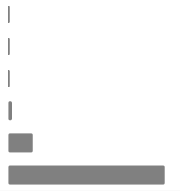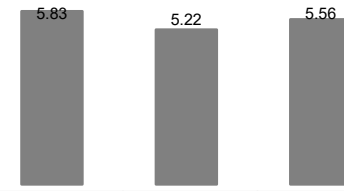# Virginia Tech
Fall 2020 VT Student Perceptions of Teaching (SPOT)

Course: ENGE_1215_84278_202009: (84278) Foundations of Engineering-ENGE_1215_84282_202009
Instructor: David Gray *
Response Rate: 54/65 (83.08 %)

---

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

1A - The instructor was well prepared.

David Gray

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	1.89%		
Agree	(5)	7	13.21%		
Strongly agree	(6)	45	84.91%		5.83 5.22 5.56

Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median
53/65 (81.54%)	5.83	0.43	6.00	25393	5.22	1.02	5.00	2253	5.56	0.69	6.00

---

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

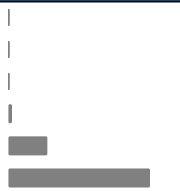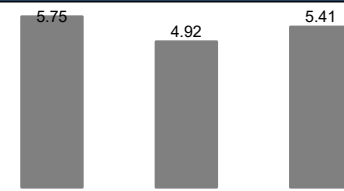**1B - The instructor presented the subject matter clearly.**

David Gray

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	17.31%		
Strongly agree	(6)	43	82.69%		5.83 5.03 5.44

Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median
52/65 (80.00%)	5.83	0.38	6.00	25245	5.03	1.17	5.00	2245	5.44	0.85	6.00

---

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.

David Gray

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	1.92%		
Agree	(5)	11	21.15%		
Strongly agree	(6)	40	76.92%		5.75 4.92 5.41

Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median
52/65 (80.00%)	5.75	0.48	6.00	25255	4.92	1.26	5.00	2248	5.41	0.89	6.00

Course:	ENGE_1215_84278_202009: (84278) Foundations of Engineering-ENGE_1215_84282_202009
Instructor:	David Gray *
Response Rate:	54/65 (83.08 %)

---

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.

David Gray

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	5.77%		
Strongly agree	(6)	49	94.23%		

Means: Question 5.94, College 5.29, Department 5.66

Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median
52/65 (80.00%)	5.94	0.24	6.00	25216	5.29	1.02	6.00	2239	5.66	0.64	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.

David Gray

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)	6	11.54%		
Strongly agree	(6)	46	88.46%		

Means: Question 5.88, College 4.99, Department 5.41

Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median
52/65 (80.00%)	5.88	0.32	6.00	25112	4.99	1.22	5.00	2232	5.41	0.90	6.00

Course: ENGE_1215_84278_202009: (84278) Foundations of Engineering-ENGE_1215_84282_202009

Instructor: David Gray *

Response Rate: 54/65 (83.08 %)

---

2 - 2A - What did the instructor do that most helped in your learning?	
David Gray	
Response Rate	44/65 (67.69%)

• Kept lectures interesting and engaging. Was always in a good mood and brought lots of energy to every lecture.

• He responded to questions quickly, even when they were often-times inane. He explained things well and was willing to work on things in big assignments due to, I would say, an understanding different approaches can work, rather than holding stead-fast to "you have to do it how it says to do it." Which I found to be really helpful and understanding.

• The meeting were the most helpful

• Professor Gray was my favorite teacher this semester. He engaged the class, and made online learning actually interesting.

• He took the time to thoroughly explain everything and answer all questions.

• He provided google docs that clearly explained our assignments and provided templates to show us how to complete them.

• The instructor gave us clear instructions on the assignments and explains how we need to complete them.

• His content and assignments were thoroughly explained and easy to follow along.

• He made class fun and enjoyable, I think that the team-oriented work also helped.

• Dr. Gray did many things to improve my learning in regards to this course, however, I found his synchronous classes and office hours to be the most helpful.

• The instructor had a lot of fun activities which helped understand the topic.

• He made the class enjoyable and entertaining. Having a comfortable class atmosphere really helps the students learn and care about learning.

• Ease into the class with a few minutes of reflection on last class.

• He made the class very engaging, even for an online environment

• He explained each assignment and task thoroughly on google docs so there was no confusion on what needed to be done.

• The instructor regularly used group assignments that allowed me to communicate with other classmates in the zoom calls.

• Made topics as fun and interesting as possible.

• Each assignment had clear details about the assignment and its relation to our learning. The instructor was humorous and made the class more enjoyable. The instructor made the content fun and applicable

• He made sure to reserve a period of time, most classes, to talk about something related to real world engineering or real life scenarios.

• He truly seemed to care about his students, and if he had a concern he would reach out to you about it. Also, he was always available for help when needed.

• Dr. Gray did an amazing job this semester, I genuinely found this class to be my favorite as it was highly educational as well as fun. I was scared coming into the class that it was mostly going to be mechanical engineering content and I was going to have a really hard time as a CS major, but it was very general towards all majors and actually mostly pointed towards CS majors in my opinion. Overall, this class amazing and Dr. Gray did an amazing job educating us everyday along with picking great TAs that did their job just as well as he did and made the lessons fun as well. Super excited to take ENGE 1216 with him, his learning style was right up my alley.

• giving us breaks from lectures like break out rooms, coggles, GTA lectures. Keeping all assignments in one place (google docs). Making us keep up with a weekly planner to be organized. Providing detailed templates, instructions, and rubrics to help us succeed.

• His good attitude kept my attention the entire class time as well as making certain concepts easy to understand.

• Dr. Gray presented the material in a humorous and friendly way that made this class exciting.

• Dr. Gray made the the class interesting. He made it easy to pay attention. I also appreciated how he always went over what the previous class looked like and often mentioned what future classes would look like.

• LOVE THIS MAN

• Dr. Gray presented material in a clear and engaging way and made virtual classes interesting. He made class fun and was very helpful with the completion of assignments.

• Dr. Gray made class enjoyable, so I was engaged and motivated to do my work every day.

• project based learning, revolving around team work

• He helped relate real-world engineering problems to the topics being studied.

• Professor Gray personally helped me with any questions I brought up beyond what is expected. He gave me, and the class, examples to further help our understanding.

• Helped keep me engaged in long lessons by dividing them into multiple interesting segments with jokes in between to bring students to his attention. Dr Gray also provided a good background of our assignments.

• The numerous team exercises helped take pressure off while still allowing us to do meaningful work.

• The more relaxed classes really made the class easier to pay attention and more enjoyable.

• the presentation slides

• Gave great lectures and helped out students a ton with assignments.

• Dr. Gray was always very open and was very interested in the well being of the class. He would keep the mood light and provide a fun experience while teaching us about material that would otherwise have been boring. He kept the class involved and would really work to develop a strong bond with his students. He was always available during office hours and would make time to help any students if they needed.

• He made learning about the various forms of engineering enjoyable by giving real-world examples of projects done by each form of engineering. The projects that we were doing were also interesting and informative.

• He pushed us to always consider how different engineers could contribute to a problem and it helped me to have a better idea of which major I want

• Kept the class light-hearted yet informative, making it easy to listen without worries or stress.

• He kept classes interesting and fun which helped me stay engaged.

• Was very engaging, did something short at the beginning of class that helped me stay engaged.

Course:	ENGE_1215_84278_202009: (84278) Foundations of Engineering-ENGE_1215_84282_202009
Instructor:	David Gray *
Response Rate:	54/65 (83.08 %)

• The assignment outlines were always detailed and specific. They included an above and beyond section that often demonstrated the significance of the assignment and how it may be applied in the real world. The weekly communications also allowed me to review what was done in the previous week and plan for the current week. Dr. Gray's "Engineeringness" lessons also allowed me to see how some engineering concepts are applied to different industries.

• The professor made the lectures engaging and fun.

Course: ENGE_1215_84278_202009: (84278) Foundations of Engineering-ENGE_1215_84282_202009
Instructor: David Gray *
Response Rate: 54/65 (83.08 %)

---

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
Strongly disagree	(1)	0	0.00%
Disagree	(2)	0	0.00%
Somewhat disagree	(3)	0	0.00%
Somewhat agree	(4)	1	1.92%
Agree	(5)	17	32.69%
Strongly agree	(6)	34	65.38%

Means: Question 5.63, College 5.10, Department 5.26

Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median
52/65 (80.00%)	5.63	0.53	6.00	20050	5.10	1.06	5.00	2049	5.26	0.90	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
Strongly disagree	(1)	0	0.00%
Disagree	(2)	0	0.00%
Somewhat disagree	(3)	2	3.92%
Somewhat agree	(4)	1	1.96%
Agree	(5)	18	35.29%
Strongly agree	(6)	30	58.82%

Means: Question 5.49, College 4.84, Department 5.09

Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median
51/65 (78.46%)	5.49	0.73	6.00	19933	4.84	1.31	5.00	2032	5.09	1.09	5.00

Course: ENGE_1215_84278_202009: (84278) Foundations of Engineering-ENGE_1215_84282_202009

Instructor: David Gray *

Response Rate: 54/65 (83.08 %)

4 - 4A - What could you have done to be a better learner?	
Response Rate	41/65 (63.08%)

- Read some of the rubrics that were provided more carefully
- I think I did ok learning wise, the only thing I can say would've improved my scores were looking at the rubric more often
- I could have attended more office hours
- I could have spent more time completing group assignments with my group.
- Be more engaged in the class.
- I feel like I could have spent more time thinking about our assignments in different ways. It would have helped me think more like an engineer.
- I could have spent more time on the assignments to get a better grade
- n/a
- I think I could have participated more.
- I could've worked more as a team leader within my group and should've assumed somebody else will achieve that role.
- I could have practiced some things more
- Spent more time on the projects.
- Nothing
- i could have tried to pay better attention or taken notes. Sometimes I would find myself zoning out
- I zoned out sometimes in class when so I could have paid more attention
- I would have I wrote down notes when he discussed different majors and benefits of them.
- nothing
- N/A
- Paid more attention during class.
- I probably could have not waited until the last minute for everything.
- I could have been a better learner by talking more in the class and answering more questions I think, I am just kind of a quiet person in general towards people I don't know, but overall not much.
- Payed more attention to lectures, participated more in break out rooms, carefully read the rubric and make adjustments based off of it, get more people to peer review my work to make it better
- Participated more in class
- Participating more in class and in discussions.
- I could have dedicated more time to this class. It is difficult to balance time between classes.
- Nothing to be quite honest.
- I could have went over my work prior to submitting it.
- I could have turned my camera on more to force myself to pay attention during every class.
- following the weekly plans may have helped
- I could have done more research on the topics.
- I struggled with attention in the module that incorporated MatLab. I should have taken more notes and payed more attention to the lectures pertaining to the usage of terms in MatLab.
- Spent more time working
- Better research for papers
- Take more time on assignments instead of rushing to get them done
- I could have been more proactive when doing my work and procrastinate much less
- I could have stopped by office hours more often.
- Certain days I should have paid more attention before starting an assignment. The assignment prompt documents fortunately helped me find out what to do, but I still should have listened more beforehand.
- I could have done a better job working with my team members, but this is minor.
- Take notes
- To be a better learner I could have sought out more applications for some of the tools that we learned in class.
- I could've procrastinated less.

Virginia Tech
Fall 2020 VT Student Perceptions of Teaching (SPOT)

Course: ENGE_1215_84278_202009: (84278) Foundations of Engineering-ENGE_1215_84282_202009
Instructor: David Gray *
Response Rate: 54/65 (83.08 %)

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

David Gray

Response Rate	35/65 (53.85%)

- none
- Dr. Reverend Gray is one of your best professors, I'm only a freshman, but I feel like this is going to hold true for my future years at VT, take care of him
- I really like how you group us up, it taught me a lot of things
- Stephen grades hard :(
- Best teacher I had this year.
- none
- The instructor has really helped me stay on top of my work and even helped us create our first weekly schedules which are very helpful.
- Dr. Gray is the best professor I have had this semester! He definitely wants to engage with his students even though the class is virtual. The course was very enjoyable.
- I liked the class.
- Thank you for teaching this course in a perfect & engaging way especially during these difficult times.
- Favorite teacher this semester and I hope to get him next semester.
- Really cares about this subject. He made this course enjoyable and understandable as to why it is useful to our careers.
- Very good professor, I think my favorite of the semester. Made class entertaining with jokes and interaction with the class.
- He was a very respectful teacher that connected well with the class.
- great job
- My team was good and did their work however my friend said their group had several members who did not contribute much and consistently evaluated their group members poorly during the peer evaluation, but no changes were made to the group by you. The TA'S graded pretty harshly and for most assignments the ACTUAL rubric was not posted, only a vague one. Then when our assignments get graded there is a specific rubric attached. Having the actual rubric would help. Overall the course was interesting and enjoyable and I am glad you were my instructor for ENGE 1215.
- I think the teachers should coordinate better with the other engineering teachers because some of my friends were either really behind me or did things in reverse.
- Definitely my favorite instructor.
- Thank you making this course genuinely enjoyable and educationally stimulating at the same time. I don't think I could have recommended more of the engineers that I know to take your course next semester, because I loved going to class everyday and listening to moon facts and then jumping into really cool engineering stuff. Overall, I found everything about this class to be great, my only problem was probably the big data project, so if you have to change anything that would be it, because I know you didn't want the Cs majors to do all of the coding for their group, but I know for my group the two CS majors and one other did all of the coding and math while everyone worked on the report. I think I looked at the report on the last day for the first time probably three hours before it was due and was too tired to really change anything. Overall, though nothing else should be changed with this course because it is amazing!!! And keep Karen and Stephen for as long as possible they are amazing TAs!
- I would recommend Dr. Gray to my friends and I appreciated the respect he had for his students.
- Great Prof, wouldnt have wanted anyone else for the transition from high school to college.
- Dr. Gray was the best professor I had this semester and did an amazing job with the online learning and making class exciting and fun.
- mustache undefeated
- Overall, I thought Dr.Gray was a great instructor for the course.
- This has been my favorite class I have taken in my college and high school experience. I absolutely love the professor and the course. Professor Gray made the material fun, interesting, and enjoyable. I looked forward to class every single Tuesday and Thursday.
- Dr. Gray is a great professor.
- Dr. Gray was clear about subject material, kind, and helpful. The TA's, Karen and Stephen, were also great.
- Dr. Gray showed that he genuinely wanted us to succeed in the future, and expressed that he wants to try his best to help us out.
- Dr. Gray is by far my favorite teacher this semester. He is very funny, gives really good advice, and is a great teacher. Very nice stache.
- I have made certain that I will be in Dr. Gray's ENGE 1216 class next semester.
- Great professor who kept class interesting while still teaching effectively
- It was a great course, overall no big complaints.
- Coolest guy here. Very fun, interesting, and educational classes!
- Dr. Gray's class was always a good balance between having fun and learning important concepts. I genuinely looked forward to his class every week.
- He is engaging and respectable.

Course:	ENGE_1215_84278_202009: (84278) Foundations of Engineering-ENGE_1215_84282_202009
Instructor:	David Gray *
Response Rate:	54/65 (83.08 %)

---

6 - 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%		5.48
Disagree	(2)	0	0.00%		5.03
Somewhat disagree	(3)	1	1.92%		5.18
Somewhat agree	(4)	2	3.85%		
Agree	(5)	20	38.46%		
Strongly agree	(6)	29	55.77%		

Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median
52/65 (80.00%)	5.48	0.67	6.00	20019	5.03	1.05	5.00	2055	5.18	0.98	5.00

---

6 - 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%		4.51
Disagree	(2)	2	3.92%		4.54
Somewhat disagree	(3)	7	13.73%		4.55
Somewhat agree	(4)	15	29.41%		
Agree	(5)	17	33.33%		
Strongly agree	(6)	10	19.61%		

Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median
51/65 (78.46%)	4.51	1.08	5.00	19865	4.54	1.41	5.00	2034	4.55	1.37	5.00

---

6 - 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%		5.58
Disagree	(2)	0	0.00%		5.08
Somewhat disagree	(3)	0	0.00%		5.33
Somewhat agree	(4)	2	3.85%		
Agree	(5)	18	34.62%		
Strongly agree	(6)	32	61.54%		

Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median
52/65 (80.00%)	5.58	0.57	6.00	19940	5.08	1.08	5.00	2041	5.33	0.86	6.00

---

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

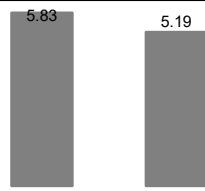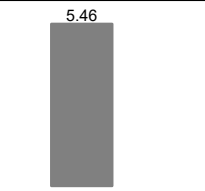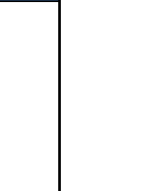**The out-of-class assignments were educationally valuable.**

Response Option	Weight	Frequency	Percent	Percent Responses	Means
Strongly disagree	(1)	0	0.00%		5.37
Disagree	(2)	0	0.00%		5.01
Somewhat disagree	(3)	0	0.00%		5.14
Somewhat agree	(4)	5	9.62%		
Agree	(5)	23	44.23%		
Strongly agree	(6)	24	46.15%		

Response Rate	Mean	STD	Median	College	Mean	STD	Median	Department	Mean	STD	Median
52/65 (80.00%)	5.37	0.66	5.00	19799	5.01	1.15	5.00	2036	5.14	1.03	5.00

Virginia Tech
Fall 2020 VT Student Perceptions of Teaching (SPOT)

Course: ENGE_1215_84278_202009: (84278) Foundations of Engineering-ENGE_1215_84282_202009
Instructor: David Gray *
Response Rate: 54/65 (83.08 %)

7 - The instructor related theories and concepts to practical issues.											
David Gray											
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	17.31%								
Strongly agree	(6)	43	82.69%								

Response Rate	**Mean**	**STD**	**Median**	**College**	**Mean**	**STD**	**Median**	**Department**	**Mean**	**STD**	**Median**
52/65 (80.00%)	5.83	0.38	6.00	24854	5.19	1.02	5.00	2240	5.46	0.76	6.00

Means bar chart: Question 5.83, College 5.19, Department 5.46