

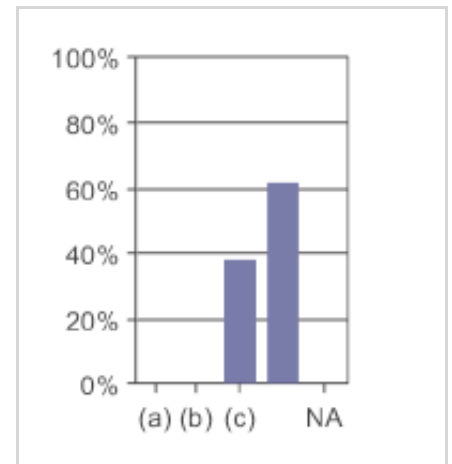
OCE - COURSE SUMMARY REPORT

Instructor 1: Salvaggio, Carl
Course: 1051-782-01 Intro To Dig Img Process
Quarter: 20063
Total responses: 13

PART 1

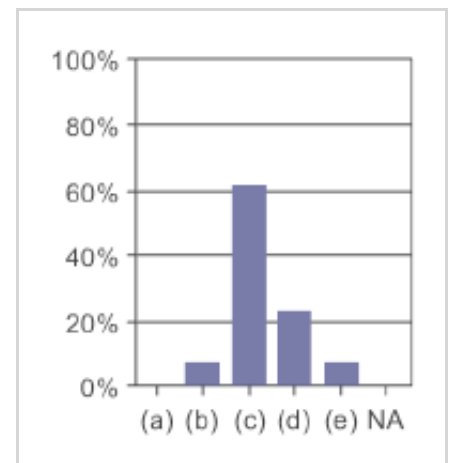
1) Your initial desire to take this course was: (13 answered)

option	text	number	percent
(a)	none at all	0	0.0%
(b)	slight	0	0.0%
(c)	moderate	5	38.5%
(d)	strong	8	61.5%
	Not Answered	0	0.0%



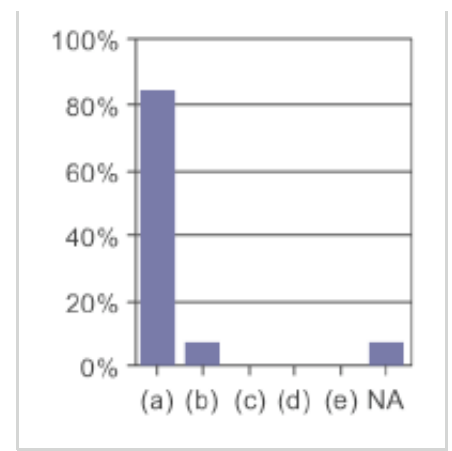
2) For your background and ability, this course was: (13 answered)

option	text	number	percent
(a)	very elementary	0	0.0%
(b)	somewhat elementary	1	7.7%
(c)	about right	8	61.5%
(d)	somewhat difficult	3	23.1%
(e)	very difficult	1	7.7%
	Not Answered	0	0.0%



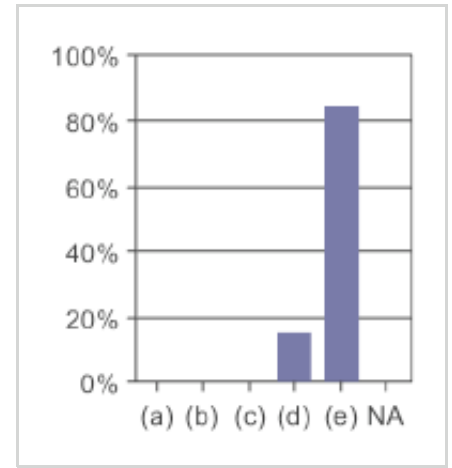
3) What grade do you expect to receive in this course? (12 answered)

option	text	number	percent
(a)	A	11	84.6%
(b)	B	1	7.7%
(c)	C	0	0.0%
(d)	D	0	0.0%
(e)	F	0	0.0%
	Not Answered	1	7.7%



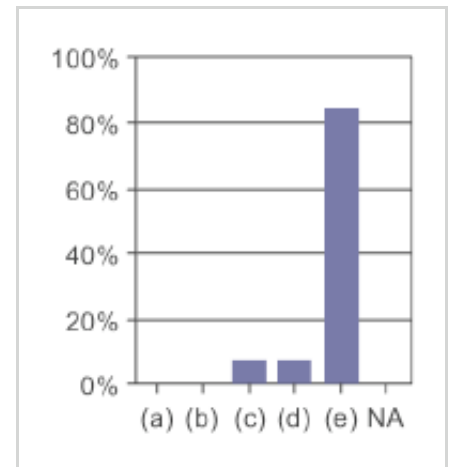
4) How concerned was the instructor that students learn? (13 answered)

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	15.4%
(e)	Best possible rating	11	84.6%
	Not Answered	0	0.0%



5) How much did the instructor stimulate your thinking and interest in the subject? (13 answered)

option	text	number	percent
(a)	Worst possible rating	0	0.0%
(b)	Below average	0	0.0%
(c)	Average	1	7.7%
(d)	Above average	1	7.7%
(e)	Best possible rating	11	84.6%
	Not Answered	0	0.0%

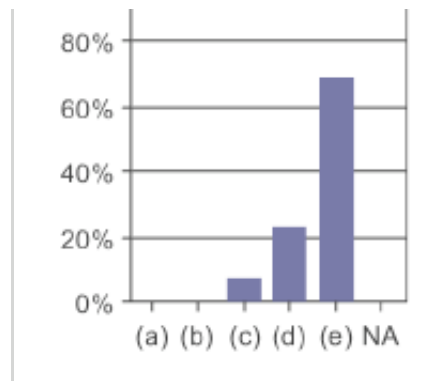


6) How effective was the method of presentation of the course material? (13 answered)

option	text	number	percent
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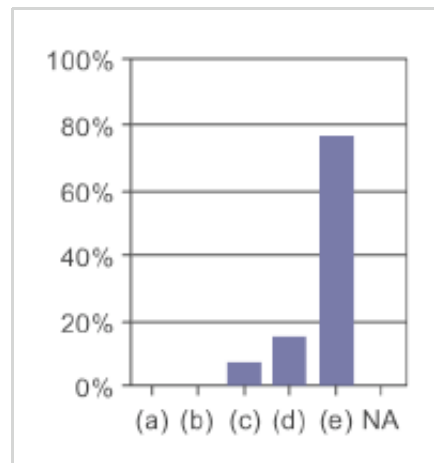


(a)	Worst possible rating	0	0.0%
(b)	Below average	0	0.0%
(c)	Average	1	7.7%
(d)	Above average	3	23.1%
(e)	Best possible rating	9	69.2%
	Not Answered	0	0.0%



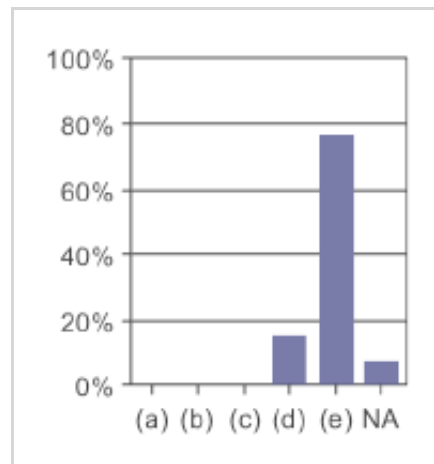
7) What is your overall rating of this course? (13 answered)

option	text	number	percent
(a)	Worst possible rating	0	0.0%
(b)	Below average	0	0.0%
(c)	Average	1	7.7%
(d)	Above average	2	15.4%
(e)	Best possible rating	10	76.9%
	Not Answered	0	0.0%



8) What is your overall rating of this instructor? (12 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	15.4%
(e)	Best possible rating	10	76.9%
	Not Answered	1	7.7%

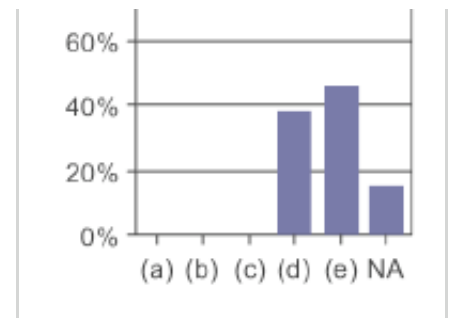


9) In general, were the laboratory experiments of value either in developing techniques and experience or in contributing to understanding the subject? (11 answered)

option	text	number	percent
(a)	Of little value.	0	0.0%

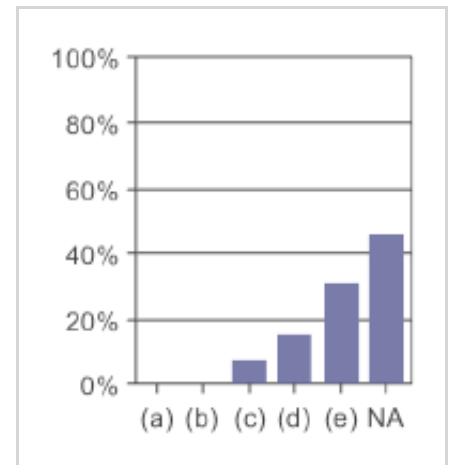


(b)	Somewhat valuable.	0	0.0%
(c)	Moderately valuable.	0	0.0%
(d)	Very valuable.	5	38.5%
(e)	Extremely valuable.	6	46.2%
	Not Answered	2	15.4%



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.	1	7.7%
(d)	Well organized and more than adequate.	2	15.4%
(e)	Extremely well organized and excellent.	4	30.8%
	Not Answered	6	46.2%



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

- excellent teaching, interesting homework.

By letting us pick any algorithm of our choosing and having us implement it, Carl forced us to independently approach a problem and solve it. I think being able to produce acceptable work, independently and without significant guidance is a cornerstone to being able to complete graduate level work. Projects should be approached in this manner in all classes. It forces the student to problem solve and to critically think about the assignment - versus just being told what to do and copying the steps.

- all of the examples (real time and otherwise) really help make the material understandable

this was probably the best class i've had here that was taught on campus and on breeze at the same time. everything in that regard appeared to go very smoothly (blended classes have been horrible in the past). very useful to code the algorithms we learn in class for the assignments. The assignments were challenging especially the ones where we had to look up papers on an algorithm and code it. Its difficult to find papers sometimes. But I think it was a good experience (although at the time i complained about it, of course). Also liked that we had a choice to take the final oral exam (i didnt take it).

Carl was simply fantastic. He really cares about student learning, is

very approachable and delivers outstanding instruction. The best thing about a class from Carl is the assesment. I have learned a HUGE amount about image processing by DOING image processing. If anyone in a position of influence in the CIS reads this you should encourage every class to follow Carl's assessment model. It is the best in the CIS, without exception.

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The best lecturer I've experienced at RIT so far, even though I did not attend class, I felt on top of things in your recordings and looked forward to listening to them. Good segues, gave the class a cohesiveness missing from the previous digital imaging math/programming class.

Use of practical examples was a key part of the learning process. I was all set for a very dry review of a textbook like Gonzalez and Woods, but Carl really brought things to life. The projects forced the practical application of concepts. As an instructor, he's the best I think that I've ever had. He cares that the students get the point and is patient in answering questions. His way of explaining things makes sure that you "get it" intuitively before moving to the next level. Thanks much!

-

The real-world illustration of the theory and processes we've learned about all year helps to pull together all the concepts and allowed me to understand everything much better. Carl is very effective at communicating everything to the students without being vague or going over their heads. The extra material provided through the website also helps a lot to provide additional background.

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The projects were very valueable to understanding the material and additionally were usefull to gain more experience in reading scientific literature. The examples done in class helped a great deal.

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Carl did a great job as an instructor. His lectures were clear, well organized, and he obviously knew what he was talking about. Also, I thought the evaluation method (labs and oral exams) was very appropriate for the type of material covered.

-

- made things interactive.... the projects were great

12) Your instructor would like to know what should be done to improve the teaching of this course. (5 answered)

- If you could provide more IDL examples in the class notes. Because most of us are just at baby step for IDL programming.
- The last project is a bit overwhelming.... maybe calm that one down a bit.

I know that this was the first time teaching the course - next time, maybe a syllabus of major topic areas would be helpful. The only other thing is to maybe create simpler projects that more closely align with the material being covered in class at the time.

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Some of the code and pseudo-code in the notes could be clearer which would help when performing the projects. Some of the processes such as MNF were unclear based on the notes for many of us. The papers and additional resources on the webpage often help to clarify things

- and additional resources on the webpage often help to clarify things however some aren't always as accessible to the reader. I also think the explanation of the Huffman and Shannon-Fano methods are sometimes hard to follow in order to understand what they are really doing.

Because of the presentation method the subject comes off a little dry.

- It would be nice to make some of the in class examples available so that we could practice with them.

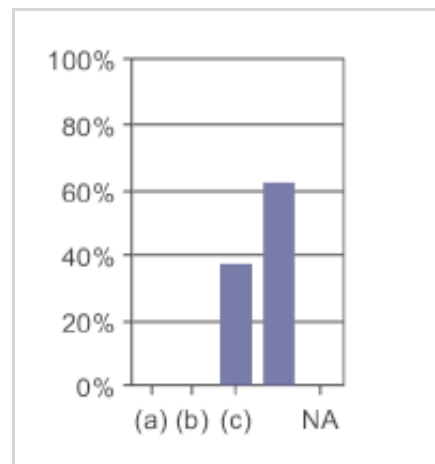
OCE - COURSE SUMMARY REPORT

Instructor 1: Salvaggio, Carl
Course: 1051-782-90 Intro To Dig Img Process
Quarter: 20063
Total responses: 8

PART 1

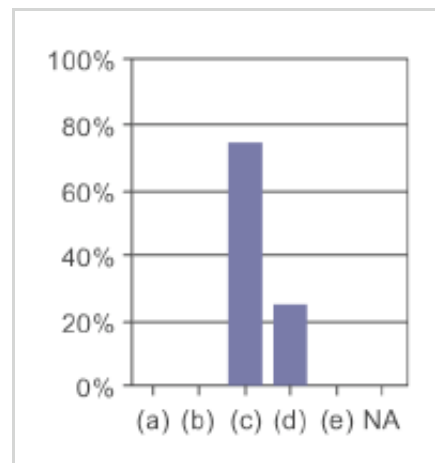
1) Your initial desire to take this course was: (8 answered)

option	text	number	percent
(a)	none at all	0	0.0%
(b)	slight	0	0.0%
(c)	moderate	3	37.5%
(d)	strong	5	62.5%
	Not Answered	0	0.0%



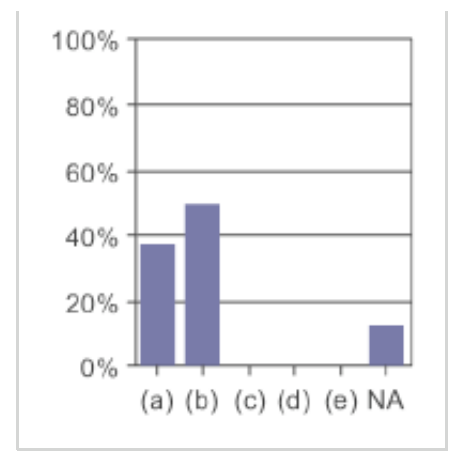
2) For your background and ability, this course was: (8 answered)

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%



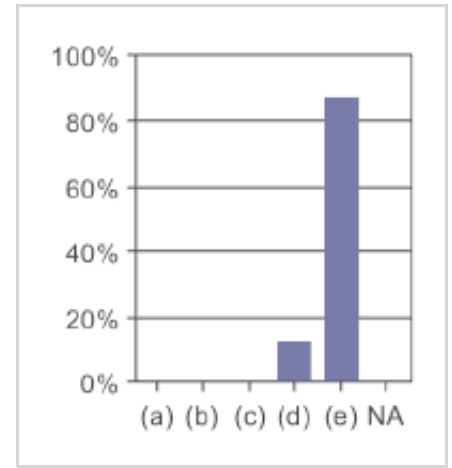
3) What grade do you expect to receive in this course? (7 answered)

option	text	number	percent
(a)	A	3	37.5%
(b)	B	4	50.0%
(c)	C	0	0.0%
(d)	D	0	0.0%
(e)	F	0	0.0%
	Not Answered	1	12.5%



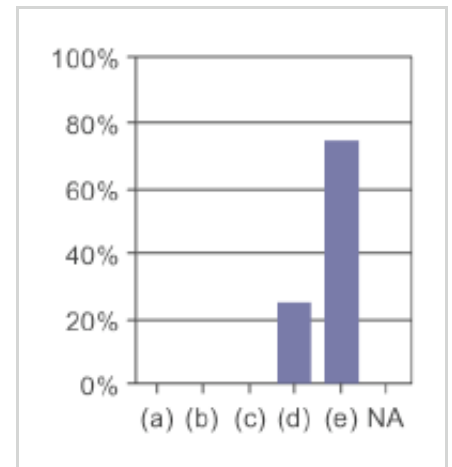
4) How concerned was the instructor that students learn? (8 answered)

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	1	12.5%
(e)	Best possible rating	7	87.5%
	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	0	0.0%
(d)	Above average	2	25.0%
(e)	Best possible rating	6	75.0%
	Not Answered	0	0.0%

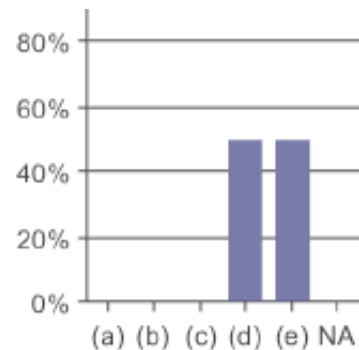


6) How effective was the method of presentation of the course material? (8 answered)

option	text	number	percent
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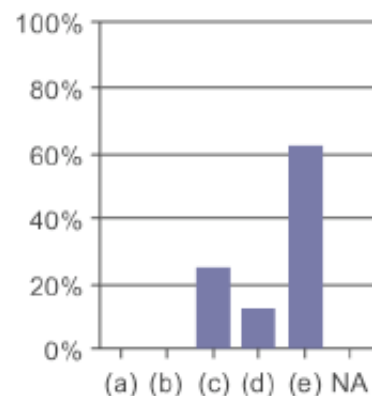


(a)	Worst possible rating	0	0.0%
(b)	Below average	0	0.0%
(c)	Average	0	0.0%
(d)	Above average	4	50.0%
(e)	Best possible rating	4	50.0%
	Not Answered	0	0.0%



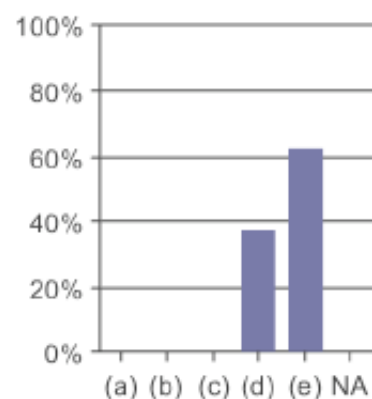
7) What is your overall rating of this course? (8 answered)

option	text	number	percent
(a)	Worst possible rating	0	0.0%
(b)	Below average	0	0.0%
(c)	Average	2	25.0%
(d)	Above average	1	12.5%
(e)	Best possible rating	5	62.5%
	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%

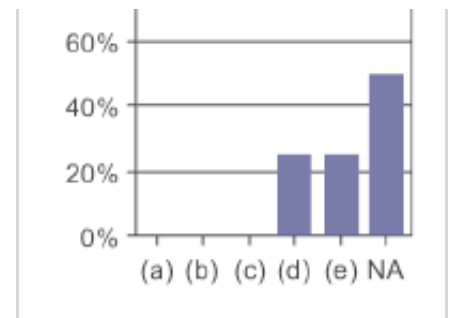


9) In general, were the laboratory experiments of value either in developing techniques and experience or in contributing to understanding the subject? (4 answered)

option	text	number	percent
(a)	Of little value.	0	0.0%

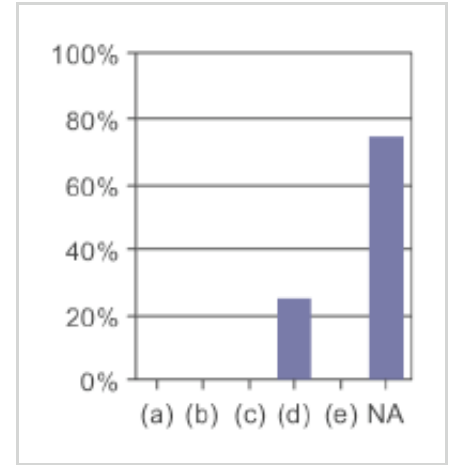


(b)	Somewhat valuable.	0	0.0%
(c)	Moderately valuable.	0	0.0%
(d)	Very valuable.	2	25.0%
(e)	Extremely valuable.	2	25.0%
	Not Answered	4	50.0%



10) Concerning the organization of the laboratory, the materials, supplies, and room were usually: (2 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	25.0%
(e)	Extremely well organized and excellent.	0	0.0%
	Not Answered	6	75.0%



11) Your instructor would like to know what you think s/he has done especially well in teaching this course. (7 answered)

- I think the projects were very real-world and applicable to the field of digital imaging and the processing of images. Oral examinations are different and difficult, but definitely focus on understanding the concepts and backgrounds and not just on the ability to apply or memorize equations which are readily available in the real world.
- I appreciate that you are enthusiastic about the subject and are open to new ideas, ways of doing things and exploring the subject spontaneously.
 - Course instruction was great. Projects were great.
- Carl's enthusiasm and interest in the material is unparalleled. This is the class that I feel I have learned the most from in Imaging Science so far. His presentation was so good in fact, as I was watching the class, my husband who is doing his Masters in EE at RIT, would sit down and just watch it with me because it was so interesting and well-taught.
- A lot of hands on projects and freedom to explore different techniques.
 - Exposed the students to the most recent and innovative techniques in the field.
 - I appreciated the real-world tie-ins (CFA demosaicking, JPEG2000, etc.). The slides and explanations were very clear.

- The distillation of all mathematical concepts to plain english

12) Your instructor would like to know what should be done to improve the teaching of this course. (7 answered)

- There was a very strong focus on remote sensing, which does transfer well, but I think looking at other sources of digital images that are processed would improve the breadth of this class.

- Some of the material was difficult to follow because it was not in the text. I'm not sure how to do it, but text to fill in the details between PowerPoint slides would be most helpful. We had some of this but more would be better.

- This class for an online class was at times difficult because if you get stuck programming and you aren't very proficient you were often stuck mulling the problem over until the prof responded via email. I'm not sure how this could be improved but I often had problems with the project not because I didn't understand the material but because I had a programming problem and no one else to ask.

- Please give ten-minute breaks! You cover a lot of material and it's definitely needed.

- The design of the Final project was flawed. The computational resources factor was not taken into account. It assumed that all the students had access to exceptionally powerful computational resources. Since this project is such an important part of the grading it should be more carefully designed, so the student can succeed regardless of the level of technology available to him/her.

- I was hoping to learn more about state-of-the-art image processing programming libraries. MATLAB and IDL are great for offline analysis and prototyping, but they can't be used in deliverable software products. I could have taken the initiative with my programming assignments, but I spent far too long on the first project discovering libtiff and getting it to work for me. The C++ based "Insight Segmentation and Registration Toolkit" probably would have produced superior results for the registration and classification projects, but I don't understand enough of the underlying math to have produced a report.

- Not much - this already ranks as one of the best courses I've taken

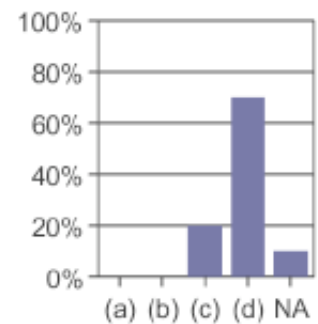
OCE - COURSE SUMMARY REPORT

Instructor 1: Salvaggio, Carl
Course: 1051-782-01 Intro To Dig Img Process
Quarter: 20073
Total responses: 10

PART 1

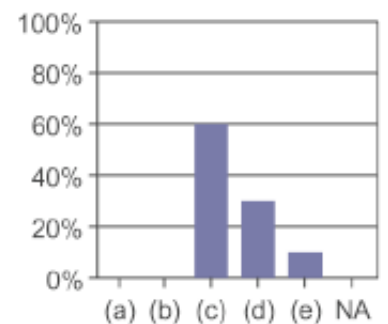
1) Your initial desire to take this course was: (9 answered)

option	text	number	percent
(a)	none at all	0	0.0%
(b)	slight	0	0.0%
(c)	moderate	2	20.0%
(d)	strong	7	70.0%
	Not Answered	1	10.0%



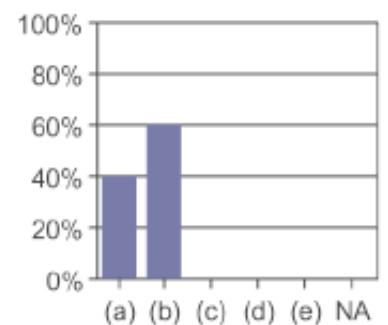
2) For your background and ability, this course was: (10 answered)

option	text	number	percent
(a)	very elementary	0	0.0%
(b)	somewhat elementary	0	0.0%
(c)	about right	6	60.0%
(d)	somewhat difficult	3	30.0%
(e)	very difficult	1	10.0%
	Not Answered	0	0.0%



3) What grade do you expect to receive in this course? (10 answered)

option	text	number	percent
(a)	A	4	40.0%
(b)	B	6	60.0%
(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? (10 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	20.0%
(e)	Best possible rating	8	80.0%
	Not Answered	0	0.0%

5) How much did the instructor stimulate your thinking and interest in the subject? (10 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	20.0%
(e)	Best possible rating	8	80.0%
	Not Answered	0	0.0%

6) How effective was the method of presentation of the course material? (10 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	4	40.0%
(e)	Best possible rating	6	60.0%
	Not Answered	0	0.0%

7) What is your overall rating of this course? (10 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	4	40.0%
(e)	Best possible rating	6	60.0%
	Not Answered	0	0.0%

8) What is your overall rating of this instructor? (10 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	10.0%
(e)	Best possible rating	9	90.0%
	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? (6 answered)

option	text	number	percent
(a)	Of little value.	0	0.0%
(b)	Somewhat valuable.	0	0.0%
(c)	Moderately valuable.	1	10.0%
(d)	Very valuable.	3	30.0%
(e)	Extremely valuable.	2	20.0%
	Not Answered	4	40.0%

10) Concerning the organization of the laboratory, the materials, supplies, and room were usually: (5 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	10.0%
(d)	Well organized and more than adequate.	1	10.0%
(e)	Extremely well organized and excellent.	3	30.0%
	Not Answered	5	50.0%

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

I really enjoyed the demonstrations (e.g. IDL/ENVI, programs, looking at imagery, etc). This really helped to tie the material to real world applications. Dr. Salvaggio is one of the best professors I've had at RIT. I hope to have him again for another IS course.

During this course, I could learn overall image processing concepts from image acquisition to multi spectral image processing. It was very helpful and interesting. Examples and sample codes were very helpful to understand.

- More information than the undergraduate course (guess who)

Lab project assignments were appropriately weighted due to their required heavy time commitment. Exams were fair and relevant to course material. Review sessions were very valuable and well prepared.

- The website availability of all course slides at the beginning of the quarter was definitely helpful, and saved students time throughout quarter with downloading/printing of slides.

Having the course notes and assignments available from day one was extremely helpful, and the professor should be commended! This level of

- organization should be required of every instructor! The enthusiasm of the instructor for the subject was also wonderful, and helped greatly in communicating the course material.

12) Your instructor would like to know what should be done to improve the teaching of this course. (5 answered)

- Nothing comes to mind, this was a great course and excellent professor.

Add lecture about image communication e.g progressive coding, layered etc. Two lectures doing student presentations about the watermarking seems a bit too much.

- Not enough courses taught outside
- Slides, project assignments, reference papers, and dropbox for projects should be placed on myCourses vs. separate website.

A few end-to-end problems outside the slides for each major subject would be very helpful in learning the material. For instance: Although an exam question tested for knowledge of maximum likelihood, there were no example problems to verify our understanding. An at least partial list of subjects and algorithms that should be known for the tests would be nice. There are numerous variations to many of the processes covered, and not enough time nor reason to learn them all (especially if they are now obsolete).

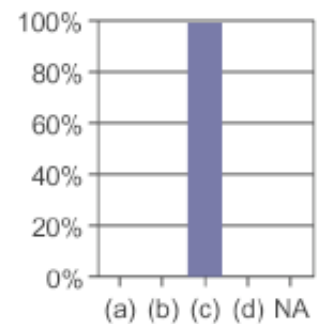
OCE - COURSE SUMMARY REPORT

Instructor 1: Salvaggio, Carl
Course: 1051-782-90 Intro To Dig Img Process
Quarter: 20073
Total responses: 1

PART 1

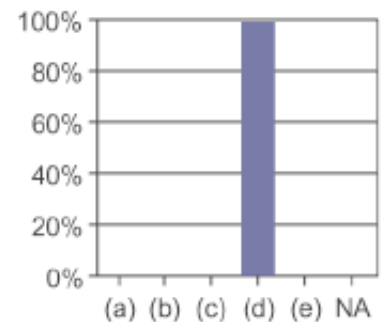
1) Your initial desire to take this course was: (1 answered)

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



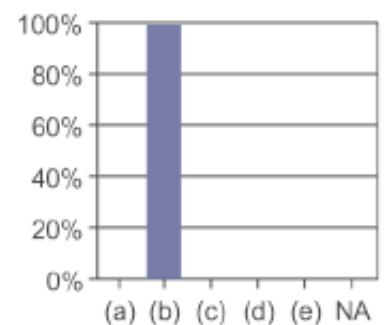
2) For your background and ability, this course was: (1 answered)

option	text	number	percent
(a)	very elementary	0	0.0%
(b)	somewhat elementary	0	0.0%
(c)	about right	0	0.0%
(d)	somewhat difficult	1	100.0%
(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	1	100.0%
(e)	Best possible rating	0	0.0%
	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	0	0.0%
(e)	Best possible rating	1	100.0%
	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	0	0.0%
(e)	Best possible rating	1	100.0%
	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. (1 answered)

- Teaching style and attitude are top notch. Genuine interest in material shows in presentation. Great professor.

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

- TA grading of projects inconsistent at best. No emphasis on coding work, entire focus was on report with huge grading implications regardless of project success. (was penalized 33% because one part of one section of the report was insufficient. This seems ridiculous for a 3 week coding project.)
-

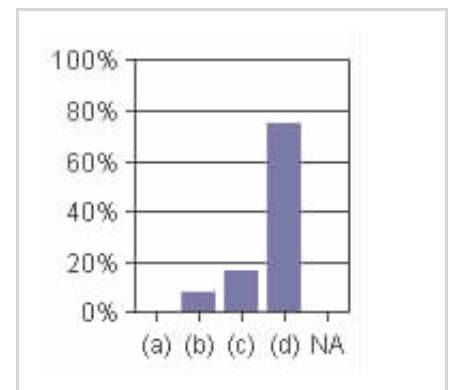
OCE - COURSE SUMMARY REPORT

Instructor 1: Salvaggio, Carl
Course: 1051-782-01 Intro To Dig Img Process
Quarter: 20083
Total responses: 12

PART 1

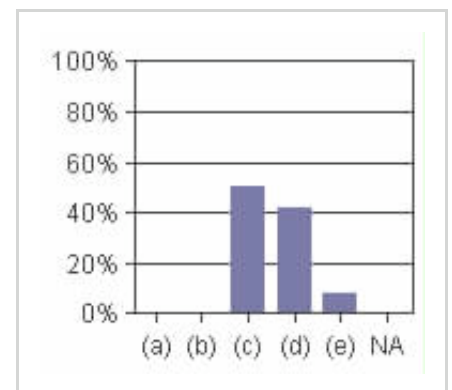
1) Your initial desire to take this course was: (12 answered)

option	text	number	percent
(a)	none at all	0	0.0%
(b)	slight	1	8.3%
(c)	moderate	2	16.7%
(d)	strong	9	75.0%
	Not Answered	0	0.0%



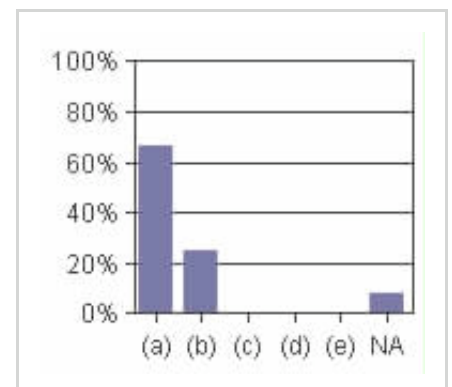
2) For your background and ability, this course was: (12 answered)

option	text	number	percent
(a)	very elementary	0	0.0%
(b)	somewhat elementary	0	0.0%
(c)	about right	6	50.0%
(d)	somewhat difficult	5	41.7%
(e)	very difficult	1	8.3%
	Not Answered	0	0.0%



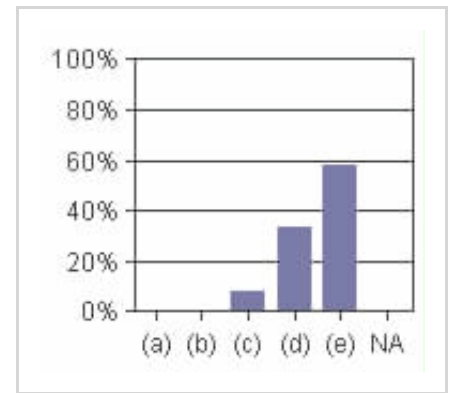
3) What grade do you expect to receive in this course? (11 answered)

option	text	number	percent
(a)	A	8	66.7%
(b)	B	3	25.0%
(c)	C	0	0.0%
(d)	D	0	0.0%
(e)	F	0	0.0%
	Not Answered	1	8.3%



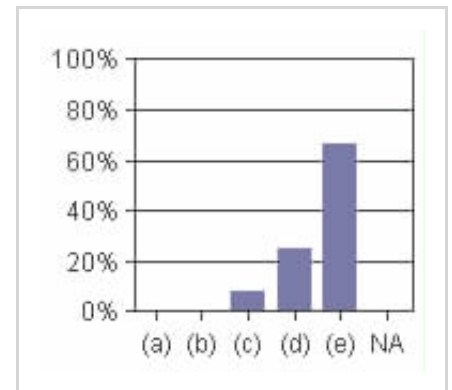
4) How concerned was the instructor that students learn? (12 answered)

option	text	number	percent
(a)	Worst possible rating	0	0.0%
(b)	Below average	0	0.0%
(c)	Average	1	8.3%
(d)	Above average	4	33.3%
(e)	Best possible rating	7	58.3%
	Not Answered	0	0.0%



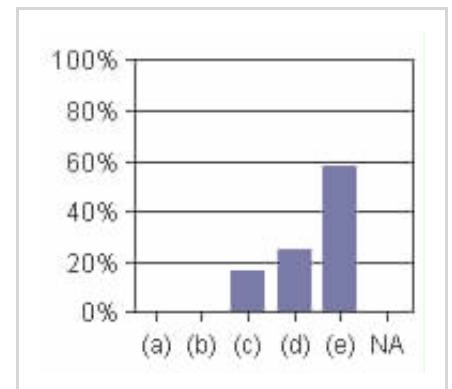
5) How much did the instructor stimulate your thinking and interest in the subject? (12 answered)

option	text	number	percent
(a)	Worst possible rating	0	0.0%
(b)	Below average	0	0.0%
(c)	Average	1	8.3%
(d)	Above average	3	25.0%
(e)	Best possible rating	8	66.7%
	Not Answered	0	0.0%



6) How effective was the method of presentation of the course material? (12 answered)

option	text	number	percent
(a)	Worst possible rating	0	0.0%
(b)	Below average	0	0.0%
(c)	Average	2	16.7%
(d)	Above average	3	25.0%
(e)	Best possible rating	7	58.3%
	Not Answered	0	0.0%

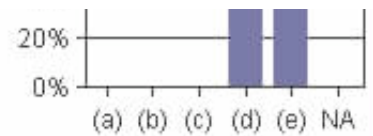


7) What is your overall rating of this course? (12 answered)

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

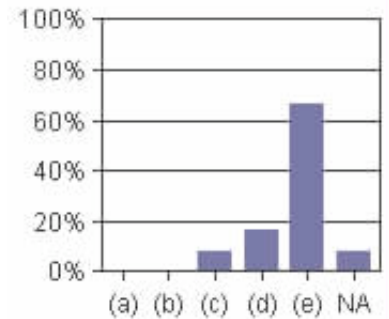


(d)	Above average	5	41.7%
(e)	Best possible rating	7	58.3%
	Not Answered	0	0.0%



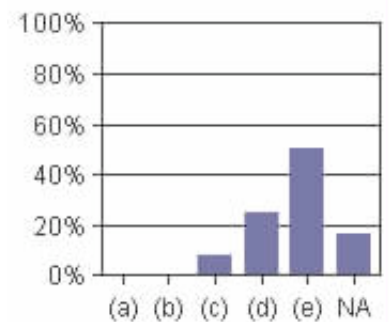
8) What is your overall rating of this instructor? (11 answered)

option	text	number	percent
(a)	Worst possible rating	0	0.0%
(b)	Below average	0	0.0%
(c)	Average	1	8.3%
(d)	Above average	2	16.7%
(e)	Best possible rating	8	66.7%
	Not Answered	1	8.3%



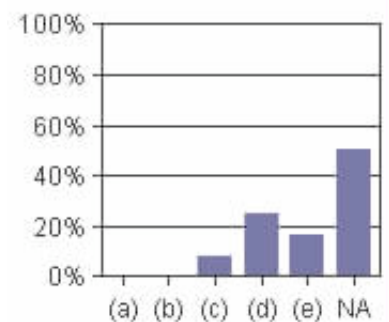
9) In general, were the laboratory experiments of value either in developing techniques and experience or in contributing to understanding the subject? (10 answered)

option	text	number	percent
(a)	Of little value.	0	0.0%
(b)	Somewhat valuable.	0	0.0%
(c)	Moderately valuable.	1	8.3%
(d)	Very valuable.	3	25.0%
(e)	Extremely valuable.	6	50.0%
	Not Answered	2	16.7%



10) Concerning the organization of the laboratory, the materials, supplies, and room were usually: (6 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	8.3%
(d)	Well organized and more than adequate.	3	25.0%
(e)	Extremely well organized and excellent.	2	16.7%
	Not Answered	6	50.0%



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

Awesome job presenting the material, keeping students engaged, and consistently answering the question "why do we care about this in real life?" It was good that he was available for extra help and clarification of class material.

- Obvious knowledge of course content was impressive. The professor showed true care for the students, learning, and the topic matter.

The material was presented in a way that was easy to understand. Prof.

- Salvaggio did a great job relating the material and techniques to "real world" applications. I really enjoyed attending lecture and often rewatched the lectures online.
- Good use of breaks. Well organized material into separate topics. Did not over-load the course.
- Great examples and dialog with class. Gets excited to discuss topics presented by class.

12) Your instructor would like to know what should be done to improve the teaching of this course. (4 answered)

Re-consider the spacing between labs. I felt like some of them had lots of time for completion, while some (the very last one) came pretty quick for the amount of work required.

- The final project was a little tedious when done in Matlab. Considering that most people were using Matlab, a routine for importing data (pixel locations for ROI etc.) from ENVI would have been useful.

I liked the coding experiments the most. The only failure of the course was that there was some overlap between remote sensing and this class;

- however, the last coding exercise was really helpful. I would suggest more detailed discussion on Wavelet and morphological methods be covered in the course.

Some of the labs were frustrating as small details will keep them from

- working. This used lots of time, and made getting the whole lesson difficult.

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

- This course combined several elements of the digital imaging math class and the remote sensing class in a great way.
- Build on DIM.

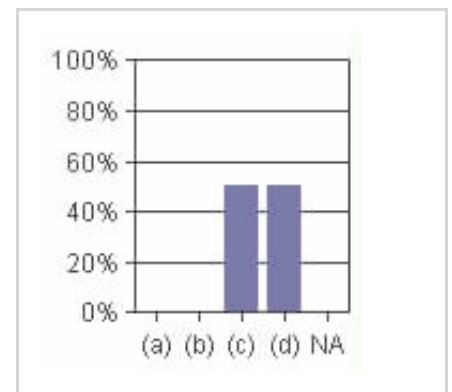
OCE - COURSE SUMMARY REPORT

Instructor 1: Salvaggio, Carl
Course: 1051-782-90 Intro To Dig Img Process
Quarter: 20083
Total responses: 2

PART 1

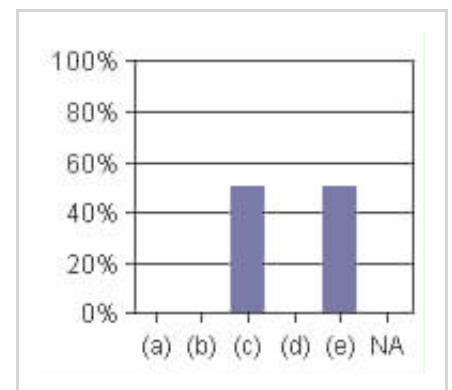
1) Your initial desire to take this course was: (2 answered)

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%



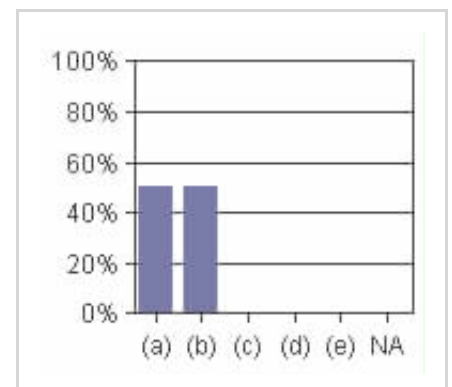
2) For your background and ability, this course was: (2 answered)

option	text	number	percent
(a)	very elementary	0	0.0%
(b)	somewhat elementary	0	0.0%
(c)	about right	1	50.0%
(d)	somewhat difficult	0	0.0%
(e)	very difficult	1	50.0%
	Not Answered	0	0.0%



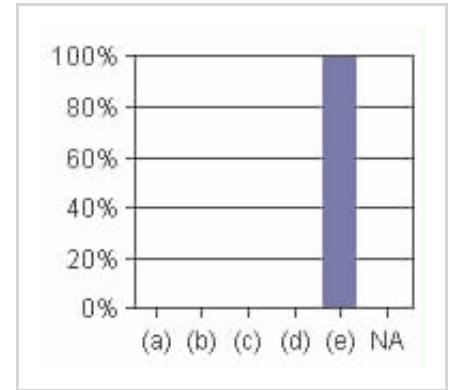
3) What grade do you expect to receive in this course? (2 answered)

option	text	number	percent
(a)	A	1	50.0%
(b)	B	1	50.0%
(c)	C	0	0.0%
(d)	D	0	0.0%
(e)	F	0	0.0%
	Not Answered	0	0.0%



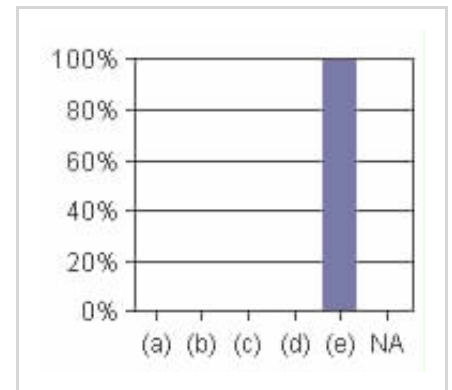
4) How concerned was the instructor that students learn? (2 answered)

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	0	0.0%
(e)	Best possible rating	2	100.0%
	Not Answered	0	0.0%



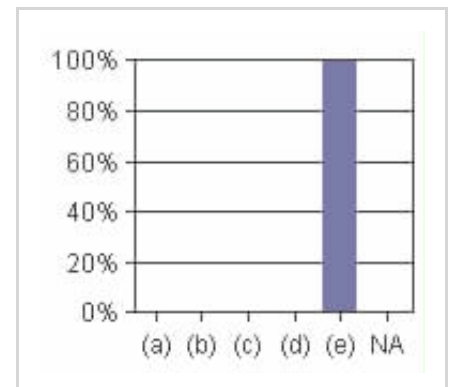
5) How much did the instructor stimulate your thinking and interest in the subject? (2 answered)

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	0	0.0%
(e)	Best possible rating	2	100.0%
	Not Answered	0	0.0%



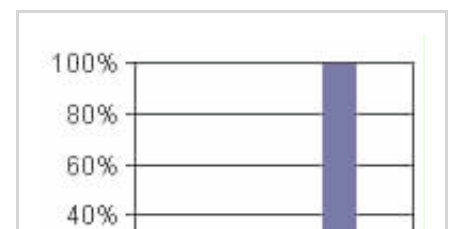
6) How effective was the method of presentation of the course material? (2 answered)

option	text	number	percent
(a)	Worst possible rating	0	0.0%
(b)	Below average	0	0.0%
(c)	Average	0	0.0%
(d)	Above average	0	0.0%
(e)	Best possible rating	2	100.0%
	Not Answered	0	0.0%

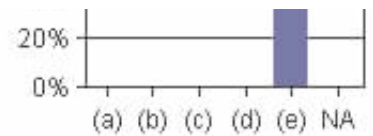


7) What is your overall rating of this course? (2 answered)

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

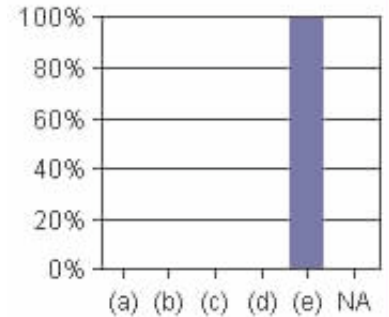


(d)	Above average	0	0.0%
(e)	Best possible rating	2	100.0%
	Not Answered	0	0.0%



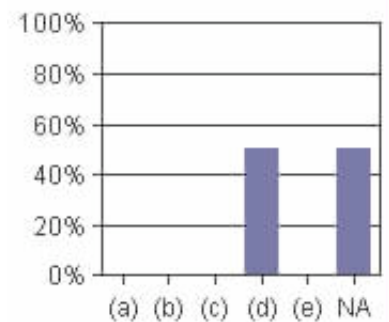
8) What is your overall rating of this instructor? (2 answered)

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	0	0.0%
(e)	Best possible rating	2	100.0%
	Not Answered	0	0.0%



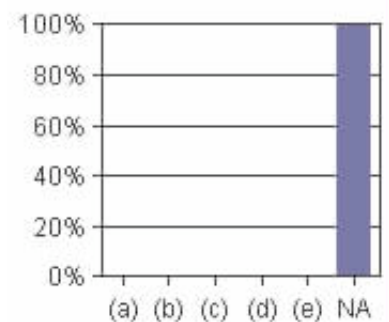
9) In general, were the laboratory experiments of value either in developing techniques and experience or in contributing to understanding the subject? (1 answered)

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	50.0%
(e)	Extremely valuable.	0	0.0%
	Not Answered	1	50.0%



10) Concerning the organization of the laboratory, the materials, supplies, and room were usually: (0 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.	0	0.0%
(e)	Extremely well organized and excellent.	0	0.0%
	Not Answered	2	100.0%



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

Carl was awesome about answering questions (via e-mail) quickly and straightforwardly. Had he not been so good about answering my questions over the weekend, when I had time to work on my projects, I

- would probably have failed this course. The class material was well prepared, and I liked the various demos and examples that were shown. Prior classes I had taken were light on the examples, and they make a huge difference to aid in understanding.

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

The grading of the projects was inconsistent and disproportional to the amount of work involved in a project. The last project, I would have legitimately expected to receive a B grade, since I did not correctly compute the confusion matrices the project instructions required, yet I received 95%. For the 3rd project, the only comment on my paper was

- that I did not write down the formula for the PSNR, and I received 95%. It does not seem to me that one formula, that was obviously computed and used, but not specifically written out, is worth 5% of the project. Especially since the code generated for a project generally took on the order of 2-3 weeks to complete. (The TA was the one actually grading the projects.)

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)

DIP built on things learned from digital imaging math, and tied things together in a practical way. I believe DIM was the only pre-req for this

- course. The course material for DIP was not overly difficult, but my lack of coding experience made the implementation of the projects very difficult for my background.

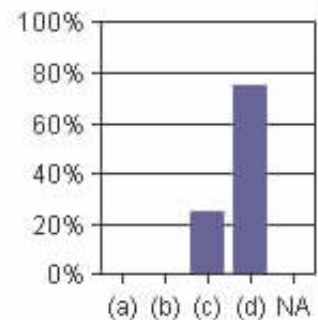
OCE - COURSE SUMMARY REPORT

Instructor 1: Salvaggio, Carl
Course: 1051-782-01 Intro To Dig Img Process
Quarter: 20093
Total responses: 12

PART 1

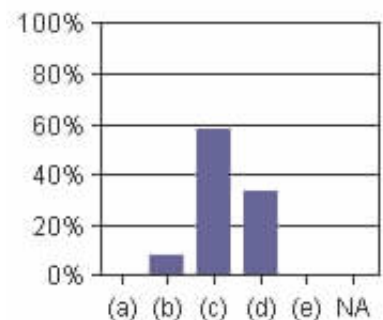
1) Your initial desire to take this course was: (12 answered)

option	text	number	percent
(a)	none at all	0	0.0%
(b)	slight	0	0.0%
(c)	moderate	3	25.0%
(d)	strong	9	75.0%
	Not Answered	0	0.0%



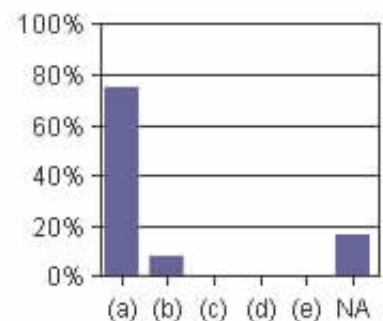
2) For your background and ability, this course was: (12 answered)

option	text	number	percent
(a)	very elementary	0	0.0%
(b)	somewhat elementary	1	8.3%
(c)	about right	7	58.3%
(d)	somewhat difficult	4	33.3%
(e)	very difficult	0	0.0%
	Not Answered	0	0.0%



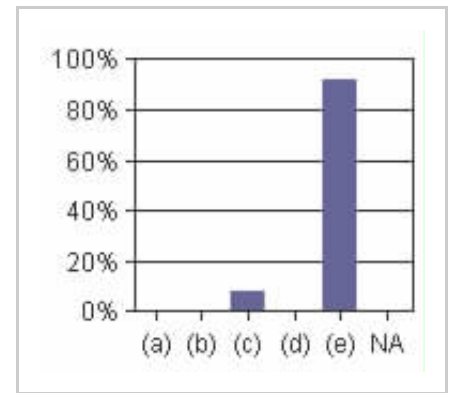
3) What grade do you expect to receive in this course? (10 answered)

option	text	number	percent
(a)	A	9	75.0%
(b)	B	1	8.3%
(c)	C	0	0.0%
(d)	D	0	0.0%
(e)	F	0	0.0%
	Not Answered	2	16.7%



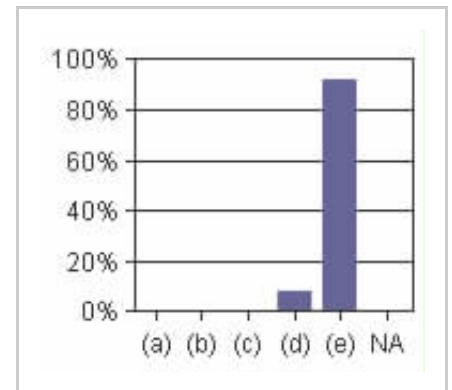
4) How concerned was the instructor that students learn? (12 answered)

option	text	number	percent
(a)	Worst possible rating	0	0.0%
(b)	Below average	0	0.0%
(c)	Average	1	8.3%
(d)	Above average	0	0.0%
(e)	Best possible rating	11	91.7%
	Not Answered	0	0.0%



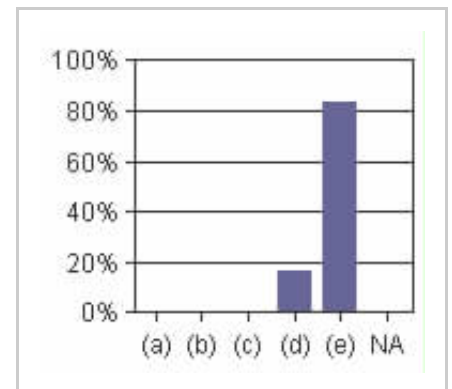
5) How much did the instructor stimulate your thinking and interest in the subject? (12 answered)

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	8.3%
(e)	Best possible rating	11	91.7%
	Not Answered	0	0.0%



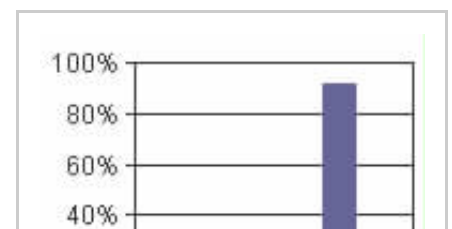
6) How effective was the method of presentation of the course material? (12 answered)

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	16.7%
(e)	Best possible rating	10	83.3%
	Not Answered	0	0.0%

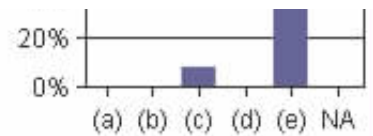


7) What is your overall rating of this course? (12 answered)

option	text	number	percent
(a)	Worst possible rating	0	0.0%
(b)	Below average	0	0.0%
(c)	Average	1	8.3%

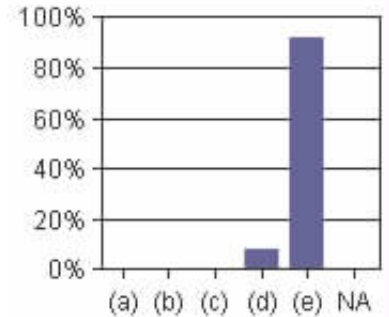


(d)	Above average	0	0.0%
(e)	Best possible rating	11	91.7%
	Not Answered	0	0.0%



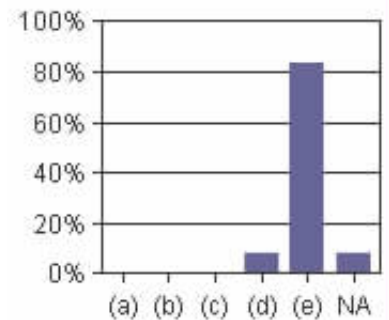
8) What is your overall rating of this instructor? (12 answered)

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	8.3%
(e)	Best possible rating	11	91.7%
	Not Answered	0	0.0%



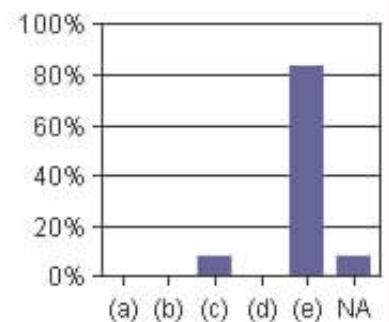
9) In general, were the laboratory experiments of value either in developing techniques and experience or in contributing to understanding the subject? (11 answered)

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	8.3%
(e)	Extremely valuable.	10	83.3%
	Not Answered	1	8.3%



10) Concerning the organization of the laboratory, the materials, supplies, and room were usually: (11 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	8.3%
(d)	Well organized and more than adequate.	0	0.0%
(e)	Extremely well organized and excellent.	10	83.3%
	Not Answered	1	8.3%



11) Your instructor would like to know what you think s/he has done especially well in teaching this course. (7 answered)

- Everything was done perfectly.

He is extremely organized and follows the course syllabus very well. He covers a wide range of topics, meaning a lot of studying, but the topical areas are all very interesting. He is flexible when it comes to doing most of the course projects as well and lets to choose one related to the project at hand.

- Everything was great!

The lecture slides were extremely helpful in understanding the material, breaking down each topic into cohesive parts and building a coherent picture. The background papers on each topic were a bit difficult to follow at times, but coupled with the lectures became a great way to learn.

- The methods are simplified and separated from their math to give an intuitive feel of their purpose and mechanics help fast comprehension. The method is then presented more rigorously and the students are encouraged to read the papers.
- Really loves the class, and loves teaching. Classes are informative, and responds quickly and usefully to e-mails.

This was a great class for me. I was not having much idea about image processing before this class. The way of presenting the lectures and the projects really helped a lot to learn the topic.

12) Your instructor would like to know what should be done to improve the teaching of this course. (4 answered)

- Nothing!

Keeping the project reports to 3 pages seems much better for student workload management, though the page limit seemed difficult to keep within. I would suggest keeping this as a standard.

- I would suggested turning the first lab of the class into a structured learning tool to teach essential of programming in IDL and MATLAB. I know these require a lot of work to built but they would save so much time and headache to students with no or little programming background. A type of "hello world" but instead focused on the tools students are most likely to use in the next labs, perhaps still using the bilateral filters has the main topic.
- Some over-reliance on powerpoint, and some smaller assigned homeworks could be nice to really drive home some of the topics.

13) In what ways did the content of this course build on or integrate material from previous or prerequisite courses in the curriculum? (4 answered)

- Yes the course built upon most of the topics learned in DIM.
- We used material we learned in many courses.

The most valuable part of the course was performing independent background research on a particular topic and then implementing the research. This helped bring all the knowledge from the class as well as the digital imaging math and Fourier together. The final project of course was great at bridging the Remote Sensing and Digital Image

Processing concepts.

- Used a bit of what was taught in DIM and we implemented some methods introduced in Remote Sensing.

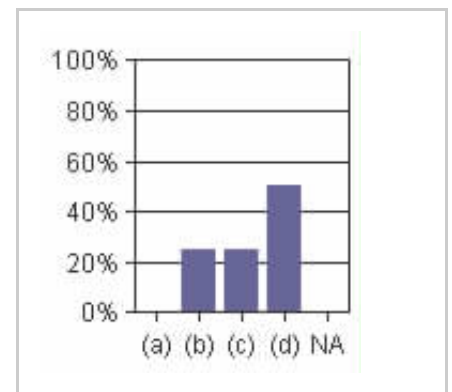
OCE - COURSE SUMMARY REPORT

Instructor 1: Salvaggio, Carl
Course: 1051-782-90 Intro To Dig Img Process
Quarter: 20093
Total responses: 4

PART 1

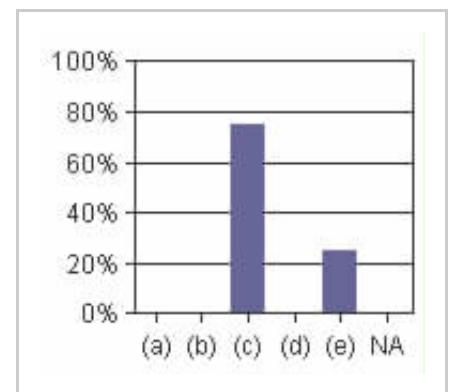
1) Your initial desire to take this course was: (4 answered)

option	text	number	percent
(a)	none at all	0	0.0%
(b)	slight	1	25.0%
(c)	moderate	1	25.0%
(d)	strong	2	50.0%
	Not Answered	0	0.0%



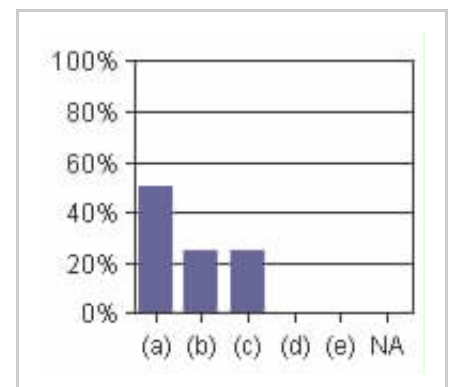
2) For your background and ability, this course was: (4 answered)

option	text	number	percent
(a)	very elementary	0	0.0%
(b)	somewhat elementary	0	0.0%
(c)	about right	3	75.0%
(d)	somewhat difficult	0	0.0%
(e)	very difficult	1	25.0%
	Not Answered	0	0.0%



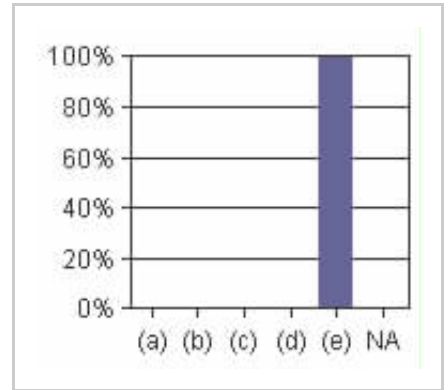
3) What grade do you expect to receive in this course? (4 answered)

option	text	number	percent
(a)	A	2	50.0%
(b)	B	1	25.0%
(c)	C	1	25.0%
(d)	D	0	0.0%
(e)	F	0	0.0%
	Not Answered	0	0.0%



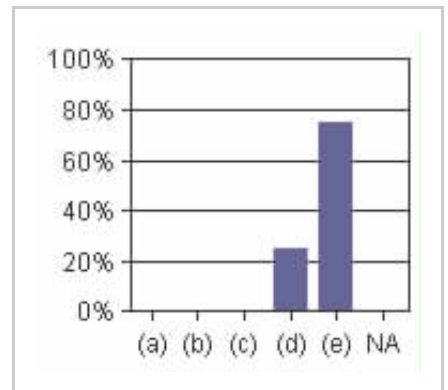
4) How concerned was the instructor that students learn? (4 answered)

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	4	100.0%
	Not Answered	0	0.0%



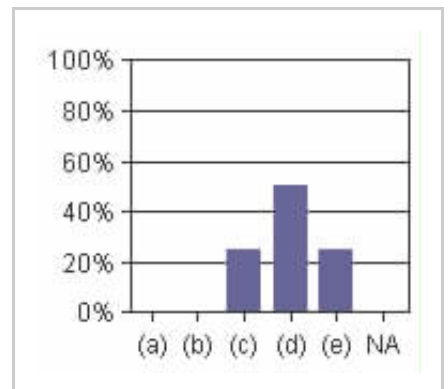
5) How much did the instructor stimulate your thinking and interest in the subject? (4 answered)

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	25.0%
(e)	Best possible rating	3	75.0%
	Not Answered	0	0.0%



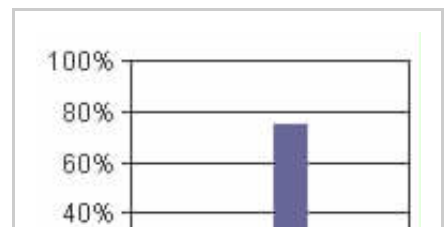
6) How effective was the method of presentation of the course material? (4 answered)

option	text	number	percent
(a)	Worst possible rating	0	0.0%
(b)	Below average	0	0.0%
(c)	Average	1	25.0%
(d)	Above average	2	50.0%
(e)	Best possible rating	1	25.0%
	Not Answered	0	0.0%

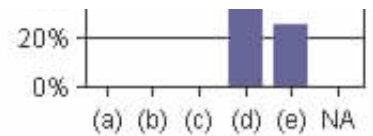


7) What is your overall rating of this course? (4 answered)

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

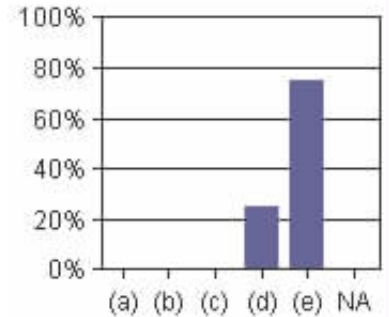


(d)	Above average	3	75.0%
(e)	Best possible rating	1	25.0%
	Not Answered	0	0.0%



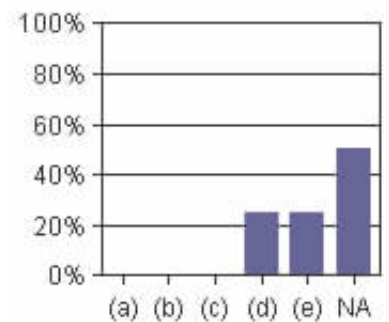
8) What is your overall rating of this instructor? (4 answered)

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	25.0%
(e)	Best possible rating	3	75.0%
	Not Answered	0	0.0%



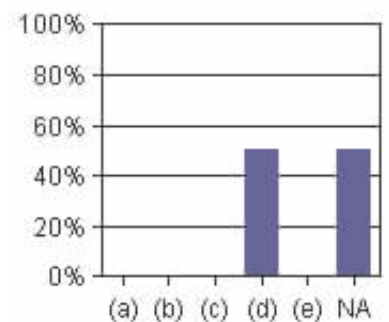
9) In general, were the laboratory experiments of value either in developing techniques and experience or in contributing to understanding the subject? (2 answered)

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	25.0%
(e)	Extremely valuable.	1	25.0%
	Not Answered	2	50.0%



10) Concerning the organization of the laboratory, the materials, supplies, and room were usually: (2 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	50.0%
(e)	Extremely well organized and excellent.	0	0.0%
	Not Answered	2	50.0%



11) Your instructor would like to know what you think s/he has done especially well in teaching this course. (4 answered)

Dr Salvaggio was engaging and enthusiastic about the material. He not only presented the material we needed to learn but he also challenged

- us to go beyond the material and find other dimensions related to this subject. The subject is relevant and interesting and Dr Salvaggio was able to relay that.

Always concerned about the learning value first and foremost. Willing to

- work with students on deadlines if they have other things going on. Always able to assist with issues that come up in the labs.

- I really liked how we searched for papers and then implemented the algorithms.

The topics covered, and the amount of time on each seemed

- appropriate. At first it seemed to come too quickly, but after some settling in, I think it was paced well.

12) Your instructor would like to know what should be done to improve the teaching of this course. (4 answered)

- Some of the pdf documents of the slides used in the lectures had minor technical issues.

Some of your slides covering very important concepts have no text on them, only diagrams. In terms of reviewing slides to study it is difficult

- to go back and find the exact point in the online lectures. It is also much more time consuming this way, both in finding the point and in having to actually watch lecture again just for a review.

Sometimes writing all those papers were a little stressful-- I learned a lot, but it took quite a bit of time. I'd rather have something like "pick 2

- topics to implement from the literature" and then have smaller HW assignments that reinforce the ideas. I learned more from the projects than the tests. I'd also like to see more math (because I'm a math nerd).

It would be better to have changes to the projects written out so that when going back to do the project, you can see the current

- requirements in the assignment PDF. A second thing, that would apply to classes in general, with regard to the recordings: the volume is drastically different between the in-class students and the teacher, so it is hard to hear the questions that are being answered. I suppose the simplest solution would be to restate the question.

13) In what ways did the content of this course build on or integrate material from previous or prerequisite courses in the curriculum? (3 answered)

- It was the application of the previous courses where the math that was taught was used for real world technology.

- Did not take any prerequisite course. Definitely seemed to include a lot of knowledge that would have been helpful had I taken these courses.

- It's a logical progression from DIM.

OCE - COURSE SUMMARY REPORT

Instructor 1: Salvaggio, Carl
Course: 1051-782-01 Intro To Dig Img Process
Quarter: 20103
Total responses: 21

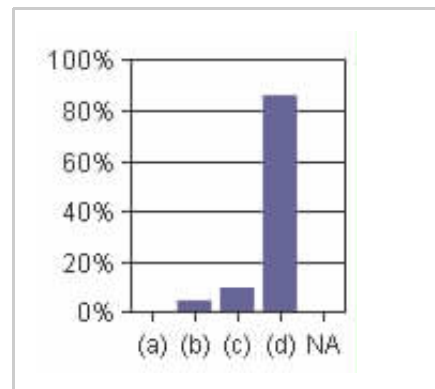
PART 1

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

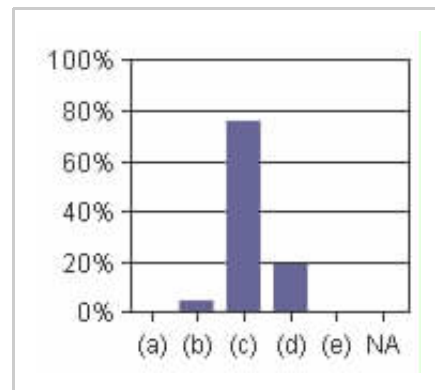
1) Your initial desire to take this course was: (21 answered)

option	text	number	percent
(a)	none at all	0	0.0%
(b)	slight	1	4.8%
(c)	moderate	2	9.5%
(d)	strong	18	85.7%
	Not Answered	0	0.0%



2) For your background and ability, this course was: (21 answered)

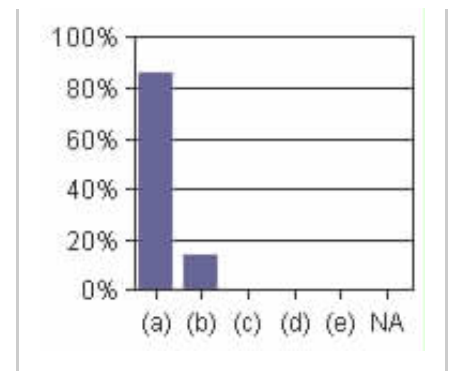
option	text	number	percent
(a)	very elementary	0	0.0%
(b)	somewhat elementary	1	4.8%
(c)	about right	16	76.2%
(d)	somewhat difficult	4	19.0%
(e)	very difficult	0	0.0%
	Not Answered	0	0.0%



3) What grade do you expect to receive in this course? (21 answered)



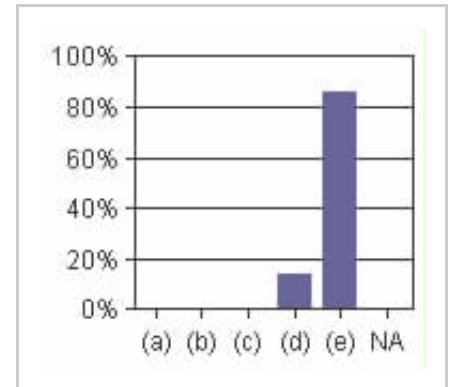
option	text	number	percent
(a)	A	18	85.7%
(b)	B	3	14.3%
(c)	C	0	0.0%
(d)	D	0	0.0%
(e)	F	0	0.0%
	Not Answered	0	0.0%



Section Two: General Questions

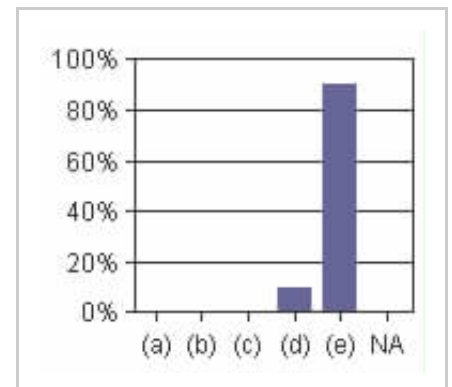
4) How concerned was the instructor that students learn? (21 answered)

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	14.3%
(e)	Best possible rating	18	85.7%
	Not Answered	0	0.0%



5) How much did the instructor stimulate your thinking and interest in the subject? (21 answered)

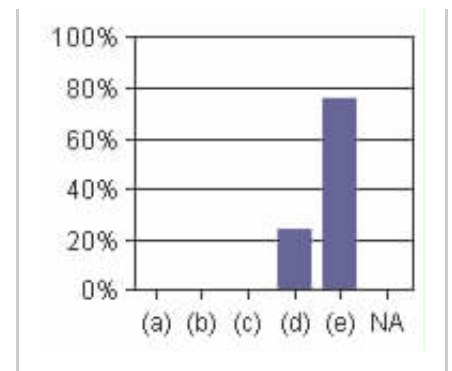
option	text	number	percent
(a)	Worst possible rating	0	0.0%
(b)	Below average	0	0.0%
(c)	Average	0	0.0%
(d)	Above average	2	9.5%
(e)	Best possible rating	19	90.5%
	Not Answered	0	0.0%



6) How effective was the method of presentation of the course material? (21 answered)

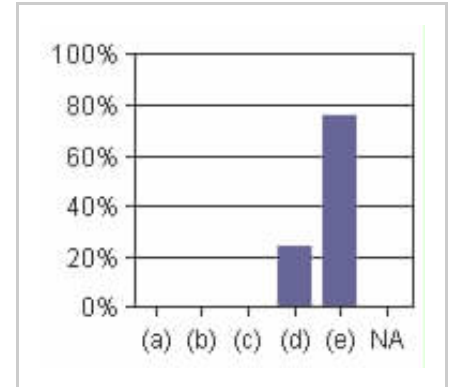


option	text	number	percent
(a)	Worst possible rating	0	0.0%
(b)	Below average	0	0.0%
(c)	Average	0	0.0%
(d)	Above average	5	23.8%
(e)	Best possible rating	16	76.2%
	Not Answered	0	0.0%



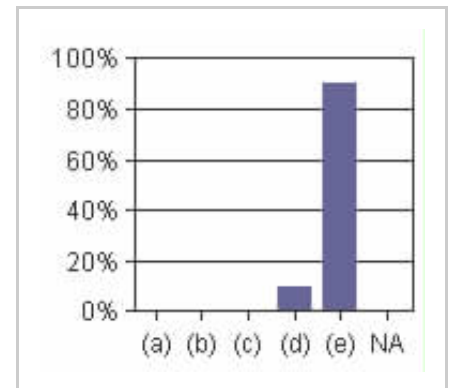
7) What is your overall rating of this course? (21 answered)

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	5	23.8%
(e)	Best possible rating	16	76.2%
	Not Answered	0	0.0%



8) What is your overall rating of this instructor? (21 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	9.5%
(e)	Best possible rating	19	90.5%
	Not Answered	0	0.0%

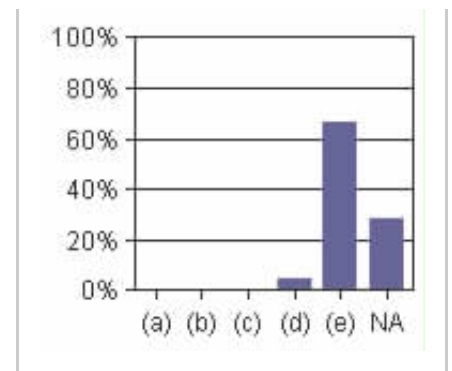


Section Three: Laboratory

9) In general, were the laboratory experiments of value either in developing techniques and experience or in contributing to understanding the subject? (15 answered)

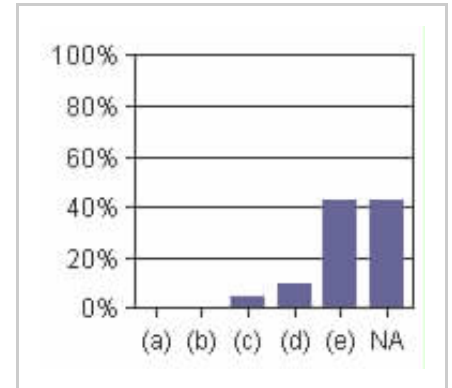


option	text	number	percent
(a)	Of little value.	0	0.0%
(b)	Somewhat valuable.	0	0.0%
(c)	Moderately valuable.	0	0.0%
(d)	Very valuable.	1	4.8%
(e)	Extremely valuable.	14	66.7%
	Not Answered	6	28.6%



10) Concerning the organization of the laboratory, the materials, supplies, and room were usually: (12 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	4.8%
(d)	Well organized and more than adequate.	2	9.5%
(e)	Extremely well organized and excellent.	9	42.9%
	Not Answered	9	42.9%



Section Four: Comments

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

Honestly, this is the best course I've ever taken in my life. May be it also because I've been having interest in this topic for a long time, I even bought a textbook and tried to study by my own but I gave up.. It's kind of exciting to learn that we can do so many things with digital images.

- All the topics are intersting, your lecture is well explained and I enjoy coding very much. So much I've learned from this course. It's a pity that I have 3 courses and I don't have much time studying or working in each project. If I have more time, I'd surely get more out of this course.

The projects are really helpful to get a better understanding of the

- knowledge about digital image processing. And also a good practice on group work.

- Nice, always smile. Seems know every thing. And I like the projects in this course.

I've heard all year about how amazing Carl is as a professor, and I'm so glad that I finally was able to take a course with him! He is extremely well organized, and has a real knack for explaining the material. He

- truly cares about the students understanding the material, and I wouldn't hesitate recommending a class with him to anybody! The projects were challenging but also extremely rewarding, and actually implementing the algorithms was so helpful. The course was great!

I liked the projects throughout the quarter. They helped me learn the

- concepts and it was interesting implementing the things we had learned throughout the year. I also liked how the instructor was often available for help outside of class.

The instructor presented the topic very elaborately and also in a way

- which was very easy to understand. I like the structure of the course. The assignments which he gave us to do were extremely valuable.

- The projects were really very helpful. I now have learnt the skill to read scientific papers and also to write them along with DSP.

- The project were really great for learning practical concepts as well as coding skills.

- This topic form course is quite interesting. We learn some technique and then implement it by ourselves. This is great. I don't like DIP course starting from Fourier transform.

- By far one of the best professors I've had in the department. I love how approachable he is. I think having an approachable professor is something that can make or break a class and Prof. Salvaggio does a great job of ensuring that the students can come to him any time and get coherent, respectful answers. He doesn't talk down to the students like many professors do and doesn't make them feel stupid.

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

- None.
- The class was great, and so is Carl - nothing could be improved!
- none
- The statements for the projects were not very clear. The exam system was not clear.
- I think the exam is not quite necessary , change it to another project is better I think.
- Nothing, I think it was great.

13) In what ways did the content of this course build on or integrate material from previous or prerequisite courses in the curriculum? (3 answered)

- a very good way.
- I liked the application of DIM and Fourier. It made the hard work of those course pay off.
- I used the knowledge of 2 courses i have already taken to do the projects.



ONLINE COURSE EVALUATIONS

COURSE SUMMARY REPORT

Instructor 1: Salvaggio, Carl
Course: 1051-782-01, Intro To Dig Img Process
Quarter: 20103
Total responses: 21 out of 24 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: (21/24 Responded)

A: 0 (0.0%) B: 1 (4.8%) C: 2 (9.5%) D: 18 (85.7%)

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: (21/24 Responded)

A: 0 (0.0%) B: 1 (4.8%) C: 16 (76.2%) D: 4 (19.0%) 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? (21/24 Responded)

A: 18 (85.7%) B: 3 (14.3%) C: 0 (0.0%) 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? (21/24 Responded)

A: 0 (0.0%) B: 0 (0.0%) C: 0 (0.0%) D: 3 (14.3%) E: 18 (85.7%)

E

5) How much did the instructor stimulate your thinking and interest in the subject? (21/24 Responded)

A: 0 (0.0%) B: 0 (0.0%) C: 0 (0.0%) D: 2 (9.5%) E: 19 (90.5%)

E

6) How effective was the method of presentation of the course material? (21/24 Responded)

A: 0 (0.0%) B: 0 (0.0%) C: 0 (0.0%) D: 5 (23.8%) E: 16 (76.2%)

E

7) What is your overall rating of this course? (21/24 Responded)

A: 0 (0.0%) B: 0 (0.0%) C: 0 (0.0%) D: 5 (23.8%) E: 16 (76.2%)

E

8) What is your overall rating of this instructor? (21/24 Responded)

A: 0 (0.0%) B: 0 (0.0%) C: 0 (0.0%) D: 2 (9.5%) E: 19 (90.5%)

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? (15/24 Responded)

A: 0 (0.0%) B: 0 (0.0%) C: 0 (0.0%) D: 1 (4.8%) E: 14 (66.7%)

E

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: (12/24 Responded)

A: 0 (0.0%) B: 0 (0.0%) C: 1 (4.8%) D: 2 (9.5%) E: 9 (42.9%)

E

11) Your instructor would like to know what you think s/he has done especially well in teaching this course. (10/24 Responded)

- Honestly, this is the best course I've ever taken in my life. May be it also because I've been having interest in this topic for a long time, I even bought a textbook and tried to study by my own but I gave up.. It's kind of exciting to learn that we can do so many things with digital images. All the topics are interesting, your lecture is well explained and I enjoy coding very much. So much I've learned from this course. It's a pity that I have 3 courses and I don't have much time studying or working in each project. If I have more time, I'd surely get more out of this course.
- The projects are really helpful to get a better understanding of the knowledge about digital image processing. And also a good practice on group work.
- Nice, always smile. Seems know every thing. And I like the projects in this course.
- I've heard all year about how amazing Carl is as a professor, and I'm so glad that I finally was able to take a course with him! He is extremely well organized, and has a real knack for explaining the material. He truly cares about the students understanding the material, and I wouldn't hesitate recommending a class with him to anybody! The projects were challenging but also extremely rewarding, and actually implementing the algorithms was so helpful. The course was great!
- I liked the projects throughout the quarter. They helped me learn the concepts and it was interesting implementing the things we had learned throughout the year. I also liked how the instructor was often available for help outside of class.
- The instructor presented the topic very elaborately and also in a way which was very easy to understand. I like the structure of the course. The assignments which he gave us to do were extremely valuable.
- The projects were really very helpful. I now have learnt the skill to read scientific papers and also to write them along with DSP.
- The project were really great for learning practical concepts as well as coding skills.
- This topic from course is quite interesting. We learn some technique and then implement it by ourselves. This is great. I don't like DIP course starting from Fourier transform.
- By far one of the best professors I've had in the department. I love how approachable he is. I think having an approachable professor is something that can make or break a class and Prof. Salvaggio does a great job of ensuring that the students can come to him any time and get coherent, respectful answers. He doesn't talk down to the students like many professors do and doesn't make them feel stupid.

12) Your instructor would like to know what should be done to improve the teaching of this course. (6/24 Responded)

- None.
- The class was great, and so is Carl - nothing could be improved!
- none
- The statements for the projects were not very clear. The exam system was not clear.
- I think the exam is not quite necessary , change it to another project is better I think.
- Nothing, I think it was great.

13) In what ways did the content of this course build on or integrate material from previous or prerequisite courses in the curriculum? (3/24 Responded)

- a very good way.
- I liked the application of DIM and Fourier. It made the hard work of those course pay off.
- I used the knowledge of 2 courses i have already taken to do the projects.

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OCE - COURSE SUMMARY REPORT

Instructor 1: Salvaggio, Carl
Course: 1051-782-01 Digital Image Processing
Quarter: 20123
Total responses: 4

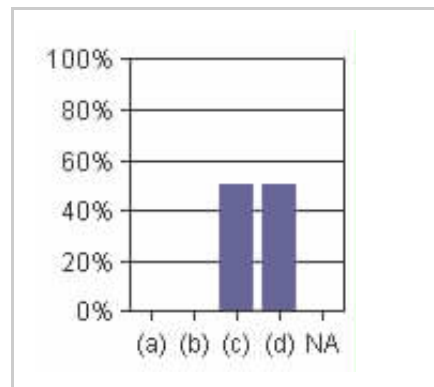
PART 1

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

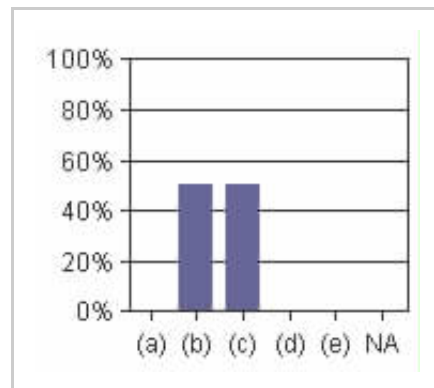
1) Your initial desire to take this course was: (4 answered)

option	text	number	percent
(a)	none at all	0	0.0%
(b)	slight	0	0.0%
(c)	moderate	2	50.0%
(d)	strong	2	50.0%
	Not Answered	0	0.0%



2) For your background and ability, this course was: (4 answered)

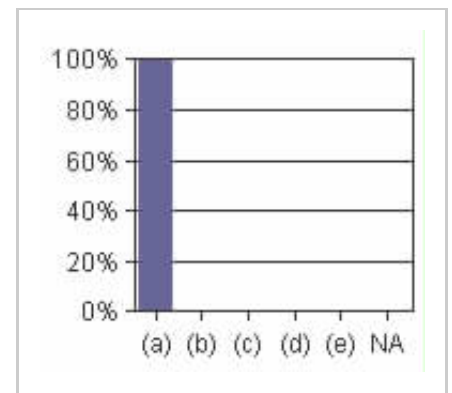
option	text	number	percent
(a)	very elementary	0	0.0%
(b)	somewhat elementary	2	50.0%
(c)	about right	2	50.0%
(d)	somewhat difficult	0	0.0%
(e)	very difficult	0	0.0%
	Not Answered	0	0.0%



3) What grade do you expect to receive in this course? (4 answered)

option	text	number	percent
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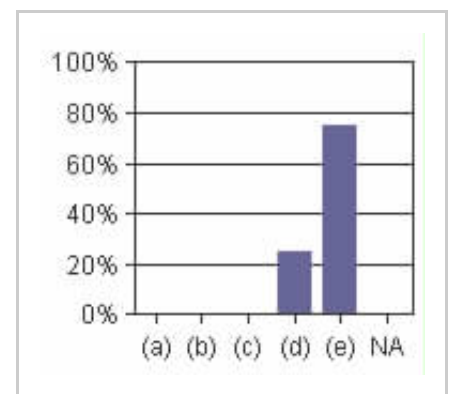
(a)	A	4	100.0%
(b)	B	0	0.0%
(c)	C	0	0.0%
(d)	D	0	0.0%
(e)	F	0	0.0%
	Not Answered	0	0.0%



Section Two: General Questions

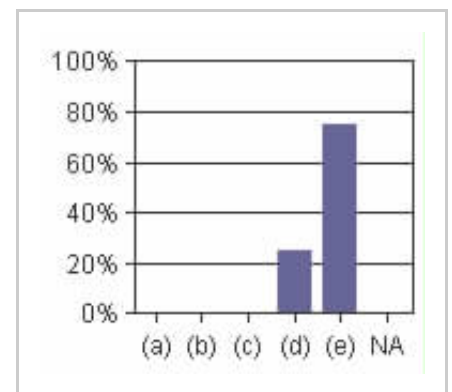
4) How concerned was the instructor that students learn? (4 answered)

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	25.0%
(e)	Best possible rating	3	75.0%
	Not Answered	0	0.0%



5) How much did the instructor stimulate your thinking and interest in the subject? (4 answered)

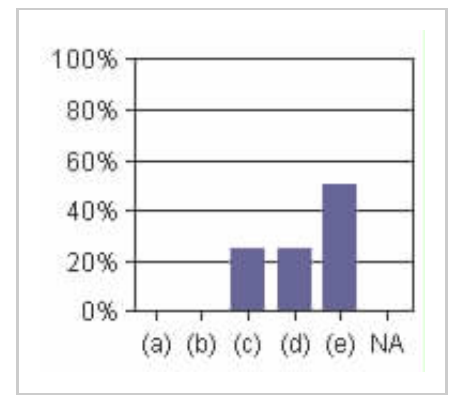
option	text	number	percent
(a)	Worst possible rating	0	0.0%
(b)	Below average	0	0.0%
(c)	Average	0	0.0%
(d)	Above average	1	25.0%
(e)	Best possible rating	3	75.0%
	Not Answered	0	0.0%



6) How effective was the method of presentation of the course material? (4 answered)

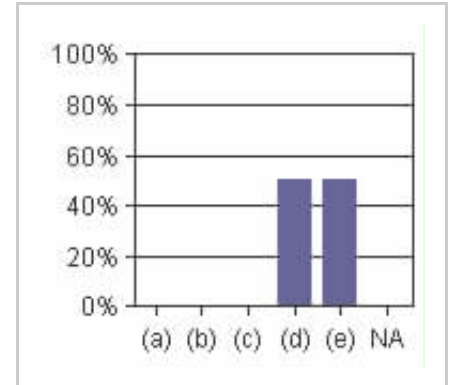
option	text	number	percent
(a)	Worst possible rating	0	0.0%
(b)	Below average	0	0.0%
(c)	Average	1	25.0%

(d)	Above average	1	25.0%
(e)	Best possible rating	2	50.0%
	Not Answered	0	0.0%



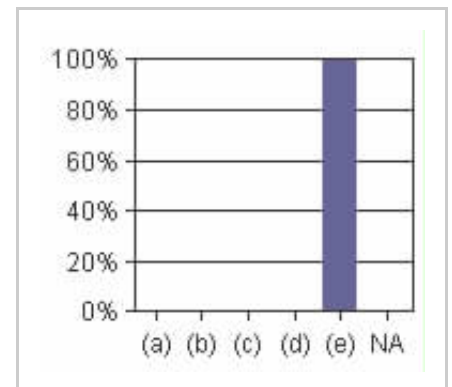
7) What is your overall rating of this course? (4 answered)

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	50.0%
(e)	Best possible rating	2	50.0%
	Not Answered	0	0.0%



8) What is your overall rating of this instructor? (4 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	4	100.0%
	Not Answered	0	0.0%

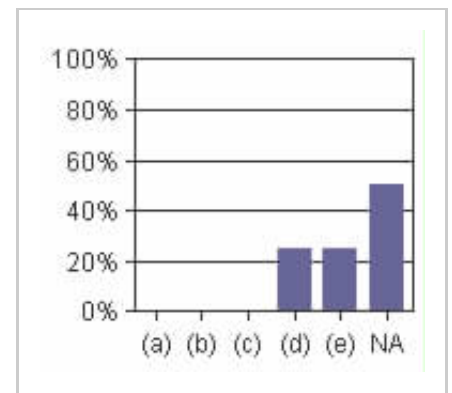


Section Three: Laboratory

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

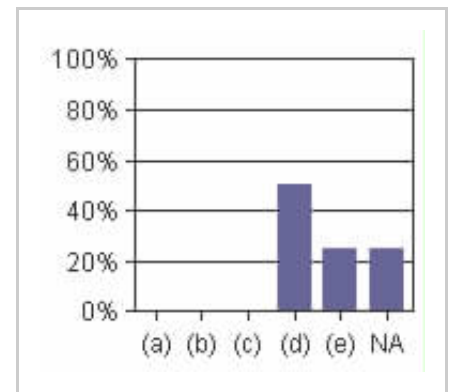
option	text	number	percent
(a)	Of little value.	0	0.0%
(b)	Somewhat valuable.	0	0.0%
(c)	Moderately valuable.	0	0.0%

(d)	Very valuable.	1	25.0%
(e)	Extremely valuable.	1	25.0%
	Not Answered	2	50.0%



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	50.0%
(e)	Extremely well organized and excellent.	1	25.0%
	Not Answered	1	25.0%



Section Four: Comments

11) Your instructor would like to know what you think s/he has done especially well in teaching this course. (4 answered)

- The projects were excellent, it was fun and I definitely learnt a lot!
Everything was done perfectly, and met the needs of the students.
- The instructor was very kind to listen to all what the student suggested and made out a class of what the students needs to learn.
The projects were helpful in understanding some of the concepts and building confidence that we could actually implement algorithms ourselves. Carl was an excellent teacher - class was always interesting and fun.
- Being able to adapt the course to meet real world needs. The scantron project was a good example of this adaptation. Overall, this was a very good experience.

12) Your instructor would like to know what should be done to improve the teaching of this course. (4 answered)

- I can't think of anything as such! probably put in a few more advanced topics?
- From my perspective (and it could be wrong), I would suggest less

- material on Image Compression, and more into image data analysis, Image segmentation, Video processing, and other interesting computer vision skills. - I would recommend enabling the students to conduct experiments with the available equipments such as different sensors for the final projects. This will add a great experience to them which will reduce the learning curve once they start their THESIS projects.

- Not having exams seemed like a great idea when we were not having them, but when we went through the comp exam questions during the last class, I realized that not having at least a final had let us slide into not making sure we actually *got* all the material we covered during class. I think having a final exam would allow for some more complex projects (like the scantron project) that could replace a midterm, but also ensure that we have to review the material as we go through the class.

- By replacing the registration assignment with a group project, all members were able to learn how to code the registration project. Also, while projects are good experience, not having exams makes it difficult to grasp all of the concepts expected out of this class.

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

- It was a great build over the two previously taken courses - Fourier in Imaging, and Digital Image Math.
- We've been working on Matlab coding throughout the year, so this was a good capstone to that coding.



ONLINE COURSE EVALUATIONS

COURSE SUMMARY REPORT

Instructor 1: Salvaggio, Carl
 Course: 1051-782-01, Digital Image Processing
 Quarter: 20123
 Total responses: 4 out of 16 students.

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

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

1) Your initial desire to take this course was: (4/16 Responded)

A: 0 (0.0%) B: 0 (0.0%) C: 2 (50.0%) D: 2 (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: (4/16 Responded)

A: 0 (0.0%) B: 2 (50.0%) C: 2 (50.0%) D: 0 (0.0%) E: 0 (0.0%)

B,C

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

3) What grade do you expect to receive in this course? (4/16 Responded)

A: 4 (100.0%) B: 0 (0.0%) C: 0 (0.0%) 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? (4/16 Responded)

A: 0 (0.0%) B: 0 (0.0%) C: 0 (0.0%) D: 1 (25.0%) E: 3 (75.0%)

E

5) How much did the instructor stimulate your thinking and interest in the subject? (4/16 Responded)

A: 0 (0.0%) B: 0 (0.0%) C: 0 (0.0%) D: 1 (25.0%) E: 3 (75.0%)

E

6) How effective was the method of presentation of the course material? (4/16 Responded)

A: 0 (0.0%) B: 0 (0.0%) C: 1 (25.0%) D: 1 (25.0%) E: 2 (50.0%)

E

7) What is your overall rating of this course? (4/16 Responded)

A: 0 (0.0%) B: 0 (0.0%) C: 0 (0.0%) D: 2 (50.0%) E: 2 (50.0%)

D,E

8) What is your overall rating of this instructor? (4/16 Responded)

A: 0 (0.0%) B: 0 (0.0%) C: 0 (0.0%) D: 0 (0.0%) E: 4 (100.0%)

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? (2/16 Responded)

A: 0 (0.0%) B: 0 (0.0%) C: 0 (0.0%) D: 1 (25.0%) E: 1 (25.0%)

D,E

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: (3/16 Responded)

D

A: 0 (0.0%)

B: 0 (0.0%)

C: 0 (0.0%)

D: 2 (50.0%)

E: 1 (25.0%)



11) Your instructor would like to know what you think s/he has done especially well in teaching this course. (4/16 Responded)

- The projects were excellent, it was fun and I definitely learnt a lot!
- Everything was done perfectly, and met the needs of the students. The instructor was very kind to listen to all what the student suggested and made out a class of what the students needs to learn.
- The projects were helpful in understanding some of the concepts and building confidence that we could actually implement algorithms ourselves. Carl was an excellent teacher - class was always interesting and fun.
- Being able to adapt the course to meet real world needs. The scantron project was a good example of this adaptation. Overall, this was a very good experience.

12) Your instructor would like to know what should be done to improve the teaching of this course. (4/16 Responded)

- I can't think of anything as such! probably put in a few more advanced topics?
- - From my perspective (and it could be wrong), I would suggest less material on Image Compression, and more into image data analysis, Image segmentation, Video processing, and other interesting computer vision skills. - I would recommend enabling the students to conduct experiments with the available equipments such as different sensors for the final projects. This will add a great experience to them which will reduce the learning curve once they start their THESIS projects.
- Not having exams seemed like a great idea when we were not having them, but when we went through the comp exam questions during the last class, I realized that not having at least a final had let us slide into not making sure we actually *got* all the material we covered during class. I think having a final exam would allow for some more complex projects (like the scantron project) that could replace a midterm, but also ensure that we have to review the material as we go through the class.
- By replacing the registration assignment with a group project, all members were able to learn how to code the registration project. Also, while projects are good experience, not having exams makes it difficult to grasp all of the concepts expected out of this class.

13) In what ways did the content of this course build on or integrate material from previous or prerequisite courses in the curriculum? (2/16 Responded)

- It was a great build over the two previously taken courses - Fourier in Imaging, and Digital Image Math.
- We've been working on Matlab coding throughout the year, so this was a good capstone to that coding.

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A: 0 (0.0%)

B: 0 (0.0%)

C: 0 (0.0%)

D: 0 (0.0%)

E: 0 (0.0%)



11) Your instructor would like to know what you think s/he has done especially well in teaching this course. (0/5 Responded)

12) Your instructor would like to know what should be done to improve the teaching of this course. (1/5 Responded)

- A lot of interesting information was covered in this class. I would have liked it if the projects were a little shorter so that we could do more of them. I would enjoyed creating a digital watermarking program in addition to the assigned ones but didn't have time. Also, we spent quite a bit of time talking about image compression but did not have a project on this either.

13) In what ways did the content of this course build on or integrate material from previous or prerequisite courses in the curriculum? (0/5 Responded)

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