Instructor: **Maxwell, Bruce**

Subject: **CS**

Catalog & Section: **5330 01**

Course ID: **36458**

Objectives:

Enrollment: **82**

Responses Incl Declines: **36**

Declines: **1**

Instructor Related Questions: Bruce Maxwell (50 comments)

Q: What were the strengths of this course and/or this instructor?

1. To the point and very crisp notes of professor, assignments and final projects, are the heart and soul of this course.

2. Professor Maxwell is a great teacher, and presented a ton of information in a way that was both digestible and interesting. He managed to bounce between topics in physics, engineering, computer science, and machine learning while providing enough context to understand the topics without losing focus on their application in Computer Vision.

3. One of the best course instructors we can ask for

4. The professor clearly is very knowledgable and passionate about the subject. He also offers accommodations for late assignments, and overall is a respectful and nice professor to interact with. The professor initially included tutorials that were extremely helpful in completing the homework.

5. Very organized course

6. The pacing and content in the course is spot on

7. The instructor was technically strong and had in-depth knowledge on the course content.

8. I would say the assignments help us understand the theoretical aspects of the course better and develop solid projects for us as well.

9. Highly experienced, humble, and motivated professor. A must course for anyone starting with CV.

10. Professor Bruce was very knowledgeable and his enthusiasm for the subject matter shows. Attending his lectures is a great experience. He delivers the subject material very clearly.

11. very patient

12. The course was very informative. The professor explained every concept nicely. The exams were also intuitive and really interesting.

13. Very well structured

14. The core strength of this course is Professor Bruce Maxwell, this course focuses on both the classical and modern computer vision unlike focusing only on either of them.

15. Good structure

16. It is an amazing fundamental Computer vision course and the professor is one of the best and most knowledgeable in the field of PRCV.

17. Appears to understand the material they are teaching.

Q: What could the instructor do to make this course better?

1. For learning computer vision concepts everyone should take this class, If possible, Northeastern University should call professor bruce to Boston atleast twice or thrice in a semester, so that students can meet the professor and develop a personal bonding with him.

   The professor should also give/show animation videos for teaching the concepts, always teaching while writing makes the class monotonous and boring sometimes.

2. I think having a few light homework assignments, maybe in exchange for one of the projects and giving a bit more time to the others, could help with learning some of the concepts better. The assignments could cover topics that weren't addressed in the projects, such as Gabor filters and background images. Studying for the tests by listening to the lectures was effective, but I think having some light homework assignments could've reinforced the knowledge a bit as well.

3. Probably having the course in person would have been more efficient and the duration of the course could have been slightly reduced rather than 3 hours straight

4. There is a big disconnect between what is taught in the lectures and the assignments that are given. The exams are directly relevant to the lecture material which I appreciated, but I do not believe I was prepared for an assignment by the lecture material in most cases. The professor talked in depth about advanced topics but would reference terms and concepts without explanations often, assuming we already knew what they meant. I believe utilizing more lecture time to actually writing code relevant to the topics would've been very beneficial.

5. make grading more specific

6. teach in person

7. The expectations on the extensions could be much clearer as I did not know how much exactly was expected from us. Also, a major drawback would be the feedback for the assignments/ project that arrived over a month late making it hard to correct my mistakes for the next project.

8. Could not think of anything as of now

9. More organized/prepared lecture notes would be helpful

10. nothing. the course is really good.

11. Instead of 3 hours lecture in a straight. The course can be divided into 2 lectures as attending online class for 3 hours is difficult.

12. Discuss more real world problems

13. The feedback for the assignments was very slow, especially the assignments 3, 4 were not graded even after a month after submission thereby not providing an option to work on the feedback provided on the assignments. The extensions in the assignments were very opaque and teaching assistants did not provide proper justification for lower score to the extensions of the course.

14. N/A

15. The course could have been more focused and emphasized on the modern computer vision rather than classic.

16. Get rid of extensions. Time consuming with no respect to other courses.

Q: Please expand on the instructor's strengths and/or areas for improvement in facilitating inclusive learning.
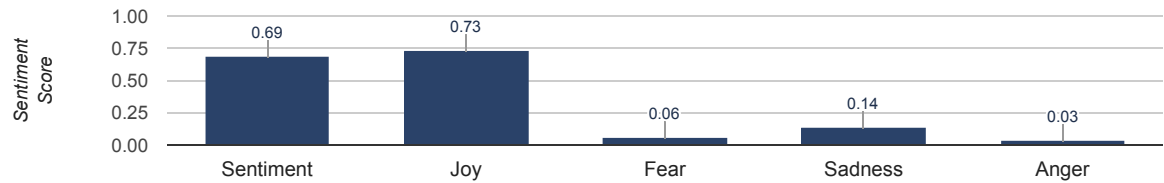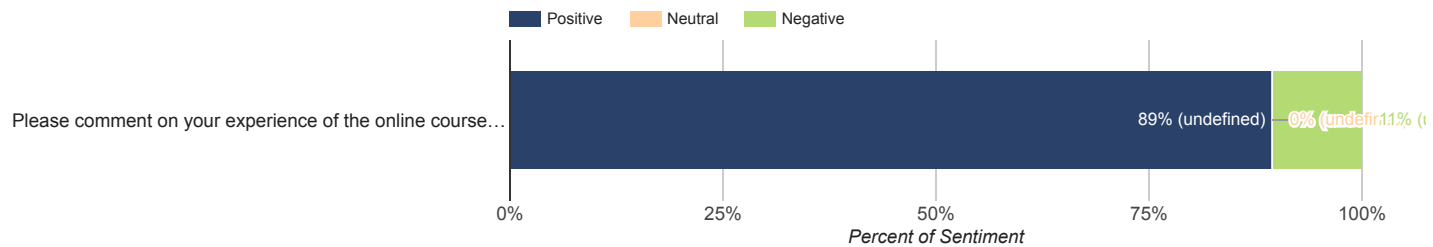
1. The instructor is highly knowledgeable, I don't think of any best teacher other than prof. Bruce Maxwell.

   Just one suggestion, professor should take 2 class in one week, and of 1.5hour, instead of taking 2 classes of 3 hours each and teaching the same thing both days.

   If the professor reduces the time from 3 hour to 1.5hour/day, this is more beneficial, 3 hours are too long, many time students gets exhausted. and we reach a saturation point after which we don't understand anything.

2. The professor was easy to talk to and helpful with his responses to emails, etc.

3. -

4. Professor Maxwell is clearly passionate and knowledgable. He creates an inclusive learning environment, and is very approachable. Sometimes the concepts of the class are so far removed from your current understanding that you find yourself in a position where you don't know enough to ask the right questions.

5. very open to answer students' questions in-class or outside of class

6. The instructor is good at computer vision and his lecture notes are great

7. The focus on fundamentals is very helpful. The instructor starts ground up, slowly building on concepts, even if the concepts may be taken for granted - this really helps 'build' a framework of understanding. Thanks

8. The instructor made the course interactive and the assignments were fun to do.

9. Very good teaching skills

10. Professor Bruce's approach to delivering lectures by hand writing notes as if it was on a whiteboard really helped me understand the material. His ability to contextualize the material is also very helpful

11. instructor allowed questions at any point of time during the lecture. Its good to have such option.

12. Professor did a great job in this course. He made the course very interactive and reply to our every doubts all the time.

13. Very good at explaining concepts

14. Instructor's strength lies in the way he connects the topics with the real-world aspect. I especially liked the camera calibration, and the latest computer vision papers discussed in the class.

15. N/A

16. Instructor was highly skilled.
    Really helpful.
    Very responsive.

17. Having a clearly defined outline on the schedule of assignments, projects, and exams.

Questions to Assess Students' Online Experience (19 comments)

Q: Please comment on your experience of the online course environment in the open-ended text box.

Legend: Positive, Neutral, Negative

Please comment on your experience of the online course… 89% (undefined) 0% (undefined) 11% (undefined)

Percent of Sentiment

	Sentiment	Joy	Fear	Sadness	Anger
Sentiment Score	0.69	0.73	0.06	0.14	0.03

1. This course is very good, highly recommended. Its just that because of online class, I was not able to interact with the classmates much. ★★★★☆

2. The online experience was fine. The lectures being on both wednesday and thursday, as well as lecture recordings being provided, was very helpful. I liked having zoom lectures instead of just recorded videos because of the interaction and ability to ask questions. ★★★★★

3. It was effective and interactive enough ★★★★★

4. There was very little connection between students in this class. Even boards like piazza were rarely filled out with public questions. There was usually some confusion in assignment details. ★★☆☆☆

5. it really encouraged me to learning more of computer vision ★★★★★

6. Good experience ★★★★★

7. great ★★★★★

Q: Please comment on your experience of the online course environment in the open-ended text box.

8	Didn't feel like an online course the class was so interactive. ★★★★☆
9	It was great as I learned a lot about Computer Vision which I had very little knowledge about before. The way the professor explains things makes it very easy to understand even complex concepts. ★★★★
10	Awesome ★★★★
11	The online course experience was aided by the interactivity of the professor during lectures. Materials taught were clear and expectations defined ★★★★
12	good ★★★★★
13	Online course environment is good especially the recorder lecture helped to go through later when required. The online environment is user friendly and is interactive. ★★★★★
14	Professor was welcoming and led an online course well ★★★★★
15	Very good course. Especially assignments were very well structured. Learnt a lot. ★★★★★
16	The online experience was great, one good quality of this course, is that it is synchronous online course, so we get to learn from professor himself. The course content was engaging all thorough out the period of the course. ★★★★★
17	Good ★★★★★
18	I had a great learning experience. ★★★★★
19	Disorganized. Unprepared. Felt like pulling teeth to get answers to anything. ★☆☆☆☆

Student Self-Assessment of their Effort to Achieve Course Outcomes (17 comments)

Q: What I could have done to make this course better for myself.

1	Be prepared with Machine Learning, and deep learning concepts before taking this course. Also be thorough with C concepts. And be attentive while attending the classes.
2	Read more of the papers listed on the Canvas website.
3	Revising the course the same week again to understand better as the class was for 3 hours duration
4	I could have dedicated more time to familiarize myself with the topics and programming strategies prior to the lectures.
5	I should have time management myself better
6	Spend more time doing the readings
7	Explored the assignments deeper
8	I felt the course was good already.
9	I would have explored more extensions if time permitted and the expectations on the extensions were more clear.
10	To get more out of this course, I needed to have spent even more time preparing for lectures and having questions during, which can be hard because the subject is already requires a lot of time as is.
11	could have done more research
12	I could have attended the lectures with video on all the time but attending 3 hours of class with video on is little difficult.
13	Refer to professor course materials often and read more research papers.
14	I would have properly utilized the time travel days in a more efficient way rather than storing them with till the end to be of no use.
15	Read book
16	Regularly attending classes
17	No issues with other courses.