

ECE Standard Lec Survey  
SP12 2012Purdue University  
West Lafayette

Course: ECE31100 003 - Elec &amp; Magnetic Fields

Department: ECE

Resp. Rec'd / Expected: 41 / 56

## ECE31100 - 003

## 1a - Demographics

## Responses

## Course

	[F]	[S]	[J]	[S]	[G]	[O]	Grp. Med.	Mode	S.D.	N	Mean
Q1 YOUR CLASS	0	2	25	14	0	0	3.2	3	.55	41	3.3

Responses: [F] Fresh=1 [S] Soph=2 [J] Jr=3 [S] Sr=4 [G] Grad=5 [O] Other=6

## ECE31100 - 003

## 1a - Demographics

## Responses

## Course

	[A]	[B]	[C]	[D]	[F]	[P]	[F]	Grp. Med.	Mode	S.D.	N	Mean
Q2 EXPECTED GRADE	24	13	3	1	0	0	0	6.6	7	.74	41	6.5

Responses: [A] A=7 [B] B=6 [C] C=5 [D] D=4 [F] F=3 [P] Pass=2 [F] Fail=1

## ECE31100 - 003

## 1a - Demographics

## Responses

## Course

	[RF]	[RB]	[E]	Grp. Med.	Mode	S.D.	N	Mean
Q3 COURSE REQUIRED	41	0	0	1	1	0	41	1

Responses:

[RF] Required for your major/minor=1

[RB] Required by school/University=2

[E] Elective=3

## ECE31100 - 003

## 1a - Demographics

## Responses

## Course

	[A]	[E]	[E]	[H]	[L]	[M]	[P]	[S]	[T]	[VM]	[U]	Grp. Med.	Mode	S.D.	N	Mean
Q4 YOUR SCHOOL	0	0	41	0	0	0	0	0	0	0	0	9	9	0	41	9

Responses:

[A] AG=11 [E] ED=10 [E] ENGR=9 [H] HHS=8 [L] LA=7 [M] MGMT=6 [P] PHARM=5 [S] SCI=4 [T] TECH=3 [VM] VET MED=2 [U] UNDECLARED=1

## ECE31100 - 003

## 2a - University questions about your course

## Responses

## Course

	[E]	[G]	[F]	[P]	[VP]	Grp. Med.	Mode	S.D.	N	Mean
Q5 Overall, I would rate this course as:	24	16	1	0	0	4.6	5	.54	41	4.6

Responses: [E] Excellent=5 [G] Good=4 [F] Fair=3 [P] Poor=2 [VP] Very Poor=1

## Melloch, Michael R

## 2b - University questions about your instructor

## Responses

## Individual

	[E]	[G]	[F]	[P]	[VP]	Grp. Med.	Mode	S.D.	N	Mean
Q6 Overall, I would rate this instructor as:	38	3	0	0	0	5	5	.26	41	4.9

**Responses:** [E] Excellent=5 [G] Good=4 [F] Fair=3 [P] Poor=2 [VP] Very Poor=1

## ECE31100 - 003

## ECE Standard questions about course

	Responses								Course				
	[E]	[C]	[M]	[M]	[A]	[I]	[C]	[O]	Grp. Med.	Mode	S.D.	N	Mean
Q7 What is your MAJOR?	40	0	0	0	0	0	0	0	8	8	0	40	8

**Responses:** [E] EE=8 [C] CmpE=7 [M] ME=6 [M] MSE=5 [A] AAE=4 [I] IE=3 [C] CS=2 [O] Other=1

## ECE31100 - 003

## ECE Standard questions about course

	Responses					Course				
	[A]	[B]	[C]	[D]	[E]	Grp. Med.	Mode	S.D.	N	Mean
Q8 What is your current GPA?	17	12	9	2	0	1.8	1	.92	40	1.9

**Responses:** [A] 4 00-3 50=1 [B] 3 49-3 00=2 [C] 2 99-2 50=3 [D] 2 49-2 00=4 [E] 1 99-1 00=5

## ECE31100 - 003

## ECE Standard questions about course

	Responses						Course				
	[A]	[B]	[C]	[D]	[E]	[>]	Grp. Med.	Mode	S.D.	N	Mean
Q9 What is the average number of out-of-class HOURS/WEEK you devote to the lecture portion of the class?	6	17	12	4	1	0	2.3	2	.95	40	2.4

**Responses:** [A] 1-2=1 [B] 3-4=2 [C] 5-6=3 [D] 7-9=4 [E] 10-12=5 [>] >12=6

## ECE31100 - 003

## ECE Standard questions about course

	Responses					Course				
	[E]	[G]	[F]	[P]	[VP]	Grp. Med.	Mode	S.D.	N	Mean
Q10 Please evaluate the CONTENT OF THIS COURSE.	21	17	2	0	0	4.5	5	.59	40	4.5
Q11 Evaluate the ORGANIZATION OF THIS COURSE.	30	9	1	0	0	4.8	5	.50	40	4.7
Q12 Evaluate the ADMINISTRATION OF THIS COURSE.	32	7	1	0	0	4.9	5	.47	40	4.8
Q13 Evaluate the AVAILABILITY OF OUTSIDE HELP.	36	4	0	0	0	4.9	5	.30	40	4.9
Q14 Evaluate the UTILIZATION OF BACKGROUND PROVIDED BY PREREQUISITES.	27	11	2	0	0	4.8	5	.58	40	4.6
Q15 Evaluate the COURSE TEXT.	16	14	9	0	0	4.3	5	.78	39	4.2
Q16 Evaluate the SUPPLEMENTAL COURSE NOTES.	31	8	0	1	0	4.9	5	.59	40	4.7
Q17 Evaluate the HOMEWORK ASSIGNMENTS.	22	16	2	0	0	4.6	5	.59	40	4.5
Q18 Evaluate the EXAMS.	29	11	0	0	0	4.8	5	.45	40	4.7
Q19 Evaluate the QUIZZES.	19	10	8	0	0	4.5	5	.80	37	4.3
Q20 Evaluate the PROJECTS.	19	8	9	0	0	4.6	5	.84	36	4.3
Q21 Please evaluate the LAB EXPERIMENTS.	18	7	11	0	0	4.5	5	.88	36	4.2
Q22 Evaluate the CLARITY OF COURSE OUTCOMES.	25	14	1	0	0	4.7	5	.54	40	4.6
Q23 Evaluate the APPROPRIATENESS OF COURSE OUTCOMES.	26	13	1	0	0	4.7	5	.53	40	4.6

**Responses:** [E] Excellent=5 [G] Good=4 [F] Fair=3 [P] Poor=2 [VP] Very Poor=1

## Q24 - Please make comments, positive or negative about the course.

**Response Rate: 48.78%** (20 of 41)

- I like the availability of extra credit in this course.
- Perfect Professor. Hard class.
- Meh.

- We didn't have projects or lab experiments even though they would be very cool if we could.
- Because I took this class early it was difficult at times since I am expected to know things that I have not been taught. However, it was not too entirely bad.

Great course, I can honestly say that this course provides every student with the opportunity to get an A without dumbing down the material. If more professors taught their classes like this there is no doubt in my mind we would be the top ranked engineering school in the nation. In my opinion the key to this course's success is due to two things. First, he provides RELEVANT material. Students have a clear understanding on how to prepare for examinations. This isn't just material but everything. When I go through his practice exams I know exactly what the formula sheet looks like, what he'll mark off for (ex: units, decimal values to round to), if it's double sided, about how many questions, what the multiple choice questions are going to be like, how many free response and multiple choice questions, what types of questions are worth more than others, how much space I have to answer each problem. All of these things I take into consideration and the fact all of these questions are answered means I can be that much more prepared. Also providing practice material without solutions is > as effective as one with solutions. I understand you want your students to look at it before they look at the solutions, that being said were mature enough to handle studying the right way. And honestly for the students who aren't they need someone to teach them the value of trying to solve something instead of just blindly looking at answers before they go into the work force, and learning how to be successful in the field is why we're here in the first place. Second, Not only is it good practice material but there's lots of it. I couldn't tell you how many professors just give you one practice exam. One practice exam isn't good enough because after 3-4 hours of studying you've memorized all the solutions whether you know the material or not. 80% of professors simply don't provide enough GOOD practice material. MIT, Stanford, Berkeley, IIT Bombay, Notre Dame, Michigan, etc. all have some type of platform that provides resources to their students. Most use iTunesU, MIT and IIT have "opencourseware" that include lecture videos old assignments with SOLUTIONS not just answers. Most courses aren't open source but are just provided through blackboard. There's no reason we can't do this. The two courses I've had here that just simply provide lecture videos (ECE 270 and ECE 311) have one thing in common. There's little to no curve for the final grade. Maybe it's just me but doesn't that say something. If we start providing students with lots of relevant material so we have the tools to be successful in the course we really wouldn't have to float around top 10 in the nation and finally start being recognized by the best ECE curriculum in the country.

- Awesome%#
- The course is setup very well. Homework and exams are returned timely.
- It's a great course! No complaints!
- Lots of material as you mentioned.
- Like the Homework and exam EC opportunities. It motivates me to work harder.
- The course is organized very well. The policies in place for extra credit on the exams makes it feel as if the course is actually having exams to teach, rather than to punish students for not understanding things the first time. The grades are based on actual understanding of the material.
- The contents and supplement notes are awesome.
- This course is heavy on physics concepts and that made it very difficult for me but I don't have any complaints.
- I would be glad if they can come up with a better way to visualize the mathematical formula.

Having taken ECE201H and PHYS272, this class was almost entirely review for me. Granted, it's been almost two years since I took those classes so I had to relearn a lot, but still I feel that if ECE201H becomes standard (as it should) then this class could be greatly expanded to talk more in depth about the more advanced topics such as EM waves and transmission lines.

- I think that the difference in both sections is unfair. All sections should be like Prof. Melloch's. One learns to appreciate the material that way.

Greatly appreciate the ability to gain extra credit from missed exam problems.

- Recommended Schaum Outline was VERY helpful.
- I enjoyed this course a lot.

The course is well organized and it is easy to see the overall purpose of each section. I like how we first look at electric fields because as electrical engineers, that is the topic we have most direct experience with. Then we talk about magnetic fields which is more difficult to grasp, but can be better understood by relating concepts to electric fields. Then both sections are brought together with Maxwell's equations and electromagnetic waves. I like how you are never surprised by the tests and all assignments cover the fundamental concepts of the class.

- No projects/quizzes. Material was somewhat boring, but is necessary for EE.

ECE Standard questions about instructor		Melloch, Michael R									
		Responses					Individual				
		[E]	[G]	[F]	[P]	[VP]	Grp. Med.	Mode	S.D.	N	Mean
Q25	Evaluate the instructor's PREPARATION FOR LECTURE.	39	1	0	0	0	5	5	.16	40	5
Q26	Evaluate the instructor's CLARITY OF PRESENTATION.	37	3	0	0	0	5	5	.26	40	4.9
Q27	Evaluate the instructor's GENERAL INSTRUCTIONAL TECHNIQUE.	36	3	1	0	0	4.9	5	.40	40	4.9
Q28	Evaluate the instructor's AVAILABILITY OUTSIDE OF CLASS.	38	2	0	0	0	5	5	.22	40	5
Q29	Evaluate the instructor's RAPPORT WITH STUDENTS.	39	0	1	0	0	5	5	.31	40	5

<b>Q30</b> Evaluate the instructor's EFFECTIVENESS IN ANSWERING QUESTIONS.	39	1	0	0	0	<b>5</b>	5	.16	<b>40</b>	<b>5</b>
<b>Q31</b> Evaluate the instructor's EFFORT PUT FORTH IN TEACHING CLASS.	39	1	0	0	0	<b>5</b>	5	.16	<b>40</b>	<b>5</b>

**Responses:** [E] Excellent=5 [G] Good=4 [F] Fair=3 [P] Poor=2 [VP] Very Poor=1

**Q32 - Please make comments, positive or negative, about the instructor.**

**Faculty: Melloch, Michael R**

**Response Rate: 58.54% (24 of 41)**

- The demonstrations and videos make the course much clearer and more interesting.
- Integration of demos and explanation of overall concepts is done very well. I feel like at times Prof Melloch tends to drive into the equations quite heavily though and I tend to doze off during these times.
- Professor Melloch is a champ. Probably the best professor I've had at Purdue so far. I've learned more in his class than in all the rest of my classes this semester put together.
- He is always well prepared and appears passionate about the subject matter. He is open to questions and often available for personal help outside of class.
- Professor Melloch is one of the greatest professors I've had here. He truly cares about the students and teaches difficult material in a fair and interesting way.
- AWESOME PROFESSOR!!!! The only reason that I made it through this class. Was not very interested in the material at all but because of the teacher I liked it better and has a good motive when teaching. Recommended Melloch to various of my friends to take a course with.
- Professor Melloch is honestly the best professor I've had at Purdue. I can honestly say if I don't get a B in his class it's my own fault. The course text isn't the greatest but he makes up for it with his video's and exam and homework examples. It really means a lot to me that he takes the time to meet personally each student. I understand how that sounds a lot easier said than done. He's always friendly when you visit his office hours and it's obvious that he really cares about being the best professor he possibly can.
- Very good professor. Plenty of office hours available. Tries his best to communicate with students.
- A great attitude, and knows all the students in such a big class. It definitely motivates me to go to class and learn the material.
- Very easy to ask questions. It's obvious he wants us to not only pass the class, but to understand the material. Very good teacher.
- The sheer effort Professor Melloch puts behind trying to make sure the students understand the material clearly is something I have never seen before in my six semesters here at Purdue. He provides handouts and decent notes during class, catches our interest with relevant experiments during class, and provides videos on Blackboard with additional help for difficult topics. Beyond that, he not only provides old exams with solutions to help our ability to understand the nature of the problems we would be encountering on the exams, but offers the opportunity for us to earn points back by teaching a concept from the exam back to him to show that a previous weakness in a topic has become a strength. If I had professors like him throughout my career here at Purdue, I have no doubt that I could have had a much more successful academic career thus far (not to say it hasn't been, just simply that professors like him would have made it much better).
- Really cares about his students. Got to know each by name, and spent time getting to know them while buying them lunch. I really appreciate this and it makes me want to pay closer attention and learn better.
- Very clear presentation of difficult material. Not only do I understand it pretty well, but I am interested in going further in the topics.
- Very available for help, has TONS of office hours available.
- I can't think of anything negative about this Professor. Does a great job in every way I know of.
- Professor Melloch is the best teacher I've had in ECE. He genuinely cares about teaching the material and the students understanding.
- The professor great.
- Professor Melloch is one of the best professors I've had here at Purdue. Thank you for all of your help in office hours, all the preparation that goes into your lectures, the demonstrations, extra credit points, lunch, and learning everyone's name. I appreciate everything you've done to ensure our success in your class.
- The instructor tried hard to make us understand the material. More videos and experiments would be even better.
- I really like the passion with which the class was taught. It would be easy to put this class off as boring and no one would want to learn, but you made it interesting (loved the demonstrations) and made the grading scheme make sense.
- I can now appreciate electromagnetism. Amazing! Bravo to Professor Melloch.
- Professor Melloch is one of the greatest professors at Purdue. He does a great job conveying the course material and uses numerous demonstrations in class to help understand the material. He is very approachable outside of class for office hours and very available.
- Prof. Melloch in my opinion is probably one of the best in the ECE department. I wish he was teaching more classes.
- Like many EE professors, there were several instances where he lacked computer skills that are second nature to his students.

- I really enjoyed all the lectures and especially the demos. The demos are an excellent way to develop interest in the course as well as to understand the concept.
- Professor Melloch is probably the best professor I have had at Purdue

Great professor. I could tell he really cared about his students and teaching, unlike a lot of professors. It was nice to have a professor that really wanted me to succeed and did a lot to make that possible. Although the material was somewhat boring to me, Professor Melloch made class interesting enough, and motivated me to study and learn it. One of the best professors I've had at Purdue.