

Instructor: Christensen, Jens G.

Course: Functions of Complex Variable

6 surveys / 8 enrolled in MATH 313 A (MWF 0920)

## Student:1

Reason(s): Elective within major or minor

Additional Reason(s): It is a very helpful course for Physics.Effort: I have to do my homework and review the class notes.Understanding & Appreciation: It let me have a deeper understanding of Complex Variables.Intellectual Growth: It helps me to understand the usefulness of Maths.Quality: In general it is a good class, but I think a little bit too many tests.

Effectiveness Conveying Course Material	Teacher-Student Interaction and Rapport	Course Standards and Challenge	Grading and Evaluation	Student Self-Rated Learning	Other Aspects of Teaching
1: SA	3: A	8: SA	5: SA	2: SA	13: A
7: SA	10: SA	14: SA	17: SA	4: SA	21: SA
9: A	15: SA	20: SA	19: SA	6: SA	22: SA
12: SA				11: SA	
18: SA				16: SA	

## Student:2

Reason(s): Elective within major or minor

Interest in the course material

Additional Reason(s):Effort: The work was mostly a few hours each week to do the homework, and otherwise just time studying for the exams when they came around, so my effort was somewhat low, I guess.Understanding & Appreciation: I gained an understanding of complex variables and some of the major results applying to them.

Professor Christensen also motivated a lot of what we did in class with examples of how it could be applied or areas of research that use whichever idea we were covering.

Intellectual Growth: My critical thinking skills were increased as a result of taking the course.Quality: The quality of teaching in this course was fine. Professor Christensen is clear when lecturing and fields questions well when asked. He graded homeworks quickly, and especially made an effort to return them before exams if they due in the days before one.

Effectiveness Conveying Course Material	Teacher-Student Interaction and Rapport	Course Standards and Challenge	Grading and Evaluation	Student Self-Rated Learning	Other Aspects of Teaching
1: SA	3: SA	8: A	5: A	2: SA	13: A
7: SA	10: A	14: A	17: SA	4: SA	21: NA
9: SA	15: SA	20: N	19: SA	6: SA	22: A
12: A				11: SA	
18: SA				16: SA	

## Student:3

Reason(s): Elective outside major or minor

Interest in the course material

Additional Reason(s):Effort: It was a really difficult class, but not in a bad way. The homeworks served as a blueprint of how to improve and forced me to learn/extrapolate things quickly.Understanding & Appreciation: As an introduction to complex analysis, the course was compelling and well thought out. I learned a lot and walk away excited about the material.Intellectual Growth: The course improved my ability to problem solve and study large volumes of information effectively.Quality: Professor Christensen is a great lecturer because he is both passionate and straightforward. I appreciated his emphasis on examples and computation, but wish more proofs were covered.

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1: A	3: SA	8: SA	5: A	2: SA	13: N
7: A	10: SA	14: SA	17: A	4: SA	21: A
9: A	15: SA	20: SA	19: SA	6: A	22: SA
12: A				11: SA	
18: SA				16: SA	

**Student:4**

Reason(s): Interest in the course material

Additional Reason(s):Effort: I pay close attention to the class material and review the notes from time to time. I spend time working on assignments and reviewing for exams. I also check the answer keys of assignments and previous exams as a way of reviewing.Understanding & Appreciation: The course introduces me functions with complex variables and we get to learn about many of their properties. This is interesting.Intellectual Growth: I have a better ability to convey some mathematical identities geometrically or graphically.Quality: Professor Christensen is a kind and helping teacher. He also conveys the course material in a very clear way and make it easy for us to understand. The course material and assignments and exams are closely related and enhanced my understanding.

Effectiveness Conveying Course Material	Teacher-Student Interaction and Rapport	Course Standards and Challenge	Grading and Evaluation	Student Self-Rated Learning	Other Aspects of Teaching
1: SA	3: A	8: A	5: A	2: A	13: A
7: SA	10: A	14: A	17: A	4: A	21: NA
9: A	15: A	20: A	19: A	6: A	22: A
12: A				11: A	
18: A				16: A	

**Student:5**

Reason(s): Elective within major or minor

Additional Reason(s): I was told this would be a good course to have on my resume for grad school applicationsEffort: A few hours each week on the homework (admittedly usually the night before it's due), a few hours studying and making a "cheat sheet" before each test, and attentive note-taking during class (more notes than usual)Understanding & Appreciation: There's a lot of really nice results in complex analysis that helped me understand how it's so different from real analysis. Also I haven't done integrals not on the single-dimensional real numbers in ages so learning about complex integrals (and some of their applications to cool math problems!) was funIntellectual Growth: I definitely feel like I have a better grasp on what sorts of questions analysts ask and investigate in their researchQuality: Very clear and unambiguous explanations. I don't think we ever had the experience of a student asking a question and the instructor not understanding it / sort of dancing around it, which in my experience is something that happens at least once or twice a semester in most classes so I think that indicates Prof. Christensen's skill in answering questions. I also find HW exercises to often be in the just right balance between completely novel proofs and following algorithms we learned in class, often being mostly straightforward with one or two twists. I do think they could be slightly shorter and harder (although I'm not sure either of those changes alone would be good). The tests are also very fair, with the material we learned in class preparing us completely.

The only thing I can think of to improve is that it does sometimes feel like you're drinking from a fire hose of information, not really due to speed but due to organization—more explicit titles and such ("Today we will be talking about improper integrals") and rearranging the order of theorems, proofs, and examples (I'm partial to thm  $\rightarrow$  proof  $\rightarrow$  example, rather than thm  $\rightarrow$  example  $\rightarrow$  proof or proof  $\rightarrow$  thm  $\rightarrow$  example) could help. I like that sometimes we'll do a piece of reasoning and the theorem will just sort of fall out unexpectedly, but a little heads up or motivation (e.g. "now we're going to try to find some theorem that will allow us to evaluate integrals like this") would be nice to help organize my notes (this may be a skill issue on my part, but in fairness I feel like I'm always jotting something down in the class which makes it harder to think about organization).

I've spent more time discussing negative than positive, so I just wanna circle back and underline I've never been confused by anything Prof. Christensen has said in class (when I have been confused it's because it's early and I'm messing up the math, like "why is  $2b + 3b = 5b$  when it should be  $6b$ ?" type confusions that do not have to do with the professor). This is a complex (ha)

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subject and Professor Christensen does a great job making it accessible.

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1: A	3: SA	8: N	5: SA	2: A	13: NA
7: N	10: SA	14: A	17: SA	4: A	21: NA
9: A	15: SA	20: A	19: SA	6: A	22: N
12: A				11: SA	
18: SA				16: A	

**Student:6**

Reason(s): Elective outside major or minor  
Interest in the course material

Additional Reason(s):

Effort: Lots of effort.

Understanding & Appreciation:

Intellectual Growth:

Quality: Lectures were clear and easy to follow. What was expected of us on exams and homeworks was clear. Only critique I have is that there are some amazing ways to represent these functions visually on computers but we never utilized this in class.

Effectiveness Conveying Course Material	Teacher-Student Interaction and Rapport	Course Standards and Challenge	Grading and Evaluation	Student Self-Rated Learning	Other Aspects of Teaching
1: SA	3: SA	8: A	5: SA	2: SA	13: NA
7: A	10: A	14: A	17: A	4: SA	21: NA
9: N	15: A	20: SA	19: SA	6: A	22: SA
12: SA				11: A	
18: A				16: SA	

**Likert Key:** SA=Strongly agree, A=Agree, N=Neither agree nor disagree, D=Disagree, SD=Strongly disagree, NA=Not applicable

Term  
Fall 2023

Instructor  
CHRISTENSEN Jens G.

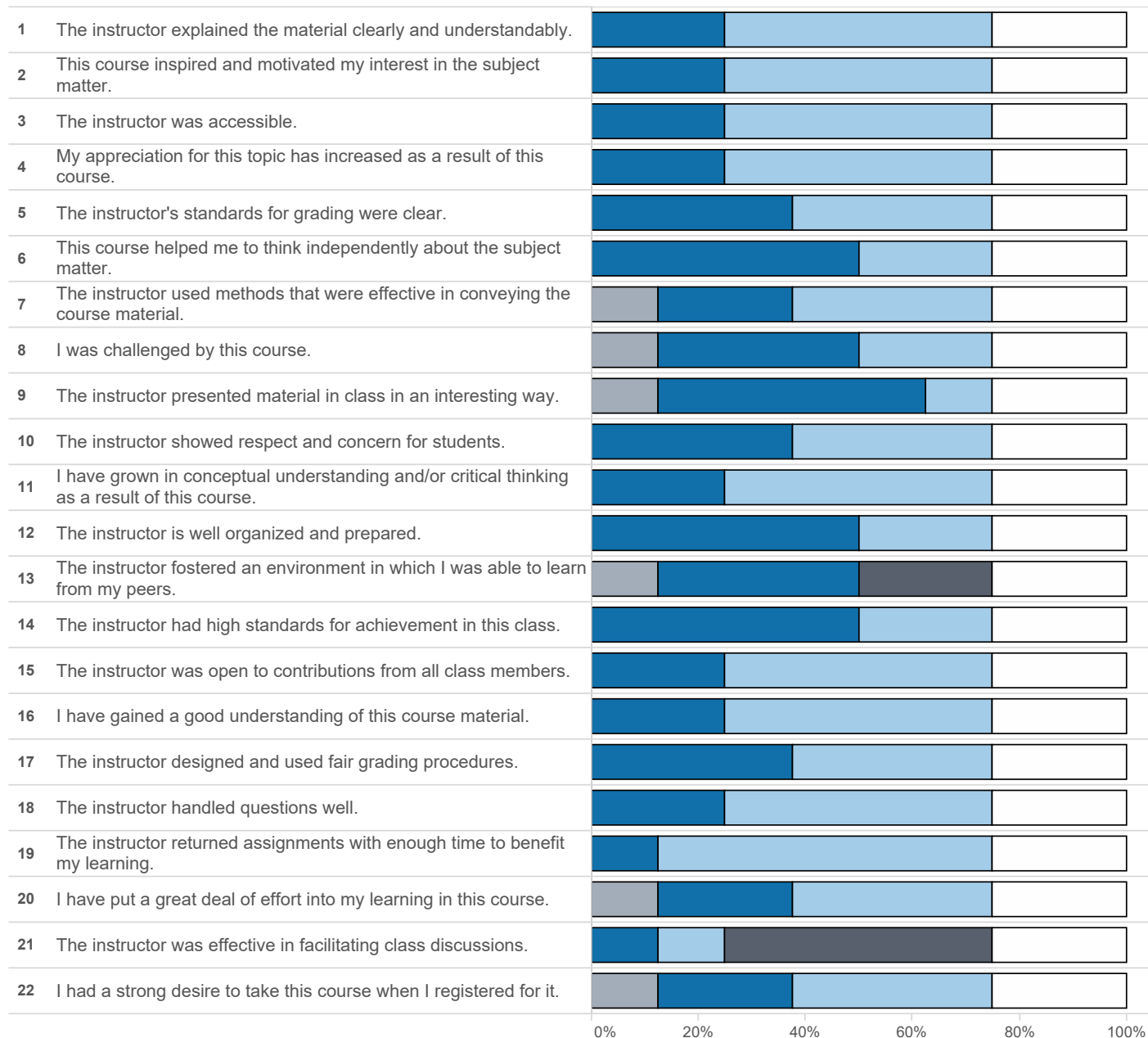
Course/Section  
MATH 313 A

Course Title  
Functions of Complex Variable

Enrollment  
8

Surveys  
6

## Response Analysis: Questions 1 - 22



■ Strongly disagree    
 ■ Neither agree nor disagree    
 ■ Strongly agree    
  Missing  
■ Disagree    
 ■ Agree    
 ■ Not applicable

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## Response Analysis: Questions 1 - 22

		Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree	Not Applicable	Missing
1	The instructor explained the material clearly and understandably.	0%	0%	0%	25%	50%	0%	25%
2	This course inspired and motivated my interest in the subject matter.	0%	0%	0%	25%	50%	0%	25%
3	The instructor was accessible.	0%	0%	0%	25%	50%	0%	25%
4	My appreciation for this topic has increased as a result of this course.	0%	0%	0%	25%	50%	0%	25%
5	The instructor's standards for grading were clear.	0%	0%	0%	38%	38%	0%	25%
6	This course helped me to think independently about the subject matter.	0%	0%	0%	50%	25%	0%	25%
7	The instructor used methods that were effective in conveying the course material.	0%	0%	13%	25%	38%	0%	25%
8	I was challenged by this course.	0%	0%	13%	38%	25%	0%	25%
9	The instructor presented material in class in an interesting way.	0%	0%	13%	50%	13%	0%	25%
10	The instructor showed respect and concern for students.	0%	0%	0%	38%	38%	0%	25%
11	I have grown in conceptual understanding and/or critical thinking as a result of this course.	0%	0%	0%	25%	50%	0%	25%
12	The instructor is well organized and prepared.	0%	0%	0%	50%	25%	0%	25%
13	The instructor fostered an environment in which I was able to learn from my peers.	0%	0%	13%	38%	0%	25%	25%
14	The instructor had high standards for achievement in this class.	0%	0%	0%	50%	25%	0%	25%
15	The instructor was open to contributions from all class members.	0%	0%	0%	25%	50%	0%	25%
16	I have gained a good understanding of this course material.	0%	0%	0%	25%	50%	0%	25%
17	The instructor designed and used fair grading procedures.	0%	0%	0%	38%	38%	0%	25%
18	The instructor handled questions well.	0%	0%	0%	25%	50%	0%	25%
19	The instructor returned assignments with enough time to benefit my learning.	0%	0%	0%	13%	63%	0%	25%
20	I have put a great deal of effort into my learning in this course.	0%	0%	13%	25%	38%	0%	25%
21	The instructor was effective in facilitating class discussions.	0%	0%	0%	13%	13%	50%	25%
22	I had a strong desire to take this course when I registered for it.	0%	0%	13%	25%	38%	0%	25%

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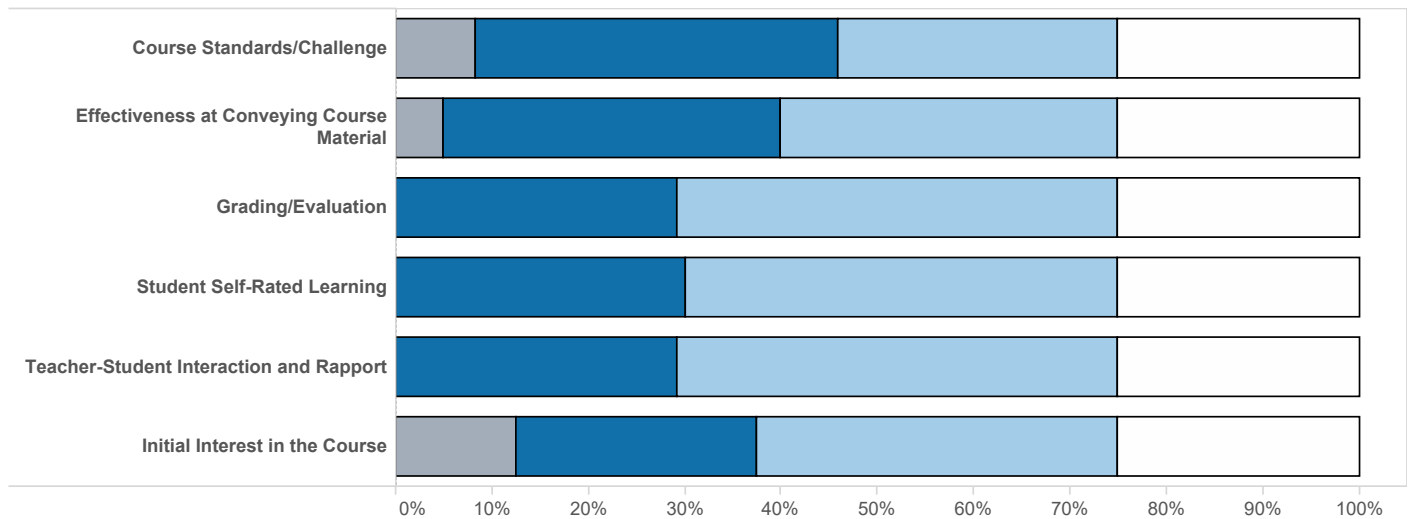
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## Dimensions of Teaching



■ Strongly disagree   
 ■ Neither agree nor disagree   
 ■ Strongly agree   
  Missing  
■ Disagree   
 ■ Agree   
 ■ Not applicable

	Strongly Disagree	Disagree	Neither Agree nor Disagree	Agree	Strongly Agree	Not Applicable	Missing	Responses
Course Standards/Challenge	0%	0%	8%	38%	29%	0%	25%	24
Effectiveness at Conveying Course Material	0%	0%	5%	35%	35%	0%	25%	40
Grading/Evaluation	0%	0%	0%	29%	46%	0%	25%	24
Student Self-Rated Learning	0%	0%	0%	30%	45%	0%	25%	40
Teacher-Student Interaction and Rapport	0%	0%	0%	29%	46%	0%	25%	24
Initial Interest in the Course	0%	0%	13%	25%	38%	0%	25%	8