

# CS 4102-002 Algorithms - Fall 2018

ENGR (16996)

INSTRUCTORS: **Hott, John (jh2jf)**

Respondents: 64 / Enrollment: 122

Summary: CS 4102-002 Algorithms - Fall 2018 (16996)	
<b>Overall Course Rating</b> CS-4102-002 Mean 4.28 CS-4102-002 Std Dev 0.89 CS-4102-002 Response Count 319  SEAS, 4000-level courses Mean 4.11 SEAS, 4000-level courses Std Dev 0.97 SEAS, 4000-level courses Response Count 12151	<b>Overall Instructor Rating</b> INSTRUCTOR: Hott, John Mean 4.48 Std Dev 0.70 Response Count 445  SEAS, 4000-level courses Mean 4.28 SEAS, 4000-level courses Std Dev 0.89 SEAS, 4000-level courses Response Count 18675

~ QUESTIONS AND DETAILS ~ ~ ANSWER MATRICES ~

<p><b>1. The course addressed technically rigorous subject matter consistent with the course objectives.</b></p> <p style="text-align: center;">~ Question Type: Likert ~ <i>contributed by Dean of the School of Engineering and Applied Science</i></p>	<table border="1"> <thead> <tr> <th colspan="9">Results for CS-4102-002</th> </tr> <tr> <th>Total</th> <th>Mean</th> <th>Std Dev</th> <th>Strongly Agree (5)</th> <th>Agree (4)</th> <th>Neutral (3)</th> <th>Disagree (2)</th> <th>Strongly Disagree (1)</th> <th>Not Applicable (NA)</th> </tr> </thead> <tbody> <tr> <td>64</td> <td>4.67</td> <td>0.54</td> <td>45 (70.31%)</td> <td>17 (26.56%)</td> <td>2 (3.12%)</td> <td>0 (0.00%)</td> <td>0 (0.00%)</td> <td>0 (0.00%)</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th colspan="9">Results for SEAS, 4000-level courses</th> </tr> <tr> <th>Total</th> <th>Mean</th> <th>Std Dev</th> <th>Strongly Agree (5)</th> <th>Agree (4)</th> <th>Neutral (3)</th> <th>Disagree (2)</th> <th>Strongly Disagree (1)</th> <th>Not Applicable (NA)</th> </tr> </thead> <tbody> <tr> <td>2431</td> <td>4.34</td> <td>0.82</td> <td>1179 (48.50%)</td> <td>967 (39.78%)</td> <td>151 (6.21%)</td> <td>53 (2.18%)</td> <td>39 (1.60%)</td> <td>42 (1.73%)</td> </tr> </tbody> </table>	Results for CS-4102-002									Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)	64	4.67	0.54	45 (70.31%)	17 (26.56%)	2 (3.12%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	Results for SEAS, 4000-level courses									Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)	2431	4.34	0.82	1179 (48.50%)	967 (39.78%)	151 (6.21%)	53 (2.18%)	39 (1.60%)	42 (1.73%)
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<p><b>2. The instructor used methods other than/in addition to traditional lectures (for example, active learning, in-class problems, collaborative learning, in-class discussion) effectively in this course.</b></p> <p style="text-align: center;">~ Question Type: Likert ~ <i>contributed by Dean of the School of Engineering and Applied Science</i></p>	<table border="1"> <thead> <tr> <th colspan="9">Results for CS-4102-002, Hott, John</th> </tr> <tr> <th>Total</th> <th>Mean</th> <th>Std Dev</th> <th>Strongly Agree (5)</th> <th>Agree (4)</th> <th>Neutral (3)</th> <th>Disagree (2)</th> <th>Strongly Disagree (1)</th> <th>Not Applicable (NA)</th> </tr> </thead> <tbody> <tr> <td>64</td> <td>4.41</td> <td>0.78</td> <td>34 (53.12%)</td> <td>23 (35.94%)</td> <td>5 (7.81%)</td> <td>0 (0.00%)</td> <td>1 (1.56%)</td> <td>1 (1.56%)</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th colspan="9">Results for SEAS, 4000-level courses</th> </tr> <tr> <th>Total</th> <th>Mean</th> <th>Std Dev</th> <th>Strongly Agree (5)</th> <th>Agree (4)</th> <th>Neutral (3)</th> <th>Disagree (2)</th> <th>Strongly Disagree (1)</th> <th>Not Applicable (NA)</th> </tr> </thead> <tbody> <tr> <td>2670</td> <td>4.17</td> <td>0.98</td> <td>1168 (43.75%)</td> <td>910 (34.08%)</td> <td>291 (10.90%)</td> <td>136 (5.09%)</td> <td>57 (2.13%)</td> <td>108 (4.04%)</td> </tr> </tbody> </table>	Results for CS-4102-002, Hott, John									Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)	64	4.41	0.78	34 (53.12%)	23 (35.94%)	5 (7.81%)	0 (0.00%)	1 (1.56%)	1 (1.56%)	Results for SEAS, 4000-level courses									Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)	2670	4.17	0.98	1168 (43.75%)	910 (34.08%)	291 (10.90%)	136 (5.09%)	57 (2.13%)	108 (4.04%)
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~ QUESTIONS AND DETAILS ~

~ ANSWER MATRICES ~

**4. The homework assignments helped me learn the subject matter.**

Question Type: Likert

contributed by Dean of the School of Engineering and Applied Science

Results for CS-4102-002								
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
64	4.47	0.76	38 (59.38%)	20 (31.25%)	4 (6.25%)	2 (3.12%)	0 (0.00%)	0 (0.00%)

Results for SEAS, 4000-level courses								
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
2431	4.10	0.96	876 (36.03%)	876 (36.03%)	272 (11.19%)	108 (4.44%)	53 (2.18%)	246 (10.12%)

**5. The textbook increased my understanding of the material.**

Question Type: Likert

contributed by Dean of the School of Engineering and Applied Science

Results for CS-4102-002								
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
64	3.76	1.11	14 (21.88%)	13 (20.31%)	13 (20.31%)	3 (4.69%)	2 (3.12%)	19 (29.69%)

Results for SEAS, 4000-level courses								
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
2427	3.75	1.08	309 (12.73%)	354 (14.59%)	284 (11.70%)	75 (3.09%)	47 (1.94%)	1358 (55.95%)

**6. The course material was well organized and developed.**

Question Type: Likert

contributed by Dean of the School of Engineering and Applied Science

Results for CS-4102-002, Hott, John								
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
64	4.45	0.71	36 (56.25%)	22 (34.38%)	5 (7.81%)	1 (1.56%)	0 (0.00%)	0 (0.00%)

Results for SEAS, 4000-level courses								
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
2668	4.03	1.01	983 (36.84%)	1005 (37.67%)	362 (13.57%)	165 (6.18%)	71 (2.66%)	82 (3.07%)

**7. The instructor was knowledgeable about the subject matter.**

Question Type: Likert

contributed by Dean of the School of Engineering and Applied Science

Results for CS-4102-002, Hott, John								
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
63	4.59	0.61	41 (65.08%)	18 (28.57%)	4 (6.35%)	0 (0.00%)	0 (0.00%)	0 (0.00%)

Results for SEAS, 4000-level courses								
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
2675	4.56	0.71	1737 (64.93%)	738 (27.59%)	122 (4.56%)	32 (1.20%)	20 (0.75%)	26 (0.97%)

**8. The instructor was well prepared for class.**

Question Type: Likert

contributed by Dean of the School of Engineering and Applied Science

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Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
64	4.62	0.52	41 (64.06%)	22 (34.38%)	1 (1.56%)	0 (0.00%)	0 (0.00%)	0 (0.00%)

Results for SEAS, 4000-level courses								
Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)
2673	4.36	0.84	1374 (51.40%)	948 (35.47%)	183 (6.85%)	77 (2.88%)	33 (1.23%)	58 (2.17%)

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<p><b>9. I received adequate preparation from the prior courses in the curriculum to be successful in this course.</b></p> <p style="text-align: center;">~ Question Type: Likert ~</p> <p style="text-align: center;"><i>contributed by Dean of the School of Engineering and Applied Science</i></p>	<table border="1"> <thead> <tr> <th colspan="9" style="background-color: #2e5496; color: white;">Results for CS-4102-002</th> </tr> <tr> <th>Total</th> <th>Mean</th> <th>Std Dev</th> <th>Strongly Agree (5)</th> <th>Agree (4)</th> <th>Neutral (3)</th> <th>Disagree (2)</th> <th>Strongly Disagree (1)</th> <th>Not Applicable (NA)</th> </tr> </thead> <tbody> <tr> <td>64</td> <td>4.16</td> <td>0.82</td> <td>25 (39.06%)</td> <td>26 (40.62%)</td> <td>11 (17.19%)</td> <td>2 (3.12%)</td> <td>0 (0.00%)</td> <td>0 (0.00%)</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th colspan="9" style="background-color: #a6a6a6;">Results for SEAS, 4000-level courses</th> </tr> <tr> <th>Total</th> <th>Mean</th> <th>Std Dev</th> <th>Strongly Agree (5)</th> <th>Agree (4)</th> <th>Neutral (3)</th> <th>Disagree (2)</th> <th>Strongly Disagree (1)</th> <th>Not Applicable (NA)</th> </tr> </thead> <tbody> <tr> <td>2428</td> <td>3.98</td> <td>1.02</td> <td>826 (34.02%)</td> <td>900 (37.07%)</td> <td>365 (15.03%)</td> <td>163 (6.71%)</td> <td>64 (2.64%)</td> <td>110 (4.53%)</td> </tr> </tbody> </table>	Results for CS-4102-002									Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)	64	4.16	0.82	25 (39.06%)	26 (40.62%)	11 (17.19%)	2 (3.12%)	0 (0.00%)	0 (0.00%)	Results for SEAS, 4000-level courses									Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)	2428	3.98	1.02	826 (34.02%)	900 (37.07%)	365 (15.03%)	163 (6.71%)	64 (2.64%)	110 (4.53%)
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<p><b>11. The instructor responded adequately to in-class questions.</b></p> <p style="text-align: center;">~ Question Type: Likert ~</p> <p style="text-align: center;"><i>contributed by Dean of the School of Engineering and Applied Science</i></p>	<table border="1"> <thead> <tr> <th colspan="9" style="background-color: #2e5496; color: white;">Results for CS-4102-002, Hott, John</th> </tr> <tr> <th>Total</th> <th>Mean</th> <th>Std Dev</th> <th>Strongly Agree (5)</th> <th>Agree (4)</th> <th>Neutral (3)</th> <th>Disagree (2)</th> <th>Strongly Disagree (1)</th> <th>Not Applicable (NA)</th> </tr> </thead> <tbody> <tr> <td>63</td> <td>4.52</td> <td>0.64</td> <td>37 (58.73%)</td> <td>23 (36.51%)</td> <td>2 (3.17%)</td> <td>1 (1.59%)</td> <td>0 (0.00%)</td> <td>0 (0.00%)</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th colspan="9" style="background-color: #a6a6a6;">Results for SEAS, 4000-level courses</th> </tr> <tr> <th>Total</th> <th>Mean</th> <th>Std Dev</th> <th>Strongly Agree (5)</th> <th>Agree (4)</th> <th>Neutral (3)</th> <th>Disagree (2)</th> <th>Strongly Disagree (1)</th> <th>Not Applicable (NA)</th> </tr> </thead> <tbody> <tr> <td>2664</td> <td>4.41</td> <td>0.76</td> <td>1399 (52.52%)</td> <td>992 (37.24%)</td> <td>139 (5.22%)</td> <td>61 (2.29%)</td> <td>20 (0.75%)</td> <td>53 (1.99%)</td> </tr> </tbody> </table>	Results for CS-4102-002, Hott, John									Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)	63	4.52	0.64	37 (58.73%)	23 (36.51%)	2 (3.17%)	1 (1.59%)	0 (0.00%)	0 (0.00%)	Results for SEAS, 4000-level courses									Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)	2664	4.41	0.76	1399 (52.52%)	992 (37.24%)	139 (5.22%)	61 (2.29%)	20 (0.75%)	53 (1.99%)
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<p><b>12. The instructor effectively used technology in support of the learning goals for this course.</b></p> <p style="text-align: center;">~ Question Type: Likert ~</p> <p style="text-align: center;"><i>contributed by Dean of the School of Engineering and Applied Science</i></p>	<table border="1"> <thead> <tr> <th colspan="9" style="background-color: #2e5496; color: white;">Results for CS-4102-002, Hott, John</th> </tr> <tr> <th>Total</th> <th>Mean</th> <th>Std Dev</th> <th>Strongly Agree (5)</th> <th>Agree (4)</th> <th>Neutral (3)</th> <th>Disagree (2)</th> <th>Strongly Disagree (1)</th> <th>Not Applicable (NA)</th> </tr> </thead> <tbody> <tr> <td>64</td> <td>4.52</td> <td>0.62</td> <td>37 (57.81%)</td> <td>23 (35.94%)</td> <td>4 (6.25%)</td> <td>0 (0.00%)</td> <td>0 (0.00%)</td> <td>0 (0.00%)</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th colspan="9" style="background-color: #a6a6a6;">Results for SEAS, 4000-level courses</th> </tr> <tr> <th>Total</th> <th>Mean</th> <th>Std Dev</th> <th>Strongly Agree (5)</th> <th>Agree (4)</th> <th>Neutral (3)</th> <th>Disagree (2)</th> <th>Strongly Disagree (1)</th> <th>Not Applicable (NA)</th> </tr> </thead> <tbody> <tr> <td>2663</td> <td>4.26</td> <td>0.87</td> <td>1197 (44.95%)</td> <td>972 (36.50%)</td> <td>268 (10.06%)</td> <td>76 (2.85%)</td> <td>38 (1.43%)</td> <td>112 (4.21%)</td> </tr> </tbody> </table>	Results for CS-4102-002, Hott, John									Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)	64	4.52	0.62	37 (57.81%)	23 (35.94%)	4 (6.25%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	Results for SEAS, 4000-level courses									Total	Mean	Std Dev	Strongly Agree (5)	Agree (4)	Neutral (3)	Disagree (2)	Strongly Disagree (1)	Not Applicable (NA)	2663	4.26	0.87	1197 (44.95%)	972 (36.50%)	268 (10.06%)	76 (2.85%)	38 (1.43%)	112 (4.21%)
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~ QUESTIONS AND DETAILS ~

~ ANSWER MATRICES ~

**19. Please make any overall comments or observations about this course:**~  
Question Type: Short Answer~  
contributed by Office of the Provost

## Results for CS-4102-002

Total	Individual Answers
33	See below for Individual Results

Robbie is a great prof!

I think that Professor Hott did a good job in explaining the intuitions behind things and really spent the effort fleshing everything out. However I do think that the lectures did tend to drag on.

Robbie is so nice and fun. You can tell that he really cares about students and their understanding of the material and doesn't want to torture students too much. Sometimes he would stumble in lecture or be hesitant, but I think that's probably just because he's relatively new and is probably trying to match Nate's level and experience. He's obviously very knowledgeable but would sometimes seem nervous lecturing. Be confident in yourself, Robbie!! There were some grading mishaps quite often, but the professors often tried to fix them. The homeworks were hard and challenging, but being able to work with others really helps. I also appreciated that Robbie tried to be really engaging and fun in class; he would always ask questions (even if no one answered) and incorporated some interactive examples. Overall, Robbie was a really nice and good professor, and the class was challenging but helped you learn how to think.

Professor Hott is an awesome teacher!

This was Professor Hott's first time teaching this course and he was wonderful. He started off not too confident, but he rapidly improved upon that. In turn his lectures became a lot better. Unfortunately the class started at 9 AM (meaning 50% of the class skipped) because Hott was amazing. The course opened my eyes and really changed the way I think and for that I am grateful to Professor Hott and Brunelle. These two dudes are the most level headed, fair, and kindest professors here at UVA. That doesn't mean they're easy. They consistently challenge us with hard homeworks (some which I feel pushed me to my limit) and challenging in class questions. Keep it up and happy christmas professors !

The course material was kind of difficult, maybe spend more time on less material.

I really enjoyed this course. The problems were interesting and fun to solve.

I feel like the course was very difficult after not taking any math classes for three years. It seems like maybe a math class should be a prerequisite.

Wow great course very good.

Hott is the best CS teacher I have taken before. He is as good at teaching as Floryan, but he's a nice guy which makes him the best CS teacher I've had to date (10+ so far).

Great teacher, hard class.

I really liked this course and Prof. Hott. Especially with it being his first semester teaching the course I thought it was very informative.

This was definitely one of the most interesting classes that I've taken in my time at UVA.

none

I strongly believe that I would learn more from this course if we had short quizzes each week relating to the material we previously discussed. I think that if we did a one problem quiz in class each week, people would study more consistently, and there would be less cheating on the homework assignments. I also believe that we spend too much lecture time talking about simple concepts and too little time talking about the more advanced topics. An example would be our  $k$  independent set and vertex cover discussions. We spent most of an entire lecture going over it; however, I felt that it would have been more useful to spend that time on showing how the 3SAT problem reduces to  $k$  independent set (which we spent a quarter of the lecture time on).

Very pleased with this course

Great class, I learned so much!

Prof. Hott is the best! I like him a lot. He presented the difficult material in a fun way -> lectures weren't painful and that's why I came to every class very excited. Also, prof. Hott, if you ever read this, I just want to say I'm sorry I fell asleep few times during your lecture in the first row (it was because of me and not because of you or your style of teaching!). Anyway, I wish I could take another class with you!

Amazing professor. Really really hope he gets tenure. :). I think the class could be slightly faster so we can go through a few more examples, but otherwise perfect.

Necessary course that you just have to power through. I thought some of the homework were too difficult, to a point where without a TA there is no chance of solving it.

Maybe focus more on implementations next time?

~ QUESTIONS AND DETAILS ~

~ ANSWER MATRICES ~

Very difficult course. The grading on homeworks is unfair, and I think it is unreasonable that they are 60% of the grade considering how difficult they are: if every student HAS to go to office hours in order to do well on the homeworks, then the course is badly designed. Besides the grading/homework thing though, I really loved the course and I loved Hott. It was clear at the beginning that this was his first time teaching, but he improved a lot over the course of the semester. It is clear how passionate he is about this material and how much he enjoys teaching.

Great course

Redacted: comment on TAs

n/a

More coding assignments would have been nicer on workload.

-

It is a great course.

Although this was Professor Hott's first year teaching at UVA, I believe he did an excellent job and explained topics in a way that was easy to understand. He is also passionate about what he teaches and makes the lectures fun.

I just have to say, I both love and hate this class at the same time. I hate that this class seemed to take up my life and I saw my group members and TA's more than my friends this semester, but I LOVE the professors who taught this class. Two of the best professors I had in UVA. They both have a similar sense of humor and love for puzzles, have their own quirky humor to liven up class, and just make class somewhere you can't hate to be. They really go out of their way for us students and want us to succeed. Always patient. Just all around amazing. I think without them, Algorithms would not be as bearable. Thanks for an amazing semester and hopefully I can take more classes with them next semester.

Professor is very funny and helpful, great course!

Professor Hott did a remarkable job ensuring that we understood our algorithms and proofs, while making the class interactive and fun. Very approachable and fair.

There's a general consensus on the homework that one cannot reach the correct answer without the help of the TA's/Office Hours. It's a sentiment that I find some discontent with, but it mainly may be due to me preferring to find out information on my own. I hope to see a course structure wherein the homework can be completed without much outside interference. I do agree that it helps in setting aside those who will open themselves up to learning outside of the classroom from those who do not, but the degree could be decreased a bit.