

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

Course: ME_4584_91119_202109: Robotics Laboratory-ME_4584_91119_202109
 Instructor: Dylan Patrick Losey *
 Response Rate: 16/25 (64.00 %)

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%			5.06	5.20	4.98	Question	College	Department	Mean	STD	Median
Disagree	(2)	1	6.25%	█										
Somewhat disagree	(3)	1	6.25%	█										
Somewhat agree	(4)	2	12.50%	█										
Agree	(5)	4	25.00%	█										
Strongly agree	(6)	8	50.00%	█										
					0	25	50	100						
Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median			
16/25 (64.00%)	5.06	1.24	5.50	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%			5.07	4.98	4.69	Question	College	Department	Mean	STD	Median
Disagree	(2)	1	7.14%	█										
Somewhat disagree	(3)	0	0.00%											
Somewhat agree	(4)	0	0.00%											
Agree	(5)	9	64.29%	█										
Strongly agree	(6)	4	28.57%	█										
					0	25	50	100						
Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median			
14/25 (56.00%)	5.07	1.00	5.00	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%			5.07	4.94	4.66	Question	College	Department	Mean	STD	Median
Disagree	(2)	1	7.14%	█										
Somewhat disagree	(3)	0	0.00%											
Somewhat agree	(4)	1	7.14%	█										
Agree	(5)	7	50.00%	█										
Strongly agree	(6)	5	35.71%	█										
					0	25	50	100						
Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median			
14/25 (56.00%)	5.07	1.07	5.00	22445	4.94	1.30	5.00	2332	4.66	1.50	5.00			

Virginia Tech

Fall 2021 VT Student Perceptions of Teaching (SPOT)

Course: ME_4584_91119_202109: Robotics Laboratory-ME_4584_91119_202109
Instructor: Dylan Patrick Losey *
Response Rate: 16/25 (64.00 %)

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%			5.36	5.32	5.08	Question	College	Department	STD	Median
Disagree	(2)	1	7.14%										
Somewhat disagree	(3)	0	0.00%										
Somewhat agree	(4)	0	0.00%										
Agree	(5)	5	35.71%										
Strongly agree	(6)	8	57.14%										
Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median		
14/25 (56.00%)	5.36	1.08	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%			5.21	4.97	4.69	Question	College	Department	STD	Median
Disagree	(2)	0	0.00%										
Somewhat disagree	(3)	1	7.14%										
Somewhat agree	(4)	0	0.00%										
Agree	(5)	8	57.14%										
Strongly agree	(6)	5	35.71%										
Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median		
14/25 (56.00%)	5.21	0.80	5.00	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 5/25 (20%)

- taught the material well before expecting you to complete a lab on the topic.
- These labs were helpful and informative and a great supplement to the material from the class.
- Again, fantastic professor and lecturer, one of the top three I've encountered at Tech.
- The labs were a great experience but sometimes my learning was hindered by the lab having errors in the premade code. I do believe that still the labs were extremely valuable to the course teachings.
- Well the TA's were incredibly helpful and helped me through plenty of problems.

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	7.14%			5.29	5.08	4.83	Question	College	Department	STD	Median
Disagree	(2)	0	0.00%										
Somewhat disagree	(3)	0	0.00%										
Somewhat agree	(4)	0	0.00%										
Agree	(5)	5	35.71%										
Strongly agree	(6)	8	57.14%										
Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median		
14/25 (56.00%)	5.29	1.33	6.00	19815	5.08	1.14	5.00	2077	4.83	1.32	5.00		

Course: ME_4584_91119_202109: Robotics Laboratory-ME_4584_91119_202109
Instructor: Dylan Patrick Losey *
Response Rate: 16/25 (64.00 %)

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	7.14%										
Disagree	(2)	0	0.00%										
Somewhat disagree	(3)	0	0.00%										
Somewhat agree	(4)	0	0.00%										
Agree	(5)	5	35.71%										
Strongly agree	(6)	8	57.14%										
					0	25	50	100	Question	College	Department		
Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median		
14/25 (56.00%)	5.29	1.33	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	3/25 (12%)
<ul style="list-style-type: none"> • Show up to labs a little earlier. • Worked on homework prior to lab to get a better understanding of the topic on the lab • Reviewed the material more before the lab. 	

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

Dylan Patrick Losey	
Response Rate	0/25 (0%)

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)	1	7.14%										
Poor	(3)	0	0.00%										
Fair	(4)	3	21.43%										
Good	(5)	8	57.14%										
Very Good	(6)	2	14.29%										
					0	25	50	100	Question	College	Department		
Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median		
14/25 (56.00%)	4.71	0.99	5.00	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	5/25 (20%)
<ul style="list-style-type: none"> • Little crowded and not enough laptops as more could have been used with smaller teams. • Very crowded space • This lab could really benefit from some better computers. They were very slow and made the lab take longer. • Awesome to finally be able to do an in-person lab at Tech. • The room space is too small for such plenty of students, most students do not have a place to sit during the process of experiments 	

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

Course: ME_4584_91119_202109: Robotics Laboratory-ME_4584_91119_202109
 Instructor: Dylan Patrick Losey *
 Response Rate: 16/25 (64.00 %)

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)	1	7.14%																									
Disagree	(2)	0	0.00%																									
Somewhat disagree	(3)	0	0.00%																									
Somewhat agree	(4)	0	0.00%																									
Agree	(5)	7	50.00%																									
Strongly agree	(6)	6	42.86%																									
<table border="1"> <thead> <tr> <th>Response Rate</th> <th>Mean</th> <th>STD</th> <th>Median</th> <th>College</th> <th>Mean</th> <th>STD</th> <th>Median</th> <th>Department</th> <th>Mean</th> <th>STD</th> <th>Median</th> </tr> </thead> <tbody> <tr> <td>14/25 (56.00%)</td> <td>5.14</td> <td>1.29</td> <td>5.00</td> <td>19758</td> <td>5.03</td> <td>1.10</td> <td>5.00</td> <td>2079</td> <td>4.83</td> <td>1.26</td> <td>5.00</td> </tr> </tbody> </table>					Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median	14/25 (56.00%)	5.14	1.29	5.00	19758	5.03	1.10	5.00	2079	4.83	1.26	5.00
Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median																	
14/25 (56.00%)	5.14	1.29	5.00	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)	1	7.14%																									
Disagree	(2)	0	0.00%																									
Somewhat disagree	(3)	2	14.29%																									
Somewhat agree	(4)	3	21.43%																									
Agree	(5)	6	42.86%																									
Strongly agree	(6)	2	14.29%																									
<table border="1"> <thead> <tr> <th>Response Rate</th> <th>Mean</th> <th>STD</th> <th>Median</th> <th>College</th> <th>Mean</th> <th>STD</th> <th>Median</th> <th>Department</th> <th>Mean</th> <th>STD</th> <th>Median</th> </tr> </thead> <tbody> <tr> <td>14/25 (56.00%)</td> <td>4.36</td> <td>1.34</td> <td>5.00</td> <td>19631</td> <td>4.54</td> <td>1.44</td> <td>5.00</td> <td>2073</td> <td>4.32</td> <td>1.53</td> <td>5.00</td> </tr> </tbody> </table>					Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median	14/25 (56.00%)	4.36	1.34	5.00	19631	4.54	1.44	5.00	2073	4.32	1.53	5.00
Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median																	
14/25 (56.00%)	4.36	1.34	5.00	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%																									
Disagree	(2)	0	0.00%																									
Somewhat disagree	(3)	0	0.00%																									
Somewhat agree	(4)	0	0.00%																									
Agree	(5)	9	69.23%																									
Strongly agree	(6)	4	30.77%																									
<table border="1"> <thead> <tr> <th>Response Rate</th> <th>Mean</th> <th>STD</th> <th>Median</th> <th>College</th> <th>Mean</th> <th>STD</th> <th>Median</th> <th>Department</th> <th>Mean</th> <th>STD</th> <th>Median</th> </tr> </thead> <tbody> <tr> <td>13/25 (52.00%)</td> <td>5.31</td> <td>0.48</td> <td>5.00</td> <td>19709</td> <td>5.05</td> <td>1.16</td> <td>5.00</td> <td>2075</td> <td>4.75</td> <td>1.41</td> <td>5.00</td> </tr> </tbody> </table>					Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median	13/25 (52.00%)	5.31	0.48	5.00	19709	5.05	1.16	5.00	2075	4.75	1.41	5.00
Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median																	
13/25 (52.00%)	5.31	0.48	5.00	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%																									
Disagree	(2)	0	0.00%																									
Somewhat disagree	(3)	0	0.00%																									
Somewhat agree	(4)	0	0.00%																									
Agree	(5)	7	53.85%																									
Strongly agree	(6)	6	46.15%																									
<table border="1"> <thead> <tr> <th>Response Rate</th> <th>Mean</th> <th>STD</th> <th>Median</th> <th>College</th> <th>Mean</th> <th>STD</th> <th>Median</th> <th>Department</th> <th>Mean</th> <th>STD</th> <th>Median</th> </tr> </thead> <tbody> <tr> <td>13/25 (52.00%)</td> <td>5.46</td> <td>0.52</td> <td>5.00</td> <td>19564</td> <td>4.97</td> <td>1.23</td> <td>5.00</td> <td>2060</td> <td>4.73</td> <td>1.41</td> <td>5.00</td> </tr> </tbody> </table>					Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median	13/25 (52.00%)	5.46	0.52	5.00	19564	4.97	1.23	5.00	2060	4.73	1.41	5.00
Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median																	
13/25 (52.00%)	5.46	0.52	5.00	19564	4.97	1.23	5.00	2060	4.73	1.41	5.00																	

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

Course: ME_4584_91119_202109: Robotics Laboratory-ME_4584_91119_202109
 Instructor: Dylan Patrick Losey *
 Response Rate: 16/25 (64.00 %)

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)	1	7.69%	█								
Somewhat disagree	(3)	0	0.00%									
Somewhat agree	(4)	0	0.00%									
Agree	(5)	4	30.77%	██								
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	
13/25 (52.00%)	5.38	1.12	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%									
Fair	(2)	1	7.69%	█								
Good	(3)	3	23.08%	██								
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	
13/25 (52.00%)	3.62	0.65	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%									
Fair	(2)	1	7.69%	█								
Good	(3)	6	46.15%	████								
Excellent	(4)	6	46.15%	████								
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	
13/25 (52.00%)	3.38	0.65	3.00	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)	2	15.38%	██								
Fair	(2)	4	30.77%	████								
Good	(3)	3	23.08%	███								
Excellent	(4)	4	30.77%	████								
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	
13/25 (52.00%)	2.69	1.11	3.00	22	2.95	1.00	3.00	22	2.95	1.00	3.00	