

MATERIALS IN NEUROTECHNOLOGY (2018-2019 Autumn)

Term: **2018-2019 Autumn**
 Subject: **MATSCI**
 Catalog & Section: **384 1**
 Course Title: **MATERIALS IN NEUROTECHNOLOGY**

Instructor: **Hong, Guosong**
 Enrollment: **22**
 Responses Incl Declines: **15**
 Declines: **0**

Learning Goals

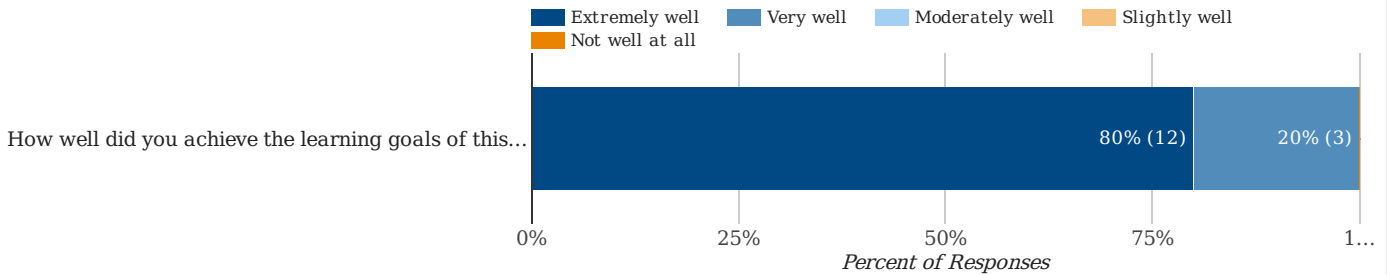
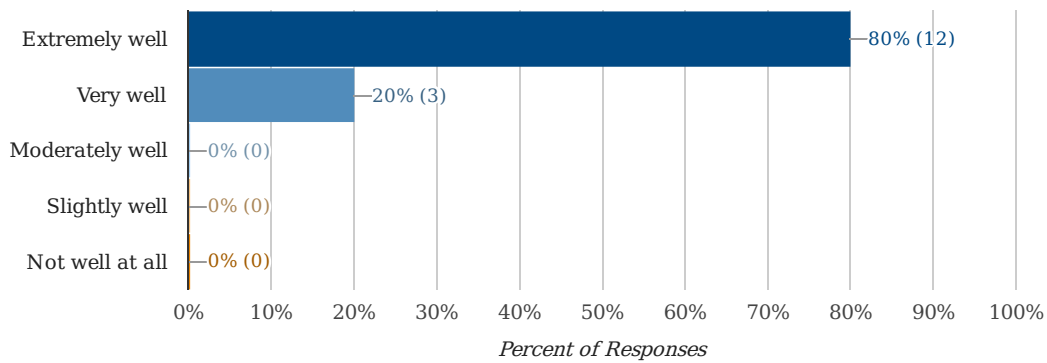
We want your feedback about your experience using the course evaluation system and reporting. To provide your feedback, please click [HERE \(https://stanforduniversity.qualtrics.com/jfe/form/SV_9WxxjNycVY9uOj3\)](https://stanforduniversity.qualtrics.com/jfe/form/SV_9WxxjNycVY9uOj3) to answer one question.

Students are most likely to say their learning goals have been met when

- The goals are clearly articulated in the syllabus and/or directly to students
- There's a clear connection between the goals and the exams, quizzes, and/or assignments in the class
- Students have adequate practice doing work that is relevant to the goals

For information on writing effective learning goals, please see Writing Learning Goals (<https://vptl.stanford.edu/teaching-learning/teaching-practices/evaluation/stanfords-new-course-evaluations/writing-learning>).

How well did you achieve the learning goals of this course?



Question	Number of Responses	Response Rate	Course Mean	Course Median	STDEV	5	4	3	2	1
How well did you achieve the learning goals of this course?	15	68%	4.8	5	0.4	80%	20%	0%	0%	0%

Note: 5:Extremely well; 4:Very well; 3:Moderately well; 2:Slightly well; 1:Not well at all;

Attendance and Engagement

How much did you learn from this course? 15 68% 5.0 5 0.0 100% 0% 0% 0% 0%

Note: 5:A great deal; 4:A lot; 3:A moderate amount; 2:A little; 1:Nothing;

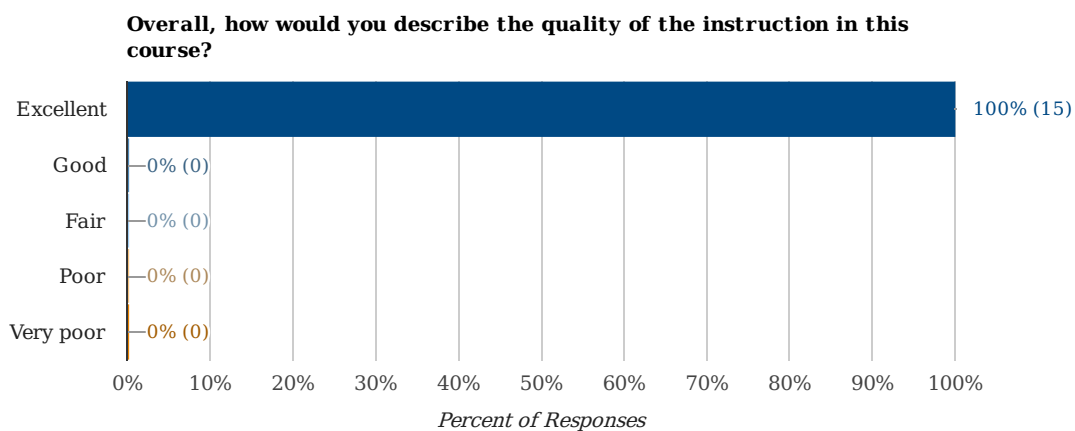
(13 comments)

Q: What skills or knowledge did you learn or improve?

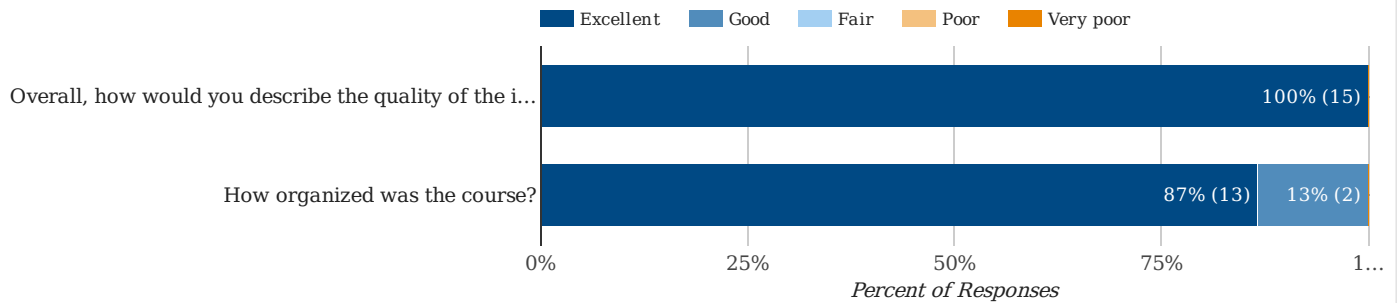
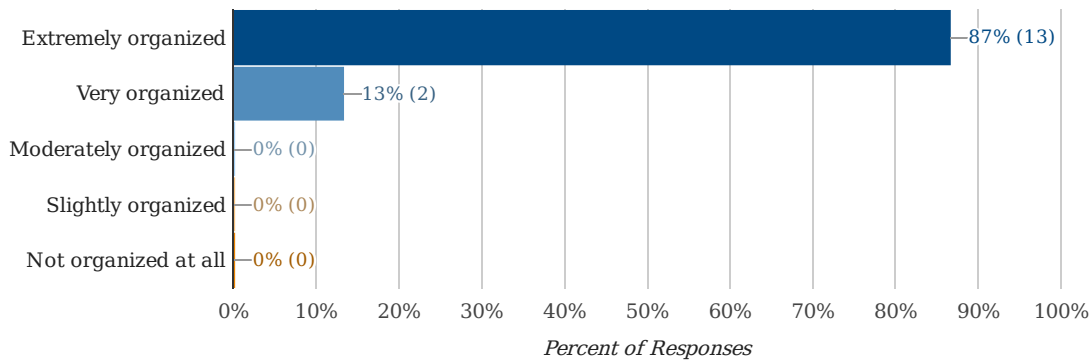
- 1 A great deal about the bridge between neuroscience and materials science which for me up to this point has been a very unknown field. As well as research skills, presentation skills, and also listening skills.
- 2 I learned the ways in which the materials science realm intersects with neuroscience.
- 3 Huge amount of neuroscience knowledge and critical thinking through various references.
- 4 I learned about all the different techniques for studying and stimulating neural activity.
- 5 Great overview of the whole field
- 6 Up-to-date research in neuroscience and materials science
- 7 Holistic view of neuroscience. Detail understanding of all neuron techniques. Ability to read related paper by myself. The link and comparison between different neuron tech. New research ideas.
- 8 I learned SO much about neurotechnology and how materials impact the field in this class - the amount of information I got out of this class is truly unparalleled in other courses at Stanford.
- 9 Great overview of the current technologies and history of neuroscience
- 10 Learn a lot about current techniques in the research of neuroscience and neurotechnology from a material point of view.
- 11 Knowledge and understanding of current neurotechnologies and different pathways to innovation in this space.
- 12 I gained a great deal on knowledge about the functioning of the brain and how researchers currently employ technology and techniques to probe the brain
- 13 The basic knowledge about neuroscience and neurotechnologies. And also the recent development of materials for neuroscience such as the electrical, optical, magnetic and acoustic methods in stimulating and recording neuron behaviors.

Instruction and Organization

For information about effective teaching in a variety of contexts, please see Teaching Strategies (<https://teachingcommons.stanford.edu/resources/teaching-resources/teaching-strategies>).



How organized was the course?



Question	Number of Responses	Response Rate	Course Mean	Course Median	STDEV	5	4	3	2	1
Overall, how would you describe the quality of the instruction in this course?	15	68%	5.0	5	0.0	100%	0%	0%	0%	0%
How organized was the course?	15	68%	4.9	5	0.3	87%	13%	0%	0%	0%

Note: 5:Excellent; 4:Good; 3:Fair; 2:Poor; 1:Very poor;

Course Elements

No Data.

Additional Student Comments

Answers to this question will be viewable by the Stanford student community four weeks after the release of reports to instructors. If you have a question about a comment, please review the guidelines under "Questions or concerns?" at <http://evals.stanford.edu/results/respond-feedback> (<http://evals.stanford.edu/results/respond-feedback>) and write to VPTLevaluations@stanford.edu (<mailto:vptlevaluations@stanford.edu>).

(14 comments)

Q: What would you like to say about this course to a student who is considering taking it in the future?

1 Great course that provides a very good survey of neurotech

- 2 Take it! I would encourage the student to have a bit of prior knowledge about neuroscience as the introduction was rushed a bit, and kind of laid the foundation for the entire course. Besides that I would encourage the student to ask questions during the class.
- 3 Guosong is awesome!
- 4 It's worth taking if you want to explore more about neuroscience and advanced materials. The only thing you need is interest!
- 5 Guosong is a great teacher and makes the lectures very interesting!
- 6 It's great and Professor Hong is really passionate about teaching
- 7 VERY NICE CLASS! Prof. Hong's lectures are extremely well-prepared and organized!
- 8 The best course to take if you consider neuroscience technology path. You will learn a lot if you really pay attention. Guosong's office hour is extremely great. He is very kind to help you and spend a lot of effort to prepare course material. He is so knowledgeable on everything!
- 9 This class is great, Prof. Hong is so clearly passionate about what he's teaching that it makes you want to listen and learn. It's a LOT of information but it's worth it!
- 10 Amazing presentation layouts, useful homework, and great delivery. Take it if you want to know about neuroscience!
- 11 This course is an excellent introduction to the cutting-edge techniques and materials in the field of neuroscience. You can learn a lot no matter what your background is.
- 12 Great course taught by a very passionate professor. Probably the ideal elective. You get to think creatively every class, and the homework sets are very interesting and not too long/arduous. Worth taking if you have interest on how materials can interface with the brain.
- 13 This is a great way for you to explore topics not in your major and introduce you to some really cool technologies
- 14 This course would definitely benefit those who want to do research in the field of materials for neuroscience and neurotechnologies. Prof. Hong would provide a comprehensive and fantastic overview about the recent development in this field. The discussions and questions during the lectures were also very inspiring, leading to the formation of new research ideas! Strongly recommend!

(9 comments)

Q: Would you like to provide any other comments about this course?

- 1 Guosong is a nice professor. If I can only choose one people to teach me on everything, I will choose him!
- 2 The thing that strikes me most about this class is the motivation and work that Professor Hong has laid down. Of all the courses I have taken in my life, I have never felt so safe and inspired as I have by his lectures. I applaud him for his work. Furthermore, Hong succeeded in making me motivated to do further research within this field. So because of his enthusiasm I will for the next quarter develop neural sensors at another lab.
- 3 I really enjoyed this class! The only thing I wish would have been different was the pace of the class - at times it was so fast-paced it was hard to keep up because of the amount of information we were being given so maybe at times it would be useful to slow down and explain slightly fewer topics in greater depth rather than going through so many topics so quickly.
- 4 Very wonderful and helpful!
- 5 Amazing. Very well thought out. We appreciate your time and dedication!
- 6 The professor did an amazing job especially considering this was the first time it was being taught
- 7 Very nice course! I really learned a lot from this course and it was really beneficial to my research! Strongly recommend.
- 8 If possible, it would be helpful to label the lectures with the titles of the lectures.
- 9 My one piece of constructive feedback is that it would be nice if the lecture slides were titled on Canvas (instead of just saying "Lecture 1" etc). The slides are slow to load, and so it is hard to navigate through all of them to find what I am looking for. It also might be nice to have some kind of outline of which subtopics are in which lecture deck, mainly because there is so much material surveyed in the course.

Instructor Added Questions

Close-Ended Questions

No Data.

Interpreting these results and deciding what changes you might want to make in your course can benefit greatly from a conversation with a colleague and/or a teaching consultant. To discuss your course evaluation feedback with a consultant in the Office of the Vice Provost for Teaching and Learning, please click here: [VPTL Consultation Request Form \(https://vptl.stanford.edu/getting-started-vptl\)](https://vptl.stanford.edu/getting-started-vptl)