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

Course: ME_4584_87341_202209: Robotics Laboratory-ME_4584_87341_202209
Instructor: Dylan Patrick Losey *
Response Rate: 13/25 (52.00 %)

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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%		
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%		Question 5.69 College 5.25 Department 5.11

Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median
13/25 (52.00%)	5.69	0.48	6.00	24710	5.25	1.06	6.00	2402	5.11	1.16	5.00

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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)	0	0.00%		
Agree	(5)	3	23.08%		
Strongly agree	(6)	10	76.92%		Question 5.77 College 5.07 Department 4.84

Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median
13/25 (52.00%)	5.77	0.44	6.00	24533	5.07	1.20	5.00	2388	4.84	1.38	5.00

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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)	0	0.00%		
Somewhat agree	(4)	0	0.00%		
Agree	(5)	3	23.08%		
Strongly agree	(6)	10	76.92%		Question 5.77 College 5.01 Department 4.74

Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median
13/25 (52.00%)	5.77	0.44	6.00	24526	5.01	1.25	5.00	2385	4.74	1.40	5.00

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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
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)	3	23.08%
Strongly agree	(6)	10	76.92%

Percent Responses: 0 25 50 100
Means: Question 5.77, College 5.36, Department 5.18

Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median
13/25 (52.00%)	5.77	0.44	6.00	24481	5.36	1.00	6.00	2383	5.18	1.13	6.00

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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
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)	3	23.08%
Strongly agree	(6)	10	76.92%

Percent Responses: 0 25 50 100
Means: Question 5.77, College 5.05, Department 4.81

Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median
13/25 (52.00%)	5.77	0.44	6.00	24389	5.05	1.24	5.00	2372	4.81	1.41	5.00

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

Dylan Patrick Losey

Response Rate	10/25 (40%)

- as we learned material in class, we were then able to apply it in lab which bettered my understanding with classwork and homework
- The labs were so much fun and were always a joy to go to.
- He made the labs very hands on and interactive to show the concepts discussed in the course being put into practical use. It helped clarify and focus what we learned.
- The TAs are very nice and willing to answer any questions
- The labs were really cool. Loved being able to apply theory. Had some conceptual questions in there too which made you think creatively.
- The lab manuals were clear and often fun.
- Labs were directly related to what we were learning in class
- The lab itself
- Connected Lessons to Labs and provided extra time to keep the class and lab together
- asked more questions

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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)	0	0.00%		
Disagree	(2)	0	0.00%		
Somewhat disagree	(3)	0	0.00%		5.77 (Question)
Somewhat agree	(4)	0	0.00%		5.14 (College)
Agree	(5)	3	23.08%		4.99 (Department)
Strongly agree	(6)	10	76.92%		

Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median
13/25 (52.00%)	5.77	0.44	6.00	21442	5.14	1.08	5.00	2066	4.99	1.19	5.00

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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%		5.77 (Question)
Somewhat agree	(4)	0	0.00%		4.90 (College)
Agree	(5)	3	23.08%		4.72 (Department)
Strongly agree	(6)	10	76.92%		

Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median
13/25 (52.00%)	5.77	0.44	6.00	21326	4.90	1.31	5.00	2057	4.72	1.41	5.00

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

Response Rate	9/25 (36%)

• N/A

• Read through the lab documents prior to each lab rather than jumping in blind at the start of the lab.

• Prepared more before hand for some of the labs

• Prepare more for some of the labs.

• There was one lab that I missed. I missed about 60% of it, and decided not to attend at all. To be a better learner, I could have tried to do as much of it as possible.

• N/A

• Start the lab ahead of time

• Prepared for the labs beforehand

• asked more questions

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

Dylan Patrick Losey
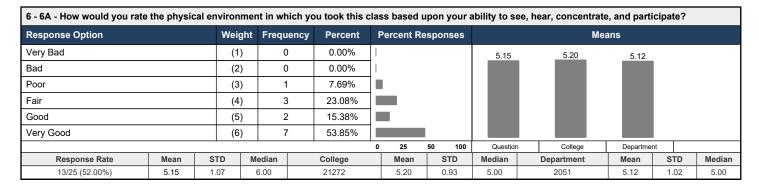
Response Rate	4/25 (16%)

• N/A

• The labs were a little difficult at times and if you didn't come early (some people came in 1.5-2 hrs before class time) you would likely not have enough time and miss class.

• N/A

• cool guy

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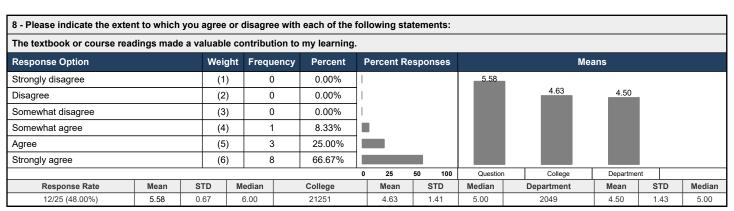**Instructor:** Dylan Patrick Losey *
Response Rate: 13/25 (52.00 %)

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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%		
Bad	(2)	0	0.00%		5.15 / 5.20 / 5.12
Poor	(3)	1	7.69%		
Fair	(4)	3	23.08%		
Good	(5)	2	15.38%		
Very Good	(6)	7	53.85%		

| | | | | Question | College | Department |

Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median
13/25 (52.00%)	5.15	1.07	6.00	21272	5.20	0.93	5.00	2051	5.12	1.02	5.00

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

Response Rate	7/25 (28%)

• N/A

• The lab room was very crowded, with groups of five or more sometimes forming around an individual robot to complete the work in the allotted time period. It would have been nice to have been able to space out and have a little more room to work.

• Pretty cramped and hard to not get in someone's way

• Crammed. Laptop issues. But overall still doable.

• The room felt cramped and uncomfortable. Also, it was somewhat loud.
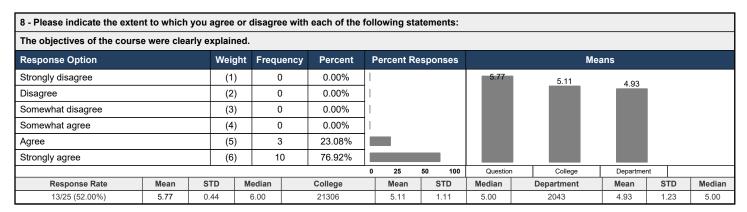
• It's Randolph...

• cool place

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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%		5.77 / 5.08 / 5.02
Somewhat disagree	(3)	0	0.00%		
Somewhat agree	(4)	0	0.00%		
Agree	(5)	3	23.08%		
Strongly agree	(6)	10	76.92%		

| | | | | Question | College | Department |

Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median
13/25 (52.00%)	5.77	0.44	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)	0	0.00%		5.58 / 4.63 / 4.50
Somewhat disagree	(3)	0	0.00%		
Somewhat agree	(4)	1	8.33%		
Agree	(5)	3	25.00%		
Strongly agree	(6)	8	66.67%		

| | | | | Question | College | Department |

Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median
12/25 (48.00%)	5.58	0.67	6.00	21251	4.63	1.41	5.00	2049	4.50	1.43	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%		5.77 / 5.11 / 4.93
Disagree	(2)	0	0.00%		
Somewhat disagree	(3)	0	0.00%		
Somewhat agree	(4)	0	0.00%		
Agree	(5)	3	23.08%		
Strongly agree	(6)	10	76.92%		

Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median
13/25 (52.00%)	5.77	0.44	6.00	21306	5.11	1.11	5.00	2043	4.93	1.23	5.00

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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%		5.83 / 5.03 / 4.84
Disagree	(2)	0	0.00%		
Somewhat disagree	(3)	0	0.00%		
Somewhat agree	(4)	0	0.00%		
Agree	(5)	2	16.67%		
Strongly agree	(6)	10	83.33%		

Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median
12/25 (48.00%)	5.83	0.39	6.00	21178	5.03	1.18	5.00	2039	4.84	1.30	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%		5.54 / 5.25 / 5.12
Disagree	(2)	0	0.00%		
Somewhat disagree	(3)	1	7.69%		
Somewhat agree	(4)	0	0.00%		
Agree	(5)	3	23.08%		
Strongly agree	(6)	9	69.23%		

Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median
13/25 (52.00%)	5.54	0.88	6.00	24126	5.25	1.01	6.00	2346	5.12	1.14	5.00

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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%		3.92 / 3.79 / 3.79
Fair	(2)	0	0.00%		
Good	(3)	1	7.69%		
Excellent	(4)	12	92.31%		
N/A	(0)	0	0.00%		

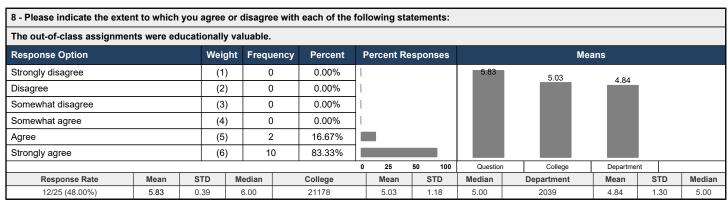| Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median
13/25 (52.00%)	3.92	0.28	4.00	39	3.79	0.41	4.00	39	3.79	0.41	4.00

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Response Rate: 13/25 (52.00 %)

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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)	3	23.08%		
Excellent	(4)	10	76.92%		
N/A	(0)	0	0.00%		

					Question			College			Department		
Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median
13/25 (52.00%)	3.77	0.44	4.00	39	3.71	0.46	4.00	39	3.71	0.46	4.00

Means: Question 3.77, College 3.71, Department 3.71

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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)	1	7.69%		
Good	(3)	2	15.38%		
Excellent	(4)	10	76.92%		
N/A	(0)	0	0.00%		

Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median
13/25 (52.00%)	3.69	0.63	4.00	39	3.63	0.59	4.00	39	3.63	0.59	4.00

Means: Question 3.69, College 3.63, Department 3.63