

Virginia Tech  
Fall 2022 VT Student Perceptions of Teaching (SPOT)

Course: ME4524: Robotics & Automation-ME\_4524\_87337\_202209  
 Instructor: Dylan Patrick Losey \*  
 Response Rate: 57/64 (89.06%)

**1 - Please indicate the extent to which you agree or disagree with each of the following statements:**

**1A - The instructor was well prepared.**

Dylan Patrick Losey

Response Option	Weight	Frequency	Percent	Percent Responses	Means											
Strongly disagree	(1)	1	1.75%		5.81	5.25	5.11									
Disagree	(2)	0	0.00%		Question	College	Department									
Somewhat disagree	(3)	0	0.00%		Mean	STD	Median	Department	Mean	STD	Median					
Somewhat agree	(4)	0	0.00%		57/64 (89.06%)	5.81	0.72	6.00	24710	5.25	1.06	6.00	2402	5.11	1.16	5.00
Agree	(5)	6	10.53%													
Strongly agree	(6)	50	87.72%													

**1 - Please indicate the extent to which you agree or disagree with each of the following statements:**

**1B - The instructor presented the subject matter clearly.**

Dylan Patrick Losey

Response Option	Weight	Frequency	Percent	Percent Responses	Means											
Strongly disagree	(1)	1	1.75%		5.68	5.07	4.84									
Disagree	(2)	0	0.00%		Question	College	Department									
Somewhat disagree	(3)	0	0.00%		Mean	STD	Median	Department	Mean	STD	Median					
Somewhat agree	(4)	2	3.51%		57/64 (89.06%)	5.68	0.81	6.00	24533	5.07	1.20	5.00	2388	4.84	1.38	5.00
Agree	(5)	9	15.79%													
Strongly agree	(6)	45	78.95%													

**1 - Please indicate the extent to which you agree or disagree with each of the following statements:**

**1C - The instructor provided feedback intended to improve my course performance.**

Dylan Patrick Losey

Response Option	Weight	Frequency	Percent	Percent Responses	Means											
Strongly disagree	(1)	2	3.57%		5.21	5.01	4.74									
Disagree	(2)	1	1.79%		Question	College	Department									
Somewhat disagree	(3)	0	0.00%		Mean	STD	Median	Department	Mean	STD	Median					
Somewhat agree	(4)	7	12.50%		56/64 (87.50%)	5.21	1.17	6.00	24526	5.01	1.25	5.00	2385	4.74	1.40	5.00
Agree	(5)	16	28.57%													
Strongly agree	(6)	30	53.57%													

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**Response Rate:** 57/64 (89.06%)

1 - Please indicate the extent to which you agree or disagree with each of the following statements:												
1D - The instructor fostered an atmosphere of mutual respect.												
Dylan Patrick Losey												
Response Option	Weight	Frequency	Percent	Percent Responses	Means							
Strongly disagree	(1)	1	1.75%		5.74							
Disagree	(2)	0	0.00%		5.36							
Somewhat disagree	(3)	0	0.00%		5.18							
Somewhat agree	(4)	2	3.51%									
Agree	(5)	6	10.53%									
Strongly agree	(6)	48	84.21%									
					0	25	50	100	Question	College	Department	
Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median	
57/64 (89.06%)	5.74	0.79	6.00	24481	5.36	1.00	6.00	2383	5.18	1.13	6.00	

1 - Please indicate the extent to which you agree or disagree with each of the following statements:												
1E - Overall, the instructor's teaching was effective.												
Dylan Patrick Losey												
Response Option	Weight	Frequency	Percent	Percent Responses	Means							
Strongly disagree	(1)	1	1.75%		5.60							
Disagree	(2)	0	0.00%		5.05							
Somewhat disagree	(3)	0	0.00%		4.81							
Somewhat agree	(4)	3	5.26%									
Agree	(5)	12	21.05%									
Strongly agree	(6)	41	71.93%									
					0	25	50	100	Question	College	Department	
Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median	
57/64 (89.06%)	5.60	0.84	6.00	24389	5.05	1.24	5.00	2372	4.81	1.41	5.00	

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**Instructor:** Dylan Patrick Losey \*

**Response Rate:** 57/64 (89.06 %)

## 2 - 2A - What did the instructor do that most helped in your learning?

**Dylan Patrick Losey**

Response Rate	
44/64 (68.75%)	

- made amazing lecture slides, new how to apply the material through examples and even an in class demonstration, brought positive vibes
- Losey had problem sets that we did in class and had access to outside of class. Having solutions as well enabled students to get more examples of concepts they found confusing. That way, the lectures typically focused on the core concepts of some new topic with maybe an example to highlight things, and then the problem sets and homeworks were for students to solidify their understanding of the new concepts.
- Dr. Losey was very organized which was helpful whenever I needed to find any information. The lectures did not cover any extraneous concepts, which improved my understanding of the core robotics concepts. Furthermore, the amount of example problems covered was very helpful in solidifying my understanding.
- Dr. Losey slides for each lecture are very clear and concise for which I like. I also appreciate the practice problem sets that we work through in each class.
- Very clear powerpoints and LOTS of examples which I loved
- Makes his own slides and they even looks good too. Great guy, made the course material fun and was very receptive to students questions
- Very well articulated and would go above and beyond to answer your questions with real world applications
- Office Hours were helpful, and the Powerpoints being put together well makes material easy to understand. Videos at the start of slide decks were an awesome way to demonstrate concepts and show cool tech.
- He was always very engaged in class and was able to keep the class engaged as well.
- Really went over the basics to ensure the students understood the concept.
- He went over lots of practice problems and posted the practice problems on Canvas for students to access again to get a better understanding of the content. Also he focused on class engagement that allowed us to ask questions and answer his.
- Great PowerPoint slides, very concise, clear lectures.
- His slides were very helpful
- Doing the practice set problems in class was very helpful. It provided a chance to attempt to apply the concepts we discussed in a setting where questions could be asked immediately. It also acted as an additional source of reference when completing the homework assignments.
- Videos and example problems
- Dr.Losey always brought example video in the beginning of the class to give us sense of concept of that day. This was helped me to understand the concept of each lectures and made me more interesting on class.
- The instructor provided very clear and CONCISE lecture slides. The examples were helpful and the homework prepared me for the tests.
- He explained the topics clearly and did example problems in class which applied the concepts we had just learned. He engaged with the class a lot and asked us questions to make sure we were still following.
- In class examples and practice problem sets with answers helped a lot. His notes are also very well written and relatively easy to understand.
- Going through practice problems and code during lectures.
- Best slides and lectures
- The professor's slides were insanely well made and it was very obvious he cared about the subject matter and making sure the students understood it.
- The lecture itself, the power point is really helpful
- His in-class examples were very helpful for understanding the material.
- go through example questions for each topic
- Practice problems worked out in class and labs supplemented the material.
- He was always very open to discussions and was very helpful during office hours.
- Having videos before almost every new material lectures explaining how the new materials would be applied in real life or how we would use the materials the class was about to learn to apply into application.
- In depth office hours
- In class problems after explaining material. Helps to exercise what we just learned or didnt learned. Fleshing out doubts and beginning the learningprocess.
- Presented complex subject matter clearly and gave good examples for most of the material.
- Lots of examples
- Difficult topics were explained very well, slides were clear and easy to return to.
- Dr. Losey's in class examples helped me so much with understanding the course material. His lectures were very well prepared and the labs and homework were directly applicable to the lectures.
- The most helpful thing was allowing students to think about problems and reason through methods before giving the answers. Algorithms presented in class were clear and interesting to tackle.
- good live presentation skills
- Prof. Losey had very good and helpful slides with all necessary equations.
- Slides were simple to follow and easy to understand, especially useful for difficult topics.
- Effectively paced the material, to allow for a good understanding.
- The videos increased my interest in the subject.
- Professor Losey was always prepared for class. He made sure to post the slides and practice problems right before the class started so that we could view them while he was teaching. The practice problems for each class were always relevant and useful to refer to for homeworks and studying for the exams, the answers were included which helped validate my understanding. The homework solutions were also posted once the homeworks were submitted so that you could go back and review what you missed, or how the problem was solved.
- The lectures were well thought out, came around and talked to students as well, enthusiastic about the material.
- Professor Losey was a really positive presence in his classroom. I had some personal matters happen this semester that hurt my attendance rate, but he never seemed to mind and always had a mood as if he was happy to see and hear from his students.

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• answered questions and engaged the class

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**3 - Please indicate the extent to which you agree or disagree with each of the following statements:**

**3A - I have a deeper understanding of the subject matter as a result of this course.**

Response Option	Weight	Frequency	Percent	Percent Responses	Means									
Strongly disagree	(1)	1	1.75%		5.58	5.14	4.99							
Disagree	(2)	0	0.00%											
Somewhat disagree	(3)	0	0.00%											
Somewhat agree	(4)	2	3.51%											
Agree	(5)	15	26.32%											
Strongly agree	(6)	39	68.42%											
					0	25	50	100	Question	College	Department			
<b>Response Rate</b>	<b>Mean</b>	<b>STD</b>	<b>Median</b>	<b>College</b>	<b>Mean</b>	<b>STD</b>	<b>Median</b>	<b>Department</b>	<b>Mean</b>	<b>STD</b>	<b>Median</b>			
57/64 (89.06%)	5.58	0.82	6.00	21442	5.14	1.08	5.00	2066	4.99	1.19	5.00			

**3 - Please indicate the extent to which you agree or disagree with each of the following statements:**

**3B - My interest in the subject matter was stimulated by this course.**

Response Option	Weight	Frequency	Percent	Percent Responses	Means									
Strongly disagree	(1)	1	1.75%		5.61	4.90	4.72							
Disagree	(2)	0	0.00%											
Somewhat disagree	(3)	0	0.00%											
Somewhat agree	(4)	2	3.51%											
Agree	(5)	13	22.81%											
Strongly agree	(6)	41	71.93%											
					0	25	50	100	Question	College	Department			
<b>Response Rate</b>	<b>Mean</b>	<b>STD</b>	<b>Median</b>	<b>College</b>	<b>Mean</b>	<b>STD</b>	<b>Median</b>	<b>Department</b>	<b>Mean</b>	<b>STD</b>	<b>Median</b>			
57/64 (89.06%)	5.61	0.82	6.00	21326	4.90	1.31	5.00	2057	4.72	1.41	5.00			

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**Response Rate:** 57/64 (89.06 %)

#### 4 - 4A - What could you have done to be a better learner?

Response Rate	42/64 (65.62%)
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- sat in the desk in the wayyyy from of class
- I couldve started some homeworks in advance so that I had time to ask more questions.
- Attend all office hours to ask more questions.
- Not get penalized harshly for turning in homework when their is no partial what so ever rewarded. It hard to want to do the homework when it does not foster learning. I also would have liked a few more examples in certain sections to give more variety in problem approach, to help further understand concepts presented in class. Some places I believe had good examples, Like forward kinematics, but motion planning, section near the screws, etc just felt like I could not fully understand how to apply the concepts at times.
- Asked more questions during class... not my strong suit
- None
- Read the textbook more thoroughly
- Started assignments earlier to take advantage of office hours, better review for midterm
- Spent more time on the homework. Not wait until the second week.
- I could have referred to outside references more like the textbook although it was slightly different from the material taught in class.
- I could have read the textbook content more often rather than just learn during lectures.
- Attend all lectures
- Provide full examples. During the Lenopinov section the slides brushed over on how to do the differentiation, the most difficult part. Also, there should be partial credit for homework. I skipped the Lenopinov hw problem because it would have taken hours due to a lack of teaching and I knew I would make a simple mistake, ie it would have been a waste of time
- I could have made better use of the reading material by reading the relevant textbook chapters for the course rather than relying solely on the course notes. I also could have started the homework earlier to try to make time to go to office hours when I was confused.
- Do more examples
- If I go back to the first day of this semester, I could have done previewing the lecture slide or read the book. It would be more helpful to learn in good quality.
- I could have started the homeworks earlier and attended office hours at all times instead of the times when homework was due. I could have read the textbook in greater detail. However, overall, I believe that I was a good student and that my grade reflected it.
- I could have started the homework assignments earlier and spent more time studying.
- Try to be more attentive in class
- I believe the entire class found the homework's to be helpful but extremely difficult at times. A lot of times I just did not know where to even start. I think it would be helpful for learning if you went over the homework's a little more in class and if you gave some hints on starting problems.
- I could have been more engaged during lectures.
- Prepared more for the last lab
- Paid closer attention in class
- Spent more time on reviewing before the test, as well as bring a better formula sheet
- N/A
- Gone to office hours.
- I could have been to class on time.
- take better notes on the presentations
- Paid attention more in class. Asked more 'silly' questions
- Taken more thorough notes in the lecture.
- Read the textbook other than when i had issues
- Got very frustrated with several of the homework assignments and did poorly. Could've sought out help before the due dates but I tend to just avoid office hours.
- I could have read the suggested textbook readings
- I could have been more on top of assignments and attended office hours. I always wish I attended more office hours, but I'm too lazy to show up.
- I missed some classes due to working on senior design but I should have been more proactive in getting senior design work done.
- Ask questions during lectures.
- Go to office hours and begin the homework assignments earlier.
- Put more time.
- I could have missed fewer classes, when the semester got busier there were occasional classes I had to miss for other reasons. It is easy to get behind in the class because the lecture powerpoints themselves dont include a lot of content to help with learning. It is Losey himself who does most of the teaching, with the slides as an aid. You really have to be in class to get the full content and learning experience.
- Attend every class, spend more time on HW.
- attend more lectures
- read the textbook and asked more questions

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**5 - 5A - Please add any additional comments regarding the course and/or instructor here:**

**Dylan Patrick Losey**

Response Rate	
33/64 (51.56%)	

- Cant wait for Human-Robot interactions!
- It would be helpful to have more than one hour of office hours each week. I didnt feel like that was enough time to process material and questions.
- Dr. Losey made the information in the course easily digestible and very interesting. Dr. Losey was always willing to help out and reviewed concepts whenever the class was confused.
- Overall, I really liked the content of this course and it stimulated my drive to want to continue to improve and learn it. The main issue that I have with this course is that homework was consistency graded harshly. I understand when homework is sometimes graded all or nothing, but normally each homework is not worth 4% of your grade. If I had gotten the problem completely wrong on each homework, then I understand losing all credit. But I have seen on a few times when comparing my problem with the solution and seeing that I got most of it right, just a small piece wrong. Normally homework is what pushes students grades up. I do not understand why homework is graded without partial since there are 3 GTAs for this course of only 62 students. I have seen 1 GTA grade over a 100 students in harder classes and give partial. Because of such harsh grading on homework, I have talked with other students in the class and many will not even try to solve problems that they believe will take a large amount of time with the risk of getting no points for putting any effort into it. I believe this is a major detriment to this class and overall to anyone's learning. I still do not understand 3 GTAs and no partial...
- Great class, my first intro to robotics and I hope to do more of it!
- I wish there had been more practice problems that were similar/worked out that were more related toward the homework assignments. I feel like sometimes the homework assignment problems were kind of a bigger stretch from what we were taught in the lecture slides or even in the practice problems provided.
- None
- Everything in the class was very clear with how to solve, and it seemed to build off of the previous material. However, as we got closer to Lyapunov stability and controls, the professor seemed to glaze over it, and I felt as if the class increased dramatically in speed and intensity for no reason. If he spent more time explaining the foundational material, we would all have a much easier time
- It was really cool when you brought your robot in. I thought it was really fun and different for a class.
- Dr. Losey genuinely cares about his students' success.
- n/a
- Thank you for teaching us in this semester. When I registered this course, I did not have many knowledge of robotics and did not really interest in. However, with your great lecture, I really enjoyed the basic senses of robots.
- Inspired me to dive deeper into robotics. Looking forward to human robot interaction
- Great professor, you can tell he really cares about his teaching. Keep it up!
- I enjoyed the course and the content, the only gripe I have is with the grading and feedback on homework assignments. There was no partial credit for questions and often the only feedback received was that you got the question wrong. This was frustrating since in many problems a single small mistake could cause a massive loss of points and you would have to wait until the homework solution was posted to see where you went wrong.
- Please post the slides, those videos and animations are so cool. But the pdf just turned all of them into images.
- N/A
- I really enjoyed his teaching style. It is clear he really cared about of learning experience and making his course engaging.
- He is a very good Professor and I am interested to take his machine and human interaction class next semester.
- I really enjoyed this course and it really helped me understand and grow my interest in robotics. The only thing that would be helpful is that especially with the more CS material at the end of the semester it would have been helpful to have more examples as for me as someone who is not in the robotics major the algorithm development is especially challenging and new.
- Keep doin You, it works
- Overall, course was great. Only complaint would be the lack of feedback on HWs.
- Dr. Losey is one of my favorite professors. His slides are very professionally made and he is a very confident well spoken teacher.
- Great professor. Prof. Losey was always well prepared for class. His notes are professionally presented and clearly explain the topics of the class. Posting homework answers was helpful.
- Sometimes the lectures felt slow, it seemed like sometimes we covered more examples than were necessary. Maybe some of the early class time could be allocated to the more complicated topics.
- Live recordings of the lectures. The live format does not provide enough time for students to do thorough notes unless using a device with touchscreen capabilities. Due to Dr. Losey's great ability to give a live presentation, the lecture slides themselves do not require a large amount of in-depth details or text. So when looking back at the slides after the lecture, it is impossible to know what exactly was said in class outside of the obvious. Small details, tips, nuances, and transitional information are lost. This means that people without touchscreen computers have less success in the class since there's no recording. People that are economically disadvantaged are less likely to have a touchscreen computer. His teaching and effort is great, but the recording factor plays a huge role.
- The course was great, and really made it feel like I could understand complex topics of robotics (especially inverse kinematics and torque control)
- Excellent instructor, very knowledgeable and great at clarifying questions.
- The class was cool!
- This has been one of my favorite courses I have taken. I have learned extremely useful information to take with me to my future classes and roles in industry. With that being said I do think there could be a couple improvements. I think it would be helpful to have a weekly homework instead of bi-weekly to help keep the material more fresh in our minds. I also think it would be helpful if the lectures were recorded and post just in case some classes are missed. I think you are a wonderful teacher, and just looking through the slides does not convey all the content in the same way. With that being said, I love your slides. They are concise, well formatted and the video introductions always got me excited. You teach with passion, really know your stuff, and inspired me to be a better Robotacist. Thank you.
- Very fun course and you learn a lot. Heavy on matrix mathematics, and MATLAB. It isn't easy though, and the HW can be somewhat time consuming.
- As i said before, Professor Losey was a really kind man in his class. His grading and course structure is fair and the material was structured in a iterative way, at no point did i feel lost.
- cool guy

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### 6 - 6A - How would you rate the physical environment in which you took this class based upon your ability to see, hear, concentrate, and participate?

Response Option	Weight	Frequency	Percent	Percent Responses	Means							
Very Bad	(1)	0	0.00%		5.66	5.20	5.12	Question	College	Department		
Bad	(2)	0	0.00%									
Poor	(3)	0	0.00%									
Fair	(4)	2	3.57%									
Good	(5)	15	26.79%									
Very Good	(6)	39	69.64%									
					0	25	50	100				
Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median	
56/64 (87.50%)	5.66	0.55	6.00	21272	5.20	0.93	5.00	2051	5.12	1.02	5.00	

### 7 - 7A - Please add any comments about the physical environment here:

Response Rate	19/64 (29.69%)
<ul style="list-style-type: none"> <li>• I love Goodwin Hall</li> <li>• N/A</li> <li>• None</li> <li>• Good classroom</li> <li>• The tables had outlets as part of the tables, but they weren't plugged in. So most the time it was hard to charge the laptop unless you sat next to a wall.</li> <li>• n/a</li> <li>• The consent was randomly connected and hard to find consent.</li> <li>• N/A</li> <li>• None</li> <li>• N/A</li> <li>• Solid Goodwin room can't go wrong.</li> <li>• It was always in the classroom where everyone was very friendly and respectful.</li> <li>• All good</li> <li>• Goodwin 115 is a great classroom, no complaints.</li> <li>• N/A</li> <li>• The classroom was good, the dual projectors made it really easy to follow the lecture no matter where I sat or wherever Professor Losey was teaching from.</li> <li>• Nothing</li> <li>• n/a</li> <li>• cool place</li> </ul>	

### 8 - Please indicate the extent to which you agree or disagree with each of the following statements:

I improved my ability to problem solve.

Response Option	Weight	Frequency	Percent	Percent Responses	Means							
Strongly disagree	(1)	0	0.00%		5.53	5.08	5.02	Question	College	Department		
Disagree	(2)	0	0.00%									
Somewhat disagree	(3)	0	0.00%									
Somewhat agree	(4)	4	7.02%									
Agree	(5)	19	33.33%									
Strongly agree	(6)	34	59.65%									
					0	25	50	100				
Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median	
57/64 (89.06%)	5.53	0.63	6.00	21365	5.08	1.04	5.00	2055	5.02	1.09	5.00	



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**8 - Please indicate the extent to which you agree or disagree with each of the following statements:**

The textbook or course readings made a valuable contribution to my learning.

Response Option	Weight	Frequency	Percent	Percent Responses	Means						
Strongly disagree	(1)	0	0.00%								
Disagree	(2)	6	10.53%	█							
Somewhat disagree	(3)	6	10.53%	█							
Somewhat agree	(4)	7	12.28%	█							
Agree	(5)	13	22.81%	█							
Strongly agree	(6)	25	43.86%	█							
					0 25 50 100	Question	College	Department			
Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median
57/64 (89.06%)	4.79	1.39	5.00	21251	4.63	1.41	5.00	2049	4.50	1.43	5.00

**8 - Please indicate the extent to which you agree or disagree with each of the following statements:**

The objectives of the course were clearly explained.

Response Option	Weight	Frequency	Percent	Percent Responses	Means						
Strongly disagree	(1)	0	0.00%								
Disagree	(2)	0	0.00%								
Somewhat disagree	(3)	0	0.00%								
Somewhat agree	(4)	1	1.75%								
Agree	(5)	18	31.58%	█							
Strongly agree	(6)	38	66.67%	█							
					0 25 50 100	Question	College	Department			
Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median
57/64 (89.06%)	5.65	0.52	6.00	21306	5.11	1.11	5.00	2043	4.93	1.23	5.00

**8 - Please indicate the extent to which you agree or disagree with each of the following statements:**

The out-of-class assignments were educationally valuable.

Response Option	Weight	Frequency	Percent	Percent Responses	Means						
Strongly disagree	(1)	1	1.75%								
Disagree	(2)	0	0.00%								
Somewhat disagree	(3)	0	0.00%								
Somewhat agree	(4)	4	7.02%	█							
Agree	(5)	15	26.32%	█							
Strongly agree	(6)	37	64.91%	█							
					0 25 50 100	Question	College	Department			
Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median
57/64 (89.06%)	5.51	0.87	6.00	21178	5.03	1.18	5.00	2039	4.84	1.30	5.00

**9 - The instructor related theories and concepts to practical issues.**

Dylan Patrick Losey

Response Option	Weight	Frequency	Percent	Percent Responses	Means						
Strongly disagree	(1)	0	0.00%								
Disagree	(2)	0	0.00%								
Somewhat disagree	(3)	0	0.00%								
Somewhat agree	(4)	1	1.79%								
Agree	(5)	11	19.64%	█							
Strongly agree	(6)	44	78.57%	█							
					0 25 50 100	Question	College	Department			
Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median
56/64 (87.50%)	5.77	0.47	6.00	24126	5.25	1.01	6.00	2346	5.12	1.14	5.00

Virginia Tech  
 Fall 2022 VT Student Perceptions of Teaching (SPOT)

Course: ME4524: Robotics & Automation-ME\_4524\_87337\_202209  
 Instructor: Dylan Patrick Losey \*  
 Response Rate: 57/64 (89.06 %)

**10 - At the end of this course, how do I rate my ability to:**  
 Determine the number of degrees of a robotic system

Response Option	Weight	Frequency	Percent	Percent Responses	Means							
Poor	(1)	0	0.00%		3.80	3.80	3.80					
Fair	(2)	2	3.51%									
Good	(3)	7	12.28%									
Excellent	(4)	46	80.70%									
N/A	(0)	2	3.51%									
					0	25	50	100	Question	College	Department	
Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median	
57/64 (89.06%)	3.80	0.49	4.00	57	3.80	0.49	4.00	57	3.80	0.49	4.00	

**10 - At the end of this course, how do I rate my ability to:**  
 Describe and sketch the common manipulator configurations

Response Option	Weight	Frequency	Percent	Percent Responses	Means							
Poor	(1)	0	0.00%		3.71	3.71	3.71					
Fair	(2)	4	7.02%									
Good	(3)	8	14.04%									
Excellent	(4)	43	75.44%									
N/A	(0)	2	3.51%									
					0	25	50	100	Question	College	Department	
Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median	
57/64 (89.06%)	3.71	0.60	4.00	57	3.71	0.60	4.00	57	3.71	0.60	4.00	

**10 - At the end of this course, how do I rate my ability to:**  
 Use the rotation and transform matrices to describe link positions and orientations

Response Option	Weight	Frequency	Percent	Percent Responses	Means							
Poor	(1)	1	1.75%		3.78	3.78	3.78					
Fair	(2)	1	1.75%									
Good	(3)	7	12.28%									
Excellent	(4)	46	80.70%									
N/A	(0)	2	3.51%									
					0	25	50	100	Question	College	Department	
Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median	
57/64 (89.06%)	3.78	0.57	4.00	57	3.78	0.57	4.00	57	3.78	0.57	4.00	

**10 - At the end of this course, how do I rate my ability to:**  
 Solve the forward kinematics of any serial manipulator

Response Option	Weight	Frequency	Percent	Percent Responses	Means							
Poor	(1)	1	1.75%		3.78	3.78	3.78					
Fair	(2)	1	1.75%									
Good	(3)	7	12.28%									
Excellent	(4)	46	80.70%									
N/A	(0)	2	3.51%									
					0	25	50	100	Question	College	Department	
Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median	
57/64 (89.06%)	3.78	0.57	4.00	57	3.78	0.57	4.00	57	3.78	0.57	4.00	

Virginia Tech  
 Fall 2022 VT Student Perceptions of Teaching (SPOT)

**Course:** ME4524: Robotics & Automation-ME\_4524\_87337\_202209  
**Instructor:** Dylan Patrick Losey \*  
**Response Rate:** 57/64 (89.06%)

**10 - At the end of this course, how do I rate my ability to:**  
 Set up the inverse kinematic equations for any serial manipulator

Response Option	Weight	Frequency	Percent	Percent Responses	Means							
Poor	(1)	1	1.75%			3.56	3.56	3.56				
Fair	(2)	2	3.51%									
Good	(3)	17	29.82%	■								
Excellent	(4)	35	61.40%	■								
N/A	(0)	2	3.51%									
					0	25	50	100	Question	College	Department	
<b>Response Rate</b>	<b>Mean</b>	<b>STD</b>	<b>Median</b>	<b>College</b>	<b>Mean</b>	<b>STD</b>	<b>Median</b>	<b>Department</b>	<b>Mean</b>	<b>STD</b>	<b>Median</b>	
57/64 (89.06%)	3.56	0.66	4.00	57	3.56	0.66	4.00	57	3.56	0.66	4.00	

**10 - At the end of this course, how do I rate my ability to:**  
 Perform velocity and force analysis for any serial manipulator

Response Option	Weight	Frequency	Percent	Percent Responses	Means							
Poor	(1)	1	1.75%			3.32	3.32	3.32				
Fair	(2)	6	10.53%	■								
Good	(3)	23	40.35%	■								
Excellent	(4)	26	45.61%	■								
N/A	(0)	1	1.75%									
					0	25	50	100	Question	College	Department	
<b>Response Rate</b>	<b>Mean</b>	<b>STD</b>	<b>Median</b>	<b>College</b>	<b>Mean</b>	<b>STD</b>	<b>Median</b>	<b>Department</b>	<b>Mean</b>	<b>STD</b>	<b>Median</b>	
57/64 (89.06%)	3.32	0.74	3.00	57	3.32	0.74	3.00	57	3.32	0.74	3.00	

**10 - At the end of this course, how do I rate my ability to:**  
 Determine singular configurations for common manipulators

Response Option	Weight	Frequency	Percent	Percent Responses	Means							
Poor	(1)	2	3.51%			3.20	3.20	3.20				
Fair	(2)	11	19.30%	■								
Good	(3)	17	29.82%	■								
Excellent	(4)	26	45.61%	■								
N/A	(0)	1	1.75%									
					0	25	50	100	Question	College	Department	
<b>Response Rate</b>	<b>Mean</b>	<b>STD</b>	<b>Median</b>	<b>College</b>	<b>Mean</b>	<b>STD</b>	<b>Median</b>	<b>Department</b>	<b>Mean</b>	<b>STD</b>	<b>Median</b>	
57/64 (89.06%)	3.20	0.88	3.00	57	3.20	0.88	3.00	57	3.20	0.88	3.00	

**10 - At the end of this course, how do I rate my ability to:**  
 Generate trajectory plans for robot motion

Response Option	Weight	Frequency	Percent	Percent Responses	Means							
Poor	(1)	3	5.26%			3.16	3.16	3.16				
Fair	(2)	8	14.04%	■								
Good	(3)	22	38.60%	■								
Excellent	(4)	23	40.35%	■								
N/A	(0)	1	1.75%									
					0	25	50	100	Question	College	Department	
<b>Response Rate</b>	<b>Mean</b>	<b>STD</b>	<b>Median</b>	<b>College</b>	<b>Mean</b>	<b>STD</b>	<b>Median</b>	<b>Department</b>	<b>Mean</b>	<b>STD</b>	<b>Median</b>	
57/64 (89.06%)	3.16	0.87	3.00	57	3.16	0.87	3.00	57	3.16	0.87	3.00	

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**Course:** ME4524: Robotics & Automation-ME\_4524\_87337\_202209

**Instructor:** Dylan Patrick Losey \*

**Response Rate:** 57/64 (89.06 %)

**10 - At the end of this course, how do I rate my ability to:**

Describe the operation of various types of motors and sensors

Response Option	Weight	Frequency	Percent	Percent Responses	Means						
Poor	(1)	3	5.26%			3.17	3.17	3.17			
Fair	(2)	9	15.79%								
Good	(3)	18	31.58%								
Excellent	(4)	24	42.11%								
N/A	(0)	3	5.26%								
				0 25 50 100	Question	College	Department				
Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median
57/64 (89.06%)	3.17	0.91	3.00	57	3.17	0.91	3.00	57	3.17	0.91	3.00