

# Virginia Tech

## Fall 2023 VT Student Perceptions of Teaching (SPOT)

**Course:** ME\_4584\_87352\_202309: Robotics Laboratory-ME\_4584\_87352\_202309  
**Instructor:** Dylan Patrick Losey \*  
**Response Rate:** 13/20 (65.00 %)

**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)	0	0.00%			5.62		5.23		5.20			
Disagree		(2)	0	0.00%										
Somewhat disagree		(3)	0	0.00%										
Somewhat agree		(4)	1	7.69%										
Agree		(5)	3	23.08%										
Strongly agree		(6)	9	69.23%										
					0	25	50	100	Question	College		Department		
Response Rate		Mean	STD	Median	College		Mean	STD	Median	Department		Mean	STD	Median
13/20 (65.00%)		5.62	0.65	6.00	25753		5.23	1.09	6.00	1877		5.20	1.12	6.00

**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)	0	0.00%										
Disagree		(2)	0	0.00%										
Somewhat disagree		(3)	0	0.00%										
Somewhat agree		(4)	1	7.69%										
Agree		(5)	3	23.08%										
Strongly agree		(6)	9	69.23%										
					0	25	50	100	Question	College		Department		
Response Rate		Mean	STD	Median	College		Mean	STD	Median	Department		Mean	STD	Median
13/20 (65.00%)		5.62	0.65	6.00	25573		5.06	1.23	5.00	1861		5.02	1.21	5.00

**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)	0	0.00%								
Disagree				(2)	0	0.00%								
Somewhat disagree				(3)	1	7.69%								
Somewhat agree				(4)	1	7.69%								
Agree				(5)	2	15.38%								
Strongly agree				(6)	9	69.23%								
							0	25	50	100	Question	College	Department	
Response Rate		Mean	STD	Median	College		Mean	STD	Median	Department	Mean	STD	Median	
13/20 (65.00%)		5.46	0.97	6.00	25560		5.03	1.25	5.00	1865	4.94	1.24	5.00	

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**Response Rate:** 13/20 (65.00 %)

**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)	0	0.00%									
Disagree		(2)	0	0.00%									
Somewhat disagree		(3)	0	0.00%									
Somewhat agree		(4)	1	7.69%									
Agree		(5)	3	23.08%									
Strongly agree		(6)	9	69.23%									
					0	25	50	100	Question	College	Department		
Response Rate		Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median	
13/20 (65.00%)		5.62	0.65	6.00	25533	5.35	1.03	6.00	1858	5.38	0.94	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)	0	0.00%								
Disagree		(2)	0	0.00%								
Somewhat disagree		(3)	0	0.00%								
Somewhat agree		(4)	0	0.00%								
Agree		(5)	4	30.77%								
Strongly agree		(6)	9	69.23%								
					0	25	50	100	Question	College	Department	
Response Rate		Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median
13/20 (65.00%)		5.69	0.48	6.00	25412	5.04	1.27	5.00	1856	5.03	1.23	5.00

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

**Dylan Patrick Losey**

**Response Rate** 7/20 (35%)

- Losey was not involved in the lab.
- The labs related closely to what was being taught in class
- The labs were very nice to help see a physical robot in motion and put the lecture material to the test.
- The lab GTAs were amazing. Not only did they help us understand the lab they were also extremally patient. On top of that we had a lot of fun watching the robots move and had fun talking with the GTAs.
- Answering questions effectively, and actively helping students if it seems they have a problem
- Providing the lab manuals before hand gave us a chance to understnad what we were doing before having to do it. Making sure we knew the topics of the lab before taking them was also a huge help.
- The labs were very well matched with the concepts during lecture without being redundant. In each lab I felt I got to apply what I had learned in the lecture in a practical but unexpected way.

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**Response Rate:** 13/20 (65.00 %)

### 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)	0	0.00%										
Disagree		(2)	0	0.00%										
Somewhat disagree		(3)	0	0.00%										
Somewhat agree		(4)	1	7.69%										
Agree		(5)	3	23.08%										
Strongly agree		(6)	9	69.23%										
					0	25	50	100	Question	College		Department		
Response Rate		Mean	STD	Median	College		Mean	STD	Median	Department		Mean	STD	Median
13/20 (65.00%)		5.62	0.65	6.00	21974		5.14	1.09	5.00	1860		5.12	1.08	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)	0	0.00%		5.54	4.92	4.86					
Disagree				(2)	0	0.00%									
Somewhat disagree				(3)	0	0.00%									
Somewhat agree				(4)	2	15.38%									
Agree				(5)	2	15.38%									
Strongly agree				(6)	9	69.23%									
								0	25	50	100	Question	College	Department	
Response Rate		Mean	STD	Median	College		Mean	STD	Median	Department		Mean	STD	Median	
13/20 (65.00%)		5.54	0.78	6.00	21856		4.92	1.31	5.00	1859		4.86	1.31	5.00	

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

**Response Rate** 7/20 (35%)

- Been more prepared ahead of time.
- Read the labs before the day of so I was better prepared.
- I wish I challenged myself more in the labs rather than just doing what was needed.
- Reading the lab instructions carefully & preparing a code for the lab to save the time
- I could've tried to write all the matlab code before going to the lab. I would typically attempt to write some code but if it seemed difficult I would wait until I could ask the lab TAs.
- paid attention in class
- I could have experimented more during the labs.

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

**Dylan Patrick Losey**

**Response Rate** 4/20 (20%)

- Again, Dr. Losey is an amazing prof. Would take him for every class if I could have.
- This lab was helpful to understand and learn how we should use the robotics theory to control the robot
- The lab was a great way to physically demonstrate the knowledge that we learned throughout the course. I got a much deeper understanding of what it was we were learning by completing the labs.
- Some of the lab questions were basic to the point of being confusing. Once or twice I was confused on a question because I thought it was asking for a more complex answer than it really was. This is not a big issue.

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**Response Rate:** 13/20 (65.00 %)

### 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%		5.46		5.23		5.15					
Bad		(2)	0	0.00%											
Poor		(3)	1	7.69%											
Fair		(4)	0	0.00%											
Good		(5)	4	30.77%											
Very Good		(6)	8	61.54%											
					0	25	50	100	Question		College		Department		
Response Rate		Mean	STD	Median	College		Mean	STD	Median	Department		Mean	STD	Median	
13/20 (65.00%)		5.46	0.88	6.00	21701		5.23	0.94	5.00	1854		5.15	0.96	5.00	

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

Response Rate	5/20 (25%)
<ul style="list-style-type: none"> <li>• fine</li> <li>• The computers are slow. Faster ones would improve the experience.</li> <li>• N/A</li> <li>• Students working hard on the lab</li> <li>• The lab space was very open, plenty of room to walk around and ask question if need be.</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%									
Disagree		(2)	0	0.00%									
Somewhat disagree		(3)	0	0.00%									
Somewhat agree		(4)	0	0.00%									
Agree		(5)	5	38.46%									
Strongly agree		(6)	8	61.54%									
					0	25	50	100	Question	College	Department		
Response Rate		Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median	
13/20 (65.00%)		5.62	0.51	6.00	21863	5.08	1.07	5.00	1857	5.08	1.03	5.00	

### 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)	1	7.69%								
Disagree		(2)	0	0.00%								
Somewhat disagree		(3)	1	7.69%								
Somewhat agree		(4)	1	7.69%								
Agree		(5)	4	30.77%								
Strongly agree		(6)	6	46.15%								
					0	25	50	100	Question	College	Department	
Response Rate		Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median
13/20 (65.00%)		4.92	1.50	5.00	21725	4.66	1.41	5.00	1849	4.56	1.40	5.00

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### 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)	0	0.00%								
Agree		(5)	5	38.46%								
Strongly agree		(6)	8	61.54%								
					02550100	Question	College	Department				
Response Rate		Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median
13/20 (65.00%)		5.62	0.51	6.00	21804	5.13	1.11	5.00	1855	5.03	1.15	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)	0	0.00%									
Disagree		(2)	0	0.00%									
Somewhat disagree		(3)	0	0.00%									
Somewhat agree		(4)	1	7.69%									
Agree		(5)	4	30.77%									
Strongly agree		(6)	8	61.54%									
					02550100	Question	College		Department				
Response Rate		Mean	STD	Median	College	Mean	STD	Median	Department		Mean	STD	Median
13/20 (65.00%)		5.54	0.66	6.00	21677	5.05	1.17	5.00	1843		5.00	1.19	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	8.33%									
Agree		(5)	3	25.00%									
Strongly agree		(6)	8	66.67%									
					02550100	Question	College		Department				
Response Rate		Mean	STD	Median	College	Mean	STD	Median	Department		Mean	STD	Median
12/20 (60.00%)		5.58	0.67	6.00	25104	5.24	1.04	6.00	1837		5.32	0.96	6.00

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

Program the robot's forward kinematics, inverse kinematics, and Jacobian.

Response Option				Weight	Frequency	Percent	Percent Responses	Means							
Poor				(1)	0	0.00%	<div><div></div><div></div><div></div><div></div><div></div></div>	3.69	3.79	3.79					
Fair				(2)	0	0.00%									
Good				(3)	4	30.77%									
Excellent				(4)	9	69.23%									
N/A				(0)	0	0.00%									
								0	25	50	100	Question	College	Department	
Response Rate		Mean	STD	Median	College		Mean	STD	Median	Department		Mean	STD	Median	
13/20 (65.00%)		3.69	0.48	4.00	34		3.79	0.41	4.00	34		3.79	0.41	4.00	

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**Response Rate:** 13/20 (65.00 %)

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

Interact with the robot arm and measure it's joint space and workspace; compare the robot's measured position and velocity to the positions and velocities predicted by the robot's kinematics.

Response Option			Weight	Frequency	Percent	Percent Responses	Means											
Poor			(1)	0	0.00%													
Fair			(2)	0	0.00%													
Good			(3)	4	30.77%													
Excellent			(4)	9	69.23%													
N/A			(0)	0	0.00%													
02550100													Question	College		Department		
Response Rate		Mean	STD	Median	College		Mean	STD	Median	Department		Mean	STD	Median				
13/20 (65.00%)		3.69	0.48	4.00	34		3.68	0.59	4.00	34		3.68	0.59	4.00				

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

Control the robot arm to track a desired trajectory in joint space and in end-effector space.

Response Option			Weight	Frequency	Percent	Percent Responses	Means							
Poor			(1)	0	0.00%									
Fair			(2)	0	0.00%									
Good			(3)	6	46.15%									
Excellent			(4)	7	53.85%									
N/A			(0)	0	0.00%									
<div><div></div><div>02550100</div></div> <div><div>Question</div><div>College</div><div>Department</div><div></div></div>														
Response Rate		Mean	STD	Median	College		Mean	STD	Median	Department		Mean	STD	Median
13/20 (65.00%)		3.54	0.52	4.00	34		3.47	0.71	4.00	34		3.47	0.71	4.00