues and responsibilities	Project	85%	77%	Paper Presentation	80%	72%
f. An ability to communicate effectively with a range of audiences	<b>AVERAGE</b>	85%	77%	<b>AVERAGE</b>	80%	72%
	Project	85%	77%	Paper Presentation	80%	72%
g. An ability to analyze the local and global impact of computing on individuals, organizations and society						
h. Recognition of the need for, and an ability to engage in, continuing professional development						
i. An ability to use current techniques, skills, and tools necessary for computing practices.	<b>AVERAGE</b>	81%	78%	<b>AVERAGE</b>	86%	73%
	home Work 2: Design	95%	89%	Project 1 - Preprocessing	86%	80%
	Exam 2: Design	78%	75%	Project 1 - Indexing	90%	77%
	Exam 3: Design	71%	71%	Project 2 - Indexing	90%	60%
				Project 2 - query processing- Vector Space Mo	71%	70%
				Project 2 - query processing- Boolean	90%	82%
				Project 2 - query processing- Probablistic	90%	73%
				Project 3 - Efficiency: Compression	85%	72%
				Project 3 - efficiency: Query Thresholding	85%	70%
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	<b>AVERAGE</b>	81%	77%	<b>AVERAGE</b>	78%	70%
	home Work 2: Design	95%	89%	Project 1 - Preprocessing	86%	80%
	Exam 1: Relational Algebra	75%	75%	Project 1 - Indexing	90%	77%
	Exam 2: Design	78%	75%	Project 2 - Indexing	90%	60%
	Exam 3: Design	71%	71%	Project 2 - query processing- Vector Space Mo	71%	70%



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	For all CS 4xx courses, assessments will have a goal of an A, B or C for 70% of the students OR median and mean above 75%					
	CS485 Metrics	A	B	C	D	E
a. An ability to apply knowledge of computing and mathematics appropriate to the discipline						
b. An ability to analyze a problem, and identify and define the computing requirements appropriate to its solution						
c. An ability to design, implement and evaluate a computer-based system, process, component, or program to meet desired needs						
d. An ability to function effectively on teams to accomplish a common goal	<b>AVERAGE</b>	57%	18%	7%	5%	14%



