

Virginia Tech  
Fall 2021 VT Student Perceptions of Teaching (SPOT)

Course: ME\_4584\_91118\_202109: Robotics Laboratory-ME\_4584\_91118\_202109  
 Instructor: Dylan Patrick Losey \*  
 Response Rate: 9/19 (47.37 %)

**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%		5.33	5.20	4.98	Question	College	Department	Mean	STD	Median	
Disagree	(2)	0	0.00%											
Somewhat disagree	(3)	0	0.00%											
Somewhat agree	(4)	3	33.33%											
Agree	(5)	0	0.00%											
Strongly agree	(6)	6	66.67%											
					0	25	50	100	Question	College	Department	Mean	STD	Median
Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median			
9/19 (47.37%)	5.33	1.00	6.00	22610	5.20	1.12	6.00	2355	4.98	1.30	5.00			

**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%		5.44	4.98	4.69	Question	College	Department	Mean	STD	Median	
Disagree	(2)	0	0.00%											
Somewhat disagree	(3)	0	0.00%											
Somewhat agree	(4)	2	22.22%											
Agree	(5)	1	11.11%											
Strongly agree	(6)	6	66.67%											
					0	25	50	100	Question	College	Department	Mean	STD	Median
Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median			
9/19 (47.37%)	5.44	0.88	6.00	22465	4.98	1.28	5.00	2331	4.69	1.51	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%		5.44	4.94	4.66	Question	College	Department	Mean	STD	Median	
Disagree	(2)	0	0.00%											
Somewhat disagree	(3)	0	0.00%											
Somewhat agree	(4)	1	11.11%											
Agree	(5)	3	33.33%											
Strongly agree	(6)	5	55.56%											
					0	25	50	100	Question	College	Department	Mean	STD	Median
Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median			
9/19 (47.37%)	5.44	0.73	6.00	22445	4.94	1.30	5.00	2332	4.66	1.50	5.00			

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**Instructor:** Dylan Patrick Losey \*  
**Response Rate:** 9/19 (47.37 %)

### 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%		5.78	5.32	5.08	Question	College	Department	Mean	STD	Median
Disagree	(2)	0	0.00%										
Somewhat disagree	(3)	0	0.00%										
Somewhat agree	(4)	1	11.11%										
Agree	(5)	0	0.00%										
Strongly agree	(6)	8	88.89%										
<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>		
9/19 (47.37%)	5.78	0.67	6.00	22424	5.32	1.06	6.00	2326	5.08	1.29	5.00		

### 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%		5.44	4.97	4.69	Question	College	Department	Mean	STD	Median
Disagree	(2)	0	0.00%										
Somewhat disagree	(3)	0	0.00%										
Somewhat agree	(4)	2	22.22%										
Agree	(5)	1	11.11%										
Strongly agree	(6)	6	66.67%										
<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>		
9/19 (47.37%)	5.44	0.88	6.00	22321	4.97	1.31	5.00	2314	4.69	1.53	5.00		

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

Dylan Patrick Losey

**Response Rate** 3/19 (15.79%)

- The lab documents were well written and easy to understand.
- The lab content mostly corresponded to the lecture material at the time, which enforced each other.
- The TAs did a good job and were really helpful during lab.

### 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%		5.56	5.08	4.83	Question	College	Department	Mean	STD	Median
Disagree	(2)	0	0.00%										
Somewhat disagree	(3)	0	0.00%										
Somewhat agree	(4)	0	0.00%										
Agree	(5)	4	44.44%										
Strongly agree	(6)	5	55.56%										
<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>		
9/19 (47.37%)	5.56	0.53	6.00	19815	5.08	1.14	5.00	2077	4.83	1.32	5.00		

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**Response Rate:** 9/19 (47.37 %)

### 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%									
Disagree	(2)	0	0.00%									
Somewhat disagree	(3)	0	0.00%									
Somewhat agree	(4)	2	22.22%	■								
Agree	(5)	2	22.22%	■								
Strongly agree	(6)	5	55.56%	■								
					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>	
9/19 (47.37%)	5.33	0.87	6.00	19707	4.82	1.37	5.00	2071	4.55	1.55	5.00	

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

**Response Rate** 4/19 (21.05%)

- Read the lab documents before the lab.
- Revised the lecture, read more book while practicing more questions, and paid more attention in class.
- Done more pre-lab preparation
- Reviewed Linear Algebra right when class started.

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

**Dylan Patrick Losey**

**Response Rate** 5/19 (26.32%)

- In terms of the lab section, it would have been nicer to use robotic arms of higher quality and higher ability.
- I wish there was more advice for troubleshooting.
- Overall it was a great course, and it adequately introduced me to the field of robotics with a very good instruction from Dr. Losey.
- Dates of lab changed without notice during the semester, labs are not taught by Dylan Losey.
- A few of the labs could have been better prepared in terms of the lab room itself but the packets were very easy and intuitive to follow.

#### 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%									
Bad	(2)	0	0.00%									
Poor	(3)	0	0.00%									
Fair	(4)	1	11.11%	■								
Good	(5)	2	22.22%	■								
Very Good	(6)	6	66.67%	■								
					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>	
9/19 (47.37%)	5.56	0.73	6.00	19663	5.16	0.98	5.00	2068	4.96	1.17	5.00	

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

**Response Rate** 4/19 (21.05%)

- Randolph Hall is an old hall and the area we do the labs is quite small.
- Though the lecture slides were sufficient, online module should also have been available for the students who couldn't make it to the class.
- Lab space is slightly crowded with unused classroom space towards the Goodwin side of the room.
- Robots could be a little buggy, especially at the beginning around Lab 1, but were fine after that.

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 Response Rate: 9/19 (47.37 %)

**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%		5.44	5.03	4.83				
Disagree	(2)	0	0.00%								
Somewhat disagree	(3)	0	0.00%								
Somewhat agree	(4)	1	11.11%								
Agree	(5)	3	33.33%								
Strongly agree	(6)	5	55.56%								
					Question	College	Department				
Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median
9/19 (47.37%)	5.44	0.73	6.00	19758	5.03	1.10	5.00	2079	4.83	1.26	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)	0	0.00%		5.44	4.54	4.32				
Disagree	(2)	0	0.00%								
Somewhat disagree	(3)	0	0.00%								
Somewhat agree	(4)	1	11.11%								
Agree	(5)	3	33.33%								
Strongly agree	(6)	5	55.56%								
					Question	College	Department				
Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median
9/19 (47.37%)	5.44	0.73	6.00	19631	4.54	1.44	5.00	2073	4.32	1.53	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%		5.56	5.05	4.75				
Disagree	(2)	0	0.00%								
Somewhat disagree	(3)	0	0.00%								
Somewhat agree	(4)	1	11.11%								
Agree	(5)	2	22.22%								
Strongly agree	(6)	6	66.67%								
					Question	College	Department				
Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median
9/19 (47.37%)	5.56	0.73	6.00	19709	5.05	1.16	5.00	2075	4.75	1.41	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%		5.56	4.97	4.73				
Disagree	(2)	0	0.00%								
Somewhat disagree	(3)	0	0.00%								
Somewhat agree	(4)	0	0.00%								
Agree	(5)	4	44.44%								
Strongly agree	(6)	5	55.56%								
					Question	College	Department				
Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median
9/19 (47.37%)	5.56	0.53	6.00	19564	4.97	1.23	5.00	2060	4.73	1.41	5.00

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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%			5.56	5.20	5.00	Question	College	Department	
Disagree	(2)	0	0.00%									
Somewhat disagree	(3)	0	0.00%									
Somewhat agree	(4)	0	0.00%									
Agree	(5)	4	44.44%	██████████								
Strongly agree	(6)	5	55.56%	██████████								
					0	25	50	100				
Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median	
9/19 (47.37%)	5.56	0.53	6.00	22134	5.20	1.08	6.00	2304	5.00	1.27	5.00	

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%			3.56	3.59	3.59	Question	College	Department	
Fair	(2)	1	11.11%	█								
Good	(3)	2	22.22%	██								
Excellent	(4)	6	66.67%	██████████								
N/A	(0)	0	0.00%									
					0	25	50	100				
Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median	
9/19 (47.37%)	3.56	0.73	4.00	22	3.59	0.67	4.00	22	3.59	0.67	4.00	

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%			3.44	3.41	3.41	Question	College	Department	
Fair	(2)	1	11.11%	█								
Good	(3)	3	33.33%	███								
Excellent	(4)	5	55.56%	█████								
N/A	(0)	0	0.00%									
					0	25	50	100				
Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median	
9/19 (47.37%)	3.44	0.73	4.00	22	3.41	0.67	3.50	22	3.41	0.67	3.50	

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%			3.33	2.95	2.95	Question	College	Department	
Fair	(2)	1	11.11%	█								
Good	(3)	4	44.44%	████								
Excellent	(4)	4	44.44%	████								
N/A	(0)	0	0.00%									
					0	25	50	100				
Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median	
9/19 (47.37%)	3.33	0.71	3.00	22	2.95	1.00	3.00	22	2.95	1.00	3.00	