

## ***Results for Mid term survey: Physics 212 with Michael Murray***

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*Students were asked to fill in this survey anonymously.*

► For questions 1-7, 1 = Strongly Disagree to 5 = Strongly Agree

► For the open-ended questions, answers that pertain directly to the worksheets in class have been boldfaced.

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**1) I have a clear concept of what I am expected to learn in this class.**

	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	Ave = 3.91
%	0	9	19	45	28	

**2) Discussing worksheet problems with other students helps me understand the material.**

	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	Ave = 3.86
%	0	9	24	26	38	

**3) In-class worksheets help prepare me for homework and exams.**

	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	Ave = 3.69
%	0	9	29	33	26	

**4) The class is too noisy.**

	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	Ave = 1.91
%	38	41	14	5	2	

**5) I can read the material written on the blackboard during class.**

	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	Ave = 4.00
%	38	41	14	5	2	

**6) The transparencies are useful for explaining new concepts.**

	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	
%	0	9	21	48	22	Ave = 3.84

**7) Overall this professor is an effective teacher.**

	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	
%	2	2	12	32	53	Ave = 4.32

**8) What suggestions do you have to improve this course?**

"When writing things on the board, please define the variables and constants"

"More examples like those we will see on exams"

"The lecture runs behind the lab, should be the other way around."

"Prep for lab--lecture runs behind lab schedule."

"Sometimes you skip around too quickly, so I don't know what diagrams or formulas are written on the board are for."

"Do more examples like homework problems and help explain how the concepts can be applied to engineering with real life examples."

"Select a few well-performing, quiet students to inform you of the concepts going over the main body's heads, to address the things students as a whole are too hesitant to bring up. Designate within the first three weeks; have them report to you at least weekly. Interview a willing handful in person to get a more direct feel of what they think, with the condition that they will not be punished for their opinions; do this over the space of the semester, maybe once a week; different student ea. time. Ask the education department for suggestions. Neater handwriting please! Get something other than transparencies (or bigger transparencies); its really hard to read from 3rd row and damn near impossible from 6th."

"Either hand out copies of overhead transparencies or write on the board."

"Give more definitions of terms in class."

"Maybe go over some more problems. I have trouble figuring out homework questions."

"Please post more worksheets or the ones we turn in on blackboard. Please post other helpful information or worksheets we have not had time for."

**9) What is one way I could be a more effective teacher?**

"At some point on each topic give a clear mathematical definition and do most of the examples with math, not just analogies. The two together are helpful but purely analogies becomes very confusing for some of us."

"More examples in class that are worked out thoroughly"

"More examples in class."

"Test prep."

"Explain not only why concepts are true but how we can use them for future jobs ex. (automotive industry, energy companies, construction—etc.)"

"Cater to more than one way of learning. Some students learn easily from diagrams and derivations, but others need more solid examples and explanations."

"Thanks you are a great teacher; physics is not my strength, but you definitely make it fun and interesting."