

Physics Baccalaureate Program: Data for Program Review

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I. Student Enrollment

Total Number of Majors Fall 2005 – Fall 2009

	Fall 2005	Fall 2006	Fall 2007	Fall 2008	Fall 2009
Physics	21	19	25	20	15
Physics-Professional	9	11	6	10	18
Total	30	30	31	30	33

Total Number of Majors by Gender Fall 2005 – Fall 2009

	Fall 2005	Fall 2006	Fall 2007	Fall 2008	Fall 2009
Men	26	26	23	26	32
Women	4	4	8	4	1
% Female	13.3%	13.3%	25.8%	13.3%	3.0%

Total Number of Majors by Race/Ethnicity Fall 2005 – Fall 2009

	Fall 2005	Fall 2006	Fall 2007	Fall 2008	Fall 2009
Native American	0	0	0	0	0
Asian	0	0	0	0	0
Black	0	0	1	1	1
Hispanic	0	0	0	0	0
Cape Verdean	0	0	1	1	1
White	20	25	26	22	26
International	0	0	0	0	0
Unknown	10	5	3	6	5
Total Students of Color	0	0	2	2	2
% Students of Color	0.0%	0.0%	6.5%	6.7%	6.1%

Note: Includes double majors.

I. Student Enrollment (continued)

**Total Number of Minors
Fall 2005 – Fall 2009**

	Fall 2005	Fall 2006	Fall 2007	Fall 2008	Fall 2009
Physics	1	4	5	4	10

**Total Number of Minors by Gender
Fall 2005 – Fall 2009**

	Fall 2005	Fall 2006	Fall 2007	Fall 2008	Fall 2009
Men	1	3	3	2	4
Women	0	1	2	2	6
% Female	0.0%	25.0%	40.0%	50.0%	40.0%

**Total Number of Minors by Race/Ethnicity
Fall 2005 – Fall 2009**

	Fall 2005	Fall 2006	Fall 2007	Fall 2008	Fall 2009
Native American	0	0	0	0	0
Asian	0	1	0	0	0
Black	0	0	0	0	0
Hispanic	0	0	0	0	0
Cape Verdean	0	0	0	0	1
White	1	2	5	4	7
International	0	0	0	0	1
Unknown	0	1	0	0	1
Total Students of Color	0	1	0	0	1
% Students of Color	0.0%	25.0%	0.0%	0.0%	10.0%

Note: Includes double majors.

II. Class Size

Class Size Distribution, Enrollment and Credit Hours Generated

Fall 2005

Level	Class Size					Total Sections	Avg Section Size	Enrollment Individual Instruction	Total Enrollment	Credit Hours Generated
	1-10	11-20	21-30	31-40	41+					
Lower	1	10	5	3	0	19	22	0	410	770
Upper	4	2	0	0	0	6	9	1	57	125
Grad	0	0	0	0	0	0	0	0	0	0
Total	5	12	5	3	0	25	19	1	454	941

Spring 2006

Level	Class Size					Total Sections	Avg Section Size	Enrollment Individual Instruction	Total Enrollment	Credit Hours Generated
	1-10	11-20	21-30	31-40	41+					
Lower	3	10	3	3	0	19	19	0	358	673
Upper	3	2	0	0	0	5	9	4	47	121
Grad	0	0	2	0	0	2	25	0	49	147
Total	6	12	5	3	0	26	17	4	454	941

Fall 2006

Level	Class Size					Total Sections	Avg Section Size	Enrollment Individual Instruction	Total Enrollment	Credit Hours Generated
	1-10	11-20	21-30	31-40	41+					
Lower	0	14	3	5	0	22	23	0	503	963
Upper	3	1	0	0	0	4	10	4	43	111
Grad	1	2	1	0	0	4	13	2	55	159
Total	4	17	4	5	0	30	20	6	601	1233

Spring 2007

Level	Class Size					Total Sections	Avg Section Size	Enrollment Individual Instruction	Total Enrollment	Credit Hours Generated
	1-10	11-20	21-30	31-40	41+					
Lower	1	17	1	5	0	24	20	0	489	991
Upper	4	1	0	0	0	5	7	2	38	94
Grad	1	2	0	0	0	3	11	0	32	78
Total	6	20	1	6	0	32	17	2	559	1163

Notes: Individual Instruction includes internships, directed study, undergraduate research and student teaching.
Lower=100-200 level courses; Upper=300-400 level courses; Graduate=500 level courses.

II. Class Size (continued)

Class Size Distribution, Enrollment and Credit Hours Generated

Fall 2007

Level	Class Size					Total Sections	Avg Section Size	Enrollment Individual Instruction	Total Enrollment	Credit Hours Generated
	1-10	11-20	21-30	31-40	41+					
Lower	0	16	4	2	1	23	22	0	509	1121
Upper	6	0	0	0	0	6	7	6	48	104
Grad	0	1	0	0	0	1	18	0	18	54
Total	6	17	4	2	1	30	19	6	575	1279

Spring 2008

Level	Class Size					Total Sections	Avg Section Size	Enrollment Individual Instruction	Total Enrollment	Credit Hours Generated
	1-10	11-20	21-30	31-40	41+					
Lower	4	13	0	4	0	21	17	0	361	777
Upper	3	2	0	0	0	5	9	3	47	120
Grad	0	1	1	0	0	2	20	0	40	120
Total	7	16	1	4	0	28	16	3	448	1017

Fall 2008

Level	Class Size					Total Sections	Avg Section Size	Enrollment Individual Instruction	Total Enrollment	Credit Hours Generated
	1-10	11-20	21-30	31-40	41+					
Lower	3	9	6	2	1	21	21	0	444	940
Upper	7	0	0	0	0	7	7	1	47	110
Grad	0	0	1	0	0	1	22	0	22	66
Total	10	9	7	2	1	29	18	1	513	1116

Spring 2009

Level	Class Size					Total Sections	Avg Section Size	Enrollment Individual Instruction	Total Enrollment	Credit Hours Generated
	1-10	11-20	21-30	31-40	41+					
Lower	1	16	2	5	0	24	21	0	494	1104
Upper	6	0	0	0	0	6	7	6	46	96
Grad	1	1	0	0	0	2	13	0	26	66
Total	8	17	2	5	0	32	18	6	566	1266

Notes: Individual Instruction includes internships, directed study, undergraduate research and student teaching.
Lower=100-200 level courses; Upper=300-400 level courses; Graduate=500 level courses.

II. Class Size (continued)

Class Size Distribution, Enrollment and Credit Hours Generated

Fall 2009

Level	Class Size					Total Sections	Avg Section Size	Enrollment Individual Instruction	Total Enrollment	Credit Hours Generated
	1-10	11-20	21-30	31-40	41+					
Lower	2	18	4	3	0	27	20	0	536	1184
Upper	8	0	0	0	0	8	7	1	54	108
Grad	1	1	0	0	0	2	12	0	24	57
Total	11	19	4	3	0	37	17	1	614	1349

Spring 2010

Level	Class Size					Total Sections	Avg Section Size	Enrollment Individual Instruction	Total Enrollment	Credit Hours Generated
	1-10	11-20	21-30	31-40	41+					
Lower	2	19	5	4	0	30	19	0	581	1253
Upper	4	1	0	0	0	5	7	4	39	99
Grad	1	0	1	0	0	2	13	0	25	72
Total	7	20	6	4	0	37	17	4	645	1424

Notes: Individual Instruction includes internships, directed study, undergraduate research and student teaching.
 Lower=100-200 level courses; Upper=300-400 level courses; Graduate=500 level courses.

II. Class Size (continued)

Number of Three-Credit Course Sections Taught by Full-Time and Part-Time Faculty

Fall 2005

Level	Taught by Full-Time Faculty	Taught by Part-Time Faculty	Total Three-Credit Sections	Comments*
Lower	3	3	6	
Upper	2	0	2	
Grad	0	0	0	
Total	5	3	8	

Spring 2006

Level	Taught by Full-Time Faculty	Taught by Part-Time Faculty	Total Three-Credit Sections	Comments*
Lower	3	3	6	1 Full-time Faculty member on Sabbatical Leave
Upper	4	0	4	
Grad	0	2	2	
Total	7	5	12	

Fall 2006

Level	Taught by Full-Time Faculty	Taught by Part-Time Faculty	Total Three-Credit Sections	Comments*
Lower	6	1	7	1 Full-Time Faculty Member on Sabbatical Leave
Upper	3	0	3	
Grad	2	1	3	
Total	11	2	13	

Spring 2007

Level	Taught by Full-Time Faculty	Taught by Part-Time Faculty	Total Three-Credit Sections	Comments*
Lower	9	0	9	
Upper	5	0	5	
Grad	0	2	2	
Total	14	2	16	

*Number of full-time faculty members on sabbatical/leave will be noted in the "Comments" section.

II. Class Size (continued)

Number of Three-Credit Course Sections Taught by Full-Time and Part-Time Faculty

Fall 2007

Level	Taught by Full-Time Faculty	Taught by Part-Time Faculty	Total Three-Credit Sections	Comments*
Lower	4	0	4	
Upper	2	0	2	
Grad	0	1	1	
Total	6	1	7	

Spring 2008

Level	Taught by Full-Time Faculty	Taught by Part-Time Faculty	Total Three-Credit Sections	Comments*
Lower	1	1	2	1 Full-Time Faculty member on Sabbatical Leave
Upper	4	0	4	
Grad	0	2	2	
Total	5	3	8	

Fall 2008

Level	Taught by Full-Time Faculty	Taught by Part-Time Faculty	Total Three-Credit Sections	Comments*
Lower	1	1	2	
Upper	4	0	4	
Grad	0	1	1	
Total	5	2	7	

Spring 2009

Level	Taught by Full-Time Faculty	Taught by Part-Time Faculty	Total Three-Credit Sections	Comments*
Lower	2	3	5	
Upper	4	0	4	
Grad	0	1	1	
Total	6	4	10	

*Number of full-time faculty members on sabbatical/leave will be noted in the "Comments" section.

II. Class Size (continued)

Number of Three-Credit Course Sections Taught by Full-Time and Part-Time Faculty

Fall 2009

Level	Taught by Full-Time Faculty	Taught by Part-Time Faculty	Total Three-Credit Sections	Comments*
Lower	3	3	6	
Upper	2	0	2	
Grad	0	1	1	
Total	5	4	9	

Spring 2010

Level	Taught by Full-Time Faculty	Taught by Part-Time Faculty	Total Three-Credit Sections	Comments*
Lower	2	4	6	
Upper	5	0	5	
Grad	0	1	1	
Total	7	5	12	

*Number of full-time faculty members on sabbatical/leave will be noted in the "Comments" section.

III. Faculty

Number of Full-Time Faculty by Rank Fall 2005 – Fall 2009

	Fall 2005	Fall 2006	Fall 2007	Fall 2008	Fall 2009
Professor	1	1	1	1	2
Associate Professor	1	1	3	2	2
Assistant Professor	2	2	0	1	0
Instructor	0	1	1	0	0
Total Full-Time Faculty	4	5	5	4	4

Number of Full-Time Faculty by Tenure Fall 2005 – Fall 2009

	Fall 2005	Fall 2006	Fall 2007	Fall 2008	Fall 2009
Tenured	2	2	4	3	4
Not tenured	2	2	0	1	0
Not on tenure-track	0	1	1	0	0
% Tenured*	50.0%	50.0%	100%	75.0%	100%

* Of tenure-track faculty

III. Faculty (continued)

Number of Full-Time Faculty (Tenured or Tenure-Track) by Gender Fall 2005 – Fall 2009

	Fall 2005	Fall 2006	Fall 2007	Fall 2008	Fall 2009
Men	3	3	3	2	3
Women	1	1	1	2	1
% Female	75.0%	25.0%	25.0%	50.0%	25.0%

Number of Full-Time Faculty (Tenured or Tenure-Track) by Race/Ethnicity Fall 2005 – Fall 2009

	Fall 2005	Fall 2006	Fall 2007	Fall 2008	Fall 2009
Native American	0	0	0	0	0
Asian	0	0	0	1	0
Black	0	0	0	0	0
Hispanic	0	0	0	0	0
Cape Verdean	0	0	0	0	0
White	4	4	4	3	4
International	0	0	0	0	0
Unknown	0	0	0	0	0
Total Faculty of Color	0	0	0	1	0
% Faculty of Color	0.0%	0.0%	0.0%	25.0%	0.0%

Number of Full-Time Faculty (Tenured or Tenure Track) by Terminal Degree Fall 2005 – Fall 2009

	Fall 2005	Fall 2006	Fall 2007	Fall 2008	Fall 2009
With Terminal Degree	4	4	4	4	4
Without Terminal Degree	0	0	0	0	0
% with Terminal Degree	100%	100%	100%	100%	100%

IV. Student/Faculty Ratio

Student FTE, Faculty FTE and Student/Faculty Ratio Fall 2005 – Fall 2009

	Student FTE			Faculty FTE			Student/ Faculty Ratio
	UG	GR	Total	Full-Time	Part-Time	Total	
Fall 2005	59.1	0.7	59.8	3.2	0.5	3.7	16:1
Fall 2006	78.1	16.6	94.7	4.7	0.8	5.5	17:1
Fall 2007	79.7	13.9	93.6	4.2	1.1	5.3	18:1
Fall 2008	68.9	10.8	79.7	3.2	2.1	5.3	15:1
Fall 2009	102.7	13.2	115.8	3.4	1.1	4.5	26:1

Comparison of Student/Faculty Ratio Fall 2005 – Fall 2009

	Physics	School of Arts & Sciences	Bridgewater State College
Fall 2005	16:1	21:1	20:1
Fall 2006	17:1	20:1	19:1
Fall 2007	18:1	20:1	20:1
Fall 2008	15:1	19:1	19:1
Fall 2009	26:1	23:1	22:1

Note: FTE for undergraduate students = (total credit hours)/15; FTE for graduate students = (total credit hours)/12. Student/Faculty Ratio = (student FTE)/(faculty FTE). FTE for part-time faculty = (total credit hours)/15. Adjustments to full-time faculty FTE were made for alternative responsibilities.

V. Student Progress

Number of Baccalaureate Degree Recipients 2004/05 – 2008/09

	2004/05	2005/06	2006/07	2007/08	2008/09
Physics	0	0	1	0	1
Physics - Professional	3	1	5	4	4
Total	3	1	6	4	5

Number of Baccalaureate Degree Recipients by Gender 2004/05 – 2008/09

	2004/05	2005/06	2006/07	2007/08	2008/09
Men	2	1	6	2	4
Women	1	0	0	2	1
% Female	33.3%	0.0%	0.0%	50.0%	20.0%

Number of Baccalaureate Degree Recipients by Race/Ethnicity 2004/05 – 2008/09

	2004/05	2005/06	2006/07	2007/08	2008/09
Native American	0	0	0	0	0
Asian	0	0	0	0	0
Black	0	0	0	0	0
Hispanic	0	0	0	0	0
Cape Verdean	0	0	0	0	0
White	3	0	3	3	5
International	0	1	0	0	0
Unknown	0	0	3	1	0
Total Students of Color	0	0	0	0	0
% Students of Color	0.0%	0.0%	0.0%	0.0%	0.0%

Note: Includes double majors

V. Student Progress (continued)

**Number of Baccalaureate Degree Recipients with Minor in Physics
2004/05 – 2008/09**

	2004/05	2005/06	2006/07	2007/08	2008/09
Physics	5	2	2	3	2

**Number of Baccalaureate Degree Recipients with Minor in Physics
by Gender
2004/05 – 2008/09**

	2004/05	2005/06	2006/07	2007/08	2008/09
Men	4	1	1	2	1
Women	1	1	1	1	1
% Female	20.0%	50.0%	50.0%	33.3%	50.0%

**Number of Baccalaureate Degree Recipients with Minor in Physics
by Race/Ethnicity
2004/05 – 2008/09**

	2004/05	2005/06	2006/07	2007/08	2008/09
Native American	0	0	0	0	0
Asian	0	0	1	0	0
Black	0	0	0	0	0
Hispanic	0	0	0	0	0
Cape Verdean	0	0	0	0	0
White	4	2	0	3	2
International	0	0	0	0	0
Unknown	0	0	1	0	0
Total Students of Color	0	0	1	0	0
% Students of Color	0.0%	0.0%	50.0%	0.0%	0.0%

Note: Includes double minors

1-YEAR STUDENT PERSISTENCE

Freshmen	Initial Cohort	Still Enrolled (the succeeding Fall)						Graduated (by the succeeding Summer)						Not Enrolled	
		Same Major		Different Major		Total		Same Major		Different Major		Total			
Fall 2006	6	3	50%	0	0%	3	50%	0	0%	0	0%	0	0%	3	50%
Fall 2007	9	7	78%	1	11%	8	89%	0	0%	0	0%	0	0%	1	11%
Fall 2008	9	4	44%	0	0%	4	44%	0	0%	0	0%	0	0%	5	56%
Sophomores	Initial Cohort	Still Enrolled (the succeeding Fall)						Graduated (by the succeeding Summer)						Not Enrolled	
		Same Major		Different Major		Total		Same Major		Different Major		Total			
Fall 2006	7	3	43%	1	14%	4	57%	0	0%	0	0%	0	0%	3	43%
Fall 2007	6	6	100%	0	0%	6	100%	0	0%	0	0%	0	0%	0	0%
Fall 2008	8	5	63%	1	13%	6	75%	0	0%	0	0%	0	0%	2	25%
Juniors	Initial Cohort	Still Enrolled (the succeeding Fall)						Graduated (by the succeeding Summer)						Not Enrolled	
		Same Major		Different Major		Total		Same Major		Different Major		Total			
Fall 2006	6	6	100%	0	0%	6	100%	0	0%	0	0%	0	0%	0	0%
Fall 2007	5	3	60%	1	20%	4	80%	0	0%	0	0%	0	0%	1	20%
Fall 2008	5	3	60%	1	20%	4	80%	0	0%	0	0%	0	0%	1	20%
Seniors	Initial Cohort	Still Enrolled (the succeeding Fall)						Graduated (by the succeeding Summer)						Not Enrolled	
		Same Major		Different Major		Total		Same Major		Different Major		Total			
Fall 2006	11	5	45%	0	0%	5	45%	5	45%	0	0%	5	45%	1	9%
Fall 2007	11	5	45%	0	0%	5	45%	3	27%	0	0%	3	27%	3	27%
Fall 2008	8	3	38%	0	0%	3	38%	4	50%	0	0%	4	50%	1	13%

5-YEAR STUDENT PERSISTENCE

	Initial Cohort	Still Enrolled (Fall 2009)						Graduated (by Summer 2009)						Not Enrolled	
	Fall 2004	Same Major		Different Major		Total		Same Major		Different Major		Total			
Freshmen	3	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	3	100%
Sophomores	6	0	0%	1	17%	1	17%	2	33%	0	0%	2	33%	3	50%
Juniors	6	0	0%	0	0%	0	0%	1	17%	3	50%	4	67%	2	33%
Seniors	10	0	0%	0	0%	0	0%	6	60%	2	20%	8	80%	2	20%