

Chemical Sciences Baccalaureate Program: Data for Program Review

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I. Student Enrollment

Total Number of Majors Fall 2004 – Fall 2009

	Fall 2004	Fall 2005	Fall 2006	Fall 2007	Fall 2008	Fall 2009
Chemistry	31	41	23	16	21	7
Biochemistry	17	27	23	29	29	51
Environmental Chemistry	2	4	2	1	5	8
Professional Chemistry	9	8	19	19	23	19
Geology/Chemistry	N/A	N/A	N/A	14	7	4
Total	59	80	67	79	85	89

Total Number of Majors by Gender Fall 2004 – Fall 2009

	Fall 2004	Fall 2005	Fall 2006	Fall 2007	Fall 2008	Fall 2009
Men	30	41	36	40	40	50
Women	29	39	31	39	45	39
% Female	49.2%	48.8%	46.3%	49.4%	52.9%	43.8%

Total Number of Majors by Race/Ethnicity Fall 2004 – Fall 2009

	Fall 2004	Fall 2005	Fall 2006	Fall 2007	Fall 2008	Fall 2009
Native American	0	0	0	1	1	0
Asian	3	4	2	2	3	4
Black	1	3	1	6	6	7
Hispanic	1	2	2	1	2	0
Cape Verdean	1	2	2	0	0	2
White	36	55	51	58	64	69
International	3	0	1	5	4	0
Unknown	14	14	8	6	5	7
Total Students of Color	6	11	7	10	12	13
% Students of Color	10.2%	13.8%	10.4%	12.7%	14.1%	14.6%

Note: Includes double majors.

I. Student Enrollment (continued)

Total Number of Minors Fall 2004 – Fall 2009

	Fall 2004	Fall 2005	Fall 2006	Fall 2007	Fall 2008	Fall 2009
Chemistry	5	14	14	20	16	19

Total Number of Minors by Gender Fall 2004 – Fall 2009

	Fall 2004	Fall 2005	Fall 2006	Fall 2007	Fall 2008	Fall 2009
Men	2	4	5	5	2	5
Women	3	10	9	15	14	14
% Female	60.0%	71.4%	64.3%	75.0%	87.5%	73.7%

Total Number of Minors by Race/Ethnicity Fall 2004 – Fall 2009

	Fall 2004	Fall 2005	Fall 2006	Fall 2007	Fall 2008	Fall 2009
Native American	0	0	0	0	0	0
Asian	0	0	0	0	0	0
Black	0	0	0	1	1	1
Hispanic	1	0	0	1	0	0
Cape Verdean	0	0	0	0	1	2
White	2	9	4	14	11	13
International	1	1	0	0	0	1
Unknown	1	4	10	4	3	2
Total Students of Color	1	0	0	2	2	3
% Students of Color	20.0%	0.0%	0.0%	10.0%	12.5%	15.8%

Note: Includes double majors.

II. Class Size

Class Size Distribution, Enrollment and Credit Hours Generated

Fall 2004

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	13	4	4	0	23	19	0	447	1041
Upper	3	7	4	0	0	14	17	11	243	477
Grad	0	0	0	0	0	0	0	0	0	0
Total	5	20	8	4	0	37	18	11	690	1518

Spring 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	5	8	3	3	0	19	18	0	343	792
Upper	7	5	0	0	1	13	12	18	174	355
Grad	0	0	0	0	0	0	0	0	0	0
Total	12	13	3	3	0	32	16	18	517	1147

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	5	12	2	5	0	24	19	0	457	1089
Upper	2	11	2	0	1	16	17	7	277	537
Grad	0	0	0	0	0	0	0	0	0	0
Total	7	23	4	5	1	40	18	7	734	1626

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	8	2	3	1	17	20	0	332	761
Upper	5	8	3	0	0	16	14	12	242	504
Grad	0	0	0	0	0	0	0	0	0	0
Total	8	16	5	3	1	33	17	12	574	1265

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 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	12	3	5	0	23	19	0	438	1038
Upper	7	11	1	1	0	20	13	11	271	527
Grad	0	0	0	0	0	0	0	0	0	0
Total	10	23	4	6	0	43	16	11	709	1565

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	7	8	1	3	0	19	16	0	307	709
Upper	7	8	1	0	0	16	12	16	212	427
Grad	0	0	1	0	0	1	24	0	24	72
Total	14	16	3	3	0	36	15	16	543	1208

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	5	14	3	3	0	25	18	0	440	1048
Upper	7	8	1	0	0	16	13	6	210	410
Grad	0	0	0	0	0	0	0	0	0	0
Total	12	22	4	3	0	41	16	6	650	1458

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	5	12	2	3	0	22	18	0	391	939
Upper	5	10	0	0	0	15	12	9	183	393
Grad	0	0	0	0	0	0	0	0	0	0
Total	10	22	2	3	0	37	15	9	574	1332

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 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	2	15	1	6	0	24	21	0	494	1178
Upper	7	7	2	1	0	17	14	10	240	475
Grad	0	0	0	0	0	0	0	0	0	0
Total	9	22	3	7	0	41	18	10	734	1653

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	3	15	3	4	0	25	18	0	458	1090
Upper	8	6	2	0	0	16	12	17	207	414
Grad	0	0	0	0	0	0	0	0	0	0
Total	11	21	5	4	0	41	16	17	665	1504

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	19	4	4	0	29	19	0	551	1309
Upper	5	9	2	1	0	17	16	11	282	552
Grad	0	0	0	0	0	0	0	0	0	0
Total	7	28	6	5	0	46	18	11	833	1861

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 2004

Level	Taught by Full-Time Faculty	Taught by Part-Time Faculty	Total Three-Credit Sections	Comments*
Lower	3	3	6	
Upper	1	0	1	
Grad	0	0	0	
Total	4	3	7	

Spring 2005

Level	Taught by Full-Time Faculty	Taught by Part-Time Faculty	Total Three-Credit Sections	Comments*
Lower	3	3	6	
Upper	4	0	4	
Grad	0	0	0	
Total	7	3	10	

Fall 2005

Level	Taught by Full-Time Faculty	Taught by Part-Time Faculty	Total Three-Credit Sections	Comments*
Lower	3	4	7	*1 full-time faculty member on sabbatical leave
Upper	1	0	1	
Grad	0	0	0	
Total	4	4	8	

Spring 2006

Level	Taught by Full-Time Faculty	Taught by Part-Time Faculty	Total Three-Credit Sections	Comments*
Lower	1	3	4	*1 full-time faculty member on sabbatical leave
Upper	5	0	5	
Grad	0	0	0	
Total	6	3	9	

*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 2006

Level	Taught by Full-Time Faculty	Taught by Part-Time Faculty	Total Three-Credit Sections	Comments*
Lower	1	5	6	*2 full-time faculty member on sabbatical leave
Upper	4	0	4	
Grad	0	0	0	
Total	5	5	10	

Spring 2007

Level	Taught by Full-Time Faculty	Taught by Part-Time Faculty	Total Three-Credit Sections	Comments*
Lower	2	4	6	*1 full-time faculty member on sabbatical leave
Upper	2	1	3	
Grad	0	1	1	
Total	4	6	10	

Fall 2007

Level	Taught by Full-Time Faculty	Taught by Part-Time Faculty	Total Three-Credit Sections	Comments*
Lower	3	5	8	*1 full-time faculty member on sabbatical leave
Upper	1	1	2	
Grad	0	0	0	
Total	4	6	10	

Spring 2008

Level	Taught by Full-Time Faculty	Taught by Part-Time Faculty	Total Three-Credit Sections	Comments*
Lower	2	6	8	
Upper	4	1	5	
Grad	0	0	0	
Total	6	7	13	

*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 2008

Level	Taught by Full-Time Faculty	Taught by Part-Time Faculty	Total Three-Credit Sections	Comments*
Lower	2	6	8	
Upper	3	0	3	
Grad	0	0	0	
Total	5	6	11	

Spring 2009

Level	Taught by Full-Time Faculty	Taught by Part-Time Faculty	Total Three-Credit Sections	Comments*
Lower	3	7	10	
Upper	4	0	4	
Grad	0	0	0	
Total	7	7	14	

Fall 2009

Level	Taught by Full-Time Faculty	Taught by Part-Time Faculty	Total Three-Credit Sections	Comments*
Lower	1	9	10	
Upper	2	0	2	
Grad	0	0	0	
Total	3	9	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 2004 – Fall 2009

	Fall 2004	Fall 2005	Fall 2006	Fall 2007	Fall 2008	Fall 2009
Professor	1	1	1	1	1	1
Associate Professor	2	2	2	3	3	3
Assistant Professor	2	3	4	3	3	3
Instructor	0	0	0	0	0	0
Total Full-Time Faculty	5	6	7	7	7	7

Number of Full-Time Faculty by Tenure Fall 2004 – Fall 2009

	Fall 2004	Fall 2005	Fall 2006	Fall 2007	Fall 2008	Fall 2009
Tenured	4	3	3	5	5	5
Not tenured	1	3	3	1	2	2
Not on tenure-track	0	0	1	1	0	0
% Tenured*	80.0%	50.0%	50.0%	83.3%	71.4%	71.4%

* Of tenure-track faculty

III. Faculty (continued)

Number of Full-Time Faculty (Tenured or Tenure-Track) by Gender Fall 2004 – Fall 2009

	Fall 2004	Fall 2005	Fall 2006	Fall 2007	Fall 2008	Fall 2009
Men	4	5	5	5	6	6
Women	1	1	1	1	1	1
% Female	20.0%	16.7%	16.7%	16.7%	14.3%	14.3%

Number of Full-Time Faculty (Tenured or Tenure-Track) by Race/Ethnicity Fall 2004 – Fall 2009

	Fall 2004	Fall 2005	Fall 2006	Fall 2007	Fall 2008	Fall 2009
Native American	0	0	0	0	0	0
Asian	2	2	2	2	3	3
Black	0	0	0	0	0	0
Hispanic	0	0	0	0	0	0
Cape Verdean	0	0	0	0	0	0
White	3	4	4	4	4	4
International	0	0	0	0	0	0
Unknown	0	0	0	0	0	0
Total Faculty of Color	2	2	2	2	3	3
% Faculty of Color	40.0%	33.3%	33.3%	33.3%	42.9%	42.9%

Number of Full-Time Faculty (Tenured or Tenure Track) by Terminal Degree Fall 2004– Fall 2009

	Fall 2004	Fall 2005	Fall 2006	Fall 2007	Fall 2008	Fall 2009
With Terminal Degree	5	6	6	6	7	7
Without Terminal Degree	0	0	0	0	0	0
% with Terminal Degree	100%	100%	100%	100%	100%	100%

IV. Student/Faculty Ratio

Student FTE, Faculty FTE and Student/Faculty Ratio Fall 2004 – Fall 2009

	Student FTE			Faculty FTE			Student/ Faculty Ratio
	UG	GR	Total	Full-Time	Part-Time	Total	
Fall 2004	98.4	2.0	100.4	4.5	3.1	7.6	13:1
Fall 2005	104.7	4.6	109.3	5.8	2.1	7.9	14:1
Fall 2006	100.1	5.3	105.4	6.7	4.4	11.1	10:1
Fall 2007	93.1	8.5	101.6	6.0	2.0	8.0	13:1
Fall 2008	107.7	9.2	116.9	5.8	2.8	8.6	14:1
Fall 2009	131.8	5.3	137.1	5.7	3.1	8.8	16:1

Comparison of Student/Faculty Ratio Fall 2004 – Fall 2009

	Chemical Sciences	School of Arts and Sciences	Bridgewater State College
Fall 2004	13:1	20:1	20:1
Fall 2005	14:1	21:1	20:1
Fall 2006	10:1	20:1	20:1
Fall 2007	13:1	20:1	20:1
Fall 2008	14:1	20:1	19:1
Fall 2009	16:1	23:1	23:1

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 2003/04 – 2008/09

	2003/04	2004/05	2005/06	2006/07	2007/08	2008/09
Chemistry	1	1	2	1	0	4
Biochemistry	7	2	10	5	6	5
Environmental Chemistry	2	1	2	3	0	1
Professional Chemistry	4	3	2	5	0	8
Geology/Chemistry	N/A	N/A	N/A	0	1	2
Total	14	7	16	14	7	20

Number of Baccalaureate Degree Recipients by Gender 2003/04 – 2008/09

	2003/04	2004/05	2005/06	2006/07	2007/08	2008/09
Men	6	3	9	9	2	8
Women	8	4	7	5	5	12
% Female	57.1%	57.1%	43.8%	35.7%	71.4%	60.0%

Number of Baccalaureate Degree Recipients by Race/Ethnicity 2003/04 – 2008/09

	2003/04	2004/05	2005/06	2006/07	2007/08	2008/09
Native American	0	0	0	0	0	1
Asian	0	0	2	0	0	1
Black	1	0	1	0	0	1
Hispanic	0	0	0	1	0	0
Cape Verdean	0	0	0	0	0	0
White	10	4	12	12	5	13
International	1	1	0	0	0	2
Unknown	2	2	1	1	2	2
Total Students of Color	1	0	3	1	0	3
% Students of Color	7.1%	0.0%	18.8%	7.1%	0.0%	15.0%

Note: Includes double majors

V. Student Progress (continued)

Number of Baccalaureate Degree Recipients with Minor in Chemistry 2003/04 – 2008/09

	2003/04	2004/05	2005/06	2006/07	2007/08	2008/09
Chemistry	13	12	12	8	17	15

Number of Baccalaureate Degree Recipients with Minor in Chemistry by Gender 2003/04 – 2008/09

	2003/04	2004/05	2005/06	2006/07	2007/08	2008/09
Men	3	3	5	3	3	2
Women	10	9	7	5	14	13
% Female	76.9%	75.0%	58.3%	62.5%	82.4%	86.7%

Number of Baccalaureate Degree Recipients with Minor in Chemistry by Race/Ethnicity 2003/04 – 2008/09

	2003/04	2004/05	2005/06	2006/07	2007/08	2008/09
Native American	0	0	0	0	0	0
Asian	0	0	0	0	0	0
Black	0	0	1	0	1	3
Hispanic	1	1	0	0	0	2
Cape Verdean	0	0	0	0	0	0
White	12	9	8	5	14	10
International	0	2	2	0	0	0
Unknown	0	0	1	3	2	0
Total Students of Color	1	1	1	0	1	5
% Students of Color	7.7%	8.3%	8.3%	0.0%	5.9%	33.3%

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	8	5	63%	0	0%	5	63%	0	0%	0	0%	0	0%	3	38%
Fall 2007	21	11	52%	3	14%	14	67%	0	0%	0	0%	0	0%	7	33%
Fall 2008	16	10	63%	0	0%	10	63%	0	0%	0	0%	0	0%	6	38%
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	17	14	82%	2	12%	16	94%	0	0%	0	0%	0	0%	1	6%
Fall 2007	9	6	67%	1	11%	7	78%	0	0%	0	0%	0	0%	2	22%
Fall 2008	15	8	53%	3	20%	11	73%	0	0%	0	0%	0	0%	4	27%
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	19	11	58%	5	26%	16	84%	0	0%	0	0%	0	0%	3	16%
Fall 2007	24	19	79%	2	8%	21	88%	1	4%	0	0%	1	4%	2	8%
Fall 2008	19	12	63%	0	0%	12	63%	0	0%	0	0%	0	0%	7	37%
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	24	9	38%	0	0%	9	38%	11	46%	1	4%	12	50%	3	13%
Fall 2007	21	11	52%	0	0%	11	52%	6	29%	0	0%	6	29%	4	19%
Fall 2008	34	10	29%	0	0%	10	29%	20	59%	1	3%	21	62%	3	9%

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	9	1	11%	1	11%	2	22%	3	33%	1	11%	4	44%	3	33%
Sophomores	12	0	0%	0	0%	0	0%	3	25%	4	33%	7	58%	5	42%
Juniors	23	1	4%	1	4%	2	9%	4	17%	13	57%	17	74%	4	17%
Seniors	18	0	0%	0	0%	0	0%	3	17%	12	67%	15	83%	3	17%