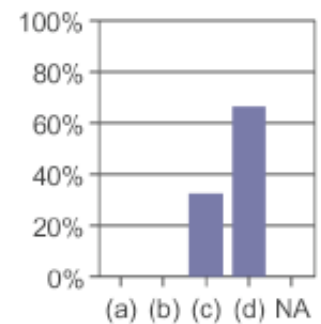# OCE - COURSE SUMMARY REPORT

Instructor 1:   Salvaggio, Carl

Course: 1051-753-01 Rs Sensors & Imag Analy

Quarter: 20072

Total responses: 3

PART 1

1) Your initial desire to take this course was: (3 answered)

option	text	number	percent
(a)	none at all	0	0.0%
(b)	slight	0	0.0%
(c)	moderate	1	33.3%
(d)	strong	2	66.7%
	Not Answered	0	0.0%

2) For your background and ability, this course was: (3 answered)

option	text	number	percent
(a)	very elementary	0	0.0%
(b)	somewhat elementary	0	0.0%
(c)	about right	3	100.0%
(d)	somewhat difficult	0	0.0%
(e)	very difficult	0	0.0%
	Not Answered	0	0.0%
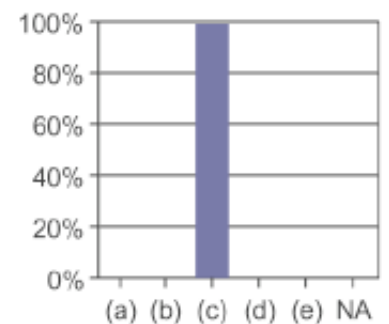
3) What grade do you expect to receive in this course? (2 answered)

option	text	number	percent
(a)	A	2	66.7%
(b)	B	0	0.0%
(c)	C	0	0.0%
(d)	D	0	0.0%
(e)	F	0	0.0%
	Not Answered	1	33.3%
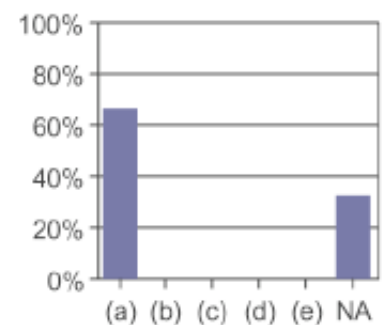
4) How concerned was the instructor that students learn? (3 answered)

option	text	number	percent
(a)	Worst possible rating	0	0.0%
(b)	Below average	0	0.0%
(c)	Average	0	0.0%
(d)	Above average	1	33.3%
(e)	Best possible rating	2	66.7%
	Not Answered	0	0.0%

5) How much did the instructor stimulate your thinking and interest in the subject? (3 answered)

option	text	number	percent
(a)	Worst possible rating	0	0.0%
(b)	Below average	0	0.0%
(c)	Average	0	0.0%
(d)	Above average	1	33.3%
(e)	Best possible rating	2	66.7%
	Not Answered	0	0.0%

6) How effective was the method of presentation of the course material? (3 answered)

option	text	number	percent
(a)	Worst possible rating	0	0.0%
(b)	Below average	0	0.0%
(c)	Average	0	0.0%
(d)	Above average	2	66.7%
(e)	Best possible rating	1	33.3%
	Not Answered	0	0.0%

7) What is your overall rating of this course? (3 answered)

option	text	number	percent
(a)	Worst possible rating	0	0.0%
(b)	Below average	0	0.0%
(c)	Average	0	0.0%

(d)	Above average	2	66.7%
(e)	Best possible rating	1	33.3%
	Not Answered	0	0.0%

8) What is your overall rating of this instructor? (3 answered)

option	text	number	percent
(a)	Worst possible rating	0	0.0%
(b)	Below average	0	0.0%
(c)	Average	0	0.0%
(d)	Above average	1	33.3%
(e)	Best possible rating	2	66.7%
	Not Answered	0	0.0%

9) In general, were the laboratory experiments of value either in developing techniques and experience or in contributing to understanding the subject? (3 answered)

option	text	number	percent
(a)	Of little value.	0	0.0%
(b)	Somewhat valuable.	0	0.0%
(c)	Moderately valuable.	0	0.0%
(d)	Very valuable.	2	66.7%
(e)	Extremely valuable.	1	33.3%
	Not Answered	0	0.0%

10) Concerning the organization of the laboratory, the materials, supplies, and room were usually: (3 answered)

option	text	number	percent
(a)	Extremely disorganized and inadequate.	0	0.0%
(b)	Poorly organized and barely adequate.	0	0.0%
(c)	Moderately organized and adequate.	0	0.0%
(d)	Well organized and more than adequate.	2	66.7%
(e)	Extremely well organized and excellent.	1	33.3%
	Not Answered	0	0.0%

11) Your instructor would like to know what you think s/he has done especially well in teaching this course. (3 answered)

- Course was well designed, text is easy-to-read and beneficial. Tests/assignments were very fair

- Articulated well the subject at hand. Covered the subject at several perspectives and also shared personal experiences on the matter. Provided ample time to complete course work. ENVI / based presentations are very welcomed.

- Good real-life examples from experience in field. Very well-prepared to teach every day even though the slides were made by the regular course instructor. Very knowledgable about all software (e.g., ENVI, MODTRAN) used in the course.

12) Your instructor would like to know what should be done to improve the teaching of this course. (2 answered)

- Nothing much at all. More entertaining examples, if time permitted.

- The three labs were challenging and took a good deal of time to complete each report, yet the low grade weight (5% each) was less than a single exam question (28.3% total for a 4- or 5-question exam). Suggest increasing the report grade weights to at least 10% in the future.
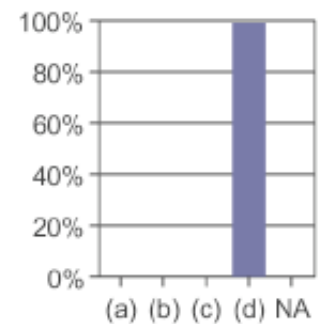
OCE - COURSE SUMMARY REPORT

Instructor 1:   Salvaggio, Carl

Course: 1051-753-90 Rs Sensors & Imag Analy

Quarter: 20072

Total responses: 1

PART 1

1) Your initial desire to take this course was: (1 answered)

option	text	number	percent
(a)	none at all	0	0.0%
(b)	slight	0	0.0%
(c)	moderate	0	0.0%
(d)	strong	1	100.0%
	Not Answered	0	0.0%

2) For your background and ability, this course was: (1 answered)

option	text	number	percent
(a)	very elementary	0	0.0%
(b)	somewhat elementary	0	0.0%
(c)	about right	1	100.0%
(d)	somewhat difficult	0	0.0%
(e)	very difficult	0	0.0%
	Not Answered	0	0.0%
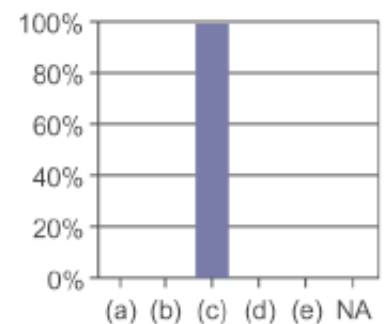
3) What grade do you expect to receive in this course? (1 answered)

option	text	number	percent
(a)	A	0	0.0%
(b)	B	1	100.0%
(c)	C	0	0.0%
(d)	D	0	0.0%
(e)	F	0	0.0%
	Not Answered	0	0.0%
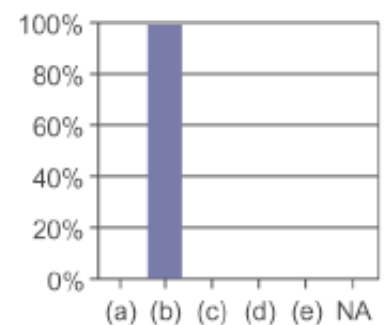
4) How concerned was the instructor that students learn? (1 answered)

option	text	number	percent
(a)	Worst possible rating	0	0.0%
(b)	Below average	0	0.0%
(c)	Average	0	0.0%
(d)	Above average	0	0.0%
(e)	Best possible rating	1	100.0%
	Not Answered	0	0.0%

5) How much did the instructor stimulate your thinking and interest in the subject? (1 answered)

option	text	number	percent
(a)	Worst possible rating	0	0.0%
(b)	Below average	0	0.0%
(c)	Average	0	0.0%
(d)	Above average	1	100.0%
(e)	Best possible rating	0	0.0%
	Not Answered	0	0.0%

6) How effective was the method of presentation of the course material? (1 answered)

option	text	number	percent
(a)	Worst possible rating	0	0.0%
(b)	Below average	0	0.0%
(c)	Average	0	0.0%
(d)	Above average	1	100.0%
(e)	Best possible rating	0	0.0%
	Not Answered	0	0.0%

7) What is your overall rating of this course? (1 answered)

option	text	number	percent
(a)	Worst possible rating	0	0.0%
(b)	Below average	0	0.0%
(c)	Average	0	0.0%

(d)	Above average	1	100.0%
(e)	Best possible rating	0	0.0%
	Not Answered	0	0.0%

8) What is your overall rating of this instructor? (1 answered)

option	text	number	percent
(a)	Worst possible rating	0	0.0%
(b)	Below average	0	0.0%
(c)	Average	0	0.0%
(d)	Above average	1	100.0%
(e)	Best possible rating	0	0.0%
	Not Answered	0	0.0%

9) In general, were the laboratory experiments of value either in developing techniques and experience or in contributing to understanding the subject? (1 answered)

option	text	number	percent
(a)	Of little value.	0	0.0%
(b)	Somewhat valuable.	0	0.0%
(c)	Moderately valuable.	0	0.0%
(d)	Very valuable.	1	100.0%
(e)	Extremely valuable.	0	0.0%
	Not Answered	0	0.0%

10) Concerning the organization of the laboratory, the materials, supplies, and room were usually: (1 answered)

option	text	number	percent
(a)	Extremely disorganized and inadequate.	0	0.0%
(b)	Poorly organized and barely adequate.	0	0.0%
(c)	Moderately organized and adequate.	1	100.0%
(d)	Well organized and more than adequate.	0	0.0%
(e)	Extremely well organized and excellent.	0	0.0%
	Not Answered	0	0.0%

11) Your instructor would like to know what you think s/he has done especially well in teaching this course. (0 answered)

12) Your instructor would like to know what should be done to improve the teaching of this course. (0 answered)

OCE - COURSE DETAIL REPORT

20112 1051-762-01 Remote Sens & Imag Analy

Instructor: Salvaggio, Carl

Department Template #206

order	number	question	20112 Results					Cumulative Results			
			section	course	instructor	department	college	course	instructor	department	college
1.	967 MC	Your initial desire to take this course was:									
		number of responses (N)	7	9	9	162	165	47	232	2711	2898
	1.	none at all	0 (0.0%)	0 (0.0%)	0 (0.0%)	4 (2.5%)	4 (2.4%)	0 (0.0%)	13 (5.6%)	129 (4.8%)	131 (4.5%)
	2.	slight	0 (0.0%)	0 (0.0%)	0 (0.0%)	18 (11.1%)	18 (10.9%)	2 (4.3%)	16 (6.9%)	411 (15.2%)	413 (14.3%)
	3.	moderate	3 (42.9%)	4 (44.4%)	4 (44.4%)	65 (40.1%)	65 (39.4%)	14 (29.8%)	75 (32.3%)	1099 (40.5%)	1141 (39.4%)
	4.	strong	4 (57.1%)	5 (55.6%)	5 (55.6%)	75 (46.3%)	78 (47.3%)	31 (66.0%)	128 (55.2%)	1072 (39.5%)	1213 (41.9%)
2.	968 MC	For your background and ability, this course was:									
		number of responses (N)	8	10	10	167	170	48	234	2719	2907
	1.	very elementary	0 (0.0%)	0 (0.0%)	0 (0.0%)	7 (4.2%)	7 (4.1%)	0 (0.0%)	8 (3.4%)	128 (4.7%)	130 (4.5%)
	2.	somewhat elementary	0 (0.0%)	0 (0.0%)	0 (0.0%)	16 (9.6%)	16 (9.4%)	1 (2.1%)	11 (4.7%)	324 (11.9%)	329 (11.3%)
	3.	about right	6 (75.0%)	8 (80.0%)	8 (80.0%)	90 (53.9%)	92 (54.1%)	34 (70.8%)	141 (60.3%)	1440 (53.0%)	1557 (53.6%)
	4.	somewhat difficult	2 (25.0%)	2 (20.0%)	2 (20.0%)	39 (23.4%)	40 (23.5%)	11 (22.9%)	50 (21.4%)	621 (22.8%)	671 (23.1%)
	5.	very difficult	0 (0.0%)	0 (0.0%)	0 (0.0%)	15 (9.0%)	15 (8.8%)	2 (4.2%)	24 (10.3%)	206 (7.6%)	220 (7.6%)
3.	969 MC	What grade do you expect to receive in this course?									
		number of responses (N)	7	9	9	160	163	46	220	2533	2709
	1.	A	5 (71.4%)	5 (55.6%)	5 (55.6%)	89 (55.6%)	92 (56.4%)	26 (56.5%)	132 (60.0%)	1364 (53.8%)	1501 (55.4%)
	2.	B	1 (14.3%)	3 (33.3%)	3 (33.3%)	58 (36.3%)	58 (35.6%)	19 (41.3%)	68 (30.9%)	933 (36.8%)	970 (35.8%)
	3.	C	1 (14.3%)	1 (11.1%)	1 (11.1%)	10 (6.3%)	10 (6.1%)	1 (2.2%)	17 (7.7%)	204 (8.1%)	206 (7.6%)
	4.	D	0 (0.0%)	0 (0.0%)	0 (0.0%)	3 (1.9%)	3 (1.8%)	0 (0.0%)	3 (1.4%)	30 (1.2%)	30 (1.1%)
	5.	F	0 (0.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	2 (0.1%)	2 (0.1%)
4.	977 LS	How concerned was the instructor that students learn?									
		number of responses (N)	8	10	10	168	171	48	233	2730	2917
	1.	Worst possible rating	0 (0.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	25 (0.9%)	25 (0.9%)
	2.	Below average	0 (0.0%)	0 (0.0%)	0 (0.0%)	7 (4.2%)	7 (4.1%)	2 (4.2%)	1 (0.4%)	107 (3.9%)	114 (3.9%)
	3.	Average	0 (0.0%)	0 (0.0%)	0 (0.0%)	27 (16.1%)	27 (15.8%)	7 (14.6%)	13 (5.6%)	527 (19.3%)	546 (18.7%)
	4.	Above average	2 (25.0%)	3 (30.0%)	3 (30.0%)	59 (35.1%)	59 (34.5%)	16 (33.3%)	57 (24.5%)	938 (34.4%)	996 (34.1%)
	5.	Best possible rating	6 (75.0%)	7 (70.0%)	7 (70.0%)	75 (44.6%)	78 (45.6%)	23 (47.9%)	162 (69.5%)	1133 (41.5%)	1236 (42.4%)
5.	978 LS	How much did the instructor stimulate your thinking and interest in the subject?									
		number of responses (N)	8	10	10	168	171	47	233	2726	2913
	1.	Worst possible rating	0 (0.0%)	0 (0.0%)	0 (0.0%)	4 (2.4%)	4 (2.3%)	0 (0.0%)	0 (0.0%)	56 (2.1%)	59 (2.0%)
	2.	Below average	0 (0.0%)	0 (0.0%)	0 (0.0%)	14 (8.3%)	14 (8.2%)	0 (0.0%)	6 (2.6%)	213 (7.8%)	219 (7.5%)
	3.	Average	1 (12.5%)	1 (10.0%)	1 (10.0%)	34 (20.2%)	34 (19.9%)	8 (17.0%)	20 (8.6%)	602 (22.1%)	633 (21.7%)

		Col1	Col2	Col3	Col4	Col5	Col6	Col7	Col8	Col9
4.	Above average	1 (12.5%)	2 (20.0%)	2 (20.0%)	54 (32.1%)	55 (32.2%)	16 (34.0%)	56 (24.0%)	868 (31.8%)	925 (31.8%)
5.	Best possible rating	6 (75.0%)	7 (70.0%)	7 (70.0%)	62 (36.9%)	64 (37.4%)	23 (48.9%)	151 (64.8%)	987 (36.2%)	1077 (37.0%)

6. 979 LS How effective was the method of presentation of the course material?

		Col1	Col2	Col3	Col4	Col5	Col6	Col7	Col8	Col9
	number of responses (N)	8	10	10	166	169	47	232	2716	2901
1.	Worst possible rating	0 (0.0%)	0 (0.0%)	0 (0.0%)	6 (3.6%)	6 (3.6%)	0 (0.0%)	0 (0.0%)	84 (3.1%)	85 (2.9%)
2.	Below average	0 (0.0%)	0 (0.0%)	0 (0.0%)	20 (12.0%)	20 (11.8%)	2 (4.3%)	8 (3.4%)	340 (12.5%)	351 (12.1%)
3.	Average	1 (12.5%)	2 (20.0%)	2 (20.0%)	42 (25.3%)	43 (25.4%)	9 (19.1%)	37 (15.9%)	716 (26.4%)	756 (26.1%)
4.	Above average	5 (62.5%)	6 (60.0%)	6 (60.0%)	43 (25.9%)	44 (26.0%)	19 (40.4%)	78 (33.6%)	780 (28.7%)	829 (28.6%)
5.	Best possible rating	2 (25.0%)	2 (20.0%)	2 (20.0%)	55 (33.1%)	56 (33.1%)	17 (36.2%)	109 (47.0%)	796 (29.3%)	880 (30.3%)

7. 980 LS What is your overall rating of this course?

		Col1	Col2	Col3	Col4	Col5	Col6	Col7	Col8	Col9
	number of responses (N)	8	10	10	168	171	48	232	2730	2917
1.	Worst possible rating	0 (0.0%)	0 (0.0%)	0 (0.0%)	5 (3.0%)	5 (2.9%)	0 (0.0%)	1 (0.4%)	51 (1.9%)	51 (1.7%)
2.	Below average	0 (0.0%)	0 (0.0%)	0 (0.0%)	11 (6.5%)	11 (6.4%)	2 (4.2%)	4 (1.7%)	221 (8.1%)	229 (7.9%)
3.	Average	1 (12.5%)	2 (20.0%)	2 (20.0%)	37 (22.0%)	37 (21.6%)	8 (16.7%)	31 (13.4%)	708 (25.9%)	737 (25.3%)
4.	Above average	5 (62.5%)	6 (60.0%)	6 (60.0%)	57 (33.9%)	59 (34.5%)	20 (41.7%)	78 (33.6%)	912 (33.4%)	977 (33.5%)
5.	Best possible rating	2 (25.0%)	2 (20.0%)	2 (20.0%)	58 (34.5%)	59 (34.5%)	18 (37.5%)	118 (50.9%)	838 (30.7%)	923 (31.6%)

8. 981 LS What is your overall rating of this instructor?

		Col1	Col2	Col3	Col4	Col5	Col6	Col7	Col8	Col9
	number of responses (N)	8	10	10	169	172	48	230	2719	2906
1.	Worst possible rating	0 (0.0%)	0 (0.0%)	0 (0.0%)	4 (2.4%)	4 (2.3%)	0 (0.0%)	0 (0.0%)	45 (1.7%)	45 (1.5%)
2.	Below average	0 (0.0%)	0 (0.0%)	0 (0.0%)	10 (5.9%)	10 (5.8%)	0 (0.0%)	2 (0.9%)	147 (5.4%)	155 (5.3%)
3.	Average	0 (0.0%)	0 (0.0%)	0 (0.0%)	26 (15.4%)	26 (15.1%)	6 (12.5%)	15 (6.5%)	539 (19.8%)	559 (19.2%)
4.	Above average	3 (37.5%)	4 (40.0%)	4 (40.0%)	52 (30.8%)	53 (30.8%)	19 (39.6%)	47 (20.4%)	835 (30.7%)	892 (30.7%)
5.	Best possible rating	5 (62.5%)	6 (60.0%)	6 (60.0%)	77 (45.6%)	79 (45.9%)	23 (47.9%)	166 (72.2%)	1153 (42.4%)	1255 (43.2%)

9. 984 LS In general, were the laboratory experiments of value either in developing techniques and experience or in contributing to understanding the subject?

		Col1	Col2	Col3	Col4	Col5	Col6	Col7	Col8	Col9
	number of responses (N)	7	9	9	114	117	45	130	1778	1882
1.	Of little value.	0 (0.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	1 (0.8%)	76 (4.3%)	77 (4.1%)
2.	Somewhat valuable.	0 (0.0%)	1 (11.1%)	1 (11.1%)	9 (7.9%)	9 (7.7%)	4 (8.9%)	6 (4.6%)	210 (11.8%)	211 (11.2%)
3.	Moderately valuable.	1 (14.3%)	2 (22.2%)	2 (22.2%)	25 (21.9%)	25 (21.4%)	8 (17.8%)	13 (10.0%)	442 (24.9%)	449 (23.9%)
4.	Very valuable.	5 (71.4%)	5 (55.6%)	5 (55.6%)	35 (30.7%)	37 (31.6%)	25 (55.6%)	44 (33.8%)	564 (31.7%)	598 (31.8%)
5.	Extremely valuable.	1 (14.3%)	1 (11.1%)	1 (11.1%)	45 (39.5%)	46 (39.3%)	8 (17.8%)	66 (50.8%)	486 (27.3%)	547 (29.1%)

10. 986 LS Concerning the organization of the laboratory, the materials, supplies, and room were usually:

		Col1	Col2	Col3	Col4	Col5	Col6	Col7	Col8	Col9
	number of responses (N)	7	8	8	110	112	37	101	1661	1772
1.	Extremely disorganized and inadequate.	0 (0.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	28 (1.7%)	28 (1.6%)
2.	Poorly organized and barely adequate.	0 (0.0%)	0 (0.0%)	0 (0.0%)	2 (1.8%)	2 (1.8%)	0 (0.0%)	1 (1.0%)	111 (6.7%)	115 (6.5%)
3.	Moderately organized and adequate.	2 (28.6%)	3 (37.5%)	3 (37.5%)	25 (22.7%)	25 (22.3%)	14 (37.8%)	19 (18.8%)	496 (29.9%)	513 (29.0%)
4.	Well organized and more than adequate.	3 (42.9%)	3 (37.5%)	3 (37.5%)	38 (34.5%)	40 (35.7%)	18 (48.6%)	33 (32.7%)	604 (36.4%)	642 (36.2%)
5.	Extremely well organized and excellent.	2 (28.6%)	2 (25.0%)	2 (25.0%)	45 (40.9%)	45 (40.2%)	5 (13.5%)	48 (47.5%)	422 (25.4%)	474 (26.7%)

Responses to open-ended questions

11. 975 OE Your instructor would like to know what you think s/he has done especially well in teaching this course.

The stories were great, and you did a great job of using your own experience to give examples about how/why the techniques we were learning were useful. I liked that the labs gave a general feel for the programs we'll likely be using in our research. I would have liked to see a little about DIRSIG, because so many research topics revolve around it, but nobody really knows anything about it other than that it's some sort of simulator... thing. Also, thank you for being very approachable, understanding, and easy to talk to/ask questions.

Carl is very nice and patient instructor.

Use of live drawings and derivations of equations was extremely helpful when done. Emphasis on fundamental understanding of the radiometric equation rather than a straight memorization approach was very helpful.

The instructor's explanations were very clear, and the examples drawn using the on-screen whiteboard were helpful. The instructor provided a great deal of enthusiasm for the material, which ensured that the students were always engaged and eager to learn. I would be interested in taking further courses with this instructor.

Carl is the best professor I've ever had the privilege of taking a class with. He is passionate about the course and comes to class prepared to

discuss the material. Class is often an open dialogue because the class asks intelligent questions throughout lectures. I found it refreshing that Carl gave thoughtful and meaningful responses to all questions. I'm disappointed that Carl isn't teaching Remote Sensing 2 or DIP next quarter.

12.	976 OE	Your instructor would like to know what should be done to improve the teaching of this course.

Doing example problems even once would probably be a huge help. Because so many professors have been switched around this quarter, some students are reluctant to study past exams. I've seen some student get burned by doing that. I don't like that the only way to do well on the exams for this class was to basically see the questions beforehand, which is what happens when students study exclusively the past exams. Also, I would like it if the labs were worth more than 5% each. Because exams were the same day as the lab due dates, I know several student who half-assed labs at the last minute because they wanted to focus on the exams. And the labs say more about what students are learning than the exams, which really only show how well we can gather and look at past exams from older students. Sorry this came out a little bitter, it was a great course, and I earned a low grade by my own screw-ups, but I don't feel like the grades reflect well on what students have learned. I know students (not myself) who studied for days, but didn't focus on past exams, and I know students who studied past exams for a day, and I can guess who got better grades. That bugs me.

maybe could give students some questions or problems to think about for further understanding this course every week?

The hand outs of labs were sometimes very abstract and hard to follow. Consider the fact that I never used Modtran and ENVI, I had a very hard time to go through all the process of the last two labs.

Recommend that distribution of grades be weighted more toward the labs. They required a lot more work and effort than their grade weighting would seem to indicate. There were some good learning points in portions of the lab. However it was tempting at times to glaze over them simply due to the trade off of time and importance. This also goes to the conflict faced with having exams and labs due within days of each other. Numerical problem sets, or sample calculations would be extremely helpful in the manner that radiometry was done. They need not be homework, but are very helpful as being confirmation of understanding of the material which is only presented as theory. Powerpoint as a standard for mathematically intensive courses should be revisited. It is often times difficult to follow mathematical derivations and discussions that span several pages of slides. Flashing back and forth between them is often not as helpful as having all the material on one page. I would personally prefer to see these written out using the tablet and made available to students as reference material.

The grading scheme seemed a bit skewed, given the importance of the lab material and the amount of time required to fully understand the material and complete the laboratory. Increasing the lab grade to greater than 15% would be appropriate in future years.

I have no complaints or suggestions.

13.	1611 OE	In what ways did the content of this course build on or integrate material from previous or prerequisite courses in the curriculum?

It didn't, but this class was very different from past courses.

has many to do with dim and dip. Actually it does not require too much to take this course.

This built on the material from radiometry and integrated concepts from digital imaging mathematics and expanded the complexity of radiometric propagation and experimental methods of extracting useful information.

Radiometry was essential to the understanding of this course. The review of Radiometry at the beginning of the course was very helpful in ensuring that everyone had a good understanding of the material before we progressed further.

The first 2/3 of the course build on material from Radiometry. The final third of the course touches on the same material as in DIM (specifically PCA).

OCE - COURSE SUMMARY REPORT

Instructor 1:   Salvaggio, Carl

Course: 1051-762-01 Remote Sens & Imag Analy

Quarter: 20112

Total responses: 8

PART 1

Your evaluation of this course is an important means of collecting data for use in improving teaching in the Center for Imaging Science. Please read the questions carefully and answer them honestly. Your thoughtful answers will be valuable to instructors and administrators. This evaluation is completely anonymous. Results will be compiled after grades have been submitted at the end of this quarter.

Section One: Student Data

1) Your initial desire to take this course was: (7 answered)

option	text	number	percent
(a)	none at all	0	0.0%
(b)	slight	0	0.0%
(c)	moderate	3	37.5%
(d)	strong	4	50.0%
	Not Answered	1	12.5%
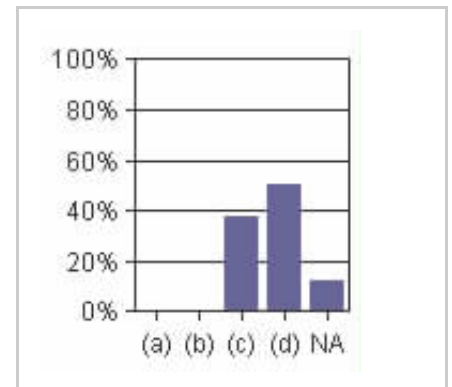
2) For your background and ability, this course was: (8 answered)

option	text	number	percent
(a)	very elementary	0	0.0%
(b)	somewhat elementary	0	0.0%
(c)	about right	6	75.0%
(d)	somewhat difficult	2	25.0%
(e)	very difficult	0	0.0%
	Not Answered	0	0.0%
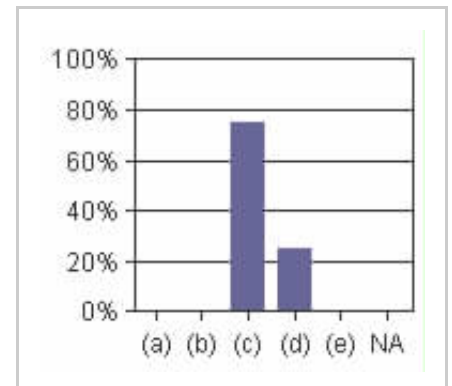
3) What grade do you expect to receive in this course? (7 answered)

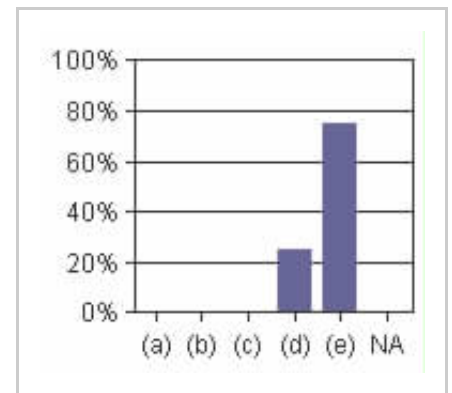| option	text	number	percent

(a)	A	5	62.5%
(b)	B	1	12.5%
(c)	C	1	12.5%
(d)	D	0	0.0%
(e)	F	0	0.0%
	Not Answered	1	12.5%
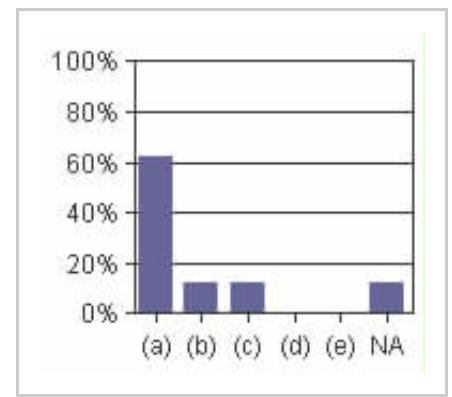
Section Two: General Questions

4) How concerned was the instructor that students learn? (8 answered)

option	text	number	percent
(a)	Worst possible rating	0	0.0%
(b)	Below average	0	0.0%
(c)	Average	0	0.0%
(d)	Above average	2	25.0%
(e)	Best possible rating	6	75.0%
	Not Answered	0	0.0%

5) How much did the instructor stimulate your thinking and interest in the subject? (8 answered)

option	text	number	percent
(a)	Worst possible rating	0	0.0%
(b)	Below average	0	0.0%
(c)	Average	1	12.5%
(d)	Above average	1	12.5%
(e)	Best possible rating	6	75.0%
	Not Answered	0	0.0%
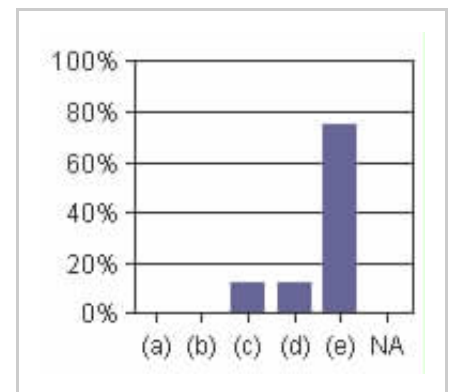
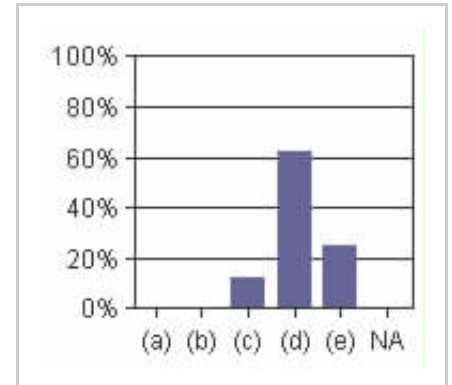**6) How effective was the method of presentation of the course material? (8 answered)**

option	text	number	percent
(a)	Worst possible rating	0	0.0%
(b)	Below average	0	0.0%
(c)	Average	1	12.5%

(d)	Above average	5	62.5%
(e)	Best possible rating	2	25.0%
	Not Answered	0	0.0%
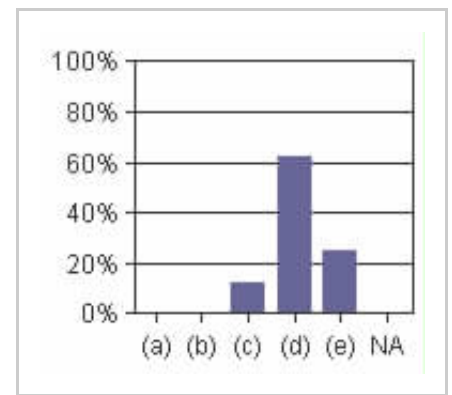
7) What is your overall rating of this course? (8 answered)			
option	text	number	percent
(a)	Worst possible rating	0	0.0%
(b)	Below average	0	0.0%
(c)	Average	1	12.5%
(d)	Above average	5	62.5%
(e)	Best possible rating	2	25.0%
	Not Answered	0	0.0%

| 8) What is your overall rating of this instructor? (8 answered)			
option	text	number	percent
(a)	Worst possible rating	0	0.0%
(b)	Below average	0	0.0%
(c)	Average	0	0.0%
(d)	Above average	3	37.5%
(e)	Best possible rating	5	62.5%
	Not Answered	0	0.0%
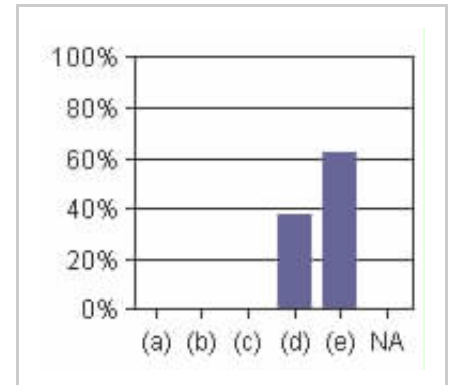
Section Three: Laboratory

| 9) In general, were the laboratory experiments of value either in developing techniques and experience or in contributing to understanding the subject? (7 answered)			
option	text	number	percent
(a)	Of little value.	0	0.0%
(b)	Somewhat valuable.	0	0.0%
(c)	Moderately valuable.	1	12.5%

(d)	Very valuable.	5	62.5%
(e)	Extremely valuable.	1	12.5%
	Not Answered	1	12.5%
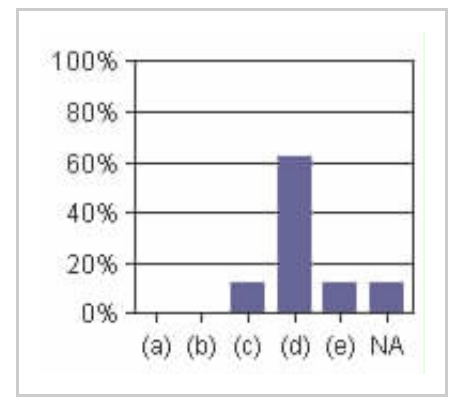
10) Concerning the organization of the laboratory, the materials, supplies, and room were usually: (7 answered)

option	text	number	percent
(a)	Extremely disorganized and inadequate.	0	0.0%
(b)	Poorly organized and barely adequate.	0	0.0%
(c)	Moderately organized and adequate.	2	25.0%
(d)	Well organized and more than adequate.	3	37.5%
(e)	Extremely well organized and excellent.	2	25.0%
	Not Answered	1	12.5%
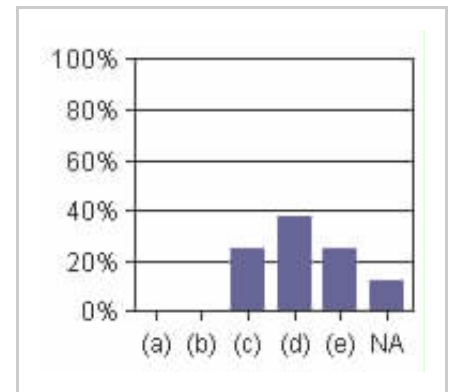
Section Four: Comments

11) Your instructor would like to know what you think s/he has done especially well in teaching this course. (5 answered)

- Carl is the best professor I've ever had the privilege of taking a class with. He is passionate about the course and comes to class prepared to discuss the material. Class is often an open dialogue because the class asks intelligent questions throughout lectures. I found it refreshing that Carl gave thoughtful and meaningful responses to all questions. I'm disappointed that Carl isn't teaching Remote Sensing 2 or DIP next quarter.

- Use of live drawings and derivations of equations was extremely helpful when done. Emphasis on fundamental understanding of the radiometric equation rather than a straight memorization approach was very helpful.

- The stories were great, and you did a great job of using your own experience to give examples about how/why the techniques we were learning were useful. I liked that the labs gave a general feel for the programs we'll likely be using in our research. I would have liked to see a little about DIRSIG, because so many research topics revolve around it, but nobody really knows anything about it other than that it's some sort of simulator... thing. Also, thank you for being very approachable, understanding, and easy to talk to/ask questions.

- Carl is very nice and patient instructor.

- The instructor's explanations were very clear, and the examples drawn

- using the on-screen whiteboard were helpful. The instructor provided a great deal of enthusiasm for the material, which ensured that the students were always engaged and eager to learn. I would be interested in taking further courses with this instructor.

12) Your instructor would like to know what should be done to improve the teaching of this course. (6 answered)

- I have no complaints or suggestions.

- Recommend that distribution of grades be weighted more toward the labs. They required a lot more work and effort than their grade weighting would seem to indicate. There were some good learning points in portions of the lab. However it was tempting at times to glaze over them simply due to the trade off of time and importance. This also goes to the conflict faced with having exams and labs due within days of each other. Numerical problem sets, or sample calculations would be extremely helpful in the manner that radiometry was done. They need not be homework, but are very helpful as being confirmation of understanding of the material which is only presented as theory. Powerpoint as a standard for mathematically intensive courses should be revisited. It is often times difficult to follow mathematical derivations and discussions that span several pages of slides. Flashing back and forth between them is often not as helpful as having all the material on one page. I would personally prefer to see these written out using the tablet and made available to students as reference material.

- Doing example problems even once would probably be a huge help. Because so many professors have been switched around this quarter, some students are reluctant to study past exams. I've seen some student get burned by doing that. I don't like that the only way to do well on the exams for this class was to basically see the questions beforehand, which is what happens when students study exclusively the past exams. Also, I would like it if the labs were worth more than 5% each. Because exams were the same day as the lab due dates, I know several student who half-assed labs at the last minute because they wanted to focus on the exams. And the labs say more about what students are learning than the exams, which really only show how well we can gather and look at past exams from older students. Sorry this came out a little bitter, it was a great course, and I earned a low grade by my own screw-ups, but I don't feel like the grades reflect well on what students have learned. I know students (not myself) who studied for days, but didn't focus on past exams, and I know students who studied past exams for a day, and I can guess who got better grades. That bugs me.

- maybe could give students some questions or problems to think about for further understanding this course every week?

- The hand outs of labs were sometimes very abstract and hard to follow. Consider the fact that I never used Modtran and ENVI, I had a very hard time to go through all the process of the last two labs.

- The grading scheme seemed a bit skewed, given the importance of the lab material and the amount of time required to fully understand the material and complete the laboratory. Increasing the lab grade to greater than 15% would be appropriate in future years.

13) In what ways did the content of this course build on or integrate material

from previous or prerequisite courses in the curriculum? (5 answered)

- The first 2/3 of the course build on material from Radiometry. The final third of the course touches on the same material as in DIM (specifically PCA).

- This built on the material from radiometry and integrated concepts from digital imaging mathematics and expanded the complexity of radiometric propagation and experimental methods of extracting useful information.

- It didn't, but this class was very different from past courses.

- has many to do with dim and dip. Actually it does not require too much to take this course.

- Radiometry was essential to the understanding of this course. The review of Radiometry at the beginning of the course was very helpful in ensuring that everyone had a good understanding of the material before we progressed further.

COURSE SUMMARY REPORT

Instructor 1: Salvaggio, Carl
Course: 1051-762-01, Remote Sens & Imag Analy
Quarter: 20112
Total responses: 8 out of 10 students.

Key Style: letters - numbers
Totals Style: max - average

Show Open-Ended Responses

Key: A = none at all , B = slight, C = moderate, D = strong

1) Your initial desire to take this course was: (7/10 Responded)

A: 0 (0.0%) B: 0 (0.0%) C: 3 (37.5%) D: 4 (50.0%)

D

Key: A = very elementary, B = somewhat elementary, C = about right, D = somewhat difficult, E = very difficult

2) For your background and ability, this course was: (8/10 Responded)

A: 0 (0.0%) B: 0 (0.0%) C: 6 (75.0%) D: 2 (25.0%) E: 0 (0.0%)

C

Key: A = A, B = B, C = C, D = D, E = F

3) What grade do you expect to receive in this course? (7/10 Responded)

A: 5 (62.5%) B: 1 (12.5%) C: 1 (12.5%) D: 0 (0.0%) E: 0 (0.0%)

A

Key: A = Worst possible rating, B = Below average, C = Average, D = Above average, E = Best possible rating

4) How concerned was the instructor that students learn? (8/10 Responded)

A: 0 (0.0%) B: 0 (0.0%) C: 0 (0.0%) D: 2 (25.0%) E: 6 (75.0%)

E

5) How much did the instructor stimulate your thinking and interest in the subject? (8/10 Responded)

A: 0 (0.0%) B: 0 (0.0%) C: 1 (12.5%) D: 1 (12.5%) E: 6 (75.0%)

E

6) How effective was the method of presentation of the course material? (8/10 Responded)

A: 0 (0.0%) B: 0 (0.0%) C: 1 (12.5%) D: 5 (62.5%) E: 2 (25.0%)

D

7) What is your overall rating of this course? (8/10 Responded)

A: 0 (0.0%) B: 0 (0.0%) C: 1 (12.5%) D: 5 (62.5%) E: 2 (25.0%)

D

8) What is your overall rating of this instructor? (8/10 Responded)

A: 0 (0.0%) B: 0 (0.0%) C: 0 (0.0%) D: 3 (37.5%) E: 5 (62.5%)

E

Key: A = Of little value., B = Somewhat valuable., C = Moderately valuable., D = Very valuable., E = Extremely valuable.

9) In general, were the laboratory experiments of value either in developing techniques and experience or in contributing to understanding the subject? (7/10 Responded)

A: 0 (0.0%) B: 0 (0.0%) C: 1 (12.5%) D: 5 (62.5%) E: 1 (12.5%)

D

Key: A = Extremely disorganized and inadequate., B = Poorly organized and barely adequate., C = Moderately organized and adequate., D = Well organized and more than adequate., E = Extremely well organized and excellent.

10) Concerning the organization of the laboratory, the materials, supplies, and room were usually: (7/10 Responded)

11) Your instructor would like to know what you think s/he has done especially well in teaching this course. (5/10 Responded)

- Carl is the best professor I've ever had the privilege of taking a class with. He is passionate about the course and comes to class prepared to discuss the material. Class is often an open dialogue because the class asks intelligent questions throughout lectures. I found it refreshing that Carl gave thoughtful and meaningful responses to all questions. I'm disappointed that Carl isn't teaching Remote Sensing 2 or DIP next quarter.

- Use of live drawings and derivations of equations was extremely helpful when done. Emphasis on fundamental understanding of the radiometric equation rather than a straight memorization approach was very helpful.

- The stories were great, and you did a great job of using your own experience to give examples about how/why the techniques we were learning were useful. I liked that the labs gave a general feel for the programs we'll likely be using in our research. I would have liked to see a little about DIRSIG, because so many research topics revolve around it, but nobody really knows anything about it other than that it's some sort of simulator... thing. Also, thank you for being very approachable, understanding, and easy to talk to/ask questions.

- Carl is very nice and patient instructor.

- The instructor's explanations were very clear, and the examples drawn using the on-screen whiteboard were helpful. The instructor provided a great deal of enthusiasm for the material, which ensured that the students were always engaged and eager to learn. I would be interested in taking further courses with this instructor.

12) Your instructor would like to know what should be done to improve the teaching of this course. (6/10 Responded)

- I have no complaints or suggestions.

- Recommend that distribution of grades be weighted more toward the labs. They required a lot more work and effort than their grade weighting would seem to indicate. There were some good learning points in portions of the lab. However it was tempting at times to glaze over them simply due to the trade off of time and importance. This also goes to the conflict faced with having exams and labs due within days of each other. Numerical problem sets, or sample calculations would be extremely helpful in the manner that radiometry was done. They need not be homework, but are very helpful as being confirmation of understanding of the material which is only presented as theory. Powerpoint as a standard for mathematically intensive courses should be revisited. It is often times difficult to follow mathematical derivations and discussions that span several pages of slides. Flashing back and forth between them is often not as helpful as having all the material on one page. I would personally prefer to see these written out using the tablet and made available to students as reference material.

- Doing example problems even once would probably be a huge help. Because so many professors have been switched around this quarter, some students are reluctant to study past exams. I've seen some student get burned by doing that. I don't like that the only way to do well on the exams for this class was to basically see the questions beforehand, which is what happens when students study exclusively the past exams. Also, I would like it if the labs were worth more than 5% each. Because exams were the same day as the lab due dates, I know several student who half-assed labs at the last minute because they wanted to focus on the exams. And the labs say more about what students are learning than the exams, which really only show how well we can gather and look at past exams from older students. Sorry this came out a little bitter, it was a great course, and I earned a low grade by my own screw-ups, but I don't feel like the grades reflect well on what students have learned. I know students (not myself) who studied for days, but didn't focus on past exams, and I know students who studied past exams for a day, and I can guess who got better grades. That bugs me.

- maybe could give students some questions or problems to think about for further understanding this course every week?

- The hand outs of labs were sometimes very abstract and hard to follow. Consider the fact that I never used Modtran and ENVI, I had a very hard time to go through all the process of the last two labs.

- The grading scheme seemed a bit skewed, given the importance of the lab material and the amount of time required to fully understand the material and complete the laboratory. Increasing the lab grade to greater than 15% would be appropriate in future years.

13) In what ways did the content of this course build on or integrate material from previous or prerequisite courses in the curriculum? (5/10 Responded)

- The first 2/3 of the course build on material from Radiometry. The final third of the course touches on the same material as in DIM (specifically PCA).

- This built on the material from radiometry and integrated concepts from digital imaging mathematics and expanded the complexity of radiometric propagation and experimental methods of extracting useful information.

- It didn't, but this class was very different from past courses.

- has many to do with dim and dip. Actually it does not require too much to take this course.

- Radiometry was essential to the understanding of this course. The review of Radiometry at the beginning of the course was very helpful in ensuring that everyone had a good understanding of the material before we progressed further.

OCE - COURSE DETAIL REPORT

20112 1051-762-90 Remote Sens & Imag Analy

Instructor: Salvaggio, Carl

Department Template #206

order	number	question	20112 Results					Cumulative Results			
			section	course	instructor	department	college	course	instructor	department	college
1.	967 MC	Your initial desire to take this course was:									
		number of responses (N)	2	9	9	162	165	47	232	2711	2898
	1.	none at all	0 (0.0%)	0 (0.0%)	0 (0.0%)	4 (2.5%)	4 (2.4%)	0 (0.0%)	13 (5.6%)	129 (4.8%)	131 (4.5%)
	2.	slight	0 (0.0%)	0 (0.0%)	0 (0.0%)	18 (11.1%)	18 (10.9%)	2 (4.3%)	16 (6.9%)	411 (15.2%)	413 (14.3%)
	3.	moderate	1 (50.0%)	4 (44.4%)	4 (44.4%)	65 (40.1%)	65 (39.4%)	14 (29.8%)	75 (32.3%)	1099 (40.5%)	1141 (39.4%)
	4.	strong	1 (50.0%)	5 (55.6%)	5 (55.6%)	75 (46.3%)	78 (47.3%)	31 (66.0%)	128 (55.2%)	1072 (39.5%)	1213 (41.9%)
2.	968 MC	For your background and ability, this course was:									
		number of responses (N)	2	10	10	167	170	48	234	2719	2907
	1.	very elementary	0 (0.0%)	0 (0.0%)	0 (0.0%)	7 (4.2%)	7 (4.1%)	0 (0.0%)	8 (3.4%)	128 (4.7%)	130 (4.5%)
	2.	somewhat elementary	0 (0.0%)	0 (0.0%)	0 (0.0%)	16 (9.6%)	16 (9.4%)	1 (2.1%)	11 (4.7%)	324 (11.9%)	329 (11.3%)
	3.	about right	2 (100.0%)	8 (80.0%)	8 (80.0%)	90 (53.9%)	92 (54.1%)	34 (70.8%)	141 (60.3%)	1440 (53.0%)	1557 (53.6%)
	4.	somewhat difficult	0 (0.0%)	2 (20.0%)	2 (20.0%)	39 (23.4%)	40 (23.5%)	11 (22.9%)	50 (21.4%)	621 (22.8%)	671 (23.1%)
	5.	very difficult	0 (0.0%)	0 (0.0%)	0 (0.0%)	15 (9.0%)	15 (8.8%)	2 (4.2%)	24 (10.3%)	206 (7.6%)	220 (7.6%)
3.	969 MC	What grade do you expect to receive in this course?									
		number of responses (N)	2	9	9	160	163	46	220	2533	2709
	1.	A	0 (0.0%)	5 (55.6%)	5 (55.6%)	89 (55.6%)	92 (56.4%)	26 (56.5%)	132 (60.0%)	1364 (53.8%)	1501 (55.4%)
	2.	B	2 (100.0%)	3 (33.3%)	3 (33.3%)	58 (36.3%)	58 (35.6%)	19 (41.3%)	68 (30.9%)	933 (36.8%)	970 (35.8%)
	3.	C	0 (0.0%)	1 (11.1%)	1 (11.1%)	10 (6.3%)	10 (6.1%)	1 (2.2%)	17 (7.7%)	204 (8.1%)	206 (7.6%)
	4.	D	0 (0.0%)	0 (0.0%)	0 (0.0%)	3 (1.9%)	3 (1.8%)	0 (0.0%)	3 (1.4%)	30 (1.2%)	30 (1.1%)
	5.	F	0 (0.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	2 (0.1%)	2 (0.1%)
4.	977 LS	How concerned was the instructor that students learn?									
		number of responses (N)	2	10	10	168	171	48	233	2730	2917
	1.	Worst possible rating	0 (0.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	25 (0.9%)	25 (0.9%)
	2.	Below average	0 (0.0%)	0 (0.0%)	0 (0.0%)	7 (4.2%)	7 (4.1%)	2 (4.2%)	1 (0.4%)	107 (3.9%)	114 (3.9%)
	3.	Average	0 (0.0%)	0 (0.0%)	0 (0.0%)	27 (16.1%)	27 (15.8%)	7 (14.6%)	13 (5.6%)	527 (19.3%)	546 (18.7%)
	4.	Above average	1 (50.0%)	3 (30.0%)	3 (30.0%)	59 (35.1%)	59 (34.5%)	16 (33.3%)	57 (24.5%)	938 (34.4%)	996 (34.1%)
	5.	Best possible rating	1 (50.0%)	7 (70.0%)	7 (70.0%)	75 (44.6%)	78 (45.6%)	23 (47.9%)	162 (69.5%)	1133 (41.5%)	1236 (42.4%)
5.	978 LS	How much did the instructor stimulate your thinking and interest in the subject?									
		number of responses (N)	2	10	10	168	171	47	233	2726	2913
	1.	Worst possible rating	0 (0.0%)	0 (0.0%)	0 (0.0%)	4 (2.4%)	4 (2.3%)	0 (0.0%)	0 (0.0%)	56 (2.1%)	59 (2.0%)
	2.	Below average	0 (0.0%)	0 (0.0%)	0 (0.0%)	14 (8.3%)	14 (8.2%)	0 (0.0%)	6 (2.6%)	213 (7.8%)	219 (7.5%)
	3.	Average	0 (0.0%)	1 (10.0%)	1 (10.0%)	34 (20.2%)	34 (19.9%)	8 (17.0%)	20 (8.6%)	602 (22.1%)	633 (21.7%)

#			C1	C2	C3	C4	C5	C6	C7	C8	C9
	4.	Above average	1 (50.0%)	2 (20.0%)	2 (20.0%)	54 (32.1%)	55 (32.2%)	16 (34.0%)	56 (24.0%)	868 (31.8%)	925 (31.8%)
	5.	Best possible rating	1 (50.0%)	7 (70.0%)	7 (70.0%)	62 (36.9%)	64 (37.4%)	23 (48.9%)	151 (64.8%)	987 (36.2%)	1077 (37.0%)

6. 979 LS — How effective was the method of presentation of the course material?

			C1	C2	C3	C4	C5	C6	C7	C8	C9
		number of responses (N)	2	10	10	166	169	47	232	2716	2901
	1.	Worst possible rating	0 (0.0%)	0 (0.0%)	0 (0.0%)	6 (3.6%)	6 (3.6%)	0 (0.0%)	0 (0.0%)	84 (3.1%)	85 (2.9%)
	2.	Below average	0 (0.0%)	0 (0.0%)	0 (0.0%)	20 (12.0%)	20 (11.8%)	2 (4.3%)	8 (3.4%)	340 (12.5%)	351 (12.1%)
	3.	Average	1 (50.0%)	2 (20.0%)	2 (20.0%)	42 (25.3%)	43 (25.4%)	9 (19.1%)	37 (15.9%)	716 (26.4%)	756 (26.1%)
	4.	Above average	1 (50.0%)	6 (60.0%)	6 (60.0%)	43 (25.9%)	44 (26.0%)	19 (40.4%)	78 (33.6%)	780 (28.7%)	829 (28.6%)
	5.	Best possible rating	0 (0.0%)	2 (20.0%)	2 (20.0%)	55 (33.1%)	56 (33.1%)	17 (36.2%)	109 (47.0%)	796 (29.3%)	880 (30.3%)

7. 980 LS — What is your overall rating of this course?

			C1	C2	C3	C4	C5	C6	C7	C8	C9
		number of responses (N)	2	10	10	168	171	48	232	2730	2917
	1.	Worst possible rating	0 (0.0%)	0 (0.0%)	0 (0.0%)	5 (3.0%)	5 (2.9%)	0 (0.0%)	1 (0.4%)	51 (1.9%)	51 (1.7%)
	2.	Below average	0 (0.0%)	0 (0.0%)	0 (0.0%)	11 (6.5%)	11 (6.4%)	2 (4.2%)	4 (1.7%)	221 (8.1%)	229 (7.9%)
	3.	Average	1 (50.0%)	2 (20.0%)	2 (20.0%)	37 (22.0%)	37 (21.6%)	8 (16.7%)	31 (13.4%)	708 (25.9%)	737 (25.3%)
	4.	Above average	1 (50.0%)	6 (60.0%)	6 (60.0%)	57 (33.9%)	59 (34.5%)	20 (41.7%)	78 (33.6%)	912 (33.4%)	977 (33.5%)
	5.	Best possible rating	0 (0.0%)	2 (20.0%)	2 (20.0%)	58 (34.5%)	59 (34.5%)	18 (37.5%)	118 (50.9%)	838 (30.7%)	923 (31.6%)

8. 981 LS — What is your overall rating of this instructor?

			C1	C2	C3	C4	C5	C6	C7	C8	C9
		number of responses (N)	2	10	10	169	172	48	230	2719	2906
	1.	Worst possible rating	0 (0.0%)	0 (0.0%)	0 (0.0%)	4 (2.4%)	4 (2.3%)	0 (0.0%)	0 (0.0%)	45 (1.7%)	45 (1.5%)
	2.	Below average	0 (0.0%)	0 (0.0%)	0 (0.0%)	10 (5.9%)	10 (5.8%)	0 (0.0%)	2 (0.9%)	147 (5.4%)	155 (5.3%)
	3.	Average	0 (0.0%)	0 (0.0%)	0 (0.0%)	26 (15.4%)	26 (15.1%)	6 (12.5%)	15 (6.5%)	539 (19.8%)	559 (19.2%)
	4.	Above average	1 (50.0%)	4 (40.0%)	4 (40.0%)	52 (30.8%)	53 (30.8%)	19 (39.6%)	47 (20.4%)	835 (30.7%)	892 (30.7%)
	5.	Best possible rating	1 (50.0%)	6 (60.0%)	6 (60.0%)	77 (45.6%)	79 (45.9%)	23 (47.9%)	166 (72.2%)	1153 (42.4%)	1255 (43.2%)

9. 984 LS — In general, were the laboratory experiments of value either in developing techniques and experience or in contributing to understanding the subject?

			C1	C2	C3	C4	C5	C6	C7	C8	C9
		number of responses (N)	2	9	9	114	117	45	130	1778	1882
	1.	Of little value.	0 (0.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	1 (0.8%)	76 (4.3%)	77 (4.1%)
	2.	Somewhat valuable.	1 (50.0%)	1 (11.1%)	1 (11.1%)	9 (7.9%)	9 (7.7%)	4 (8.9%)	6 (4.6%)	210 (11.8%)	211 (11.2%)
	3.	Moderately valuable.	1 (50.0%)	2 (22.2%)	2 (22.2%)	25 (21.9%)	25 (21.4%)	8 (17.8%)	13 (10.0%)	442 (24.9%)	449 (23.9%)
	4.	Very valuable.	0 (0.0%)	5 (55.6%)	5 (55.6%)	35 (30.7%)	37 (31.6%)	25 (55.6%)	44 (33.8%)	564 (31.7%)	598 (31.8%)
	5.	Extremely valuable.	0 (0.0%)	1 (11.1%)	1 (11.1%)	45 (39.5%)	46 (39.3%)	8 (17.8%)	66 (50.8%)	486 (27.3%)	547 (29.1%)

10. 986 LS — Concerning the organization of the laboratory, the materials, supplies, and room were usually:

			C1	C2	C3	C4	C5	C6	C7	C8	C9
		number of responses (N)	1	8	8	110	112	37	101	1661	1772
	1.	Extremely disorganized and inadequate.	0 (0.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	28 (1.7%)	28 (1.6%)
	2.	Poorly organized and barely adequate.	0 (0.0%)	0 (0.0%)	0 (0.0%)	2 (1.8%)	2 (1.8%)	0 (0.0%)	1 (1.0%)	111 (6.7%)	115 (6.5%)
	3.	Moderately organized and adequate.	1 (100.0%)	3 (37.5%)	3 (37.5%)	25 (22.7%)	25 (22.3%)	14 (37.8%)	19 (18.8%)	496 (29.9%)	513 (29.0%)
	4.	Well organized and more than adequate.	0 (0.0%)	3 (37.5%)	3 (37.5%)	38 (34.5%)	40 (35.7%)	18 (48.6%)	33 (32.7%)	604 (36.4%)	642 (36.2%)
	5.	Extremely well organized and excellent.	0 (0.0%)	2 (25.0%)	2 (25.0%)	45 (40.9%)	45 (40.2%)	5 (13.5%)	48 (47.5%)	422 (25.4%)	474 (26.7%)

Responses to open-ended questions

11. 975 OE — Your instructor would like to know what you think s/he has done especially well in teaching this course.

I enjoy the flow of lectures and the real world application of the material through the first hand experiences of the professor.

12. 976 OE — Your instructor would like to know what should be done to improve the teaching of this course.

More numerical exercises for practicing the calculation of the many properties, processes, and approaches throughout the course. Perhaps reduce the number of labs to 2 and add in a handful of homework assignments.

13. 1611 OE — In what ways did the content of this course build on or integrate material from previous or prerequisite courses in the curriculum?

This course tied together radiometry, photogrammetry, linear algebra, fourier analysis, random variables, digital image mathematics, and digital image processing.

OCE - COURSE SUMMARY REPORT

Instructor 1: Salvaggio, Carl

Course: 1051-762-90 Remote Sens & Imag Analy

Quarter: 20112

Total responses: 2

PART 1

Your evaluation of this course is an important means of collecting data for use in improving teaching in the Center for Imaging Science. Please read the questions carefully and answer them honestly. Your thoughtful answers will be valuable to instructors and administrators. This evaluation is completely anonymous. Results will be compiled after grades have been submitted at the end of this quarter.

Section One: Student Data

1) Your initial desire to take this course was: (2 answered)

option	text	number	percent
(a)	none at all	0	0.0%
(b)	slight	0	0.0%
(c)	moderate	1	50.0%
(d)	strong	1	50.0%
	Not Answered	0	0.0%
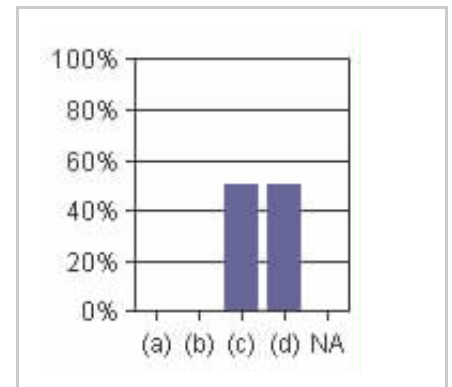
2) For your background and ability, this course was: (2 answered)

option	text	number	percent
(a)	very elementary	0	0.0%
(b)	somewhat elementary	0	0.0%
(c)	about right	2	100.0%
(d)	somewhat difficult	0	0.0%
(e)	very difficult	0	0.0%
	Not Answered	0	0.0%
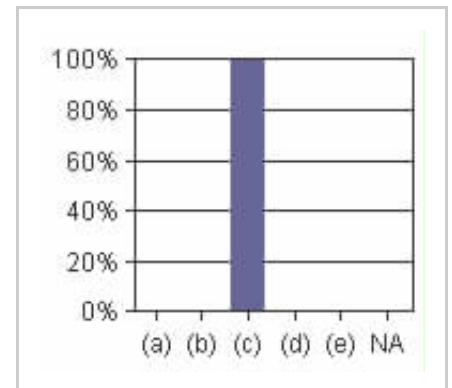
3) What grade do you expect to receive in this course? (2 answered)

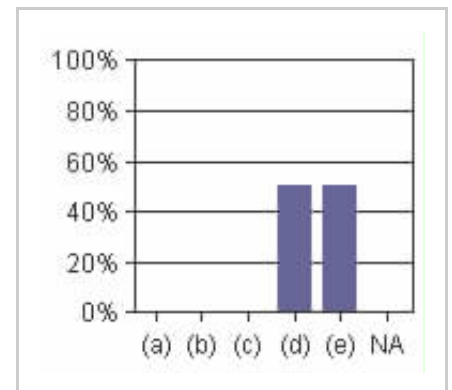| option	text	number	percent

(a)	A	0	0.0%
(b)	B	2	100.0%
(c)	C	0	0.0%
(d)	D	0	0.0%
(e)	F	0	0.0%
	Not Answered	0	0.0%
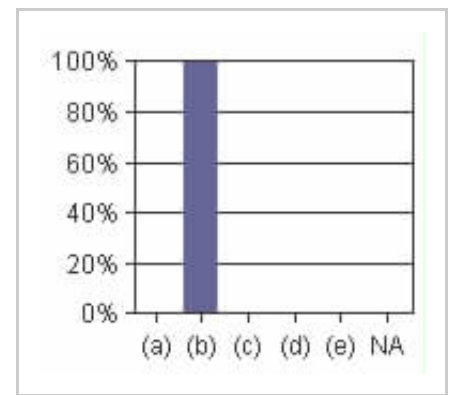
Section Two: General Questions

4) How concerned was the instructor that students learn? (2 answered)

option	text	number	percent
(a)	Worst possible rating	0	0.0%
(b)	Below average	0	0.0%
(c)	Average	0	0.0%
(d)	Above average	1	50.0%
(e)	Best possible rating	1	50.0%
	Not Answered	0	0.0%

5) How much did the instructor stimulate your thinking and interest in the subject? (2 answered)

option	text	number	percent
(a)	Worst possible rating	0	0.0%
(b)	Below average	0	0.0%
(c)	Average	0	0.0%
(d)	Above average	1	50.0%
(e)	Best possible rating	1	50.0%
	Not Answered	0	0.0%

6) How effective was the method of presentation of the course material? (2 answered)

option	text	number	percent
(a)	Worst possible rating	0	0.0%
(b)	Below average	0	0.0%
(c)	Average	1	50.0%

(d)	Above average	1	50.0%
(e)	Best possible rating	0	0.0%
	Not Answered	0	0.0%
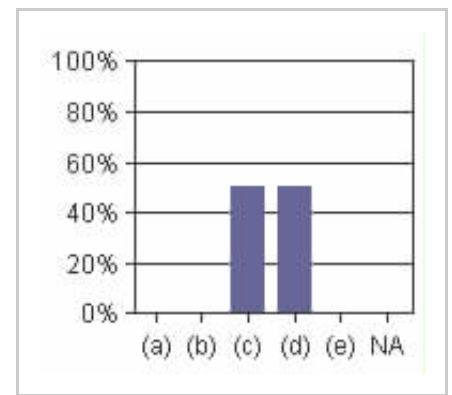
7) What is your overall rating of this course? (2 answered)

option	text	number	percent
(a)	Worst possible rating	0	0.0%
(b)	Below average	0	0.0%
(c)	Average	1	50.0%
(d)	Above average	1	50.0%
(e)	Best possible rating	0	0.0%
	Not Answered	0	0.0%

8) What is your overall rating of this instructor? (2 answered)

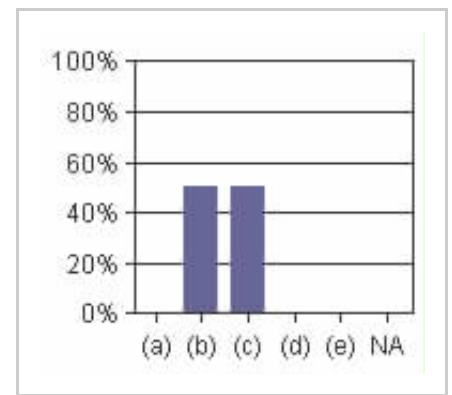| option	text	number	percent
(a)	Worst possible rating	0	0.0%
(b)	Below average	0	0.0%
(c)	Average	0	0.0%
(d)	Above average	1	50.0%
(e)	Best possible rating	1	50.0%
	Not Answered	0	0.0%
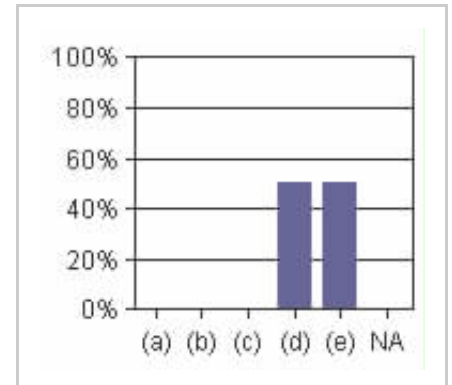
Section Three: Laboratory

9) In general, were the laboratory experiments of value either in developing techniques and experience or in contributing to understanding the subject? (2 answered)

option	text	number	percent
(a)	Of little value.	0	0.0%
(b)	Somewhat valuable.	1	50.0%
(c)	Moderately valuable.	1	50.0%

(d)	Very valuable.	0	0.0%
(e)	Extremely valuable.	0	0.0%
	Not Answered	0	0.0%

10) Concerning the organization of the laboratory, the materials, supplies, and room were usually: (1 answered)

option	text	number	percent
(a)	Extremely disorganized and inadequate.	0	0.0%
(b)	Poorly organized and barely adequate.	0	0.0%
(c)	Moderately organized and adequate.	1	50.0%
(d)	Well organized and more than adequate.	0	0.0%
(e)	Extremely well organized and excellent.	0	0.0%
	Not Answered	1	50.0%
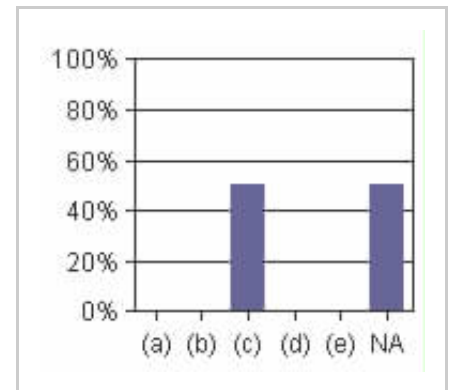
Section Four: Comments

11) Your instructor would like to know what you think s/he has done especially well in teaching this course. (1 answered)

- I enjoy the flow of lectures and the real world application of the material through the first hand experiences of the professor.

12) Your instructor would like to know what should be done to improve the teaching of this course. (1 answered)

- More numerical exercises for practicing the calculation of the many properties, processes, and approaches throughout the course. Perhaps reduce the number of labs to 2 and add in a handful of homework assignments.

13) In what ways did the content of this course build on or integrate material from previous or prerequisite courses in the curriculum? (1 answered)

- This course tied together radiometry, photogrammetry, linear algebra, fourier analysis, random variables, digital image mathematics, and digital image processing.

ONLINE COURSE EVALUATIONS

COURSE SUMMARY REPORT

Instructor 1:   Salvaggio, Carl
Course: 1051-762-90, Remote Sens & Imag Analy
Quarter: 20112
Total responses: 2 out of 2 students.

Show Open-Ended Responses

Key: A = none at all ,   B = slight,   C = moderate,   D = strong

1) Your initial desire to take this course was: (2/2 Responded)

   A: 0 (0.0%)   B: 0 (0.0%)   C: 1 (50.0%)   D: 1 (50.0%)

C,D

Key: A = very elementary,   B = somewhat elementary,   C = about right,   D = somewhat difficult,   E = very difficult

2) For your background and ability, this course was: (2/2 Responded)

   A: 0 (0.0%)   B: 0 (0.0%)   C: 2 (100.0%)   D: 0 (0.0%)   E: 0 (0.0%)

C

Key: A = A,   B = B,   C = C,   D = D,   E = F

3) What grade do you expect to receive in this course? (2/2 Responded)

   A: 0 (0.0%)   B: 2 (100.0%)   C: 0 (0.0%)   D: 0 (0.0%)   E: 0 (0.0%)

B

Key: A = Worst possible rating,   B = Below average,   C = Average,   D = Above average,   E = Best possible rating

4) How concerned was the instructor that students learn? (2/2 Responded)

   A: 0 (0.0%)   B: 0 (0.0%)   C: 0 (0.0%)   D: 1 (50.0%)   E: 1 (50.0%)

D,E

5) How much did the instructor stimulate your thinking and interest in the subject? (2/2 Responded)

   A: 0 (0.0%)   B: 0 (0.0%)   C: 0 (0.0%)   D: 1 (50.0%)   E: 1 (50.0%)

D,E

6) How effective was the method of presentation of the course material? (2/2 Responded)

   A: 0 (0.0%)   B: 0 (0.0%)   C: 1 (50.0%)   D: 1 (50.0%)   E: 0 (0.0%)

C,D

7) What is your overall rating of this course? (2/2 Responded)

   A: 0 (0.0%)   B: 0 (0.0%)   C: 1 (50.0%)   D: 1 (50.0%)   E: 0 (0.0%)

C,D

8) What is your overall rating of this instructor? (2/2 Responded)

   A: 0 (0.0%)   B: 0 (0.0%)   C: 0 (0.0%)   D: 1 (50.0%)   E: 1 (50.0%)

D,E

Key: A = Of little value.,   B = Somewhat valuable.,   C = Moderately valuable.,   D = Very valuable.,   E = Extremely valuable.

9) In general, were the laboratory experiments of value either in developing techniques and experience or in contributing to understanding the subject? (2/2 Responded)

   A: 0 (0.0%)   B: 1 (50.0%)   C: 1 (50.0%)   D: 0 (0.0%)   E: 0 (0.0%)

B,C

Key: A = Extremely disorganized and inadequate.,   B = Poorly organized and barely adequate.,   C = Moderately organized and adequate.,   D = Well organized and more than adequate.,   E = Extremely well organized and excellent.

10) Concerning the organization of the laboratory, the materials, supplies, and room were usually: (1/2 Responded)

11) Your instructor would like to know what you think s/he has done especially well in teaching this course. (1/2 Responded)

- I enjoy the flow of lectures and the real world application of the material through the first hand experiences of the professor.

12) Your instructor would like to know what should be done to improve the teaching of this course. (1/2 Responded)

- More numerical exercises for practicing the calculation of the many properties, processes, and approaches throughout the course. Perhaps reduce the number of labs to 2 and add in a handful of homework assignments.

13) In what ways did the content of this course build on or integrate material from previous or prerequisite courses in the curriculum? (1/2 Responded)

- This course tied together radiometry, photogrammetry, linear algebra, fourier analysis, random variables, digital image mathematics, and digital image processing.

Show Open-Ended Responses