University of Washington, Bothell Engineering and Mathematics Term: Spring 2015

Online

Evaluation Delivery:

Evaluation Form: A

B EE 496 F Capstone Project In Electrical Engineering II Course type: Face-to-Face

Taught by: Arnie Berger, Nicole Hamilton Instructor Evaluated: Nicole Hamilton-Lecturer

Overall Summative Rating represents the combined responses of students to the four global summative items and is presented to provide an overall index of the class's quality:

Challenge and Engagement Index (CEI) combines student responses to several *IASystem* items relating to how academically challenging students found the course to be and how engaged they were:

SUMMATIVE ITEMS

	N	Excellent (5)	Very Good (4)	Good (3)	Fair (2)	Poor (1)	Very Poor (0)	Median	DECILE RANK Inst College
The course as a whole was:	3		33%	67%				3.2	1
The course content was:	3		33%	67%				3.2	0
The instructor's contribution to the course was:	3		33%	67%				3.2	0
The instructor's effectiveness in teaching the subject matter was:	3		33%	67%				3.2	1

STUDENT ENGAGEMENT

Relative	to other (ollege co	ourses you	ı have takı	en.			Much ligher (7)	(6)	(5)	Average (4)	(3)	(2)	Much Lower (1)	Median		LE RANK College
		•	this course				3	(1)	33%	(3)	67%	(3)	(2)	(1)	4.2	0	College
,	, ,	0	sented was				3	67%	0070		33%				6.8	9	
		0 1	into this co				3	33%		33%	33%				5.0	1	
			ed in this c		:		3	67%			33%			6.8	9		
Your invo etc.) was		i course (d	doing assig	nments, at	tending cla	asses,	3	33%		33%	33%		5.0				
including	attending	classes, d	s per week oing readir related wo	igs, review		his course, writing					Class r	nedia	n: 14.0	Hours	per cred	it: 4.	7 (N=3)
Under 2	2-3	1	4-5	6-7 33%	8-9	10-11		12-13		14-15 67%	16	6-17	18-	-19	20-21	22	or more
	total aver n advanci	0	above, ho	w many do	you cons	ider were					Class r	nedia	n: 14.5	Hours	per cred	it: 4.8	3 (N=3)
Under 2	2-3		4-5 33%	6-7	8-9	10-11		12-13		1 4-15 33%	16	6-17	18-	-19	20-21	22	or more 33%
What grad	de do you	expect in	this course	e?										Cla	ss media	n: 2.:	3 (N=3)
A (3.9-4.0)	A- (3.5-3.8)	B+ (3.2-3.4) 33%	B (2.9-3.1)	B- (2.5-2.8)	C+ (2.2-2.4) 33%	C (1.9-2.1) 33%	C- (1.5-1.		D+ 2-1.4)	D (0.9-1.1	D- 1) (0.7-		E (0.0)	Pas	s Cre	dit	No Credit
In regard	to your ac	ademic p	rogram, is	this course	e best desc	cribed as:											(N=3)
-	A core/distribution In your major requirement A 67%		An	elective		In your m			Ар	A program requirement 33%			Other				



Responses: 3/3 (100% very high)

Median 3.2 (0=lowest; 5=highest)

CEI: 6.0

(1=lowest; 7=highest)



STANDARD FORMATIVE ITEMS

		Excellent	Very Good	Good	Fair	Poor	Very Poor		DECILE RANK
	Ν	(5)	(4)	(3)	(2)	(1)	(0)	Median	Inst College
Course organization was:	3		33%	67%				3.2	1
Clarity of instructor's voice was:	3		33%	67%				3.2	0
Explanations by instructor were:	3		33%	33%	33%			3.0	0
Instructor's ability to present alternative explanations when needed was:	3		33%	33%	33%			3.0	0
Instructor's use of examples and illustrations was:	3		33%	67%				3.2	0
Quality of questions or problems raised by the instructor was:	3		33%	67%				3.2	0
Student confidence in instructor's knowledge was:	3		33%	67%				3.2	0
Instructor's enthusiasm was:	3		33%	67%				3.2	0
Encouragement given students to express themselves was:	3		33%	67%				3.2	0
Answers to student questions were:	3		33%	67%				3.2	0
Availability of extra help when needed was:	3		33%	67%				3.2	0
Use of class time was:	3		33%	67%				3.2	1
Instructor's interest in whether students learned was:	3		33%	33%	33%			3.0	0
Amount you learned in the course was:	3		33%	33%	33%			3.0	0
Relevance and usefulness of course content were:	3		33%	33%	33%			3.0	0
Evaluative and grading techniques (tests, papers, projects, etc.) were:	3		33%	67%				3.2	1
Reasonableness of assigned work was:	3		33%	33%	33%			3.0	0
Clarity of student responsibilities and requirements was:	3		33%	67%				3.2	1



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STANDARD OPEN-ENDED QUESTIONS

Was this class intellectually stimulating? Did it stretch your thinking? Why or why not?

Yes because we have to work on something that we might not learned from class. So, this class had to do a lot with research and critical thinking.
It did stretch my thinking by getting to design the a real world project.

What aspects of this class contributed most to your learning?

1. Engineering skills.

2. Research and how to design a system is not easy, but it is worth it if we can get that system to work.

What aspects of this class detracted from your learning?

1. -

2. Teammates didn't take serious responsibility

What suggestions do you have for improving the class?

1. - better communication between both ad visor and students - I think each quarter should have a theme for student to work on. So, we can help each other more.

2. Course evaluation for each teammate should be created to avoid one students just working on almost all tasks.

Evaluation Delivery: Online Evaluation Form: A Responses: 3/3 (100% very high)



IASystem Course Summary Reports summarize student ratings of a particular course or combination of courses. They provide a rich perspective on student views by reporting responses in three ways: as frequency distributions, average ratings, and either comparative or adjusted ratings. Remember in interpreting results that it is important to keep in mind the number of students who evaluated the course relative to the total course enrollment as shown on the upper right-hand corner of the report.

Frequency distributions. The percentage of students who selected each response choice is displayed for each item. Percentages are based on the number of students who answered the respective item rather than the number of students who evaluated the course because individual item response is optional.

Median ratings. *IASystem* reports average ratings in the form of item medians. Although means are a more familiar type of average than medians, they are less accurate in summarizing student ratings. This is because ratings distributions tend to be strongly skewed. That is, most of the ratings are at the high end of the scale and trail off to the low end.

The median indicates the point on the rating scale at which half of the students selected higher ratings, and half selected lower. Medians are computed to one decimal place by interpolation.¹ In general, higher medians reflect more favorable ratings. To interpret median ratings, compare the value of each median to the respective response scale: *Very Poor, Poor, Fair, Good, Very Good, Excellent (0-5); Never/None/Much Lower, About Half/Average, Always/Great/Much Higher (1-7); Slight, Moderate, Considerable, Extensive (1-4).*

Comparative ratings. *IASystem* provides a normative comparison for each item by reporting the decile rank of the item median. Decile ranks compare the median rating of a particular item to ratings of the same item over the previous two academic years in all classes at the institution and within the college, school, or division. Decile ranks are shown only for items with sufficient normative data.

Decile ranks range from 0 (lowest) to 9 (highest). For all items, higher medians yield higher decile ranks. The 0 decile rank indicates an item median in the lowest 10% of all scores. A decile rank of 1 indicates a median above the bottom 10% and below the top 80%. A decile rank of 9 indicates a median in the top 10% of all scores. Because average ratings tend to be high, a rating of "good" or "average" may have a low decile rank.

Adjusted ratings. Research has shown that student ratings may be somewhat influenced by factors such as class size, expected grade, and reason for enrollment. To correct for this, *IASystem* reports **adjusted medians** for summative items (items #1-4 and their combined global rating) based on regression analyses of ratings over the previous two academic years in all classes at the respective institution. If large classes at the institution tend to be rated lower than small classes, for example, the adjusted medians for large classes will be slightly higher than their unadjusted medians.

When adjusted ratings are displayed for summative items, **relative rank** is displayed for the more specific (formative) items. Rankings serve as a guide in directing instructional improvement efforts. The top ranked items (1, 2, 3, etc.) represent areas that are going well from a student perspective; whereas the bottom ranked items (18, 17, 16, etc.) represent areas in which the instructor may want to make changes. Relative ranks are computed by first standardizing each item (subtracting the overall institutional average from the item rating for the particular course, then dividing by the standard deviation of the ratings across all courses) and then ranking those standardized scores.

Challenge and Engagement Index (CEI). Several *IASystem* items ask students how academically challenging they found the course to be. *IASystem* calculates the average of these items and reports them as a single index. *The Challenge and Engagement Index (CEI)* correlates only modestly with the global rating (median of items 1-4).

Optional Items. Student responses to instructor-supplied items are summarized at the end of the evaluation report. Median responses should be interpreted in light of the specific item text and response scale used (response values 1-6 on paper evaluation forms).

¹ For the specific method, see, for example, Guilford, J.P. (1965). Fundamental statistics in psychology and education. New York: McGraw-Hill Book Company, pp. 49-53.