

Undergraduate Retention and Graduation Report

Program: **Physics**

Introduction

Section 1: Retention and Graduation Information for Students Tracked from Their First Year

Section 1a: Retention and Graduation – Tracking First Year Students

Section 1b: Retention and Graduation – Tracking from First Year: A Comparison – the Program, the Faculty, and Brock

Section 2: Retention and Graduation Information for Students Tracked from Second Year

Section 2a: Retention and Graduation – Tracking from Second Year

Section 2b: Retention and Graduation – Tracking from Second Year: A Comparison – the Program, the Faculty, and Brock

Retention and Graduation Report: Introduction

The report is Retention and Graduation for 10 years of entering baccalaureate degree-seeking cohort. Students included in each cohort were those 1) registered in a **first entry bachelor program and admitted in the fall term of the past 10 years**, 2) **had not attended a postsecondary institution prior to attending Brock**, and 3) **were full-time and took an equivalent of two full courses in the fall term at time of entry**. In summary, only **first-time full-time** first entry bachelor degree seeking students were included in the cohort of each year.

Section 1 (1a and 1b) includes retention and graduation information for students tracked from their first year at Brock. The following are the details:

Section 1a Retention and Graduation - Tracking First Year (Program) Students. It reports retention and graduation for students entering Brock in a particular program. Using the table for Program A (below) as an example: There were a total of **23** students started Program A in fall 2000, in fall 2001, 23 of the **23 (100%)** enrolled, **22 (95.7%)** continued in program A and **1 (4.3%)** enrolled in another program; in fall 2002, **22 (95.7%)** of the 23 students in the entry cohort were enrolled, **19 (82.6%)** of the original 23) were enrolled in Program A and **3 (13.0%)** were enrolled in other programs; in fall 2003, **17 (73.9%)** of the 23 students) were enrolled, **16 (69.6%)** of the original cohort) continued in Program A and **1 (4.3%)** was enrolled in another program; by fall 2006, **21 (91.3%)** of the 23 students in the initial cohort) graduated/completed their study, of which **18 (78.3%)** of 23) completed/graduated in program A and **3 (13%)** of 23) completed/graduated in other programs. The charts on page 2 & 3 illustrate retention and graduation rates of each cohort group by gender.

1a: Retention and Graduation - Tracking First Year Program A Students

Cohort			----- Retention -----												----- Graduation -----											
Type	Year	Count	Continued to 2nd Yr		Same Program		Other Program		Continued to 3rd Yr		Same Program		Other Program		Continued to 4th Yr		Same Program		Other Program		Graduated in 6 Yrs		Same Program		Other Program	
			#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%
Total	2000	23	23	100%	22	95.7%	1	4.3%	22	95.7%	19	82.6%	3	13.0%	17	73.9%	16	69.6%	1	4.3%	21	91.3%	18	78.3%	3	13.0%

Section 1b (Page 4 - 6) Retention and Graduation - Tracking First Year: Comparison -- Program, Faculty and Brock. This report compares retention and graduation rates for students started in a particular program, students started in the Faculty where the program is offered, and all students started in the same year at Brock. Using the table for Program A (below) as an example: For the 2000 entry cohort, the first year to second year retention rate for students started in program A was 100% in comparison to 89.9% for students started in the Faculty where Program A is offered and 89.8% for all students started in the same year at Brock; the first year to third year retention rates for students in the forementioned three groups were 95.7%, 73.9%, and 75.2%; the first year to fourth year retention rates were 73.9%, 66.2%, and 67.7%; by fall 2006, **91.3%** of the students started in Program A had either graduated or completed their study, only 67.6% of the students started in the Faculty (where Program A belongs) had either graduated or completed their studies and 72.7% of all students started in the same year at Brock had either graduated or completed their studies. The charts illustrate the above comparisons for each of the cohort groups.

1b: Retention and Graduation-Tracking from First Year: Comparison --
Program A, The Faculty, and Brock

Cohort		Retention									Graduation		
Type	Year	Continued to 2nd Year			Continued to 3rd Year			Continued to 4th Year			Graduated in 6 Years		
		A	FCTY	Brock	A	FCTY	Brock	A	FCTY	Brock	A	FCTY	Brock
		%	%	%	%	%	%	%	%	%	%	%	%
Total	2000	100%	89.9%	89.8%	95.7%	73.9%	79.2%	73.9%	66.2%	67.7%	91.3%	67.6%	72.7%

Retention and Graduation Report: Introduction

Section 2 (2a and 2b) includes retention and graduation information for students tracked from their second year at Brock. The following are the details:

Section 2a Retention and Graduation - Tracking from Second Year: (Program). It reports retention and graduation for students entered Brock in a particular year. These students were tracked from their second year at Brock and by the program they were enrolled at their second year. Using the table for Program A (below) as an example: There were a total of **23** students started Program A in fall 2000, in fall 2001, a total of 30 students (out of Brock's entry cohort of fall 2000) enrolled in Program A at their second year, of the 30 students enrolled in Program A at their second year, **22 (73.3%)** of the 30) started in program A in fall 2000 and 8 (**26.7%**) started in other programs in fall 2000; in fall 2002, **28** of the 30 students (**93.3%**) were enrolled at Brock, of these 28 students enrolled, 26 (**86.7%** of the 30) were enrolled in Program A and **2 (6.6%)** were enrolled in other programs; in fall 2003, **22 (73.3%** of the 30 students) were enrolled, and all of the **22** continued in Program A; by fall 2006, **27 (90.0%** of the 30 students) had either graduated or completed their studies, of which **25 (83.3%** of 30) had graduated or completed their studies in Program A and **2 (6.7%** of 30) had graduated or completed their studies in other programs. The charts on page 8 & 9 illustrate retention and graduation rates by program and by gender of each cohort group.

2a: Retention and Graduation-Track from Second Year: Program A

Cohort			----- Retention -----												----- Graduation -----											
Type	Year	1st Year Count	2nd Yr in Program A		First Year Program A		First Year Non-A		Continued to 3rd Yr from 2nd Yr		Same Program		Other Program		Continued to 4th Yr from 2nd Yr.		Same Program		Other Program		Graduated in 5 Yrs from 2nd Yr.		Same Program		Other Program	
			#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%
Total	2000	23	30	100%	22	73.3%	8	26.7%	28	93.3%	26	86.7%	2	6.7%	22	73.3%	22	73.3%	0	0.0%	27	90.0%	25	83.3%	2	6.7%

Section 2b Retention and Graduation - Tracking from Second Year: Comparison -- Program, Faculty and Brock. This report compares retention and graduation rates for students in a particular program, students in the Faculty where the program is offered, and all students at Brock. Using the table for Program A (below) as an example: The first part are the first year to second year retention rates for students started in program A in comparison to that for students started in the Faculty where Program A is offered and that for all students started in the same year at Brock; The following parts are results from tracking students at their second year: the second year to third year retention rates were **93.3%** for students who were enrolled in Program A in fall 2001 (i.e their second year), in comparison to **84.7%** for students enrolled in the Faculty in their second year and **88.2%** for all students enrolled in their second year at Brock; the second year to fourth year retention rates were **73.3%**, **74.6%**, and **75.4%**; by fall 2006, **90.0%** of the students enrolled in Program A at their second year had either graduated or completed their study, in comparison to **78.5%** for the students enrolled in the Faculty (where Program A belongs) at their second year and **81.0%** for all students enrolled at Brock at their second year. The charts illustrate the above comparisons for the three groups in each cohort year.

**2b: Retention and Graduation-Track from Second Year: Comparison --
Program A, The Faculty, and Brock**

Cohort		Retention									Graduation			
Type	Year	1st Yr as Program A Students Continued to 2nd Year			2nd Year As Program A Students to 3rd Year			2nd Year as Program A Students to 4th Year			Graduated in 5 Years from 2nd Year as Program A Students			
		A	Fcty	Brock	A	Fcty	Brock	A	Fcty	Brock	A	Fcty	Brock	
		%	%	%	%	%	%	%	%	%	%	%	%	
Total	2000	95.5%	89.9%	89.8%	93.3%	84.7%	88.2%	73.3%	74.6%	75.4%	90.0%	78.5%	81.0%	

2013 Documentation Form

The following table provides the point-in-time for reporting each data cell:

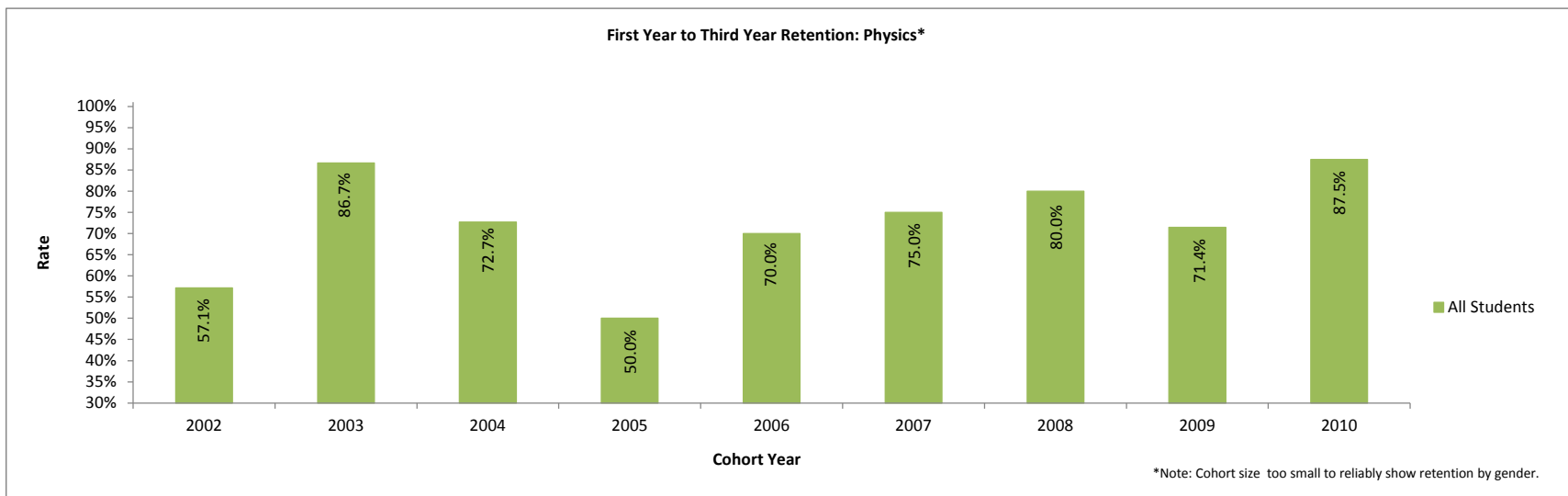
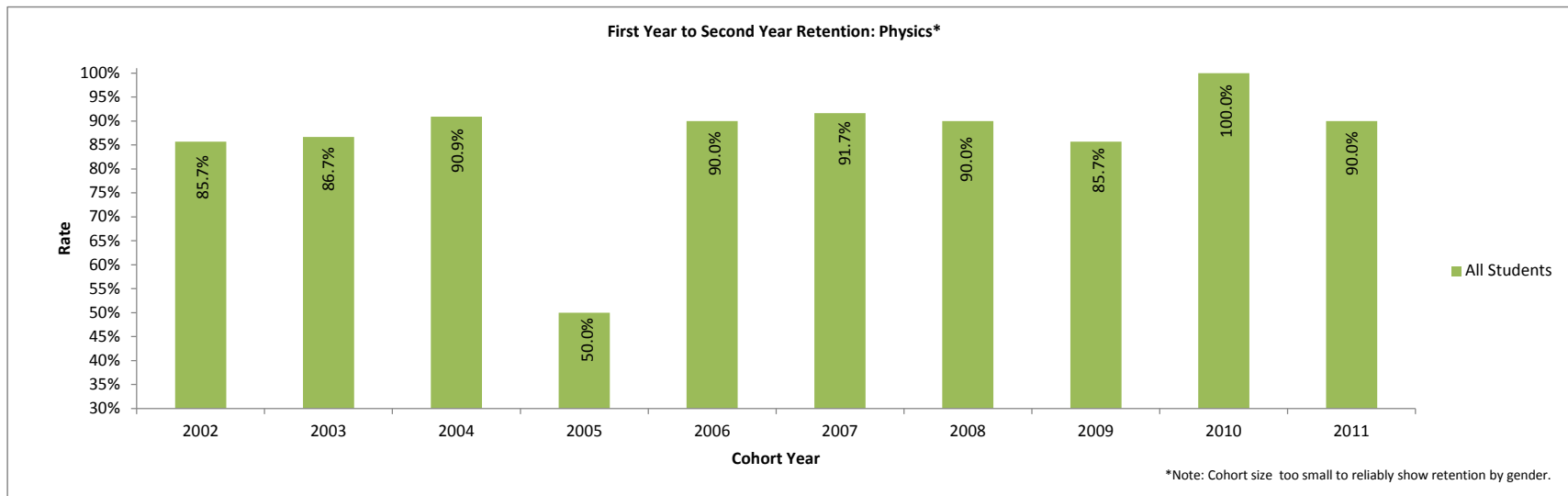
		----- Continuation Rates -----			Graduation
Cohort	Head	Continued	Continued	Continued	Graduated
<u>Year</u>	<u>Count</u>	<u>to 2nd Yr</u>	<u>to 3rd Yr</u>	<u>to 4th Yr</u>	<u>in 6 Yrs</u>
2002	<u>Fall 02</u>	<u>Fall 03</u>	<u>Fall 04</u>	<u>Fall 05</u>	<u>by Fall 08</u>
2003	<u>Fall 03</u>	<u>Fall 04</u>	<u>Fall 05</u>	<u>Fall 06</u>	<u>by Fall 09</u>
2004	<u>Fall 04</u>	<u>Fall 05</u>	<u>Fall 06</u>	<u>Fall 07</u>	<u>by Fall 10</u>
2005	<u>Fall 05</u>	<u>Fall 06</u>	<u>Fall 07</u>	<u>Fall 08</u>	<u>by Fall 11</u>
2006	<u>Fall 06</u>	<u>Fall 07</u>	<u>Fall 08</u>	<u>Fall 09</u>	<u>By Fall 12</u>
2007	<u>Fall 07</u>	<u>Fall 08</u>	<u>Fall 09</u>	<u>Fall 10</u>	
2008	<u>Fall 08</u>	<u>Fall 09</u>	<u>Fall 10</u>	<u>Fall 11</u>	
2009	<u>Fall 09</u>	<u>Fall 10</u>	<u>Fall 11</u>	<u>Fall 12</u>	
2010	<u>Fall 10</u>	<u>Fall 11</u>	<u>Fall 12</u>		
2011	<u>Fall 11</u>	<u>Fall 12</u>			

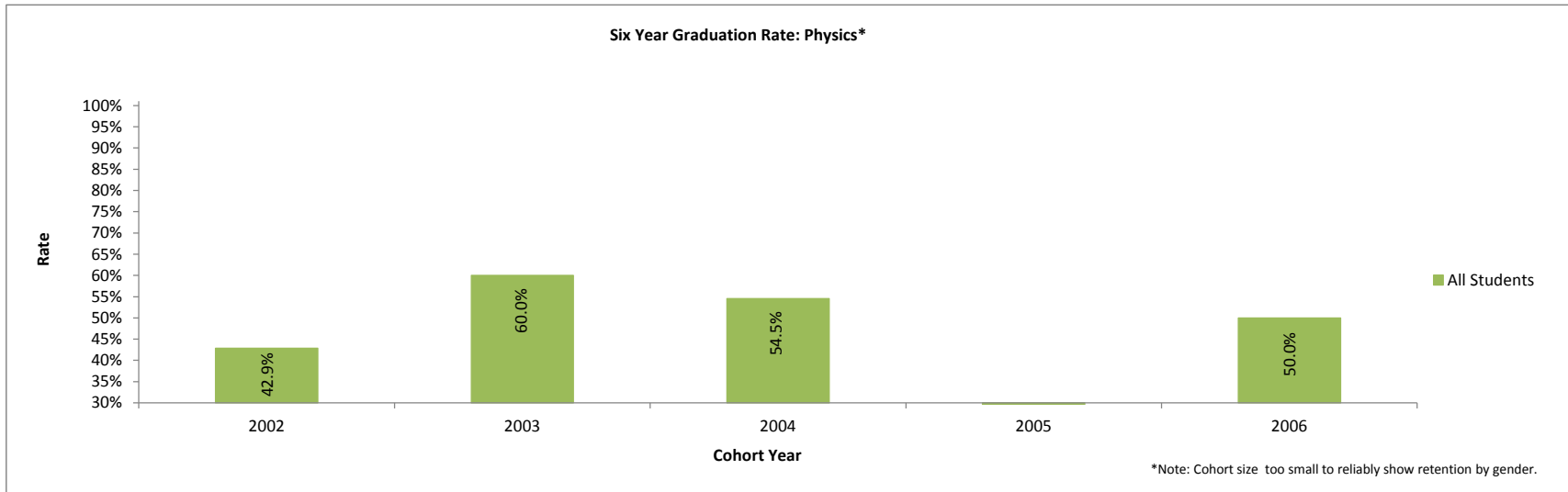
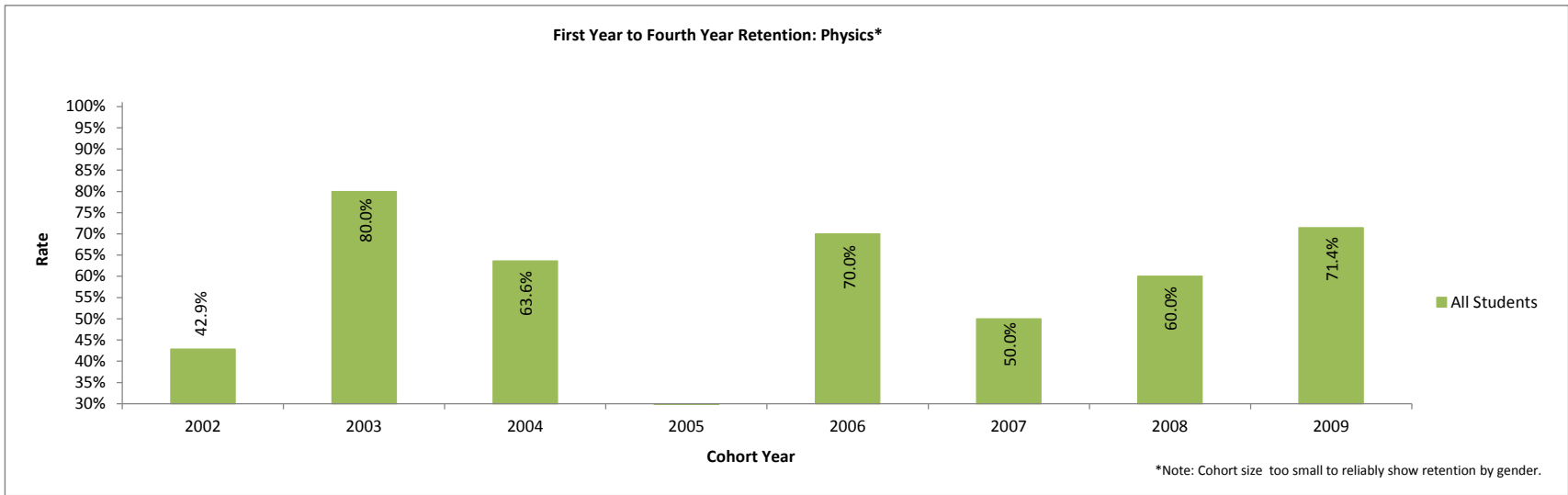
Section 1a: Retention and Graduation - Tracking First Year Physics Students

Cohort*			----- Retention -----												----- Graduation -----											
Type	Year	Count	Continued to 2nd Yr		Same Program		Other Program		Continued to 3rd Yr		Same Program		Other Program		Continued to 4th Yr		Same Program		Other Program		Graduated in 6 Yrs		Same Program		Other Program	
			#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%
All Students	2002	7	6	85.7%	3	<u>42.9%</u>	3	42.9%	4	57.1%	2	<u>28.6%</u>	2	28.6%	3	42.9%	1	<u>14.3%</u>	2	28.6%	3	42.9%	1	<u>14.3%</u>	2	28.6%
	2003	15	13	86.7%	11	<u>73.3%</u>	2	13.3%	13	86.7%	10	<u>66.7%</u>	3	20.0%	12	80.0%	9	<u>60.0%</u>	3	20.0%	9	60.0%	6	<u>40.0%</u>	3	20.0%
	2004	11	10	90.9%	9	<u>81.8%</u>	1	9.1%	8	72.7%	6	<u>54.5%</u>	2	18.2%	7	63.6%	5	<u>45.5%</u>	2	18.2%	6	54.5%	6	<u>54.5%</u>	0	0.0%
	2005	2	1	50.0%	0	<u>0.0%</u>	1	50.0%	1	50.0%	0	<u>0.0%</u>	1	50.0%	0	0.0%	0	<u>0.0%</u>	0	0.0%	0	0.0%	0	<u>0.0%</u>	0	0.0%
	2006	10	9	90.0%	6	<u>60.0%</u>	3	30.0%	7	70.0%	6	<u>60.0%</u>	1	10.0%	7	70.0%	6	<u>60.0%</u>	1	10.0%	5	50.0%	5	<u>50.0%</u>	0	0.0%
	2007	12	11	91.7%	8	<u>66.7%</u>	3	25.0%	9	75.0%	7	<u>58.3%</u>	2	16.7%	6	50.0%	5	<u>41.7%</u>	1	8.3%						
	2008	10	9	90.0%	6	<u>60.0%</u>	3	30.0%	8	80.0%	6	<u>60.0%</u>	2	20.0%	6	60.0%	4	<u>40.0%</u>	2	20.0%						
	2009	14	12	85.7%	10	<u>71.4%</u>	2	14.3%	10	71.4%	7	<u>50.0%</u>	3	21.4%	10	71.4%	6	<u>42.9%</u>	4	28.6%						
	2010	8	8	100.0%	6	<u>75.0%</u>	2	25.0%	7	87.5%	5	<u>62.5%</u>	2	25.0%												
	2011	10	9	90.0%	6	<u>60.0%</u>	3	30.0%																		

Notes:

** Only First-time & Full-time Bachelors Degree Seeking Students were included in the initial Cohort. A student is counted as continued in subsequent years regardless of FT/PT status in subsequent years. Definition for Full-time follows the "80%" rule, i.e. a first time degree seeking student (Basis = "E" and Non-CEGEP) registered for >= 2 full courses for the Fall term.



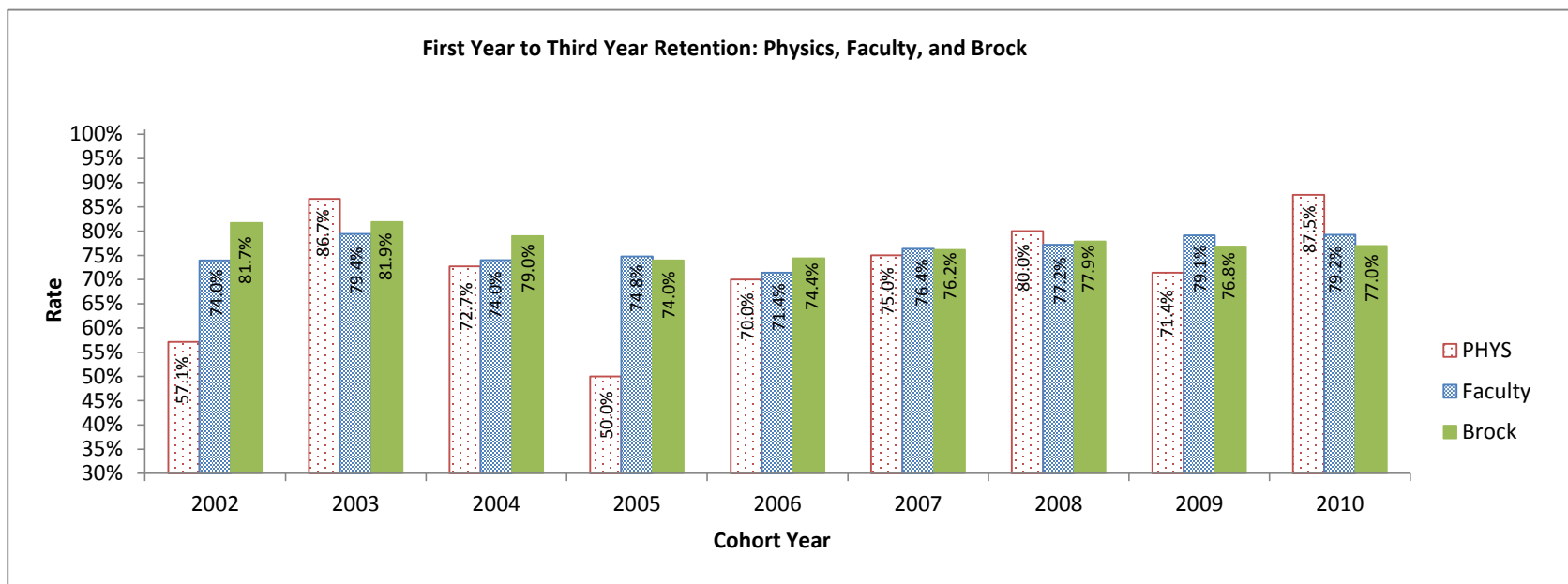
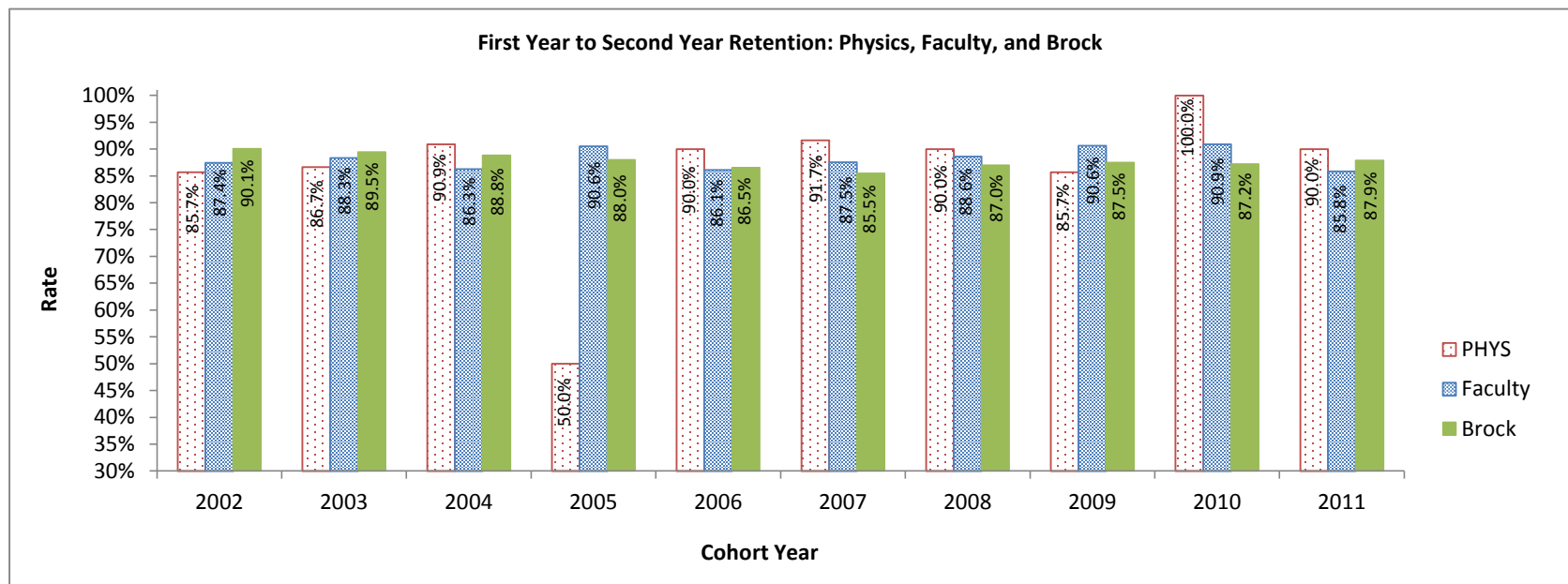


Section 1b: Retention and Graduation-Tracking from First Year: Comparison -- Physics, Faculty of Math and Sciences, and Brock

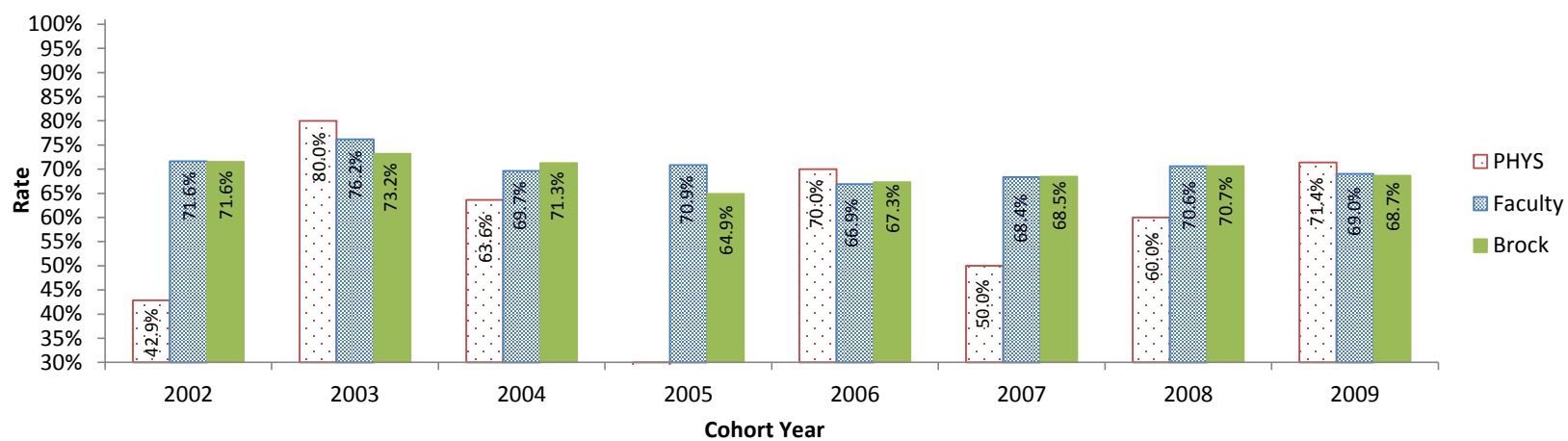
Cohort*		Retention									Graduation		
Type	Year	Continued to 2nd Year			Continued to 3rd Year			Continued to 4th Year			Graduated in 6 Years		
		PHYS	Faculty	Brock	PHYS	Faculty	Brock	PHYS	Faculty	Brock	PHYS	Faculty	Brock
		%	%	%	%	%	%	%	%	%	%	%	%
Total	2002	<u>85.7%</u>	<u>87.4%</u>	90.1%	<u>57.1%</u>	<u>74.0%</u>	81.7%	<u>42.9%</u>	<u>71.6%</u>	71.6%	<u>42.9%</u>	<u>67.9%</u>	76.4%
	2003	<u>86.7%</u>	<u>88.3%</u>	89.5%	<u>86.7%</u>	<u>79.4%</u>	81.9%	<u>80.0%</u>	<u>76.2%</u>	73.2%	<u>60.0%</u>	<u>71.1%</u>	76.1%
	2004	<u>90.9%</u>	<u>86.3%</u>	88.8%	<u>72.7%</u>	<u>74.0%</u>	79.0%	<u>63.6%</u>	<u>69.7%</u>	71.3%	<u>54.5%</u>	<u>65.7%</u>	73.3%
	2005	<u>50.0%</u>	<u>90.6%</u>	88.0%	<u>50.0%</u>	<u>74.8%</u>	74.0%	<u>0.0%</u>	<u>70.9%</u>	64.9%	<u>0.0%</u>	<u>66.1%</u>	68.3%
	2006	<u>90.0%</u>	<u>86.1%</u>	86.5%	<u>70.0%</u>	<u>71.4%</u>	74.4%	<u>70.0%</u>	<u>66.9%</u>	67.3%	<u>50.0%</u>	<u>60.0%</u>	68.1%
	2007	<u>91.7%</u>	<u>87.5%</u>	85.5%	<u>75.0%</u>	<u>76.4%</u>	76.2%	<u>50.0%</u>	<u>68.4%</u>	68.5%			
	2008	<u>90.0%</u>	<u>88.6%</u>	87.0%	<u>80.0%</u>	<u>77.2%</u>	77.9%	<u>60.0%</u>	<u>70.6%</u>	70.7%			
	2009	<u>85.7%</u>	<u>90.6%</u>	87.5%	<u>71.4%</u>	<u>79.1%</u>	76.8%	<u>71.4%</u>	<u>69.0%</u>	68.7%			
	2010	<u>100.0%</u>	<u>90.9%</u>	87.2%	<u>87.5%</u>	<u>79.2%</u>	77.0%						
	2011	<u>90.0%</u>	<u>85.8%</u>	87.9%									

Notes:

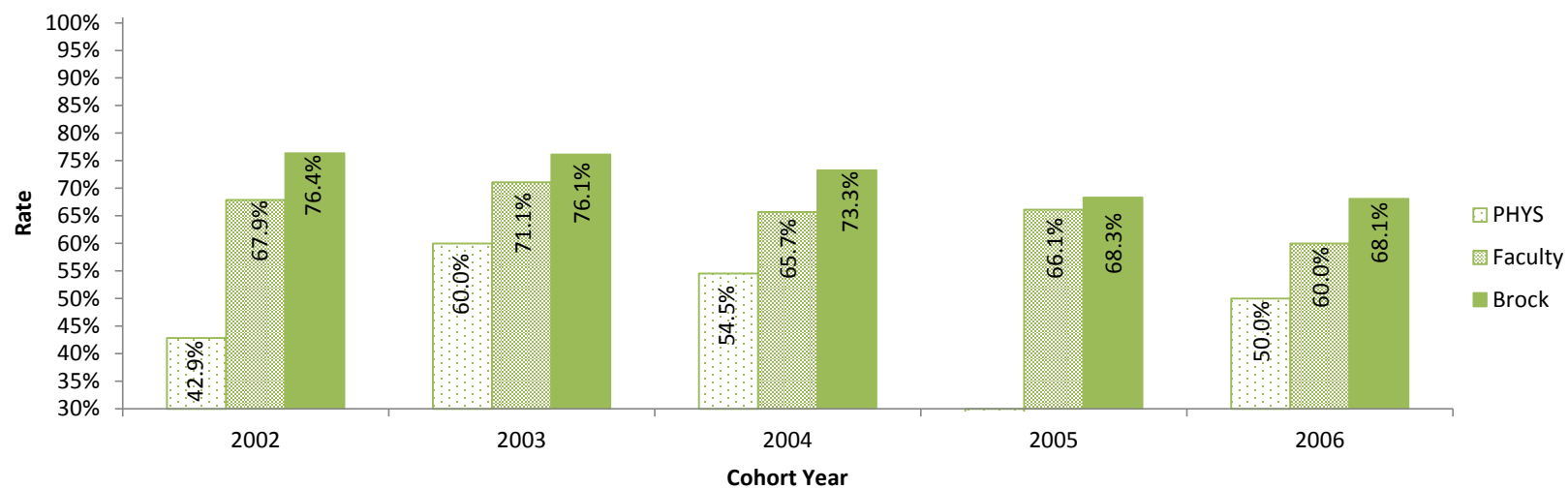
* Only First-time & Full-time Bachelors Degree Seeking Students were included in the initial Cohort. A student is counted as continued in subsequent years regardless of FT/PT status in subsequent years. Definition for Full-time follows the " 80%" rule, i.e. a first time degree seeking student (Basis = "E" and Non-CEGEP) registered for >= 2 full courses for the Fall term.



First Year to Fourth Year Retention: Physics, Faculty ,and Brock



Six Year Graduation Rates: Physics, Faculty, and Brock



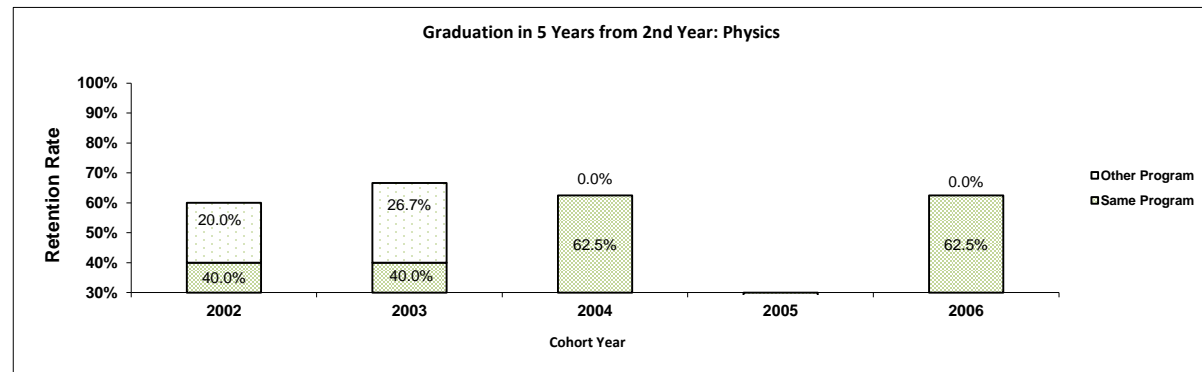
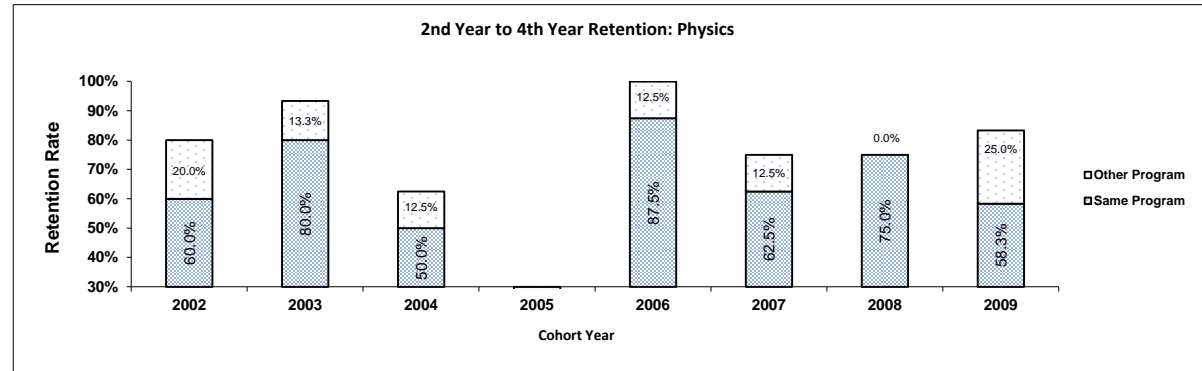
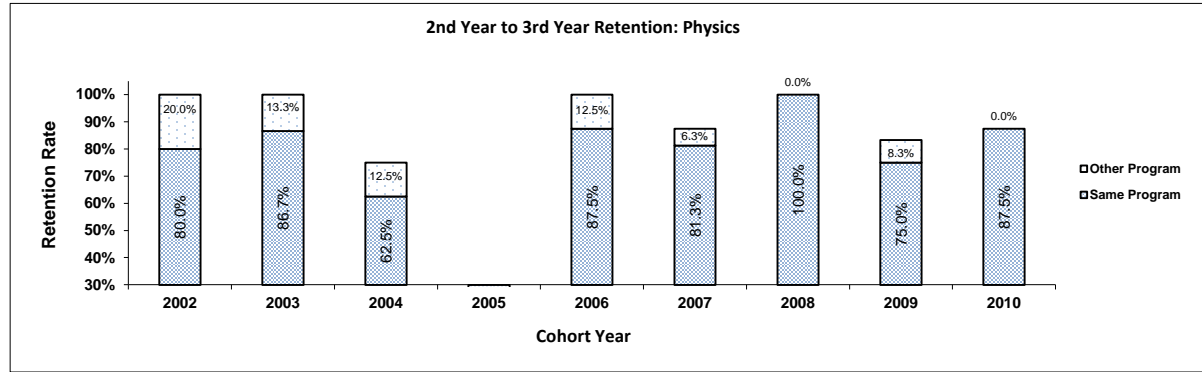
Section 2a: Retention and Graduation-Tracking from Second Year: Physics

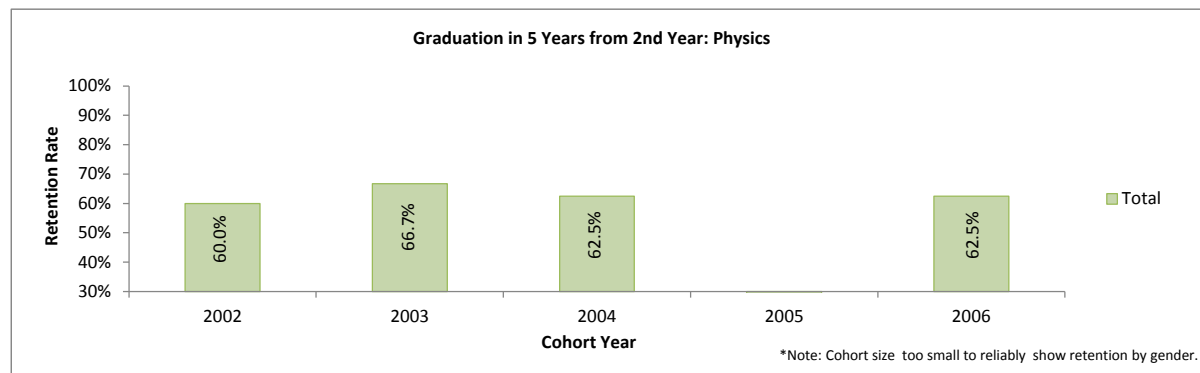
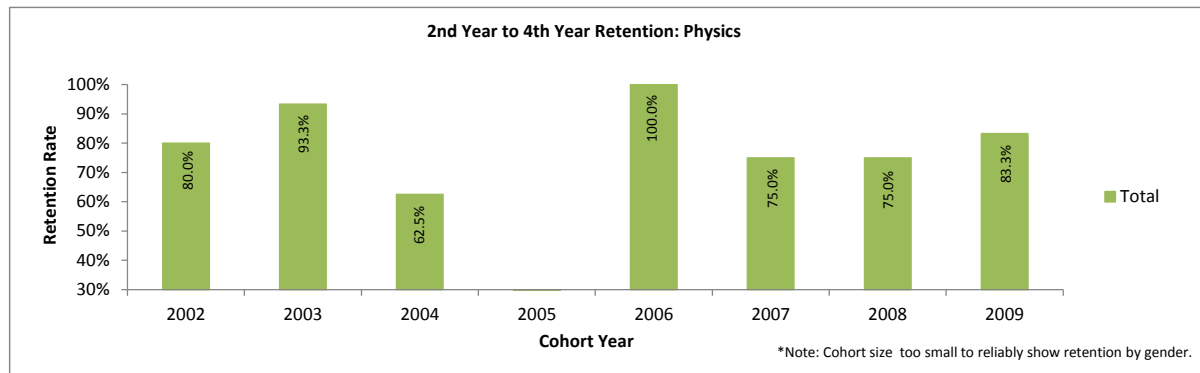
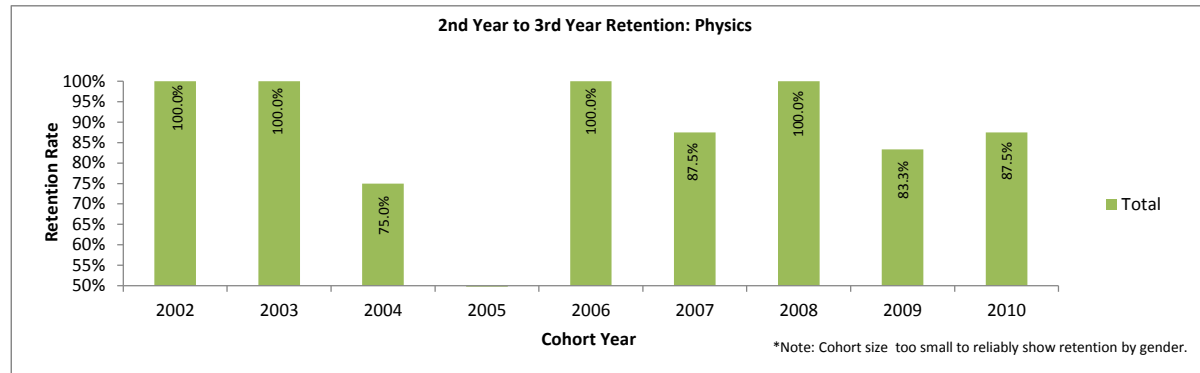
Cohort*			----- Retention -----												----- Graduation -----											
Type	Year	1st Year Count	2nd Yr in PHYS**		First Year PHYS		First Year Non-PHYS		Continued to 3rd Yr from 2nd Yr**		Same Program		Other Program		Continued to 4th Yr from 2nd Yr.**		Same Program		Other Program		Graduated in 5 Yrs from 2nd Yr.		Same Program		Other Program	
			#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%
Total	2002	7	5	100%	3	<u>60.0%</u>	2	40.0%	5	100.0%	4	<u>80.0%</u>	1	20.0%	4	80.0%	3	<u>60.0%</u>	1	20.0%	3	60.0%	2	<u>40.0%</u>	1	20.0%
	2003	15	15	100%	11	<u>73.3%</u>	4	26.7%	15	100.0%	13	<u>86.7%</u>	2	13.3%	14	93.3%	12	<u>80.0%</u>	2	13.3%	10	66.7%	6	<u>40.0%</u>	4	26.7%
	2004	11	8	100%	8	<u>100.0%</u>	0	0.0%	6	75.0%	5	<u>62.5%</u>	1	12.5%	5	62.5%	4	<u>50.0%</u>	1	12.5%	5	62.5%	5	<u>62.5%</u>	0	0.0%
	2005	2	0	#DIV/0!	0	<u>#DIV/0!</u>	0	#DIV/0!	0	#DIV/0!	0	<u>#DIV/0!</u>	0	#DIV/0!	0	#DIV/0!	0	<u>#DIV/0!</u>	0	#DIV/0!	0	#DIV/0!	0	<u>#DIV/0!</u>	0	#DIV/0!
	2006	10	8	100%	6	<u>75.0%</u>	2	25.0%	8	100.0%	7	<u>87.5%</u>	1	12.5%	8	100.0%	7	<u>87.5%</u>	1	12.5%	5	62.5%	5	<u>62.5%</u>	0	0.0%
	2007	12	16	100%	8	<u>50.0%</u>	8	50.0%	14	87.5%	13	<u>81.3%</u>	1	6.3%	12	75.0%	10	<u>62.5%</u>	2	12.5%						
	2008	10	8	100%	6	<u>75.0%</u>	2	25.0%	8	100.0%	8	<u>100.0%</u>	0	0.0%	6	75.0%	6	<u>75.0%</u>	0	0.0%						
	2009	14	12	100%	10	<u>83.3%</u>	2	16.7%	10	83.3%	9	<u>75.0%</u>	1	8.3%	10	83.3%	7	<u>58.3%</u>	3	25.0%						
	2010	8	8	100%	6	<u>75.0%</u>	2	25.0%	7	87.5%	7	<u>87.5%</u>	0	0.0%												
	2011	10	8	100%	6	<u>75.0%</u>	2	25.0%																		

Notes:

*Only First-time & Full-time Bachelors Degree Seeking Students were included in the initial Cohort. A student is counted as continued in subsequent years regardless of FT/PT status in subsequent years. Definition for Full-time follows the "80%" rule, i.e. a first time degree seeking student (Basis = "E" and Non-CEGEP) registered for >= 2 full courses for the Fall term.

** 2nd Yr, 3rd Yr, & 4th Yr refer to the next fall term and the two fall terms after, it does not refer to students' study year (i.e. program progression)





Section 2b: Retention and Graduation-Track from Second Year: Comparison -- Physics, Faculty of Math and Sciences, and Brock

Cohort*		Retention									Graduation		
Type	Year	1st Yr As PHYS Continued to 2nd Year**			2nd Year As PHYS to 3rd Year**			2nd Year as PHYS to 4th Year**			Graduated in 5 Years from 2nd Year as PHYS		
		PHYS	Faculty	Brock	PHYS	Faculty	Brock	PHYS	Faculty	Brock	PHYS	Faculty	Brock
		%	%	%	%	%	%	%	%	%	%	%	%
Total	2002	85.7%	87.4%	90.1%	100.0%	81.5%	90.7%	80.0%	81.5%	79.5%	60.0%	76.3%	84.8%
	2003	86.7%	88.3%	89.5%	100.0%	89.2%	91.5%	93.3%	85.0%	81.8%	66.7%	78.4%	85.1%
	2004	93.2%	86.3%	88.8%	75.0%	85.0%	89.0%	62.5%	79.8%	80.3%	62.5%	75.1%	82.5%
	2005	88.9%	90.6%	88.0%	#DIV/0!	82.2%	84.0%	#DIV/0!	76.4%	73.8%	#DIV/0!	71.9%	77.6%
	2006	88.6%	86.1%	86.5%	100.0%	82.1%	86.0%	100.0%	76.4%	77.8%	62.5%	68.9%	78.7%
	2007	81.1%	87.5%	85.5%	87.5%	86.8%	89.1%	75.0%	77.6%	80.1%			
	2008	85.1%	88.6%	87.0%	100.0%	86.9%	89.6%	75.0%	81.0%	81.2%			
	2009	82.5%	90.6%	87.5%	83.3%	88.7%	87.8%	83.3%	80.0%	78.5%			
	2010	90.7%	90.9%	87.2%	87.5%	86.0%	88.3%						
	2011	91.4%	85.8%	87.9%									

Notes:

*Only First-time & Full-time Bachelors Degree Seeking Students were included in the initial Cohort. A student is counted as continued in subsequent years regardless of FT/PT status in subsequent years. Definition for Full-time follows the "80%" rule, i.e. a first time degree seeking student (Basis = "E" and Non-CEGEP) registered for >= 2 full courses for the Fall term.

**2nd Yr, 3rd Yr, & 4th Yr refer to the next fall term and the two fall terms after, it does not refer to students' study year (i.e. program progression)

