

## Student Course Evaluation Questionnaires

<b>Course-Section:</b>	<b>PHYS 105 1</b>
<b>Title:</b>	<b>Ideas In Astronomy</b>
<b>Instructor:</b>	<b>George,Ian M</b>

**Term - Fall 2011**

<b>Enrollment:</b>	<b>59</b>
<b>Questionnaires:</b>	<b>31</b>

Questions	NR	NA	Frequencies					Instructor		Course	Org	UMBC	Level	Sect
			1	2	3	4	5	Mean	Rank	Mean	Mean	Mean	Mean	Mean
<b>General</b>														
1. Did you gain new insights,skills from this course	2	0	1	1	5	12	10	4.00	1118/1520	4.00	4.28	4.31	4.14	4.00
2. Did the instructor make clear the expected goals	2	0	0	3	7	13	6	3.76	1274/1520	3.76	4.07	4.27	4.20	3.76
3. Did the exam questions reflect the expected goals	2	1	1	4	4	12	7	3.71	1116/1291	3.71	4.05	4.33	4.24	3.71
4. Did other evaluations reflect the expected goals	2	12	1	1	2	7	6	3.94	1078/1483	3.94	4.12	4.23	4.09	3.94
5. Did assigned readings contribute to what you learned	3	2	0	1	6	6	13	4.19	667/1417	4.19	3.93	4.08	4.02	4.19
6. Did written assignments contribute to what you learned	2	23	2	0	0	0	4	3.67	****/1405	****	4.08	4.12	3.96	****
7. Was the grading system clearly explained	2	0	0	0	6	8	15	4.31	681/1504	4.31	4.09	4.16	4.13	4.31
8. How many times was class cancelled	2	0	0	1	6	22	0	3.72	1503/1519	3.72	4.80	4.70	4.71	3.72
9. How would you grade the overall teaching effectiveness	6	2	0	0	7	12	4	3.87	1052/1495	3.87	3.94	4.11	4.01	3.87
<b>Lecture</b>														
1. Were the instructor's lectures well prepared	3	0	0	2	4	8	14	4.21	1124/1459	4.21	4.36	4.47	4.40	4.21
2. Did the instructor seem interested in the subject	4	0	0	0	0	5	22	4.81	779/1460	4.81	4.72	4.74	4.68	4.81
3. Was lecture material presented and explained clearly	4	0	1	2	4	10	10	3.96	1109/1455	3.96	4.02	4.32	4.26	3.96
4. Did the lectures contribute to what you learned	2	0	1	2	3	8	15	4.17	1009/1456	4.17	4.06	4.34	4.26	4.17
5. Did audiovisual techniques enhance your understanding	3	0	2	2	1	7	16	4.18	611/1316	4.18	3.80	4.03	3.91	4.18
<b>Discussion</b>														
1. Did class discussions contribute to what you learned	14	0	1	1	6	4	5	3.65	998/1243	3.65	3.98	4.17	3.98	3.65
2. Were all students actively encouraged to participate	15	0	2	2	6	2	4	3.25	1178/1241	3.25	4.17	4.33	4.14	3.25
3. Did the instructor encourage fair and open discussion	14	0	2	2	5	1	7	3.53	1135/1236	3.53	4.11	4.40	4.19	3.53
4. Were special techniques successful	15	12	1	0	1	0	2	3.50	****/889	****	4.30	4.02	3.89	****

## Student Course Evaluation Questionnaires

<b>Course-Section:</b>	<b>PHYS 105 1</b>
<b>Title:</b>	<b>Ideas In Astronomy</b>
<b>Instructor:</b>	<b>George,Ian M</b>

**Term - Fall 2011**

<b>Enrollment:</b>	<b>59</b>
<b>Questionnaires:</b>	<b>31</b>

Questions	NR	NA	Frequencies					Instructor		Course	Org	UMBC	Level	Sect
			1	2	3	4	5	Mean	Rank	Mean	Mean	Mean	Mean	Mean
<b>Laboratory</b>														
1. Did the lab increase understanding of the material	26	4	0	1	0	0	0	2.00	****/164	****	3.56	4.15	4.13	****
2. Were you provided with adequate background information	27	0	0	1	2	0	1	3.25	****/165	****	3.92	4.19	4.31	****
3. Were necessary materials available for lab activities	27	3	0	0	1	0	0	3.00	****/160	****	4.05	4.45	4.49	****
4. Did the lab instructor provide assistance	27	2	0	0	2	0	0	3.00	****/158	****	4.32	4.36	4.43	****
<b>Seminar</b>														
1. Were assigned topics relevant to the announced theme	26	3	0	1	1	0	0	2.50	****/67	****	4.67	4.60	4.51	****
2. Was the instructor available for individual attention	26	4	0	1	0	0	0	2.00	****/66	****	4.38	4.55	4.36	****
3. Did research projects contribute to what you learned	26	4	1	0	0	0	0	1.00	****/62	****	4.38	4.54	4.01	****
4. Did presentations contribute to what you learned	26	3	1	0	0	0	1	3.00	****/68	****	4.56	4.59	4.43	****
5. Were criteria for grading made clear	26	3	0	0	0	0	2	5.00	****/66	****	4.56	4.20	3.90	****
<b>Field Work</b>														
1. Did field experience contribute to what you learned	27	0	0	0	2	1	1	3.75	****/32	****	****	4.36	4.08	****
2. Did you clearly understand your evaluation criteria	27	0	0	0	2	1	1	3.75	****/31	****	****	4.15	3.67	****
3. Was the instructor available for consultation	27	1	0	1	0	2	0	3.33	****/23	****	****	4.48	****	****
5. Did conferences help you carry out field activities	27	3	0	1	0	0	0	2.00	****/20	****	****	4.23	****	****
<b>Self Paced</b>														
1. Did self-paced system contribute to what you learned	28	0	0	0	0	1	2	4.67	****/24	****	****	4.17	4.37	****
2. Did study questions make clear the expected goal	28	0	0	0	1	1	1	4.00	****/15	****	****	4.17	4.22	****
3. Were your contacts with the instructor helpful	28	2	0	1	0	0	0	2.00	****/22	****	****	4.07	3.99	****
4. Was the feedback/tutoring by proctors helpful	28	2	0	0	0	0	1	5.00	****/15	****	****	4.06	4.14	****

## Student Course Evaluation Questionnaires

<b>Course-Section:</b>	<b>PHYS 105 1</b>
<b>Title:</b>	<b>Ideas In Astronomy</b>
<b>Instructor:</b>	<b>George,Ian M</b>

**Term - Fall 2011**

<b>Enrollment:</b>	<b>59</b>
<b>Questionnaires:</b>	<b>31</b>

Questions	NR	NA	Frequencies					Instructor		Course	Org	UMBC	Level	Sect
			1	2	3	4	5	Mean	Rank	Mean	Mean	Mean	Mean	Mean
<b>Self Paced</b>														
5. Were there enough proctors for all the students	28	2	1	0	0	0	0	1.00	****/12	****	****	4.16	3.92	****

### Frequency Distribution

Credits Earned	Cum. GPA	Expected Grades	Reasons	Type	Majors
00-27	6	0.00-0.99	1 A 6	Required for Majors	1 Graduate 0 Major 2
28-55	2	1.00-1.99	0 B 14		
56-83	1	2.00-2.99	1 C 7	General	13 Under-grad 31 Non-major 29
84-150	3	3.00-3.49	6 D 1		
Grad.	0	3.50-4.00	3 F 0	Electives	12
			P 0		
			I 0	Other	2
			? 3		

\*\*\*\* - Means there are not enough responses to be significant

## Student Course Evaluation Questionnaires

<b>Course-Section:</b>	<b>PHYS 111 01</b>
<b>Title:</b>	<b>Basic Physics I</b>
<b>Instructor:</b>	<b>Jacobson,John F</b>

**Term - Fall 2011**

<b>Enrollment:</b>	<b>220</b>
<b>Questionnaires:</b>	<b>82</b>

Questions	NR	NA	Frequencies					Instructor		Course	Org	UMBC	Level	Sect
			1	2	3	4	5	Mean	Rank	Mean	Mean	Mean	Mean	Mean
<b>General</b>														
1. Did you gain new insights,skills from this course	2	0	9	10	27	22	12	3.23	1480/1520	3.23	4.28	4.31	4.14	3.23
2. Did the instructor make clear the expected goals	3	0	8	12	30	12	17	3.23	1442/1520	3.23	4.07	4.27	4.20	3.23
3. Did the exam questions reflect the expected goals	2	1	5	13	19	15	27	3.58	1163/1291	3.58	4.05	4.33	4.24	3.58
4. Did other evaluations reflect the expected goals	2	22	7	9	15	17	10	3.24	1413/1483	3.24	4.12	4.23	4.09	3.24
5. Did assigned readings contribute to what you learned	2	8	9	10	16	18	19	3.39	1233/1417	3.39	3.93	4.08	4.02	3.39
6. Did written assignments contribute to what you learned	2	20	8	6	21	12	13	3.27	1289/1405	3.27	4.08	4.12	3.96	3.27
7. Was the grading system clearly explained	2	1	9	7	26	19	18	3.38	1365/1504	3.38	4.09	4.16	4.13	3.38
8. How many times was class cancelled	5	0	0	0	0	1	76	4.99	119/1519	4.99	4.80	4.70	4.71	4.99
9. How would you grade the overall teaching effectiveness	24	2	11	12	19	13	1	2.66	1472/1495	2.66	3.94	4.11	4.01	2.66
<b>Lecture</b>														
1. Were the instructor's lectures well prepared	2	0	8	18	17	26	11	3.18	1425/1459	3.18	4.36	4.47	4.40	3.18
2. Did the instructor seem interested in the subject	2	0	1	4	10	24	41	4.25	1338/1460	4.25	4.72	4.74	4.68	4.25
3. Was lecture material presented and explained clearly	3	0	17	19	21	13	9	2.72	1435/1455	2.72	4.02	4.32	4.26	2.72
4. Did the lectures contribute to what you learned	2	1	19	14	18	13	15	2.89	1419/1456	2.89	4.06	4.34	4.26	2.89
5. Did audiovisual techniques enhance your understanding	2	13	15	7	18	17	10	3.00	1210/1316	3.00	3.80	4.03	3.91	3.00
<b>Discussion</b>														
1. Did class discussions contribute to what you learned	43	0	15	3	10	4	7	2.62	1225/1243	2.62	3.98	4.17	3.98	2.62
2. Were all students actively encouraged to participate	42	0	5	5	11	9	10	3.35	1164/1241	3.35	4.17	4.33	4.14	3.35
3. Did the instructor encourage fair and open discussion	43	0	10	2	11	3	13	3.18	1194/1236	3.18	4.11	4.40	4.19	3.18
4. Were special techniques successful	42	22	4	2	5	3	4	3.06	****/889	****	4.30	4.02	3.89	****

## Student Course Evaluation Questionnaires

<b>Course-Section:</b>	<b>PHYS 111 01</b>
<b>Title:</b>	<b>Basic Physics I</b>
<b>Instructor:</b>	<b>Jacobson,John F</b>

**Term - Fall 2011**

<b>Enrollment:</b>	<b>220</b>
<b>Questionnaires:</b>	<b>82</b>

Questions	NR	NA	Frequencies					Instructor		Course	Org	UMBC	Level	Sect
			1	2	3	4	5	Mean	Rank	Mean	Mean	Mean	Mean	Mean
<b>Laboratory</b>														
1. Did the lab increase understanding of the material	24	0	27	7	9	13	2	2.24	164/164	2.24	3.56	4.15	4.13	2.24
2. Were you provided with adequate background information	23	0	7	6	26	14	6	3.10	156/165	3.10	3.92	4.19	4.31	3.10
3. Were necessary materials available for lab activities	23	2	8	4	12	8	25	3.67	151/160	3.67	4.05	4.45	4.49	3.67
4. Did the lab instructor provide assistance	23	2	9	3	11	5	29	3.74	137/158	3.74	4.32	4.36	4.43	3.74
5. Were requirements for lab reports clearly specified	23	15	4	6	11	4	19	3.64	111/150	3.64	4.20	4.05	4.26	3.64
<b>Seminar</b>														
1. Were assigned topics relevant to the announced theme	73	2	1	1	2	2	1	3.14	****/67	****	4.67	4.60	4.51	****
2. Was the instructor available for individual attention	73	5	1	0	3	0	0	2.50	****/66	****	4.38	4.55	4.36	****
3. Did research projects contribute to what you learned	73	6	1	1	1	0	0	2.00	****/62	****	4.38	4.54	4.01	****
4. Did presentations contribute to what you learned	73	6	1	0	2	0	0	2.33	****/68	****	4.56	4.59	4.43	****
5. Were criteria for grading made clear	73	6	1	0	2	0	0	2.33	****/66	****	4.56	4.20	3.90	****
<b>Field Work</b>														
1. Did field experience contribute to what you learned	74	0	2	2	3	1	0	2.38	****/32	****	****	4.36	4.08	****
2. Did you clearly understand your evaluation criteria	74	0	2	1	4	1	0	2.50	****/31	****	****	4.15	3.67	****
3. Was the instructor available for consultation	74	4	1	0	1	1	1	3.25	****/23	****	****	4.48	****	****
4. To what degree could you discuss your evaluations	74	5	1	0	1	1	0	2.67	****/27	****	****	4.23	5.00	****
5. Did conferences help you carry out field activities	74	4	1	1	2	0	0	2.25	****/20	****	****	4.23	****	****
<b>Self Paced</b>														
1. Did self-paced system contribute to what you learned	75	0	2	0	5	0	0	2.43	****/24	****	****	4.17	4.37	****
2. Did study questions make clear the expected goal	76	2	1	0	1	1	1	3.25	****/15	****	****	4.17	4.22	****
3. Were your contacts with the instructor helpful	76	3	1	0	1	0	1	3.00	****/22	****	****	4.07	3.99	****

## Student Course Evaluation Questionnaires

<b>Course-Section:</b>	<b>PHYS 111 01</b>
<b>Title:</b>	<b>Basic Physics I</b>
<b>Instructor:</b>	<b>Jacobson,John F</b>

**Term - Fall 2011**

<b>Enrollment:</b>	<b>220</b>
<b>Questionnaires:</b>	<b>82</b>

Questions	NR	NA	Frequencies					Instructor		Course	Org	UMBC	Level	Sect
			1	2	3	4	5	Mean	Rank	Mean	Mean	Mean	Mean	Mean
<b>Self Paced</b>														
4. Was the feedback/tutoring by proctors helpful	76	3	1	0	1	1	0	2.67	****/15	****	****	4.06	4.14	****
5. Were there enough proctors for all the students	76	3	1	0	1	1	0	2.67	****/12	****	****	4.16	3.92	****

### Frequency Distribution

Credits Earned		Cum. GPA		Expected Grades		Reasons	Type	Majors
00-27	0	0.00-0.99	0	A	24	Required for Majors	Graduate	0
28-55	10	1.00-1.99	0	B	33			Major
56-83	17	2.00-2.99	8	C	14	General	Under-grad	82
84-150	5	3.00-3.49	13	D	1			Non-major
Grad.	0	3.50-4.00	19	F	0	Electives		
				P	0			
				I	0	Other		
				?	9			

\*\*\*\* - Means there are not enough responses to be significant

## Student Course Evaluation Questionnaires

<b>Course-Section:</b>	<b>PHYS 112 01</b>
<b>Title:</b>	<b>Basic Physics II</b>
<b>Instructor:</b>	<b>Jacobson,John F</b>

**Term - Fall 2011**

<b>Enrollment:</b>	<b>90</b>
<b>Questionnaires:</b>	<b>34</b>

Questions	NR	NA	Frequencies					Instructor		Course	Org	UMBC	Level	Sect
			1	2	3	4	5	Mean	Rank	Mean	Mean	Mean	Mean	Mean
<b>General</b>														
1. Did you gain new insights,skills from this course	0	0	8	11	7	6	2	2.50	1509/1520	2.50	4.28	4.31	4.14	2.50
2. Did the instructor make clear the expected goals	0	0	14	8	5	6	1	2.18	1514/1520	2.18	4.07	4.27	4.20	2.18
3. Did the exam questions reflect the expected goals	0	1	11	9	7	6	0	2.24	1288/1291	2.24	4.05	4.33	4.24	2.24
4. Did other evaluations reflect the expected goals	0	17	2	9	3	3	0	2.41	1481/1483	2.41	4.12	4.23	4.09	2.41
5. Did assigned readings contribute to what you learned	2	9	3	5	6	7	2	3.00	1348/1417	3.00	3.93	4.08	4.02	3.00
6. Did written assignments contribute to what you learned	2	18	2	3	4	5	0	2.86	1362/1405	2.86	4.08	4.12	3.96	2.86
7. Was the grading system clearly explained	2	0	2	12	9	7	2	2.84	1458/1504	2.84	4.09	4.16	4.13	2.84
8. How many times was class cancelled	3	0	0	0	0	1	30	4.97	237/1519	4.97	4.80	4.70	4.71	4.97
9. How would you grade the overall teaching effectiveness	3	0	15	9	5	2	0	1.81	1494/1495	1.81	3.94	4.11	4.01	1.81
<b>Lecture</b>														
1. Were the instructor's lectures well prepared	1	0	6	9	12	3	3	2.64	1453/1459	2.64	4.36	4.47	4.40	2.64
2. Did the instructor seem interested in the subject	1	0	2	4	6	10	11	3.73	1438/1460	3.73	4.72	4.74	4.68	3.73
3. Was lecture material presented and explained clearly	2	0	13	10	8	1	0	1.91	1455/1455	1.91	4.02	4.32	4.26	1.91
4. Did the lectures contribute to what you learned	1	0	17	8	4	4	0	1.85	1456/1456	1.85	4.06	4.34	4.26	1.85
5. Did audiovisual techniques enhance your understanding	1	9	8	8	5	2	1	2.17	1303/1316	2.17	3.80	4.03	3.91	2.17
<b>Discussion</b>														
1. Did class discussions contribute to what you learned	28	0	2	1	1	1	1	2.67	****/1243	****	3.98	4.17	3.98	****
2. Were all students actively encouraged to participate	28	0	2	1	1	0	2	2.83	****/1241	****	4.17	4.33	4.14	****
3. Did the instructor encourage fair and open discussion	28	0	2	1	0	1	2	3.00	****/1236	****	4.11	4.40	4.19	****
4. Were special techniques successful	28	4	0	0	1	0	1	4.00	****/889	****	4.30	4.02	3.89	****

## Student Course Evaluation Questionnaires

<b>Course-Section:</b>	<b>PHYS 112 01</b>
<b>Title:</b>	<b>Basic Physics II</b>
<b>Instructor:</b>	<b>Jacobson,John F</b>

**Term - Fall 2011**

<b>Enrollment:</b>	<b>90</b>
<b>Questionnaires:</b>	<b>34</b>

Questions	NR	NA	Frequencies					Instructor		Course	Org	UMBC	Level	Sect
			1	2	3	4	5	Mean	Rank	Mean	Mean	Mean	Mean	Mean
<b>Laboratory</b>														
1. Did the lab increase understanding of the material	9	0	12	3	5	2	3	2.24	164/164	2.24	3.56	4.15	4.13	2.24
2. Were you provided with adequate background information	9	0	5	4	11	2	3	2.76	163/165	2.76	3.92	4.19	4.31	2.76
3. Were necessary materials available for lab activities	9	0	4	3	8	5	5	3.16	155/160	3.16	4.05	4.45	4.49	3.16
4. Did the lab instructor provide assistance	10	0	3	2	1	4	14	4.00	127/158	4.00	4.32	4.36	4.43	4.00
5. Were requirements for lab reports clearly specified	10	8	4	2	1	5	4	3.19	138/150	3.19	4.20	4.05	4.26	3.19

### Frequency Distribution

Credits Earned		Cum. GPA		Expected Grades		Reasons		Type		Majors	
00-27	0	0.00-0.99	1	A	15	Required for Majors	31	Graduate	0	Major	0
28-55	1	1.00-1.99	0	B	8						
56-83	2	2.00-2.99	0	C	3	General	0	Under-grad	34	Non-major	34
84-150	8	3.00-3.49	4	D	0						
Grad.	0	3.50-4.00	12	F	0	Electives	0	**** - Means there are not enough responses to be significant			
				P	0						
				I	0	Other	0				
				?	7						



## Student Course Evaluation Questionnaires

<b>Course-Section:</b>	<b>PHYS 121 01</b>
<b>Title:</b>	<b>Introductory Physics I</b>
<b>Instructor:</b>	<b>Cui,Lili</b>

**Term - Fall 2011**

<b>Enrollment:</b>	<b>311</b>
<b>Questionnaires:</b>	<b>142</b>

Questions	NR	NA	Frequencies					Instructor		Course	Org	UMBC	Level	Sect
			1	2	3	4	5	Mean	Rank	Mean	Mean	Mean	Mean	Mean
<b>General</b>														
1. Did you gain new insights,skills from this course	4	0	1	5	18	36	78	4.34	826/1520	4.34	4.28	4.31	4.14	4.34
2. Did the instructor make clear the expected goals	7	0	2	1	15	33	84	4.45	653/1520	4.45	4.07	4.27	4.20	4.45
3. Did the exam questions reflect the expected goals	4	0	1	1	8	29	99	4.62	423/1291	4.62	4.05	4.33	4.24	4.62
4. Did other evaluations reflect the expected goals	4	36	2	2	21	27	50	4.19	874/1483	4.19	4.12	4.23	4.09	4.19
5. Did assigned readings contribute to what you learned	5	33	18	9	24	28	25	3.32	1261/1417	3.32	3.93	4.08	4.02	3.32
6. Did written assignments contribute to what you learned	5	81	2	3	12	18	21	3.95	913/1405	3.95	4.08	4.12	3.96	3.95
7. Was the grading system clearly explained	4	0	1	3	14	23	97	4.54	405/1504	4.54	4.09	4.16	4.13	4.54
8. How many times was class cancelled	4	3	0	0	0	0	135	5.00	1/1519	5.00	4.80	4.70	4.71	5.00
9. How would you grade the overall teaching effectiveness	21	3	2	2	24	52	38	4.03	870/1495	4.03	3.94	4.11	4.01	4.03
<b>Lecture</b>														
1. Were the instructor's lectures well prepared	6	0	1	0	5	36	94	4.63	664/1459	4.63	4.36	4.47	4.40	4.63
2. Did the instructor seem interested in the subject	7	0	1	0	4	19	111	4.77	864/1460	4.77	4.72	4.74	4.68	4.77
3. Was lecture material presented and explained clearly	9	0	3	5	20	42	63	4.18	976/1455	4.18	4.02	4.32	4.26	4.18
4. Did the lectures contribute to what you learned	8	0	2	7	14	34	77	4.32	877/1456	4.32	4.06	4.34	4.26	4.32
5. Did audiovisual techniques enhance your understanding	7	5	2	1	22	40	65	4.27	528/1316	4.27	3.80	4.03	3.91	4.27
<b>Discussion</b>														
1. Did class discussions contribute to what you learned	83	0	1	1	3	18	36	4.47	438/1243	4.47	3.98	4.17	3.98	4.47
2. Were all students actively encouraged to participate	83	0	2	0	7	15	35	4.37	686/1241	4.37	4.17	4.33	4.14	4.37
3. Did the instructor encourage fair and open discussion	86	0	3	1	8	14	30	4.20	858/1236	4.20	4.11	4.40	4.19	4.20
4. Were special techniques successful	86	6	4	5	7	14	20	3.82	589/889	3.82	4.30	4.02	3.89	3.82

## Student Course Evaluation Questionnaires

<b>Course-Section:</b>	<b>PHYS 121 01</b>
<b>Title:</b>	<b>Introductory Physics I</b>
<b>Instructor:</b>	<b>Cui,Lili</b>

**Term - Fall 2011**

<b>Enrollment:</b>	<b>311</b>
<b>Questionnaires:</b>	<b>142</b>

Questions	NR	NA	Frequencies					Instructor		Course	Org	UMBC	Level	Sect
			1	2	3	4	5	Mean	Rank	Mean	Mean	Mean	Mean	Mean
<b>Laboratory</b>														
1. Did the lab increase understanding of the material	139	0	0	0	1	2	0	3.67	****/164	****	3.56	4.15	4.13	****
2. Were you provided with adequate background information	139	0	1	0	0	2	0	3.00	****/165	****	3.92	4.19	4.31	****
3. Were necessary materials available for lab activities	139	0	1	0	0	2	0	3.00	****/160	****	4.05	4.45	4.49	****
4. Did the lab instructor provide assistance	139	0	2	0	0	1	0	2.00	****/158	****	4.32	4.36	4.43	****
5. Were requirements for lab reports clearly specified	139	0	0	1	1	1	0	3.00	****/150	****	4.20	4.05	4.26	****
<b>Seminar</b>														
1. Were assigned topics relevant to the announced theme	140	0	0	0	0	2	0	4.00	****/67	****	4.67	4.60	4.51	****
2. Was the instructor available for individual attention	140	0	0	0	0	2	0	4.00	****/66	****	4.38	4.55	4.36	****
3. Did research projects contribute to what you learned	140	0	0	0	0	2	0	4.00	****/62	****	4.38	4.54	4.01	****
4. Did presentations contribute to what you learned	140	0	0	0	1	1	0	3.50	****/68	****	4.56	4.59	4.43	****
5. Were criteria for grading made clear	140	0	0	0	0	2	0	4.00	****/66	****	4.56	4.20	3.90	****
<b>Field Work</b>														
1. Did field experience contribute to what you learned	140	0	0	0	1	1	0	3.50	****/32	****	****	4.36	4.08	****
2. Did you clearly understand your evaluation criteria	140	0	0	1	0	1	0	3.00	****/31	****	****	4.15	3.67	****
3. Was the instructor available for consultation	140	0	0	0	0	2	0	4.00	****/23	****	****	4.48	****	****
4. To what degree could you discuss your evaluations	140	0	0	0	0	2	0	4.00	****/27	****	****	4.23	5.00	****
5. Did conferences help you carry out field activities	140	1	0	0	0	1	0	4.00	****/20	****	****	4.23	****	****
<b>Self Paced</b>														
1. Did self-paced system contribute to what you learned	140	0	0	0	0	2	0	4.00	****/24	****	****	4.17	4.37	****
2. Did study questions make clear the expected goal	140	0	0	1	0	1	0	3.00	****/15	****	****	4.17	4.22	****
3. Were your contacts with the instructor helpful	140	0	0	0	1	1	0	3.50	****/22	****	****	4.07	3.99	****

## Student Course Evaluation Questionnaires

<b>Course-Section:</b>	<b>PHYS 121 01</b>
<b>Title:</b>	<b>Introductory Physics I</b>
<b>Instructor:</b>	<b>Cui,Lili</b>

**Term - Fall 2011**

<b>Enrollment:</b>	<b>311</b>
<b>Questionnaires:</b>	<b>142</b>

Questions	NR	NA	Frequencies					Instructor		Course	Org	UMBC	Level	Sect
			1	2	3	4	5	Mean	Rank	Mean	Mean	Mean	Mean	Mean
<b>Self Paced</b>														
4. Was the feedback/tutoring by proctors helpful	140	0	0	0	0	2	0	4.00	****/15	****	****	4.06	4.14	****
5. Were there enough proctors for all the students	140	0	0	0	0	1	1	4.50	****/12	****	****	4.16	3.92	****

### Frequency Distribution

Credits Earned		Cum. GPA		Expected Grades		Reasons		Type		Majors	
00-27	21	0.00-0.99	3	A	61	Required for Majors	108	Graduate	0	Major	1
28-55	15	1.00-1.99	1	B	39						
56-83	10	2.00-2.99	9	C	18	General	7	Under-grad	142	Non-major	141
84-150	6	3.00-3.49	10	D	0						
Grad.	0	3.50-4.00	20	F	0	Electives	2	**** - Means there are not enough responses to be significant			
				P	0						
				I	0	Other	2				
				?	23						

## Student Course Evaluation Questionnaires

<b>Course-Section:</b>	<b>PHYS 121H 01</b>
<b>Title:</b>	<b>Intro Physics I-Honors</b>
<b>Instructor:</b>	<b>Cui,Lili</b>

**Term - Fall 2011**

<b>Enrollment:</b>	<b>25</b>
<b>Questionnaires:</b>	<b>24</b>

Questions	NR	NA	Frequencies					Instructor		Course	Org	UMBC	Level	Sect
			1	2	3	4	5	Mean	Rank	Mean	Mean	Mean	Mean	Mean
<b>General</b>														
1. Did you gain new insights,skills from this course	1	0	0	1	1	6	15	4.52	581/1520	4.52	4.28	4.31	4.14	4.52
2. Did the instructor make clear the expected goals	1	0	0	0	1	7	15	4.61	443/1520	4.61	4.07	4.27	4.20	4.61
3. Did the exam questions reflect the expected goals	1	0	0	0	0	4	19	4.83	213/1291	4.83	4.05	4.33	4.24	4.83
4. Did other evaluations reflect the expected goals	1	1	0	0	1	8	13	4.55	455/1483	4.55	4.12	4.23	4.09	4.55
5. Did assigned readings contribute to what you learned	0	1	0	1	3	3	16	4.48	395/1417	4.48	3.93	4.08	4.02	4.48
6. Did written assignments contribute to what you learned	0	12	0	0	0	4	8	4.67	235/1405	4.67	4.08	4.12	3.96	4.67
7. Was the grading system clearly explained	0	0	0	0	0	3	21	4.88	98/1504	4.88	4.09	4.16	4.13	4.88
8. How many times was class cancelled	0	0	0	0	0	0	24	5.00	1/1519	5.00	4.80	4.70	4.71	5.00
9. How would you grade the overall teaching effectiveness	2	2	0	0	3	8	9	4.30	605/1495	4.30	3.94	4.11	4.01	4.30
<b>Lecture</b>														
1. Were the instructor's lectures well prepared	0	0	0	0	0	8	16	4.67	616/1459	4.67	4.36	4.47	4.40	4.67
2. Did the instructor seem interested in the subject	1	0	0	0	0	1	22	4.96	272/1460	4.96	4.72	4.74	4.68	4.96
3. Was lecture material presented and explained clearly	0	0	0	0	2	11	11	4.38	795/1455	4.38	4.02	4.32	4.26	4.38
4. Did the lectures contribute to what you learned	1	0	0	3	1	7	12	4.22	981/1456	4.22	4.06	4.34	4.26	4.22
5. Did audiovisual techniques enhance your understanding	0	0	0	2	3	3	16	4.38	427/1316	4.38	3.80	4.03	3.91	4.38
<b>Discussion</b>														
1. Did class discussions contribute to what you learned	1	0	0	0	1	7	15	4.61	339/1243	4.61	3.98	4.17	3.98	4.61
2. Were all students actively encouraged to participate	1	0	0	0	2	4	17	4.65	425/1241	4.65	4.17	4.33	4.14	4.65
3. Did the instructor encourage fair and open discussion	1	0	0	0	2	3	18	4.70	476/1236	4.70	4.11	4.40	4.19	4.70
4. Were special techniques successful	1	1	0	0	2	6	14	4.55	174/889	4.55	4.30	4.02	3.89	4.55

## Student Course Evaluation Questionnaires

<b>Course-Section:</b>	<b>PHYS 121H 01</b>
<b>Title:</b>	<b>Intro Physics I-Honors</b>
<b>Instructor:</b>	<b>Cui,Lili</b>

**Term - Fall 2011**

<b>Enrollment:</b>	<b>25</b>
<b>Questionnaires:</b>	<b>24</b>

Questions	NR	NA	Frequencies					Instructor		Course	Org	UMBC	Level	Sect
			1	2	3	4	5	Mean	Rank	Mean	Mean	Mean	Mean	Mean
<b>Laboratory</b>														
1. Did the lab increase understanding of the material	23	0	0	0	1	0	0	3.00	****/164	****	3.56	4.15	4.13	****
2. Were you provided with adequate background information	23	0	0	0	1	0	0	3.00	****/165	****	3.92	4.19	4.31	****
3. Were necessary materials available for lab activities	23	0	0	0	1	0	0	3.00	****/160	****	4.05	4.45	4.49	****
4. Did the lab instructor provide assistance	23	0	0	0	0	1	0	4.00	****/158	****	4.32	4.36	4.43	****

### Frequency Distribution

Credits Earned	Cum. GPA	Expected Grades	Reasons	Type	Majors
00-27	4	0.00-0.99 2	A 13	Required for Majors 19	Graduate 0 Major 7
28-55	11	1.00-1.99 0	B 9		
56-83	3	2.00-2.99 0	C 1	General 2	Under-grad 24 Non-major 17
84-150	0	3.00-3.49 2	D 0		
Grad.	0	3.50-4.00 4	F 0	Electives 1	
			P 0		
			I 0	Other 0	
			? 0		

\*\*\*\* - Means there are not enough responses to be significant

## Student Course Evaluation Questionnaires

<b>Course-Section:</b>	<b>PHYS 122 01</b>
<b>Title:</b>	<b>Introductory Physics II</b>
<b>Instructor:</b>	<b>Anderson, Eric C</b>

**Term - Fall 2011**

<b>Enrollment:</b>	<b>184</b>
<b>Questionnaires:</b>	<b>72</b>

Questions	NR	NA	Frequencies					Instructor		Course	Org	UMBC	Level	Sect
			1	2	3	4	5	Mean	Rank	Mean	Mean	Mean	Mean	Mean
<b>General</b>														
1. Did you gain new insights, skills from this course	5	0	1	1	6	20	39	4.42	740/1520	4.42	4.28	4.31	4.14	4.42
2. Did the instructor make clear the expected goals	5	0	0	0	9	15	43	4.51	584/1520	4.51	4.07	4.27	4.20	4.51
3. Did the exam questions reflect the expected goals	5	0	1	1	5	17	43	4.49	561/1291	4.49	4.05	4.33	4.24	4.49
4. Did other evaluations reflect the expected goals	5	18	0	1	11	13	24	4.22	831/1483	4.22	4.12	4.23	4.09	4.22
5. Did assigned readings contribute to what you learned	5	14	4	2	9	16	22	3.94	880/1417	3.94	3.93	4.08	4.02	3.94
6. Did written assignments contribute to what you learned	5	34	1	3	5	11	13	3.97	890/1405	3.97	4.08	4.12	3.96	3.97
7. Was the grading system clearly explained	5	0	0	0	3	12	52	4.73	207/1504	4.73	4.09	4.16	4.13	4.73
8. How many times was class cancelled	5	2	0	2	0	0	63	4.91	592/1519	4.91	4.80	4.70	4.71	4.91
9. How would you grade the overall teaching effectiveness	18	4	1	2	4	24	19	4.16	759/1495	4.16	3.94	4.11	4.01	4.16
<b>Lecture</b>														
1. Were the instructor's lectures well prepared	7	0	0	0	3	10	52	4.75	463/1459	4.75	4.36	4.47	4.40	4.75
2. Did the instructor seem interested in the subject	7	0	0	0	3	2	60	4.88	622/1460	4.88	4.72	4.74	4.68	4.88
3. Was lecture material presented and explained clearly	8	0	1	2	4	22	35	4.38	795/1455	4.38	4.02	4.32	4.26	4.38
4. Did the lectures contribute to what you learned	7	0	1	4	4	13	43	4.43	756/1456	4.43	4.06	4.34	4.26	4.43
5. Did audiovisual techniques enhance your understanding	10	3	1	1	8	8	41	4.47	338/1316	4.47	3.80	4.03	3.91	4.47
<b>Discussion</b>														
1. Did class discussions contribute to what you learned	14	0	4	2	8	26	18	3.90	854/1243	3.90	3.98	4.17	3.98	3.90
2. Were all students actively encouraged to participate	15	0	3	2	9	13	30	4.14	852/1241	4.14	4.17	4.33	4.14	4.14
3. Did the instructor encourage fair and open discussion	15	0	1	4	9	17	26	4.11	918/1236	4.11	4.11	4.40	4.19	4.11
4. Were special techniques successful	15	9	3	5	6	16	18	3.85	571/889	3.85	4.30	4.02	3.89	3.85

## Student Course Evaluation Questionnaires

<b>Course-Section:</b>	<b>PHYS 122 01</b>
<b>Title:</b>	<b>Introductory Physics II</b>
<b>Instructor:</b>	<b>Anderson, Eric C</b>

**Term - Fall 2011**

<b>Enrollment:</b>	<b>184</b>
<b>Questionnaires:</b>	<b>72</b>

Questions	NR	NA	Frequencies					Instructor		Course	Org	UMBC	Level	Sect
			1	2	3	4	5	Mean	Rank	Mean	Mean	Mean	Mean	Mean
<b>Laboratory</b>														
1. Did the lab increase understanding of the material	62	2	1	1	3	2	1	3.13	****/164	****	3.56	4.15	4.13	****
2. Were you provided with adequate background information	64	0	0	2	1	3	2	3.63	****/165	****	3.92	4.19	4.31	****
3. Were necessary materials available for lab activities	64	1	0	1	1	2	3	4.00	****/160	****	4.05	4.45	4.49	****
4. Did the lab instructor provide assistance	64	0	0	2	2	2	2	3.50	****/158	****	4.32	4.36	4.43	****
5. Were requirements for lab reports clearly specified	65	2	1	0	1	0	3	3.80	****/150	****	4.20	4.05	4.26	****
<b>Seminar</b>														
1. Were assigned topics relevant to the announced theme	66	2	1	0	0	2	1	3.50	****/67	****	4.67	4.60	4.51	****
2. Was the instructor available for individual attention	68	2	0	0	0	0	2	5.00	****/66	****	4.38	4.55	4.36	****
3. Did research projects contribute to what you learned	68	2	0	0	2	0	0	3.00	****/62	****	4.38	4.54	4.01	****
4. Did presentations contribute to what you learned	68	1	0	0	0	3	0	4.00	****/68	****	4.56	4.59	4.43	****
5. Were criteria for grading made clear	70	1	0	0	0	0	1	5.00	****/66	****	4.56	4.20	3.90	****
<b>Field Work</b>														
1. Did field experience contribute to what you learned	68	0	1	0	1	2	0	3.00	****/32	****	****	4.36	4.08	****
2. Did you clearly understand your evaluation criteria	69	0	1	1	0	1	0	2.33	****/31	****	****	4.15	3.67	****
3. Was the instructor available for consultation	69	1	0	0	0	1	1	4.50	****/23	****	****	4.48	****	****
4. To what degree could you discuss your evaluations	70	1	0	0	0	0	1	5.00	****/27	****	****	4.23	5.00	****
5. Did conferences help you carry out field activities	70	1	0	0	0	1	0	4.00	****/20	****	****	4.23	****	****
<b>Self Paced</b>														
1. Did self-paced system contribute to what you learned	69	0	0	0	1	2	0	3.67	****/24	****	****	4.17	4.37	****
2. Did study questions make clear the expected goal	69	0	0	0	0	3	0	4.00	****/15	****	****	4.17	4.22	****
3. Were your contacts with the instructor helpful	69	0	0	0	2	0	1	3.67	****/22	****	****	4.07	3.99	****

## Student Course Evaluation Questionnaires

<b>Course-Section:</b>	<b>PHYS 122 01</b>
<b>Title:</b>	<b>Introductory Physics II</b>
<b>Instructor:</b>	<b>Anderson, Eric C</b>

**Term - Fall 2011**

<b>Enrollment:</b>	<b>184</b>
<b>Questionnaires:</b>	<b>72</b>

Questions	NR	NA	Frequencies					Instructor		Course	Org	UMBC	Level	Sect
			1	2	3	4	5	Mean	Rank	Mean	Mean	Mean	Mean	Mean
<b>Self Paced</b>														
4. Was the feedback/tutoring by proctors helpful	70	0	1	0	0	0	1	3.00	****/15	****	****	4.06	4.14	****
5. Were there enough proctors for all the students	70	0	1	0	0	0	1	3.00	****/12	****	****	4.16	3.92	****

### Frequency Distribution

Credits Earned		Cum. GPA		Expected Grades		Reasons		Type		Majors	
00-27	1	0.00-0.99	1	A	24	Required for Majors	54	Graduate	0	Major	0
28-55	8	1.00-1.99	0	B	20						
56-83	12	2.00-2.99	3	C	10	General	1	Under-grad	72	Non-major	72
84-150	2	3.00-3.49	10	D	0						
Grad.	0	3.50-4.00	18	F	0	Electives	0	**** - Means there are not enough responses to be significant			
				P	0						
				I	0	Other	0				
				?	16						



## Student Course Evaluation Questionnaires

<b>Course-Section:</b>	<b>PHYS 122H 01</b>
<b>Title:</b>	<b>Introductory Physics II</b>
<b>Instructor:</b>	<b>Anderson, Eric C</b>

**Term - Fall 2011**

<b>Enrollment:</b>	<b>12</b>
<b>Questionnaires:</b>	<b>10</b>

Questions	NR	NA	Frequencies					Instructor		Course	Org	UMBC	Level	Sect
			1	2	3	4	5	Mean	Rank	Mean	Mean	Mean	Mean	Mean
<b>General</b>														
1. Did you gain new insights, skills from this course	1	0	0	0	0	0	9	5.00	1/1520	5.00	4.28	4.31	4.14	5.00
2. Did the instructor make clear the expected goals	0	0	0	0	0	0	10	5.00	1/1520	5.00	4.07	4.27	4.20	5.00
3. Did the exam questions reflect the expected goals	0	0	0	0	0	1	9	4.90	139/1291	4.90	4.05	4.33	4.24	4.90
4. Did other evaluations reflect the expected goals	0	0	0	0	0	1	9	4.90	106/1483	4.90	4.12	4.23	4.09	4.90
5. Did assigned readings contribute to what you learned	0	0	0	0	1	0	9	4.80	119/1417	4.80	3.93	4.08	4.02	4.80
6. Did written assignments contribute to what you learned	0	6	0	0	0	0	4	5.00	1/1405	5.00	4.08	4.12	3.96	5.00
7. Was the grading system clearly explained	0	0	0	0	0	1	9	4.90	77/1504	4.90	4.09	4.16	4.13	4.90
8. How many times was class cancelled	0	0	0	0	0	0	10	5.00	1/1519	5.00	4.80	4.70	4.71	5.00
9. How would you grade the overall teaching effectiveness	2	0	0	0	0	1	7	4.88	102/1495	4.88	3.94	4.11	4.01	4.88
<b>Lecture</b>														
1. Were the instructor's lectures well prepared	0	0	0	0	0	0	10	5.00	1/1459	5.00	4.36	4.47	4.40	5.00
2. Did the instructor seem interested in the subject	0	0	0	0	0	0	10	5.00	1/1460	5.00	4.72	4.74	4.68	5.00
3. Was lecture material presented and explained clearly	0	0	0	0	0	1	9	4.90	163/1455	4.90	4.02	4.32	4.26	4.90
4. Did the lectures contribute to what you learned	0	0	0	0	0	0	10	5.00	1/1456	5.00	4.06	4.34	4.26	5.00
5. Did audiovisual techniques enhance your understanding	0	0	0	0	0	1	9	4.90	80/1316	4.90	3.80	4.03	3.91	4.90
<b>Discussion</b>														
1. Did class discussions contribute to what you learned	3	0	0	0	0	0	7	5.00	1/1243	5.00	3.98	4.17	3.98	5.00
2. Were all students actively encouraged to participate	3	0	0	0	0	0	7	5.00	1/1241	5.00	4.17	4.33	4.14	5.00
3. Did the instructor encourage fair and open discussion	3	0	0	0	0	0	7	5.00	1/1236	5.00	4.11	4.40	4.19	5.00
4. Were special techniques successful	3	1	0	0	0	1	5	4.83	85/889	4.83	4.30	4.02	3.89	4.83

## Student Course Evaluation Questionnaires

<b>Course-Section:</b>	<b>PHYS 122H 01</b>
<b>Title:</b>	<b>Introductory Physics II</b>
<b>Instructor:</b>	<b>Anderson, Eric C</b>

**Term - Fall 2011**

<b>Enrollment:</b>	<b>12</b>
<b>Questionnaires:</b>	<b>10</b>

Questions	NR	NA	Frequencies					Instructor		Course	Org	UMBC	Level	Sect
			1	2	3	4	5	Mean	Rank	Mean	Mean	Mean	Mean	Mean
<b>Laboratory</b>														
1. Did the lab increase understanding of the material	9	0	0	0	0	0	1	5.00	****/164	****	3.56	4.15	4.13	****
2. Were you provided with adequate background information	9	0	0	0	0	0	1	5.00	****/165	****	3.92	4.19	4.31	****
3. Were necessary materials available for lab activities	9	0	0	0	0	0	1	5.00	****/160	****	4.05	4.45	4.49	****
4. Did the lab instructor provide assistance	9	0	0	0	0	0	1	5.00	****/158	****	4.32	4.36	4.43	****
5. Were requirements for lab reports clearly specified	9	0	0	0	0	0	1	5.00	****/150	****	4.20	4.05	4.26	****

### Frequency Distribution

Credits Earned	Cum. GPA	Expected Grades	Reasons	Type	Majors						
00-27	0	0.00-0.99	0	A	4	Required for Majors	8	Graduate	0	Major	4
28-55	3	1.00-1.99	0	B	3						
56-83	2	2.00-2.99	2	C	1	General	0	Under-grad	10	Non-major	6
84-150	0	3.00-3.49	0	D	0						
Grad.	0	3.50-4.00	4	F	0	Electives	1	**** - Means there are not enough responses to be significant			
				P	0						
				I	0	Other	0				
				?	2						

## Student Course Evaluation Questionnaires

<b>Course-Section:</b>	<b>PHYS 122L 03</b>
<b>Title:</b>	<b>Introductory Physics Lab</b>
<b>Instructor:</b>	<b>Asaro,Catherine</b>

**Term - Fall 2011**

<b>Enrollment:</b>	<b>30</b>
<b>Questionnaires:</b>	<b>20</b>

Questions	NR	NA	Frequencies					Instructor		Course	Org	UMBC	Level	Sect
			1	2	3	4	5	Mean	Rank	Mean	Mean	Mean	Mean	Mean
<b>General</b>														
1. Did you gain new insights,skills from this course	1	0	0	1	4	6	8	4.11	1058/1520	4.11	4.28	4.31	4.14	4.11
2. Did the instructor make clear the expected goals	0	0	0	2	7	1	10	3.95	1137/1520	3.95	4.07	4.27	4.20	3.95
3. Did the exam questions reflect the expected goals	0	2	0	1	2	3	12	4.44	636/1291	4.44	4.05	4.33	4.24	4.44
4. Did other evaluations reflect the expected goals	1	0	0	0	2	6	11	4.47	535/1483	4.47	4.12	4.23	4.09	4.47
5. Did assigned readings contribute to what you learned	1	8	0	4	1	2	4	3.55	1167/1417	3.55	3.93	4.08	4.02	3.55
6. Did written assignments contribute to what you learned	2	2	1	1	1	3	10	4.25	656/1405	4.25	4.08	4.12	3.96	4.25
7. Was the grading system clearly explained	0	0	0	1	2	3	14	4.50	437/1504	4.50	4.09	4.16	4.13	4.50
8. How many times was class cancelled	1	0	0	0	1	3	15	4.74	875/1519	4.74	4.80	4.70	4.71	4.74
9. How would you grade the overall teaching effectiveness	7	0	0	1	5	6	1	3.54	1275/1495	3.54	3.94	4.11	4.01	3.54
<b>Lecture</b>														
1. Were the instructor's lectures well prepared	4	0	0	0	6	4	6	4.00	1230/1459	4.00	4.36	4.47	4.40	4.00
2. Did the instructor seem interested in the subject	3	0	0	0	1	3	13	4.71	1001/1460	4.71	4.72	4.74	4.68	4.71
3. Was lecture material presented and explained clearly	3	0	0	1	3	3	10	4.29	885/1455	4.29	4.02	4.32	4.26	4.29
4. Did the lectures contribute to what you learned	3	0	1	2	2	4	8	3.94	1140/1456	3.94	4.06	4.34	4.26	3.94
5. Did audiovisual techniques enhance your understanding	4	8	1	1	0	2	4	3.88	847/1316	3.88	3.80	4.03	3.91	3.88
<b>Discussion</b>														
1. Did class discussions contribute to what you learned	16	0	0	0	1	0	3	4.50	****/1243	****	3.98	4.17	3.98	****
2. Were all students actively encouraged to participate	16	0	0	0	1	0	3	4.50	****/1241	****	4.17	4.33	4.14	****
3. Did the instructor encourage fair and open discussion	16	0	0	0	1	0	3	4.50	****/1236	****	4.11	4.40	4.19	****
4. Were special techniques successful	16	2	0	0	1	0	1	4.00	****/889	****	4.30	4.02	3.89	****

## Student Course Evaluation Questionnaires

<b>Course-Section:</b>	<b>PHYS 122L 03</b>
<b>Title:</b>	<b>Introductory Physics Lab</b>
<b>Instructor:</b>	<b>Asaro,Catherine</b>

**Term - Fall 2011**

<b>Enrollment:</b>	<b>30</b>
<b>Questionnaires:</b>	<b>20</b>

Questions	NR	NA	Frequencies					Instructor		Course	Org	UMBC	Level	Sect
			1	2	3	4	5	Mean	Rank	Mean	Mean	Mean	Mean	Mean
<b>Laboratory</b>														
1. Did the lab increase understanding of the material	10	0	0	2	3	1	4	3.70	129/164	3.70	3.56	4.15	4.13	3.70
2. Were you provided with adequate background information	10	0	0	1	1	1	7	4.40	65/165	4.40	3.92	4.19	4.31	4.40
3. Were necessary materials available for lab activities	10	0	0	0	1	3	6	4.50	86/160	4.50	4.05	4.45	4.49	4.50
4. Did the lab instructor provide assistance	10	0	0	1	2	2	5	4.10	116/158	4.10	4.32	4.36	4.43	4.10
5. Were requirements for lab reports clearly specified	10	0	0	0	0	3	7	4.70	19/150	4.70	4.20	4.05	4.26	4.70

### Frequency Distribution

Credits Earned		Cum. GPA		Expected Grades		Reasons		Type		Majors	
00-27	0	0.00-0.99	0	A	12	Required for Majors	11	Graduate	0	Major	4
28-55	3	1.00-1.99	0	B	2						
56-83	3	2.00-2.99	0	C	0	General	4	Under-grad	20	Non-major	16
84-150	2	3.00-3.49	1	D	0						
Grad.	0	3.50-4.00	10	F	0	Electives	0	**** - Means there are not enough responses to be significant			
				P	0						
				I	0	Other	1				
				?	5						

## Student Course Evaluation Questionnaires

<b>Course-Section:</b>	<b>PHYS 224 01</b>
<b>Title:</b>	<b>Introductory Physics III</b>
<b>Instructor:</b>	<b>Worchesky,Terra</b>

**Term - Fall 2011**

<b>Enrollment:</b>	<b>27</b>
<b>Questionnaires:</b>	<b>18</b>

Questions	NR	NA	Frequencies					Instructor		Course	Org	UMBC	Level	Sect
			1	2	3	4	5	Mean	Rank	Mean	Mean	Mean	Mean	Mean
<b>General</b>														
1. Did you gain new insights,skills from this course	0	0	0	0	1	5	12	4.61	465/1520	4.61	4.28	4.31	4.36	4.61
2. Did the instructor make clear the expected goals	0	0	0	0	2	10	6	4.22	921/1520	4.22	4.07	4.27	4.34	4.22
3. Did the exam questions reflect the expected goals	0	0	0	0	0	11	7	4.39	713/1291	4.39	4.05	4.33	4.44	4.39
4. Did other evaluations reflect the expected goals	0	6	0	0	2	7	3	4.08	970/1483	4.08	4.12	4.23	4.28	4.08
5. Did assigned readings contribute to what you learned	0	4	0	1	2	7	4	4.00	803/1417	4.00	3.93	4.08	4.14	4.00
6. Did written assignments contribute to what you learned	1	11	0	2	0	2	2	3.67	1117/1405	3.67	4.08	4.12	4.13	3.67
7. Was the grading system clearly explained	0	0	0	1	9	4	4	3.61	1287/1504	3.61	4.09	4.16	4.15	3.61
8. How many times was class cancelled	0	0	0	0	0	0	18	5.00	1/1519	5.00	4.80	4.70	4.64	5.00
9. How would you grade the overall teaching effectiveness	2	0	0	0	2	6	8	4.38	520/1495	4.38	3.94	4.11	4.16	4.38
<b>Lecture</b>														
1. Were the instructor's lectures well prepared	0	0	0	0	1	1	16	4.83	321/1459	4.83	4.36	4.47	4.52	4.83
2. Did the instructor seem interested in the subject	0	0	0	0	0	2	16	4.89	596/1460	4.89	4.72	4.74	4.80	4.89
3. Was lecture material presented and explained clearly	0	0	0	0	2	6	10	4.44	711/1455	4.44	4.02	4.32	4.39	4.44
4. Did the lectures contribute to what you learned	0	0	0	0	0	4	14	4.78	356/1456	4.78	4.06	4.34	4.46	4.78
5. Did audiovisual techniques enhance your understanding	0	1	3	0	7	5	2	3.18	1181/1316	3.18	3.80	4.03	4.18	3.18
<b>Discussion</b>														
1. Did class discussions contribute to what you learned	15	0	0	1	2	0	0	2.67	****/1243	****	3.98	4.17	4.22	****
2. Were all students actively encouraged to participate	15	0	0	1	1	1	0	3.00	****/1241	****	4.17	4.33	4.38	****
3. Did the instructor encourage fair and open discussion	15	0	0	1	0	0	2	4.00	****/1236	****	4.11	4.40	4.45	****
<b>Laboratory</b>														
2. Were you provided with adequate background information	17	0	0	1	0	0	0	2.00	****/165	****	3.92	4.19	4.40	****

## Student Course Evaluation Questionnaires

<b>Course-Section:</b>	<b>PHYS 224 01</b>
<b>Title:</b>	<b>Introductory Physics III</b>
<b>Instructor:</b>	<b>Worchesky,Terra</b>

**Term - Fall 2011**

<b>Enrollment:</b>	<b>27</b>
<b>Questionnaires:</b>	<b>18</b>

Questions	NR	NA	Frequencies					Instructor		Course	Org	UMBC	Level	Sect
			1	2	3	4	5	Mean	Rank	Mean	Mean	Mean	Mean	Mean
<b>Seminar</b>														
1. Were assigned topics relevant to the announced theme	17	0	0	1	0	0	0	2.00	****/67	****	4.67	4.60	4.33	****
<b>Field Work</b>														
1. Did field experience contribute to what you learned	17	0	1	0	0	0	0	1.00	****/32	****	****	4.36	4.37	****
2. Did you clearly understand your evaluation criteria	17	0	0	1	0	0	0	2.00	****/31	****	****	4.15	4.11	****
<b>Self Paced</b>														
1. Did self-paced system contribute to what you learned	17	0	1	0	0	0	0	1.00	****/24	****	****	4.17	4.60	****

### Frequency Distribution

Credits Earned	Cum. GPA	Expected Grades	Reasons	Type	Majors
00-27	0	0.00-0.99 1	A 7	Required for Majors	16
28-55	2	1.00-1.99 0	B 3		
56-83	7	2.00-2.99 0	C 5	General	1
84-150	0	3.00-3.49 3	D 0		
Grad.	0	3.50-4.00 10	F 0	Electives	0
			P 0		
			I 0	Other	1
			? 1		

\*\*\*\* - Means there are not enough responses to be significant

## Student Course Evaluation Questionnaires

<b>Course-Section:</b>	<b>PHYS 303 01</b>
<b>Title:</b>	<b>Thermal/Statistical Phys</b>
<b>Instructor:</b>	<b>McCann, Kevin J</b>

**Term - Fall 2011**

<b>Enrollment:</b>	<b>24</b>
<b>Questionnaires:</b>	<b>20</b>

Questions	NR	NA	Frequencies					Instructor		Course	Org	UMBC	Level	Sect
			1	2	3	4	5	Mean	Rank	Mean	Mean	Mean	Mean	Mean
<b>General</b>														
1. Did you gain new insights,skills from this course	1	0	0	0	2	4	13	4.58	517/1520	4.58	4.28	4.31	4.33	4.58
2. Did the instructor make clear the expected goals	0	0	1	0	3	5	11	4.25	893/1520	4.25	4.07	4.27	4.26	4.25
3. Did the exam questions reflect the expected goals	0	0	1	1	3	5	10	4.10	924/1291	4.10	4.05	4.33	4.32	4.10
4. Did other evaluations reflect the expected goals	1	8	1	0	0	4	6	4.27	778/1483	4.27	4.12	4.23	4.25	4.27
5. Did assigned readings contribute to what you learned	1	3	2	1	3	3	7	3.75	1040/1417	3.75	3.93	4.08	4.07	3.75
6. Did written assignments contribute to what you learned	2	6	0	1	2	2	7	4.25	656/1405	4.25	4.08	4.12	4.13	4.25
7. Was the grading system clearly explained	1	1	0	2	1	8	7	4.11	904/1504	4.11	4.09	4.16	4.15	4.11
8. How many times was class cancelled	1	0	0	0	2	2	15	4.68	933/1519	4.68	4.80	4.70	4.69	4.68
9. How would you grade the overall teaching effectiveness	3	0	1	0	3	5	8	4.12	811/1495	4.12	3.94	4.11	4.07	4.12
<b>Lecture</b>														
1. Were the instructor's lectures well prepared	2	0	0	0	2	3	13	4.61	696/1459	4.61	4.36	4.47	4.47	4.61
2. Did the instructor seem interested in the subject	3	0	0	0	1	5	11	4.59	1135/1460	4.59	4.72	4.74	4.72	4.59
3. Was lecture material presented and explained clearly	2	0	0	1	0	5	12	4.56	581/1455	4.56	4.02	4.32	4.31	4.56
4. Did the lectures contribute to what you learned	2	0	0	1	1	3	13	4.56	631/1456	4.56	4.06	4.34	4.32	4.56
5. Did audiovisual techniques enhance your understanding	2	7	0	0	2	4	5	4.27	518/1316	4.27	3.80	4.03	4.08	4.27
<b>Discussion</b>														
1. Did class discussions contribute to what you learned	19	0	0	0	1	0	0	3.00	****/1243	****	3.98	4.17	4.16	****
2. Were all students actively encouraged to participate	19	0	0	0	1	0	0	3.00	****/1241	****	4.17	4.33	4.34	****
3. Did the instructor encourage fair and open discussion	19	0	0	0	1	0	0	3.00	****/1236	****	4.11	4.40	4.41	****

## Student Course Evaluation Questionnaires

<b>Course-Section:</b>	<b>PHYS 303 01</b>
<b>Title:</b>	<b>Thermal/Statistical Phys</b>
<b>Instructor:</b>	<b>McCann, Kevin J</b>

**Term - Fall 2011**

<b>Enrollment:</b>	<b>24</b>
<b>Questionnaires:</b>	<b>20</b>

Questions	NR	NA	Frequencies					Instructor		Course	Org	UMBC	Level	Sect
			1	2	3	4	5	Mean	Rank	Mean	Mean	Mean	Mean	Mean
<b>Discussion</b>														
4. Were special techniques successful	19	0	0	0	1	0	0	3.00	****/889	****	4.30	4.02	4.02	****

### Frequency Distribution

Credits Earned	Cum. GPA	Expected Grades	Reasons	Type	Majors				
00-27	2	0.00-0.99	0 A 6	Required for Majors	16	Graduate	0	Major	13
28-55	0	1.00-1.99	0 B 6						
56-83	3	2.00-2.99	0 C 2	General	0	Under-grad	20	Non-major	7
84-150	3	3.00-3.49	1 D 0						
Grad.	0	3.50-4.00	9 F 0	Electives	1	**** - Means there are not enough responses to be significant			
			P 0						
			I 0	Other	0				
			? 4						



## Student Course Evaluation Questionnaires

<b>Course-Section:</b>	<b>PHYS 304 01</b>
<b>Title:</b>	<b>Fundamentals of Astronom</b>
<b>Instructor:</b>	<b>George,Ian M</b>

**Term - Fall 2011**

<b>Enrollment:</b>	<b>29</b>
<b>Questionnaires:</b>	<b>22</b>

Questions	NR	NA	Frequencies					Instructor		Course	Org	UMBC	Level	Sect
			1	2	3	4	5	Mean	Rank	Mean	Mean	Mean	Mean	Mean
<b>General</b>														
1. Did you gain new insights,skills from this course	0	0	0	1	2	6	13	4.41	755/1520	4.41	4.28	4.31	4.33	4.41
2. Did the instructor make clear the expected goals	0	0	1	3	2	6	10	3.95	1137/1520	3.95	4.07	4.27	4.26	3.95
3. Did the exam questions reflect the expected goals	0	0	1	2	1	6	12	4.18	865/1291	4.18	4.05	4.33	4.32	4.18
4. Did other evaluations reflect the expected goals	0	11	2	2	0	3	4	3.45	1352/1483	3.45	4.12	4.23	4.25	3.45
5. Did assigned readings contribute to what you learned	0	2	1	2	4	7	6	3.75	1040/1417	3.75	3.93	4.08	4.07	3.75
6. Did written assignments contribute to what you learned	0	12	1	1	3	1	4	3.60	1146/1405	3.60	4.08	4.12	4.13	3.60
7. Was the grading system clearly explained	0	0	1	1	3	6	11	4.14	882/1504	4.14	4.09	4.16	4.15	4.14
8. How many times was class cancelled	0	0	0	0	1	19	2	4.05	1423/1519	4.05	4.80	4.70	4.69	4.05
9. How would you grade the overall teaching effectiveness	7	0	1	0	2	11	1	3.73	1151/1495	3.73	3.94	4.11	4.07	3.73
<b>Lecture</b>														
1. Were the instructor's lectures well prepared	2	0	0	0	1	4	15	4.70	552/1459	4.70	4.36	4.47	4.47	4.70
2. Did the instructor seem interested in the subject	2	0	0	0	0	4	16	4.80	806/1460	4.80	4.72	4.74	4.72	4.80
3. Was lecture material presented and explained clearly	2	0	0	0	2	6	12	4.50	637/1455	4.50	4.02	4.32	4.31	4.50
4. Did the lectures contribute to what you learned	2	0	0	0	2	2	16	4.70	453/1456	4.70	4.06	4.34	4.32	4.70
5. Did audiovisual techniques enhance your understanding	3	0	0	0	2	1	16	4.74	157/1316	4.74	3.80	4.03	4.08	4.74
<b>Discussion</b>														
1. Did class discussions contribute to what you learned	18	0	0	0	0	2	2	4.50	****/1243	****	3.98	4.17	4.16	****
2. Were all students actively encouraged to participate	18	0	0	0	0	1	3	4.75	****/1241	****	4.17	4.33	4.34	****
3. Did the instructor encourage fair and open discussion	18	0	0	0	1	0	3	4.50	****/1236	****	4.11	4.40	4.41	****

## Student Course Evaluation Questionnaires

<b>Course-Section:</b> PHYS 304 01	<b>Term - Fall 2011</b>	<b>Enrollment:</b> 29
<b>Title:</b> Fundamentals of Astronom		<b>Questionnaires:</b> 22
<b>Instructor:</b> George,Ian M		

Questions	NR	NA	Frequencies					Instructor		Course	Org	UMBC	Level	Sect
			1	2	3	4	5	Mean	Rank	Mean	Mean	Mean	Mean	Mean
<b>Discussion</b>														
4. Were special techniques successful	18	2	0	0	1	0	1	4.00	****/889	****	4.30	4.02	4.02	****

### Frequency Distribution

Credits Earned		Cum. GPA		Expected Grades		Reasons		Type		Majors	
00-27	0	0.00-0.99	0	A	9	Required for Majors	7	Graduate	0	Major	10
28-55	1	1.00-1.99	0	B	6						
56-83	1	2.00-2.99	3	C	1	General	0	Under-grad	22	Non-major	12
84-150	4	3.00-3.49	3	D	0						
Grad.	0	3.50-4.00	3	F	0	Electives	7	**** - Means there are not enough responses to be significant			
				P	0						
				I	0	Other	2				
				?	6						

## Student Course Evaluation Questionnaires

<b>Course-Section:</b>	<b>PHYS 315 01</b>
<b>Title:</b>	<b>Galaxies &amp; Interstellar</b>
<b>Instructor:</b>	<b>Davis,David S</b>

**Term - Fall 2011**

<b>Enrollment:</b>	<b>18</b>
<b>Questionnaires:</b>	<b>8</b>

Questions	NR	NA	Frequencies					Instructor		Course	Org	UMBC	Level	Sect
			1	2	3	4	5	Mean	Rank	Mean	Mean	Mean	Mean	Mean
<b>General</b>														
1. Did you gain new insights,skills from this course	0	0	0	0	3	4	1	3.75	1302/1520	3.75	4.28	4.31	4.33	3.75
2. Did the instructor make clear the expected goals	0	0	0	3	4	1	0	2.75	1504/1520	2.75	4.07	4.27	4.26	2.75
3. Did the exam questions reflect the expected goals	0	0	0	1	1	5	1	3.75	1099/1291	3.75	4.05	4.33	4.32	3.75
4. Did other evaluations reflect the expected goals	0	2	0	0	2	4	0	3.67	1254/1483	3.67	4.12	4.23	4.25	3.67
5. Did assigned readings contribute to what you learned	0	3	0	0	3	1	1	3.60	1139/1417	3.60	3.93	4.08	4.07	3.60
6. Did written assignments contribute to what you learned	0	5	0	0	2	1	0	3.33	1266/1405	3.33	4.08	4.12	4.13	3.33
7. Was the grading system clearly explained	0	0	0	1	2	1	4	4.00	999/1504	4.00	4.09	4.16	4.15	4.00
8. How many times was class cancelled	0	0	0	0	0	8	0	4.00	1435/1519	4.00	4.80	4.70	4.69	4.00
9. How would you grade the overall teaching effectiveness	0	0	0	0	5	2	1	3.50	1288/1495	3.50	3.94	4.11	4.07	3.50
<b>Lecture</b>														
1. Were the instructor's lectures well prepared	0	0	0	0	0	2	6	4.75	463/1459	4.75	4.36	4.47	4.47	4.75
2. Did the instructor seem interested in the subject	0	0	0	0	0	0	8	5.00	1/1460	5.00	4.72	4.74	4.72	5.00
3. Was lecture material presented and explained clearly	0	0	0	0	4	3	1	3.63	1286/1455	3.63	4.02	4.32	4.31	3.63
4. Did the lectures contribute to what you learned	0	0	0	0	2	3	3	4.13	1039/1456	4.13	4.06	4.34	4.32	4.13

## Student Course Evaluation Questionnaires

<b>Course-Section:</b>	<b>PHYS 315 01</b>
<b>Title:</b>	<b>Galaxies &amp; Interstellar</b>
<b>Instructor:</b>	<b>Davis,David S</b>

**Term - Fall 2011**

<b>Enrollment:</b>	<b>18</b>
<b>Questionnaires:</b>	<b>8</b>

Questions	NR	NA	Frequencies					Instructor		Course	Org	UMBC	Level	Sect
			1	2	3	4	5	Mean	Rank	Mean	Mean	Mean	Mean	Mean
<b>Lecture</b>														
5. Did audiovisual techniques enhance your understanding	0	0	0	0	1	4	3	4.25	538/1316	4.25	3.80	4.03	4.08	4.25

### Frequency Distribution

Credits Earned		Cum. GPA		Expected Grades		Reasons		Type	Majors		
00-27	0	0.00-0.99	0	A	3	Required for Majors	1	Graduate	0	Major	7
28-55	0	1.00-1.99	0	B	0						
56-83	3	2.00-2.99	1	C	2	General	0	Under-grad	8	Non-major	1
84-150	2	3.00-3.49	1	D	0						
Grad.	0	3.50-4.00	5	F	0	Electives	7	**** - Means there are not enough responses to be significant			
				P	0						
				I	0	Other	0				
				?	0						

## Student Course Evaluation Questionnaires

<b>Course-Section:</b>	<b>PHYS 330L 01</b>
<b>Title:</b>	<b>Optics Laboratory</b>
<b>Instructor:</b>	<b>Pittman,Todd B.</b>

**Term - Fall 2011**

<b>Enrollment:</b>	<b>18</b>
<b>Questionnaires:</b>	<b>17</b>

Questions	NR	NA	Frequencies					Instructor		Course	Org	UMBC	Level	Sect
			1	2	3	4	5	Mean	Rank	Mean	Mean	Mean	Mean	Mean
<b>General</b>														
1. Did you gain new insights,skills from this course	0	0	0	0	0	2	15	4.88	158/1520	4.88	4.28	4.31	4.33	4.88
2. Did the instructor make clear the expected goals	0	0	0	0	0	2	15	4.88	130/1520	4.88	4.07	4.27	4.26	4.88
3. Did the exam questions reflect the expected goals	0	16	0	0	0	0	1	5.00	****/1291	****	4.05	4.33	4.32	****
4. Did other evaluations reflect the expected goals	0	0	0	0	0	6	11	4.65	349/1483	4.65	4.12	4.23	4.25	4.65
5. Did assigned readings contribute to what you learned	0	2	0	0	1	3	11	4.67	229/1417	4.67	3.93	4.08	4.07	4.67
6. Did written assignments contribute to what you learned	0	1	0	1	2	4	9	4.31	595/1405	4.31	4.08	4.12	4.13	4.31
7. Was the grading system clearly explained	0	0	0	0	4	1	12	4.47	476/1504	4.47	4.09	4.16	4.15	4.47
8. How many times was class cancelled	0	0	0	0	0	0	17	5.00	1/1519	5.00	4.80	4.70	4.69	5.00
9. How would you grade the overall teaching effectiveness	4	0	1	0	0	3	9	4.46	404/1495	4.46	3.94	4.11	4.07	4.46
<b>Lecture</b>														
1. Were the instructor's lectures well prepared	1	0	0	0	0	4	12	4.75	463/1459	4.75	4.36	4.47	4.47	4.75
2. Did the instructor seem interested in the subject	1	0	0	0	0	0	16	5.00	1/1460	5.00	4.72	4.74	4.72	5.00
3. Was lecture material presented and explained clearly	1	0	0	0	0	3	13	4.81	257/1455	4.81	4.02	4.32	4.31	4.81
4. Did the lectures contribute to what you learned	1	0	0	0	1	3	12	4.69	478/1456	4.69	4.06	4.34	4.32	4.69
5. Did audiovisual techniques enhance your understanding	0	4	0	1	4	3	5	3.92	809/1316	3.92	3.80	4.03	4.08	3.92
<b>Laboratory</b>														
1. Did the lab increase understanding of the material	0	2	0	0	1	1	13	4.80	20/164	4.80	3.56	4.15	4.12	4.80
2. Were you provided with adequate background information	0	0	0	0	1	1	15	4.82	17/165	4.82	3.92	4.19	4.15	4.82
3. Were necessary materials available for lab activities	0	0	0	0	1	2	14	4.76	41/160	4.76	4.05	4.45	4.47	4.76
4. Did the lab instructor provide assistance	0	0	0	0	0	1	16	4.94	11/158	4.94	4.32	4.36	4.31	4.94

## Student Course Evaluation Questionnaires

<b>Course-Section:</b>	<b>PHYS 330L 01</b>
<b>Title:</b>	<b>Optics Laboratory</b>
<b>Instructor:</b>	<b>Pittman, Todd B.</b>

**Term - Fall 2011**

<b>Enrollment:</b>	<b>18</b>
<b>Questionnaires:</b>	<b>17</b>

Questions	NR	NA	Frequencies					Instructor		Course	Org	UMBC	Level	Sect
			1	2	3	4	5	Mean	Rank	Mean	Mean	Mean	Mean	Mean
<b>Laboratory</b>														
5. Were requirements for lab reports clearly specified	0	0	0	0	2	2	13	4.65	23/150	4.65	4.20	4.05	3.98	4.65

### Frequency Distribution

Credits Earned		Cum. GPA		Expected Grades		Reasons		Type		Majors	
00-27	0	0.00-0.99	0	A	6	Required for Majors	15	Graduate	0	Major	15
28-55	1	1.00-1.99	0	B	7						
56-83	1	2.00-2.99	2	C	0	General	1	Under-grad	17	Non-major	2
84-150	2	3.00-3.49	1	D	0						
Grad.	0	3.50-4.00	9	F	0	Electives	0	**** - Means there are not enough responses to be significant			
				P	0						
				I	0	Other	0				
				?	2						

## Student Course Evaluation Questionnaires

<b>Course-Section:</b>	<b>PHYS 407 01</b>
<b>Title:</b>	<b>Electromagnetic Theory</b>
<b>Instructor:</b>	<b>McCann, Kevin J</b>

**Term - Fall 2011**

<b>Enrollment:</b>	<b>27</b>
<b>Questionnaires:</b>	<b>20</b>

Questions	NR	NA	Frequencies					Instructor		Course	Org	UMBC	Level	Sect
			1	2	3	4	5	Mean	Rank	Mean	Mean	Mean	Mean	Mean
<b>General</b>														
1. Did you gain new insights,skills from this course	1	0	0	0	1	6	12	4.58	517/1520	4.58	4.28	4.31	4.44	4.58
2. Did the instructor make clear the expected goals	1	0	0	0	2	7	10	4.42	695/1520	4.42	4.07	4.27	4.32	4.42
3. Did the exam questions reflect the expected goals	1	0	1	1	2	4	11	4.21	844/1291	4.21	4.05	4.33	4.38	4.21
4. Did other evaluations reflect the expected goals	1	8	0	0	1	3	7	4.55	455/1483	4.55	4.12	4.23	4.33	4.55
5. Did assigned readings contribute to what you learned	1	5	0	0	1	4	9	4.57	306/1417	4.57	3.93	4.08	4.12	4.57
6. Did written assignments contribute to what you learned	1	11	0	0	0	5	3	4.38	535/1405	4.38	4.08	4.12	4.25	4.38
7. Was the grading system clearly explained	2	0	0	2	2	7	7	4.06	957/1504	4.06	4.09	4.16	4.21	4.06
8. How many times was class cancelled	2	0	0	0	2	1	15	4.72	887/1519	4.72	4.80	4.70	4.70	4.72
9. How would you grade the overall teaching effectiveness	4	0	0	0	1	5	10	4.56	297/1495	4.56	3.94	4.11	4.21	4.56
<b>Lecture</b>														
1. Were the instructor's lectures well prepared	1	0	0	0	0	7	12	4.63	664/1459	4.63	4.36	4.47	4.54	4.63
2. Did the instructor seem interested in the subject	2	0	0	0	1	5	12	4.61	1108/1460	4.61	4.72	4.74	4.78	4.61
3. Was lecture material presented and explained clearly	2	0	0	0	3	5	10	4.39	784/1455	4.39	4.02	4.32	4.37	4.39
4. Did the lectures contribute to what you learned	2	0	0	0	0	3	15	4.83	280/1456	4.83	4.06	4.34	4.41	4.83
5. Did audiovisual techniques enhance your understanding	1	15	0	0	0	1	3	4.75	****/1316	****	3.80	4.03	4.12	****
<b>Discussion</b>														
1. Did class discussions contribute to what you learned	18	0	0	0	1	0	1	4.00	****/1243	****	3.98	4.17	4.42	****
2. Were all students actively encouraged to participate	18	0	0	0	0	0	2	5.00	****/1241	****	4.17	4.33	4.56	****
3. Did the instructor encourage fair and open discussion	18	0	0	0	0	0	2	5.00	****/1236	****	4.11	4.40	4.64	****
4. Were special techniques successful	18	1	0	0	0	0	1	5.00	****/889	****	4.30	4.02	4.26	****

## Student Course Evaluation Questionnaires

<b>Course-Section:</b>	<b>PHYS 407 01</b>
<b>Title:</b>	<b>Electromagnetic Theory</b>
<b>Instructor:</b>	<b>McCann, Kevin J</b>

**Term - Fall 2011**

<b>Enrollment:</b>	<b>27</b>
<b>Questionnaires:</b>	<b>20</b>

Questions	NR	NA	Frequencies					Instructor		Course	Org	UMBC	Level	Sect
			1	2	3	4	5	Mean	Rank	Mean	Mean	Mean	Mean	Mean
<b>Laboratory</b>														
1. Did the lab increase understanding of the material	19	0	0	0	0	1	0	4.00	****/164	****	3.56	4.15	4.36	****
2. Were you provided with adequate background information	19	0	0	0	0	0	1	5.00	****/165	****	3.92	4.19	4.23	****
3. Were necessary materials available for lab activities	19	0	0	0	1	0	0	3.00	****/160	****	4.05	4.45	4.25	****
5. Were requirements for lab reports clearly specified	19	0	0	0	0	0	1	5.00	****/150	****	4.20	4.05	3.93	****
<b>Seminar</b>														
1. Were assigned topics relevant to the announced theme	19	0	0	0	0	0	1	5.00	****/67	****	4.67	4.60	4.59	****
2. Was the instructor available for individual attention	19	0	0	0	0	0	1	5.00	****/66	****	4.38	4.55	4.60	****
3. Did research projects contribute to what you learned	19	0	0	0	1	0	0	3.00	****/62	****	4.38	4.54	4.60	****
4. Did presentations contribute to what you learned	19	0	0	0	0	0	1	5.00	****/68	****	4.56	4.59	4.56	****
5. Were criteria for grading made clear	19	0	0	0	1	0	0	3.00	****/66	****	4.56	4.20	4.19	****
<b>Field Work</b>														
1. Did field experience contribute to what you learned	18	0	0	0	0	0	2	5.00	****/32	****	****	4.36	4.50	****
2. Did you clearly understand your evaluation criteria	18	0	0	0	0	1	1	4.50	****/31	****	****	4.15	4.21	****
3. Was the instructor available for consultation	18	0	0	0	1	0	1	4.00	****/23	****	****	4.48	4.33	****
4. To what degree could you discuss your evaluations	18	0	0	0	1	0	1	4.00	****/27	****	****	4.23	4.04	****



## Student Course Evaluation Questionnaires

<b>Course-Section:</b>	<b>PHYS 407 01</b>
<b>Title:</b>	<b>Electromagnetic Theory</b>
<b>Instructor:</b>	<b>McCann, Kevin J</b>

**Term - Fall 2011**

<b>Enrollment:</b>	<b>27</b>
<b>Questionnaires:</b>	<b>20</b>

Questions	NR	NA	Frequencies					Instructor		Course	Org	UMBC	Level	Sect
			1	2	3	4	5	Mean	Rank	Mean	Mean	Mean	Mean	Mean
<b>Field Work</b>														
5. Did conferences help you carry out field activities	18	0	0	0	0	0	2	5.00	****/20	****	****	4.23	4.01	****

### Frequency Distribution

Credits Earned		Cum. GPA		Expected Grades		Reasons		Type		Majors	
00-27	0	0.00-0.99	0	A	7	Required for Majors	17	Graduate	0	Major	12
28-55	0	1.00-1.99	0	B	4						
56-83	0	2.00-2.99	2	C	4	General	0	Under-grad	20	Non-major	8
84-150	6	3.00-3.49	0	D	0						
Grad.	0	3.50-4.00	7	F	0	Electives	1	**** - Means there are not enough responses to be significant			
				P	0						
				I	0	Other	0				
				?	2						

## Student Course Evaluation Questionnaires

<b>Course-Section:</b>	<b>PHYS 431L 02</b>
<b>Title:</b>	<b>Modern Physics Lab</b>
<b>Instructor:</b>	<b>Wu,E S</b>

**Term - Fall 2011**

<b>Enrollment:</b>	<b>9</b>
<b>Questionnaires:</b>	<b>9</b>

Questions	NR	NA	Frequencies					Instructor		Course	Org	UMBC	Level	Sect
			1	2	3	4	5	Mean	Rank	Mean	Mean	Mean	Mean	Mean
<b>General</b>														
1. Did you gain new insights,skills from this course	0	0	0	0	0	2	7	4.78	265/1520	4.78	4.28	4.31	4.44	4.78
2. Did the instructor make clear the expected goals	0	0	0	0	0	6	3	4.33	809/1520	4.33	4.07	4.27	4.32	4.33
3. Did the exam questions reflect the expected goals	0	7	0	0	0	0	2	5.00	****/1291	****	4.05	4.33	4.38	****
4. Did other evaluations reflect the expected goals	0	0	0	1	1	3	4	4.11	949/1483	4.11	4.12	4.23	4.33	4.11
5. Did assigned readings contribute to what you learned	0	0	0	0	3	1	5	4.22	641/1417	4.22	3.93	4.08	4.12	4.22
6. Did written assignments contribute to what you learned	0	0	0	0	0	2	7	4.78	155/1405	4.78	4.08	4.12	4.25	4.78
7. Was the grading system clearly explained	0	0	0	0	0	7	2	4.22	781/1504	4.22	4.09	4.16	4.21	4.22
8. How many times was class cancelled	0	0	0	0	2	2	5	4.33	1260/1519	4.33	4.80	4.70	4.70	4.33
9. How would you grade the overall teaching effectiveness	1	0	0	0	0	4	4	4.50	351/1495	4.50	3.94	4.11	4.21	4.50
<b>Lecture</b>														
1. Were the instructor's lectures well prepared	6	0	0	0	0	1	2	4.67	616/1459	4.67	4.36	4.47	4.54	4.67
2. Did the instructor seem interested in the subject	3	0	0	0	0	1	5	4.83	727/1460	4.83	4.72	4.74	4.78	4.83
3. Was lecture material presented and explained clearly	6	0	0	0	0	2	1	4.33	842/1455	4.33	4.02	4.32	4.37	4.33
4. Did the lectures contribute to what you learned	6	0	0	0	0	2	1	4.33	866/1456	4.33	4.06	4.34	4.41	4.33
5. Did audiovisual techniques enhance your understanding	5	2	0	0	1	1	0	3.50	****/1316	****	3.80	4.03	4.12	****
<b>Laboratory</b>														
1. Did the lab increase understanding of the material	3	1	0	0	0	1	4	4.80	20/164	4.80	3.56	4.15	4.36	4.80
2. Were you provided with adequate background information	3	0	0	0	0	3	3	4.50	54/165	4.50	3.92	4.19	4.23	4.50
3. Were necessary materials available for lab activities	3	0	0	0	1	3	2	4.17	128/160	4.17	4.05	4.45	4.25	4.17
4. Did the lab instructor provide assistance	3	0	0	0	0	1	5	4.83	33/158	4.83	4.32	4.36	4.49	4.83

## Student Course Evaluation Questionnaires

<b>Course-Section:</b> PHYS 431L 02	<b>Term - Fall 2011</b>	<b>Enrollment:</b> 9
<b>Title:</b> Modern Physics Lab		<b>Questionnaires:</b> 9
<b>Instructor:</b> Wu,E S		

Questions	NR	NA	Frequencies					Instructor		Course	Org	UMBC	Level	Sect	
			1	2	3	4	5	Mean	Rank	Mean	Mean	Mean	Mean	Mean	
<b>Laboratory</b>															
5. Were requirements for lab reports clearly specified	3	0	0	0	0	1	5	4.83	12/150	4.83	4.20	4.05	3.93	4.83	

### Frequency Distribution

Credits Earned	Cum. GPA	Expected Grades	Reasons	Type	Majors
00-27	1	0.00-0.99 0	A 7 Required for Majors	Graduate	Major 9
28-55	0	1.00-1.99 0	B 1		
56-83	0	2.00-2.99 0	C 0 General	Under-grad	Non-major 0
84-150	3	3.00-3.49 1	D 0		
Grad.	0	3.50-4.00 3	F 0 Electives		
			P 0		
			I 0 Other		
			? 0		

\*\*\*\* - Means there are not enough responses to be significant

## Student Course Evaluation Questionnaires

<b>Course-Section:</b>	<b>PHYS 601 01</b>
<b>Title:</b>	<b>Quantum Mechanics</b>
<b>Instructor:</b>	<b>Franson,James D</b>

**Term - Fall 2011**

<b>Enrollment:</b>	<b>14</b>
<b>Questionnaires:</b>	<b>14</b>

Questions	NR	NA	Frequencies					Instructor		Course	Org	UMBC	Level	Sect
			1	2	3	4	5	Mean	Rank	Mean	Mean	Mean	Mean	Mean
<b>General</b>														
1. Did you gain new insights,skills from this course	1	0	0	0	2	3	8	4.46	666/1520	4.46	4.28	4.31	4.39	4.46
2. Did the instructor make clear the expected goals	1	0	0	0	0	6	7	4.54	541/1520	4.54	4.07	4.27	4.28	4.54
3. Did the exam questions reflect the expected goals	1	0	0	0	2	4	7	4.38	713/1291	4.38	4.05	4.33	4.38	4.38
4. Did other evaluations reflect the expected goals	1	4	0	0	0	4	5	4.56	446/1483	4.56	4.12	4.23	4.25	4.56
5. Did assigned readings contribute to what you learned	1	0	0	2	3	4	4	3.77	1034/1417	3.77	3.93	4.08	4.13	3.77
6. Did written assignments contribute to what you learned	1	2	0	1	0	5	5	4.27	635/1405	4.27	4.08	4.12	4.24	4.27
7. Was the grading system clearly explained	1	0	0	0	1	4	8	4.54	405/1504	4.54	4.09	4.16	4.21	4.54
8. How many times was class cancelled	1	0	0	0	0	0	13	5.00	1/1519	5.00	4.80	4.70	4.77	5.00
9. How would you grade the overall teaching effectiveness	4	0	0	0	0	5	5	4.50	351/1495	4.50	3.94	4.11	4.20	4.50
<b>Lecture</b>														
1. Were the instructor's lectures well prepared	2	0	0	0	0	2	10	4.83	321/1459	4.83	4.36	4.47	4.48	4.83
2. Did the instructor seem interested in the subject	1	0	0	1	0	4	8	4.46	1224/1460	4.46	4.72	4.74	4.77	4.46
3. Was lecture material presented and explained clearly	1	0	0	0	0	4	9	4.69	413/1455	4.69	4.02	4.32	4.31	4.69
4. Did the lectures contribute to what you learned	1	0	0	0	2	1	10	4.62	566/1456	4.62	4.06	4.34	4.32	4.62
5. Did audiovisual techniques enhance your understanding	2	2	1	0	1	3	5	4.10	668/1316	4.10	3.80	4.03	3.86	4.10
<b>Discussion</b>														
1. Did class discussions contribute to what you learned	8	0	1	0	1	1	3	3.83	886/1243	3.83	3.98	4.17	4.23	3.83
2. Were all students actively encouraged to participate	8	0	1	0	0	1	4	4.17	837/1241	4.17	4.17	4.33	4.39	4.17
3. Did the instructor encourage fair and open discussion	8	0	2	0	0	0	4	3.67	1091/1236	3.67	4.11	4.40	4.47	3.67

## Student Course Evaluation Questionnaires

<b>Course-Section:</b>	<b>PHYS 601 01</b>
<b>Title:</b>	<b>Quantum Mechanics</b>
<b>Instructor:</b>	<b>Franson,James D</b>

**Term - Fall 2011**

<b>Enrollment:</b>	<b>14</b>
<b>Questionnaires:</b>	<b>14</b>

Questions	NR	NA	Frequencies					Instructor		Course	Org	UMBC	Level	Sect
			1	2	3	4	5	Mean	Rank	Mean	Mean	Mean	Mean	Mean
<b>Discussion</b>														
4. Were special techniques successful	8	5	0	0	0	1	0	4.00	****/889	****	4.30	4.02	4.06	****

### Frequency Distribution

Credits Earned		Cum. GPA		Expected Grades		Reasons		Type		Majors	
00-27	1	0.00-0.99	0	A	5	Required for Majors	11	Graduate	6	Major	6
28-55	0	1.00-1.99	0	B	7						
56-83	0	2.00-2.99	0	C	1	General	0	Under-grad	8	Non-major	8
84-150	0	3.00-3.49	1	D	0						
Grad.	6	3.50-4.00	1	F	0	Electives	1	**** - Means there are not enough responses to be significant			
				P	0						
				I	0	Other	1				
				?	1						

## Student Course Evaluation Questionnaires

<b>Course-Section:</b>	<b>PHYS 602 01</b>
<b>Title:</b>	<b>Statistical Mechanics</b>
<b>Instructor:</b>	<b>Sparling,Lynn C</b>

**Term - Fall 2011**

<b>Enrollment:</b>	<b>7</b>
<b>Questionnaires:</b>	<b>5</b>

Questions	NR	NA	Frequencies					Instructor		Course	Org	UMBC	Level	Sect
			1	2	3	4	5	Mean	Rank	Mean	Mean	Mean	Mean	Mean
<b>General</b>														
1. Did you gain new insights,skills from this course	0	0	0	0	1	3	1	4.00	1118/1520	4.00	4.28	4.31	4.39	4.00
2. Did the instructor make clear the expected goals	0	0	0	2	2	1	0	2.80	1502/1520	2.80	4.07	4.27	4.28	2.80
3. Did the exam questions reflect the expected goals	0	0	0	0	2	2	1	3.80	1078/1291	3.80	4.05	4.33	4.38	3.80
4. Did other evaluations reflect the expected goals	0	0	0	0	1	4	0	3.80	1183/1483	3.80	4.12	4.23	4.25	3.80
5. Did assigned readings contribute to what you learned	0	0	0	1	0	4	0	3.60	1139/1417	3.60	3.93	4.08	4.13	3.60
6. Did written assignments contribute to what you learned	0	0	0	0	0	4	1	4.20	708/1405	4.20	4.08	4.12	4.24	4.20
7. Was the grading system clearly explained	0	0	3	1	1	0	0	1.60	1499/1504	1.60	4.09	4.16	4.21	1.60
8. How many times was class cancelled	0	0	0	0	0	0	5	5.00	1/1519	5.00	4.80	4.70	4.77	5.00
9. How would you grade the overall teaching effectiveness	3	0	0	0	1	0	1	4.00	891/1495	4.00	3.94	4.11	4.20	4.00
<b>Lecture</b>														
1. Were the instructor's lectures well prepared	1	0	0	2	1	0	1	3.00	1437/1459	3.00	4.36	4.47	4.48	3.00
2. Did the instructor seem interested in the subject	1	0	0	0	0	0	4	5.00	1/1460	5.00	4.72	4.74	4.77	5.00
3. Was lecture material presented and explained clearly	1	0	0	0	3	1	0	3.25	1370/1455	3.25	4.02	4.32	4.31	3.25

## Student Course Evaluation Questionnaires

<b>Course-Section:</b>	<b>PHYS 602 01</b>
<b>Title:</b>	<b>Statistical Mechanics</b>
<b>Instructor:</b>	<b>Sparling,Lynn C</b>

**Term - Fall 2011**

<b>Enrollment:</b>	<b>7</b>
<b>Questionnaires:</b>	<b>5</b>

Questions	NR	NA	Frequencies					Instructor		Course	Org	UMBC	Level	Sect
			1	2	3	4	5	Mean	Rank	Mean	Mean	Mean	Mean	Mean
<b>Lecture</b>														
4. Did the lectures contribute to what you learned	2	0	0	0	1	2	0	3.67	1265/1456	3.67	4.06	4.34	4.32	3.67

### Frequency Distribution

Credits Earned		Cum. GPA		Expected Grades		Reasons		Type	Majors		
00-27	0	0.00-0.99	0	A	1	Required for Majors	4	Graduate	2	Major	3
28-55	0	1.00-1.99	0	B	3						
56-83	0	2.00-2.99	0	C	0	General	0	Under-grad	3	Non-major	2
84-150	0	3.00-3.49	1	D	0						
Grad.	2	3.50-4.00	1	F	0	Electives	0	**** - Means there are not enough responses to be significant			
				P	0						
				I	0	Other	0				
				?	1						

## Student Course Evaluation Questionnaires

<b>Course-Section:</b>	<b>PHYS 604 1</b>
<b>Title:</b>	<b>Solid State I</b>
<b>Instructor:</b>	<b>Takacs,Laszlo</b>

**Term - Fall 2011**

<b>Enrollment:</b>	<b>2</b>
<b>Questionnaires:</b>	<b>2</b>

Questions	NR	NA	Frequencies					Instructor		Course	Org	UMBC	Level	Sect
			1	2	3	4	5	Mean	Rank	Mean	Mean	Mean	Mean	Mean
<b>General</b>														
1. Did you gain new insights,skills from this course	0	0	0	0	0	0	2	5.00	1/1520	5.00	4.28	4.31	4.39	5.00
2. Did the instructor make clear the expected goals	0	0	0	0	0	1	1	4.50	584/1520	4.50	4.07	4.27	4.28	4.50
3. Did the exam questions reflect the expected goals	0	0	0	1	0	0	1	3.50	1182/1291	3.50	4.05	4.33	4.38	3.50
4. Did other evaluations reflect the expected goals	0	1	0	0	0	0	1	5.00	1/1483	5.00	4.12	4.23	4.25	5.00
5. Did assigned readings contribute to what you learned	0	0	0	0	0	0	2	5.00	1/1417	5.00	3.93	4.08	4.13	5.00
6. Did written assignments contribute to what you learned	0	0	0	0	0	1	1	4.50	385/1405	4.50	4.08	4.12	4.24	4.50
7. Was the grading system clearly explained	0	0	0	0	1	0	1	4.00	999/1504	4.00	4.09	4.16	4.21	4.00
8. How many times was class cancelled	0	0	0	0	0	0	2	5.00	1/1519	5.00	4.80	4.70	4.77	5.00
9. How would you grade the overall teaching effectiveness	1	0	0	0	0	1	0	4.00	891/1495	4.00	3.94	4.11	4.20	4.00
<b>Lecture</b>														
1. Were the instructor's lectures well prepared	0	0	0	0	0	1	1	4.50	833/1459	4.50	4.36	4.47	4.48	4.50
2. Did the instructor seem interested in the subject	0	0	0	0	0	0	2	5.00	1/1460	5.00	4.72	4.74	4.77	5.00
3. Was lecture material presented and explained clearly	0	0	0	0	0	2	0	4.00	1075/1455	4.00	4.02	4.32	4.31	4.00



## Student Course Evaluation Questionnaires

<b>Course-Section:</b>	<b>PHYS 604 1</b>
<b>Title:</b>	<b>Solid State I</b>
<b>Instructor:</b>	<b>Takacs,Laszlo</b>

**Term - Fall 2011**

<b>Enrollment:</b>	<b>2</b>
<b>Questionnaires:</b>	<b>2</b>

Questions	NR	NA	Frequencies					Instructor		Course	Org	UMBC	Level	Sect
			1	2	3	4	5	Mean	Rank	Mean	Mean	Mean	Mean	Mean
<b>Lecture</b>														
4. Did the lectures contribute to what you learned	0	0	0	0	1	0	1	4.00	1094/1456	4.00	4.06	4.34	4.32	4.00

### Frequency Distribution

Credits Earned	Cum. GPA	Expected Grades	Reasons	Type	Majors						
00-27	0	0.00-0.99	0	A	0	Required for Majors	0	Graduate	1	Major	2
28-55	0	1.00-1.99	0	B	1						
56-83	0	2.00-2.99	0	C	0	General	0	Under-grad	1	Non-major	0
84-150	0	3.00-3.49	0	D	0						
Grad.	1	3.50-4.00	1	F	0	Electives	1	**** - Means there are not enough responses to be significant			
				P	0						
				I	0	Other	0				
				?	1						

## Student Course Evaluation Questionnaires

<b>Course-Section:</b>	<b>PHYS 605 01</b>
<b>Title:</b>	<b>Mathematical Physics I</b>
<b>Instructor:</b>	<b>Georganopoulos,</b>

**Term - Fall 2011**

<b>Enrollment:</b>	<b>17</b>
<b>Questionnaires:</b>	<b>16</b>

Questions	NR	NA	Frequencies					Instructor		Course	Org	UMBC	Level	Sect
			1	2	3	4	5	Mean	Rank	Mean	Mean	Mean	Mean	Mean
<b>General</b>														
1. Did you gain new insights,skills from this course	0	0	0	0	1	4	11	4.63	452/1520	4.63	4.28	4.31	4.39	4.63
2. Did the instructor make clear the expected goals	0	0	0	0	3	4	9	4.38	760/1520	4.38	4.07	4.27	4.28	4.38
3. Did the exam questions reflect the expected goals	0	0	0	0	3	5	8	4.31	773/1291	4.31	4.05	4.33	4.38	4.31
4. Did other evaluations reflect the expected goals	0	2	0	0	0	9	5	4.36	691/1483	4.36	4.12	4.23	4.25	4.36
5. Did assigned readings contribute to what you learned	0	1	1	0	5	3	6	3.87	963/1417	3.87	3.93	4.08	4.13	3.87
6. Did written assignments contribute to what you learned	0	6	0	0	0	3	7	4.70	204/1405	4.70	4.08	4.12	4.24	4.70
7. Was the grading system clearly explained	0	0	0	1	0	2	13	4.69	252/1504	4.69	4.09	4.16	4.21	4.69
8. How many times was class cancelled	0	0	0	0	0	1	15	4.94	414/1519	4.94	4.80	4.70	4.77	4.94
9. How would you grade the overall teaching effectiveness	3	0	0	1	0	5	7	4.38	508/1495	4.38	3.94	4.11	4.20	4.38
<b>Lecture</b>														
1. Were the instructor's lectures well prepared	0	0	0	0	2	3	11	4.56	760/1459	4.56	4.36	4.47	4.48	4.56
2. Did the instructor seem interested in the subject	0	0	0	1	2	3	10	4.38	1283/1460	4.38	4.72	4.74	4.77	4.38
3. Was lecture material presented and explained clearly	0	0	0	1	2	9	4	4.00	1075/1455	4.00	4.02	4.32	4.31	4.00
4. Did the lectures contribute to what you learned	0	0	0	0	2	4	10	4.50	683/1456	4.50	4.06	4.34	4.32	4.50
5. Did audiovisual techniques enhance your understanding	0	10	1	2	3	0	0	2.33	1298/1316	2.33	3.80	4.03	3.86	2.33
<b>Discussion</b>														
1. Did class discussions contribute to what you learned	13	0	1	0	1	1	0	2.67	****/1243	****	3.98	4.17	4.23	****
2. Were all students actively encouraged to participate	13	0	0	1	1	0	1	3.33	****/1241	****	4.17	4.33	4.39	****
3. Did the instructor encourage fair and open discussion	13	0	0	0	2	0	1	3.67	****/1236	****	4.11	4.40	4.47	****

## Student Course Evaluation Questionnaires

<b>Course-Section:</b> PHYS 605 01	<b>Term - Fall 2011</b>	<b>Enrollment:</b> 17
<b>Title:</b> Mathematical Physics I		<b>Questionnaires:</b> 16
<b>Instructor:</b> Georganopoulos,		

Questions	NR	NA	Frequencies					Instructor		Course	Org	UMBC	Level	Sect
			1	2	3	4	5	Mean	Rank	Mean	Mean	Mean	Mean	Mean
<b>Discussion</b>														
4. Were special techniques successful	13	2	0	0	1	0	0	3.00	****/889	****	4.30	4.02	4.06	****

### Frequency Distribution

Credits Earned		Cum. GPA		Expected Grades		Reasons		Type		Majors	
00-27	1	0.00-0.99	0	A	6	Required for Majors	10	Graduate	6	Major	11
28-55	0	1.00-1.99	0	B	4						
56-83	0	2.00-2.99	1	C	3	General	1	Under-grad	10	Non-major	5
84-150	2	3.00-3.49	1	D	0						
Grad.	6	3.50-4.00	0	F	0	Electives	4	**** - Means there are not enough responses to be significant			
				P	0						
				I	0	Other	0				
				?	2						

## Student Course Evaluation Questionnaires

<b>Course-Section:</b>	<b>PHYS 606 01</b>
<b>Title:</b>	<b>Classical Mechanics</b>
<b>Instructor:</b>	<b>Shih,Yan-hua</b>

**Term - Fall 2011**

<b>Enrollment:</b>	<b>8</b>
<b>Questionnaires:</b>	<b>8</b>

Questions	NR	NA	Frequencies					Instructor		Course	Org	UMBC	Level	Sect
			1	2	3	4	5	Mean	Rank	Mean	Mean	Mean	Mean	Mean
<b>General</b>														
1. Did you gain new insights,skills from this course	1	0	1	2	1	3	0	2.86	1503/1520	2.86	4.28	4.31	4.39	2.86
2. Did the instructor make clear the expected goals	1	0	0	1	5	0	1	3.14	1452/1520	3.14	4.07	4.27	4.28	3.14
3. Did the exam questions reflect the expected goals	1	0	0	0	0	6	1	4.14	894/1291	4.14	4.05	4.33	4.38	4.14
4. Did other evaluations reflect the expected goals	1	2	0	2	2	1	0	2.80	1464/1483	2.80	4.12	4.23	4.25	2.80
5. Did assigned readings contribute to what you learned	1	2	1	2	2	0	0	2.20	1407/1417	2.20	3.93	4.08	4.13	2.20
6. Did written assignments contribute to what you learned	1	0	1	1	3	2	0	2.86	1362/1405	2.86	4.08	4.12	4.24	2.86
7. Was the grading system clearly explained	1	0	1	2	3	1	0	2.57	1475/1504	2.57	4.09	4.16	4.21	2.57
8. How many times was class cancelled	1	0	0	0	0	0	7	5.00	1/1519	5.00	4.80	4.70	4.77	5.00
9. How would you grade the overall teaching effectiveness	3	0	0	3	1	1	0	2.60	1477/1495	2.60	3.94	4.11	4.20	2.60
<b>Lecture</b>														
1. Were the instructor's lectures well prepared	1	0	0	2	3	2	0	3.00	1437/1459	3.00	4.36	4.47	4.48	3.00
2. Did the instructor seem interested in the subject	1	0	0	0	1	3	3	4.29	1326/1460	4.29	4.72	4.74	4.77	4.29
3. Was lecture material presented and explained clearly	1	0	1	1	5	0	0	2.57	1442/1455	2.57	4.02	4.32	4.31	2.57
4. Did the lectures contribute to what you learned	1	0	1	4	2	0	0	2.14	1452/1456	2.14	4.06	4.34	4.32	2.14
5. Did audiovisual techniques enhance your understanding	1	5	2	0	0	0	0	1.00	1314/1316	1.00	3.80	4.03	3.86	1.00
<b>Discussion</b>														
1. Did class discussions contribute to what you learned	6	0	0	0	2	0	0	3.00	1187/1243	3.00	3.98	4.17	4.23	3.00
2. Were all students actively encouraged to participate	6	0	0	1	0	0	1	3.50	1135/1241	3.50	4.17	4.33	4.39	3.50
3. Did the instructor encourage fair and open discussion	6	0	1	0	0	0	1	3.00	1206/1236	3.00	4.11	4.40	4.47	3.00

## Student Course Evaluation Questionnaires

<b>Course-Section:</b> PHYS 606 01	<b>Term - Fall 2011</b>	<b>Enrollment:</b> 8
<b>Title:</b> Classical Mechanics		<b>Questionnaires:</b> 8
<b>Instructor:</b> Shih,Yan-hua		

Questions	NR	NA	Frequencies					Instructor		Course	Org	UMBC	Level	Sect
			1	2	3	4	5	Mean	Rank	Mean	Mean	Mean	Mean	Mean
<b>Discussion</b>														
4. Were special techniques successful	6	1	0	0	1	0	0	3.00	****/889	****	4.30	4.02	4.06	****

### Frequency Distribution

Credits Earned		Cum. GPA		Expected Grades		Reasons		Type	Majors		
00-27	2	0.00-0.99	0	A	2	Required for Majors	6	Graduate	4	Major	7
28-55	0	1.00-1.99	0	B	3						
56-83	0	2.00-2.99	0	C	0	General	0	Under-grad	4	Non-major	1
84-150	0	3.00-3.49	1	D	0						
Grad.	4	3.50-4.00	0	F	0	Electives	1	**** - Means there are not enough responses to be significant			
				P	0						
				I	0	Other	0				
				?	3						

## Student Course Evaluation Questionnaires

<b>Course-Section:</b>	<b>PHYS 621 01</b>
<b>Title:</b>	<b>Atmos Physics I</b>
<b>Instructor:</b>	<b>Zhang,Zhibo</b>

**Term - Fall 2011**

<b>Enrollment:</b>	<b>6</b>
<b>Questionnaires:</b>	<b>6</b>

Questions	NR	NA	Frequencies					Instructor		Course	Org	UMBC	Level	Sect
			1	2	3	4	5	Mean	Rank	Mean	Mean	Mean	Mean	Mean
<b>General</b>														
1. Did you gain new insights,skills from this course	0	0	0	0	0	2	4	4.67	399/1520	4.67	4.28	4.31	4.39	4.67
2. Did the instructor make clear the expected goals	0	0	0	0	1	2	3	4.33	809/1520	4.33	4.07	4.27	4.28	4.33
3. Did the exam questions reflect the expected goals	0	0	0	1	2	3	0	3.33	1231/1291	3.33	4.05	4.33	4.38	3.33
4. Did other evaluations reflect the expected goals	0	1	0	0	0	3	2	4.40	636/1483	4.40	4.12	4.23	4.25	4.40
5. Did assigned readings contribute to what you learned	0	0	1	1	0	1	3	3.67	1097/1417	3.67	3.93	4.08	4.13	3.67
6. Did written assignments contribute to what you learned	0	2	0	0	1	1	2	4.25	656/1405	4.25	4.08	4.12	4.24	4.25
7. Was the grading system clearly explained	0	0	1	1	0	1	3	3.67	1263/1504	3.67	4.09	4.16	4.21	3.67
8. How many times was class cancelled	0	0	0	0	0	1	5	4.83	733/1519	4.83	4.80	4.70	4.77	4.83
9. How would you grade the overall teaching effectiveness	0	0	0	0	1	2	3	4.33	568/1495	4.33	3.94	4.11	4.20	4.33
<b>Lecture</b>														
1. Were the instructor's lectures well prepared	0	0	0	0	0	2	4	4.67	616/1459	4.67	4.36	4.47	4.48	4.67
2. Did the instructor seem interested in the subject	0	0	0	0	0	1	5	4.83	727/1460	4.83	4.72	4.74	4.77	4.83
3. Was lecture material presented and explained clearly	0	0	0	0	1	3	2	4.17	989/1455	4.17	4.02	4.32	4.31	4.17
4. Did the lectures contribute to what you learned	0	0	0	1	0	1	4	4.33	866/1456	4.33	4.06	4.34	4.32	4.33
5. Did audiovisual techniques enhance your understanding	0	0	0	0	1	1	4	4.50	312/1316	4.50	3.80	4.03	3.86	4.50
<b>Discussion</b>														
1. Did class discussions contribute to what you learned	5	0	0	0	0	1	0	4.00	****/1243	****	3.98	4.17	4.23	****
2. Were all students actively encouraged to participate	5	0	0	0	1	0	0	3.00	****/1241	****	4.17	4.33	4.39	****

## Student Course Evaluation Questionnaires

<b>Course-Section:</b> PHYS 621 01	<b>Term - Fall 2011</b>	<b>Enrollment:</b> 6
<b>Title:</b> Atmos Physics I		<b>Questionnaires:</b> 6
<b>Instructor:</b> Zhang,Zhibo		

Questions	NR	NA	Frequencies					Instructor		Course	Org	UMBC	Level	Sect
			1	2	3	4	5	Mean	Rank	Mean	Mean	Mean	Mean	Mean
<b>Discussion</b>														
3. Did the instructor encourage fair and open discussion	5	0	0	0	0	0	1	5.00	****/1236	****	4.11	4.40	4.47	****

### Frequency Distribution

Credits Earned		Cum. GPA		Expected Grades		Reasons		Type		Majors	
00-27	1	0.00-0.99	0	A	2	Required for Majors	5	Graduate	4	Major	1
28-55	0	1.00-1.99	0	B	3						
56-83	0	2.00-2.99	0	C	0	General	0	Under-grad	2	Non-major	5
84-150	0	3.00-3.49	0	D	0						
Grad.	4	3.50-4.00	1	F	0	Electives	1	**** - Means there are not enough responses to be significant			
				P	0						
				I	0	Other	0				
				?	1						

## Student Course Evaluation Questionnaires

<b>Course-Section:</b>	<b>PHYS 631 1</b>
<b>Title:</b>	<b>The Physics Of Astroph 1</b>
<b>Instructor:</b>	<b>Henriksen,Mark</b>

**Term - Fall 2011**

<b>Enrollment:</b>	<b>3</b>
<b>Questionnaires:</b>	<b>3</b>

Questions	NR	NA	Frequencies					Instructor		Course	Org	UMBC	Level	Sect
			1	2	3	4	5	Mean	Rank	Mean	Mean	Mean	Mean	Mean
<b>General</b>														
1. Did you gain new insights,skills from this course	0	0	0	0	1	2	0	3.67	1341/1520	3.67	4.28	4.31	4.39	3.67
2. Did the instructor make clear the expected goals	0	0	0	1	0	2	0	3.33	1420/1520	3.33	4.07	4.27	4.28	3.33
3. Did the exam questions reflect the expected goals	0	0	0	0	2	1	0	3.33	1231/1291	3.33	4.05	4.33	4.38	3.33
4. Did other evaluations reflect the expected goals	0	0	0	0	0	3	0	4.00	1010/1483	4.00	4.12	4.23	4.25	4.00
5. Did assigned readings contribute to what you learned	0	0	0	0	1	2	0	3.67	1097/1417	3.67	3.93	4.08	4.13	3.67
6. Did written assignments contribute to what you learned	0	1	0	0	1	1	0	3.50	1198/1405	3.50	4.08	4.12	4.24	3.50
7. Was the grading system clearly explained	0	0	0	0	1	1	1	4.00	999/1504	4.00	4.09	4.16	4.21	4.00
8. How many times was class cancelled	0	0	0	0	0	0	3	5.00	1/1519	5.00	4.80	4.70	4.77	5.00
9. How would you grade the overall teaching effectiveness	0	0	0	0	1	2	0	3.67	1203/1495	3.67	3.94	4.11	4.20	3.67
<b>Lecture</b>														
1. Were the instructor's lectures well prepared	0	0	0	0	0	1	2	4.67	616/1459	4.67	4.36	4.47	4.48	4.67
2. Did the instructor seem interested in the subject	0	0	0	0	0	0	3	5.00	1/1460	5.00	4.72	4.74	4.77	5.00
3. Was lecture material presented and explained clearly	0	0	0	0	2	1	0	3.33	1357/1455	3.33	4.02	4.32	4.31	3.33
4. Did the lectures contribute to what you learned	0	0	0	0	2	1	0	3.33	1353/1456	3.33	4.06	4.34	4.32	3.33
5. Did audiovisual techniques enhance your understanding	0	1	0	0	0	2	0	4.00	729/1316	4.00	3.80	4.03	3.86	4.00
<b>Discussion</b>														
1. Did class discussions contribute to what you learned	1	0	0	0	0	2	0	4.00	766/1243	4.00	3.98	4.17	4.23	4.00
2. Were all students actively encouraged to participate	1	0	0	0	0	1	1	4.50	564/1241	4.50	4.17	4.33	4.39	4.50



## Student Course Evaluation Questionnaires

<b>Course-Section:</b> PHYS 631 1	<b>Term - Fall 2011</b>	<b>Enrollment:</b> 3
<b>Title:</b> The Physics Of Astroph 1		<b>Questionnaires:</b> 3
<b>Instructor:</b> Henriksen,Mark		

Questions	NR	NA	Frequencies					Instructor		Course	Org	UMBC	Level	Sect
			1	2	3	4	5	Mean	Rank	Mean	Mean	Mean	Mean	Mean
<b>Discussion</b>														
3. Did the instructor encourage fair and open discussion	1	0	0	0	0	1	1	4.50	649/1236	4.50	4.11	4.40	4.47	4.50

### Frequency Distribution

Credits Earned		Cum. GPA		Expected Grades		Reasons		Type		Majors	
00-27	0	0.00-0.99	0	A	1	Required for Majors	1	Graduate	3	Major	2
28-55	0	1.00-1.99	0	B	2						
56-83	0	2.00-2.99	0	C	0	General	0	Under-grad	0	Non-major	1
84-150	0	3.00-3.49	0	D	0						
Grad.	3	3.50-4.00	1	F	0	Electives	1	**** - Means there are not enough responses to be significant			
				P	0						
				I	0	Other	1				
				?	0						

## Student Course Evaluation Questionnaires

<b>Course-Section:</b>	<b>PHYS 690 01</b>
<b>Title:</b>	<b>Prof Skills Phys</b>
<b>Instructor:</b>	<b>Hayden,L M</b>

**Term - Fall 2011**

<b>Enrollment:</b>	<b>11</b>
<b>Questionnaires:</b>	<b>11</b>

Questions	NR	NA	Frequencies					Instructor		Course	Org	UMBC	Level	Sect
			1	2	3	4	5	Mean	Rank	Mean	Mean	Mean	Mean	Mean
<b>General</b>														
1. Did you gain new insights,skills from this course	1	0	0	0	1	2	7	4.60	479/1520	4.60	4.28	4.31	4.39	4.60
2. Did the instructor make clear the expected goals	1	0	0	0	0	1	9	4.90	115/1520	4.90	4.07	4.27	4.28	4.90
3. Did the exam questions reflect the expected goals	1	8	0	0	0	0	2	5.00	****/1291	****	4.05	4.33	4.38	****
4. Did other evaluations reflect the expected goals	1	1	0	0	0	0	9	5.00	1/1483	5.00	4.12	4.23	4.25	5.00
5. Did assigned readings contribute to what you learned	1	0	0	0	3	3	4	4.10	743/1417	4.10	3.93	4.08	4.13	4.10
6. Did written assignments contribute to what you learned	1	1	0	0	2	2	5	4.33	575/1405	4.33	4.08	4.12	4.24	4.33
7. Was the grading system clearly explained	1	1	0	0	1	4	4	4.33	656/1504	4.33	4.09	4.16	4.21	4.33
8. How many times was class cancelled	1	0	0	0	0	2	8	4.80	794/1519	4.80	4.80	4.70	4.77	4.80
9. How would you grade the overall teaching effectiveness	4	0	1	0	0	5	1	3.71	1166/1495	3.71	3.94	4.11	4.20	3.71
<b>Lecture</b>														
1. Were the instructor's lectures well prepared	10	0	0	0	0	0	1	5.00	****/1459	****	4.36	4.47	4.48	****
2. Did the instructor seem interested in the subject	10	0	0	0	0	0	1	5.00	****/1460	****	4.72	4.74	4.77	****
3. Was lecture material presented and explained clearly	10	0	0	0	0	1	0	4.00	****/1455	****	4.02	4.32	4.31	****
4. Did the lectures contribute to what you learned	10	0	0	0	0	0	1	5.00	****/1456	****	4.06	4.34	4.32	****
5. Did audiovisual techniques enhance your understanding	10	0	0	0	1	0	0	3.00	****/1316	****	3.80	4.03	3.86	****
<b>Discussion</b>														
1. Did class discussions contribute to what you learned	2	0	0	0	0	3	6	4.67	298/1243	4.67	3.98	4.17	4.23	4.67
2. Were all students actively encouraged to participate	2	0	0	0	0	3	6	4.67	415/1241	4.67	4.17	4.33	4.39	4.67
3. Did the instructor encourage fair and open discussion	2	0	0	0	0	3	6	4.67	505/1236	4.67	4.11	4.40	4.47	4.67
4. Were special techniques successful	2	5	0	0	0	1	3	4.75	105/889	4.75	4.30	4.02	4.06	4.75

## Student Course Evaluation Questionnaires

<b>Course-Section:</b>	<b>PHYS 690 01</b>
<b>Title:</b>	<b>Prof Skills Phys</b>
<b>Instructor:</b>	<b>Hayden,L M</b>

**Term - Fall 2011**

<b>Enrollment:</b>	<b>11</b>
<b>Questionnaires:</b>	<b>11</b>

Questions	NR	NA	Frequencies					Instructor		Course	Org	UMBC	Level	Sect
			1	2	3	4	5	Mean	Rank	Mean	Mean	Mean	Mean	Mean
<b>Seminar</b>														
1. Were assigned topics relevant to the announced theme	2	0	0	0	0	3	6	4.67	42/67	4.67	4.67	4.60	4.62	4.67
2. Was the instructor available for individual attention	2	1	0	0	1	3	4	4.38	48/66	4.38	4.38	4.55	4.62	4.38
3. Did research projects contribute to what you learned	2	1	0	0	2	1	5	4.38	46/62	4.38	4.38	4.54	4.59	4.38
4. Did presentations contribute to what you learned	2	0	0	0	1	2	6	4.56	46/68	4.56	4.56	4.59	4.62	4.56
5. Were criteria for grading made clear	2	0	0	0	1	2	6	4.56	24/66	4.56	4.56	4.20	4.26	4.56
<b>Self Paced</b>														
1. Did self-paced system contribute to what you learned	10	0	0	0	0	0	1	5.00	****/24	****	****	4.17	4.13	****
2. Did study questions make clear the expected goal	10	0	0	0	0	1	0	4.00	****/15	****	****	4.17	4.48	****
3. Were your contacts with the instructor helpful	10	0	0	0	0	0	1	5.00	****/22	****	****	4.07	4.67	****
4. Was the feedback/tutoring by proctors helpful	10	0	0	0	0	0	1	5.00	****/15	****	****	4.06	4.90	****
5. Were there enough proctors for all the students	10	0	0	0	0	1	0	4.00	****/12	****	****	4.16	4.68	****

### Frequency Distribution

Credits Earned	Cum. GPA	Expected Grades	Reasons	Type	Majors						
00-27	1	0.00-0.99	0	A	0	Required for Majors	10	Graduate	5	Major	6
28-55	1	1.00-1.99	0	B	1						
56-83	0	2.00-2.99	0	C	0	General	0	Under-grad	6	Non-major	5
84-150	0	3.00-3.49	2	D	0						
Grad.	5	3.50-4.00	2	F	0	Electives	0	**** - Means there are not enough responses to be significant			
				P	7						
				I	0	Other	0				
				?	3						

## Student Course Evaluation Questionnaires

<b>Course-Section:</b>	<b>PHYS 698 1</b>
<b>Title:</b>	<b>Physics Seminar</b>
<b>Instructor:</b>	<b>Shih,Yan-hua</b>

**Term - Fall 2011**

<b>Enrollment:</b>	<b>10</b>
<b>Questionnaires:</b>	<b>6</b>

Questions	NR	NA	Frequencies					Instructor		Course	Org	UMBC	Level	Sect
			1	2	3	4	5	Mean	Rank	Mean	Mean	Mean	Mean	Mean
<b>General</b>														
1. Did you gain new insights,skills from this course	0	0	0	0	1	2	3	4.33	838/1520	4.33	4.28	4.31	4.39	4.33
2. Did the instructor make clear the expected goals	2	0	0	0	1	2	1	4.00	1086/1520	4.00	4.07	4.27	4.28	4.00
4. Did other evaluations reflect the expected goals	2	3	0	0	0	1	0	4.00	****/1483	****	4.12	4.23	4.25	****
6. Did written assignments contribute to what you learned	2	1	0	0	1	1	1	4.00	843/1405	4.00	4.08	4.12	4.24	4.00
7. Was the grading system clearly explained	2	1	0	0	0	0	3	5.00	1/1504	5.00	4.09	4.16	4.21	5.00
8. How many times was class cancelled	2	0	0	0	0	0	4	5.00	1/1519	5.00	4.80	4.70	4.77	5.00
9. How would you grade the overall teaching effectiveness	4	1	0	0	0	1	0	4.00	****/1495	****	3.94	4.11	4.20	****
<b>Lecture</b>														
1. Were the instructor's lectures well prepared	5	0	0	0	0	1	0	4.00	****/1459	****	4.36	4.47	4.48	****
2. Did the instructor seem interested in the subject	4	0	0	0	0	1	1	4.50	1195/1460	4.50	4.72	4.74	4.77	4.50
3. Was lecture material presented and explained clearly	5	0	0	0	0	1	0	4.00	****/1455	****	4.02	4.32	4.31	****
4. Did the lectures contribute to what you learned	5	0	0	0	0	0	1	5.00	****/1456	****	4.06	4.34	4.32	****
<b>Discussion</b>														
1. Did class discussions contribute to what you learned	5	0	0	0	0	1	0	4.00	****/1243	****	3.98	4.17	4.23	****
2. Were all students actively encouraged to participate	5	0	0	0	0	0	1	5.00	****/1241	****	4.17	4.33	4.39	****

## Student Course Evaluation Questionnaires

<b>Course-Section:</b>	<b>PHYS 698 1</b>
<b>Title:</b>	<b>Physics Seminar</b>
<b>Instructor:</b>	<b>Shih,Yan-hua</b>

**Term - Fall 2011**

<b>Enrollment:</b>	<b>10</b>
<b>Questionnaires:</b>	<b>6</b>

Questions	NR	NA	Frequencies					Instructor		Course	Org	UMBC	Level	Sect
			1	2	3	4	5	Mean	Rank	Mean	Mean	Mean	Mean	Mean
<b>Discussion</b>														
3. Did the instructor encourage fair and open discussion	5	0	0	0	0	0	1	5.00	****/1236	****	4.11	4.40	4.47	****

### Frequency Distribution

Credits Earned		Cum. GPA		Expected Grades		Reasons		Type	Majors		
00-27	0	0.00-0.99	0	A	2	Required for Majors	6	Graduate	5	Major	4
28-55	0	1.00-1.99	0	B	0						
56-83	0	2.00-2.99	0	C	0	General	0	Under-grad	1	Non-major	2
84-150	0	3.00-3.49	1	D	0						
Grad.	5	3.50-4.00	0	F	0	Electives	0	**** - Means there are not enough responses to be significant			
				P	2						
				I	0	Other	0				
				?	2						

## Student Course Evaluation Questionnaires

<b>Course-Section:</b>	<b>PHYS 707 01</b>
<b>Title:</b>	<b>Adv Electromagnetic Thry</b>
<b>Instructor:</b>	<b>Kramer,Ivan</b>

**Term - Fall 2011**

<b>Enrollment:</b>	<b>8</b>
<b>Questionnaires:</b>	<b>8</b>

Questions	NR	NA	Frequencies					Instructor		Course	Org	UMBC	Level	Sect
			1	2	3	4	5	Mean	Rank	Mean	Mean	Mean	Mean	Mean
<b>General</b>														
1. Did you gain new insights,skills from this course	0	0	0	0	1	4	3	4.25	924/1520	4.25	4.28	4.31	4.39	4.25
2. Did the instructor make clear the expected goals	0	0	0	0	0	2	6	4.75	249/1520	4.75	4.07	4.27	4.28	4.75
3. Did the exam questions reflect the expected goals	0	0	0	0	0	1	7	4.88	166/1291	4.88	4.05	4.33	4.38	4.88
4. Did other evaluations reflect the expected goals	0	2	0	0	1	2	3	4.33	713/1483	4.33	4.12	4.23	4.25	4.33
5. Did assigned readings contribute to what you learned	0	1	0	0	0	3	4	4.57	306/1417	4.57	3.93	4.08	4.13	4.57
6. Did written assignments contribute to what you learned	0	0	0	0	1	2	5	4.50	385/1405	4.50	4.08	4.12	4.24	4.50
7. Was the grading system clearly explained	0	0	0	0	0	4	4	4.50	437/1504	4.50	4.09	4.16	4.21	4.50
8. How many times was class cancelled	0	0	0	0	0	0	8	5.00	1/1519	5.00	4.80	4.70	4.77	5.00
9. How would you grade the overall teaching effectiveness	2	0	0	0	1	5	0	3.83	1075/1495	3.83	3.94	4.11	4.20	3.83
<b>Lecture</b>														
1. Were the instructor's lectures well prepared	0	0	0	0	0	4	4	4.50	833/1459	4.50	4.36	4.47	4.48	4.50
2. Did the instructor seem interested in the subject	0	0	0	0	1	0	7	4.75	903/1460	4.75	4.72	4.74	4.77	4.75
3. Was lecture material presented and explained clearly	0	0	0	0	1	6	1	4.00	1075/1455	4.00	4.02	4.32	4.31	4.00
4. Did the lectures contribute to what you learned	0	0	1	0	3	4	0	3.25	1370/1456	3.25	4.06	4.34	4.32	3.25
<b>Discussion</b>														
1. Did class discussions contribute to what you learned	4	0	0	0	0	4	0	4.00	766/1243	4.00	3.98	4.17	4.23	4.00
2. Were all students actively encouraged to participate	4	0	0	0	0	2	2	4.50	564/1241	4.50	4.17	4.33	4.39	4.50

## Student Course Evaluation Questionnaires

<b>Course-Section:</b> PHYS 707 01	<b>Term - Fall 2011</b>	<b>Enrollment:</b> 8
<b>Title:</b> Adv Electromagnetic Thry		<b>Questionnaires:</b> 8
<b>Instructor:</b> Kramer,Ivan		

  

Questions	NR	NA	Frequencies					Instructor		Course	Org	UMBC	Level	Sect
			1	2	3	4	5	Mean	Rank	Mean	Mean	Mean	Mean	Mean
<b>Discussion</b>														
3. Did the instructor encourage fair and open discussion	4	0	0	0	0	1	3	4.75	404/1236	4.75	4.11	4.40	4.47	4.75

### Frequency Distribution

Credits Earned		Cum. GPA		Expected Grades		Reasons	Type	Majors			
00-27	2	0.00-0.99	0	A	2	Required for Majors	8	Graduate	4	Major	8
28-55	0	1.00-1.99	0	B	5						
56-83	0	2.00-2.99	0	C	1	General	0	Under-grad	4	Non-major	0
84-150	0	3.00-3.49	1	D	0						
Grad.	4	3.50-4.00	3	F	0	Electives	0	**** - Means there are not enough responses to be significant			
				P	0						
				I	0	Other	0				
				?	0						

## Student Course Evaluation Questionnaires

<b>Course-Section:</b>	<b>PHYS 721 01</b>
<b>Title:</b>	<b>Atmos Radiative Transfer</b>
<b>Instructor:</b>	<b>Martins,Jose V</b>

**Term - Fall 2011**

<b>Enrollment:</b>	<b>3</b>
<b>Questionnaires:</b>	<b>3</b>

Questions	NR	NA	Frequencies					Instructor		Course	Org	UMBC	Level	Sect
			1	2	3	4	5	Mean	Rank	Mean	Mean	Mean	Mean	Mean
<b>General</b>														
1. Did you gain new insights,skills from this course	0	0	0	0	0	0	3	5.00	1/1520	5.00	4.28	4.31	4.39	5.00
2. Did the instructor make clear the expected goals	0	0	0	0	0	1	2	4.67	360/1520	4.67	4.07	4.27	4.28	4.67
3. Did the exam questions reflect the expected goals	0	0	0	0	1	1	1	4.00	974/1291	4.00	4.05	4.33	4.38	4.00
4. Did other evaluations reflect the expected goals	0	0	0	0	1	1	1	4.00	1010/1483	4.00	4.12	4.23	4.25	4.00
5. Did assigned readings contribute to what you learned	0	0	0	0	0	1	2	4.67	229/1417	4.67	3.93	4.08	4.13	4.67
6. Did written assignments contribute to what you learned	0	0	0	0	0	1	2	4.67	235/1405	4.67	4.08	4.12	4.24	4.67
7. Was the grading system clearly explained	0	0	0	0	0	1	2	4.67	272/1504	4.67	4.09	4.16	4.21	4.67
8. How many times was class cancelled	0	0	0	0	0	0	3	5.00	1/1519	5.00	4.80	4.70	4.77	5.00
9. How would you grade the overall teaching effectiveness	0	0	0	0	0	0	3	5.00	1/1495	5.00	3.94	4.11	4.20	5.00
<b>Lecture</b>														
1. Were the instructor's lectures well prepared	0	0	0	0	0	0	3	5.00	1/1459	5.00	4.36	4.47	4.48	5.00
2. Did the instructor seem interested in the subject	0	0	0	0	0	0	3	5.00	1/1460	5.00	4.72	4.74	4.77	5.00
3. Was lecture material presented and explained clearly	0	0	0	0	0	0	3	5.00	1/1455	5.00	4.02	4.32	4.31	5.00
4. Did the lectures contribute to what you learned	0	0	0	0	0	1	2	4.67	503/1456	4.67	4.06	4.34	4.32	4.67
5. Did audiovisual techniques enhance your understanding	0	0	0	0	0	1	2	4.67	198/1316	4.67	3.80	4.03	3.86	4.67
<b>Discussion</b>														
1. Did class discussions contribute to what you learned	2	0	0	0	0	1	0	4.00	766/1243	4.00	3.98	4.17	4.23	4.00
2. Were all students actively encouraged to participate	2	0	0	0	0	1	0	4.00	922/1241	4.00	4.17	4.33	4.39	4.00
3. Did the instructor encourage fair and open discussion	2	0	0	0	0	1	0	4.00	947/1236	4.00	4.11	4.40	4.47	4.00



## Student Course Evaluation Questionnaires

<b>Course-Section:</b> PHYS 721 01	<b>Term - Fall 2011</b>	<b>Enrollment:</b> 3
<b>Title:</b> Atmos Radiative Transfer		<b>Questionnaires:</b> 3
<b>Instructor:</b> Martins,Jose V		

Questions	NR	NA	Frequencies					Instructor		Course	Org	UMBC	Level	Sect
			1	2	3	4	5	Mean	Rank	Mean	Mean	Mean	Mean	Mean
<b>Discussion</b>														
4. Were special techniques successful	2	0	0	0	0	1	0	4.00	456/889	4.00	4.30	4.02	4.06	4.00

### Frequency Distribution

Credits Earned		Cum. GPA		Expected Grades		Reasons		Type	Majors		
00-27	0	0.00-0.99	0	A	0	Required for Majors	3	Graduate	2	Major	0
28-55	0	1.00-1.99	0	B	3						
56-83	0	2.00-2.99	0	C	0	General	0	Under-grad	1	Non-major	3
84-150	0	3.00-3.49	1	D	0						
Grad.	2	3.50-4.00	0	F	0	Electives	0	**** - Means there are not enough responses to be significant			
				P	0						
				I	0	Other	0				
				?	0						