

First Year Course Coordinators

The Department of Mathematics welcomed new staff members who have assumed coordination duties for some of the largest courses in the undergraduate program. These individuals along with some of the others who have done this before worked hard to enable a smooth start to the semester, adjusting schedules, classrooms and demands in order to utilize the limited resources. Thanks to:

Abe Igelfeld – MAT133Y1	906
Sarah Mayes-Tang - MAT135H1	2605
Alfonso Gracia-Saz- MAT137Y1	1258
Joe Repka - MAT157Y1	186
Nicholas Hoell – MAT223H1	1483
Eckhard Meinrenken – MAT240H1	191

Large second term courses:

Nicholas Hoell – MAT223H1	735
Jason Siefken – MAT224H1	910
Steve Kudla – MAT247H1	200

More Data On the Teaching

There are 158 lecture sections for 2017-2018 Faculty of Arts and Science courses, including four first year seminar courses and 48 lecture sections of Engineering courses.

Courses with four or more lecture sections				
Course	October 2017 # of sections	October 2017 # of students	Max. Section Size	Number of TAs (2017)
MAT133Y1 Y	6	906	250	17
MAT135H1 F	14	2605	250	46
MAT136H1 S	13	2501	240	40
MAT137Y1 Y	8	1258	255	17
MAT223H1 F	8	1483	278	27
MAT223H1 S	7	735	250	20
MAT224H1 S	5	910	222	18
MAT235Y1 Y	8	1395	196	23
MAT244H1 F	3	504	196	5
MAT244H1 S	3	460	196	4
MAT186H1 F	8	762	164	24
MAT188H1 F	8	837	164	25
MAT187H1 S	8	833	164	24

Enrolments from ROSI as of October 19th, 2017

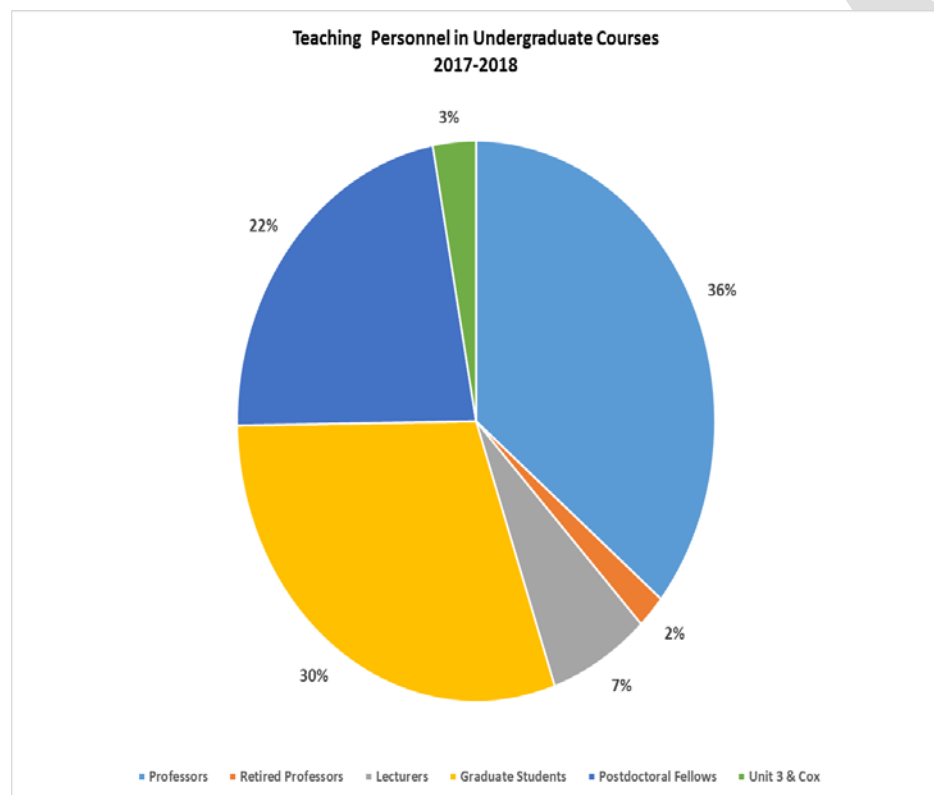
Summer Lecture Sections

FCES - Faculty of Arts and Science (FAS) Courses Only		
FAS Summer 2017	FAS, Fall Session 20179	FAS, Winter/S Session 20181
19H Courses	135H Courses	72 H Courses
7 Y Courses	30 Y Courses	0 Y Courses
33 Half FCEs	195 Half FCEs	72 Half FCEs

Teaching Categories

Professors account for the largest group of instructors.

- Professors: 37
- Retired Professors: 2
- Lecturers: 7
- Graduate Students: 31
- Postdoctoral Fellows: 23
- Unit 3 & Cox: 3



Program Enrolment

This year the Department of Mathematics is the second largest department in terms of undergraduate enrolment with 3153 students registered students. The Statistics Department hold the number one spot with a grand total of 3937.

How do our numbers compare with some of the other science departments?

1. Human Biology 3003
2. Commerce 2027
3. Computer Science 2383
4. Economics 1981
5. English 1895
6. Physics 520
7. Chemistry 465

Program Enrolment (Fall 2017)	
POST code and title	Total Subject POST enrolments
ASMAJ1165 - MA MATHEMATICS	1234
ASMIN1165 - MI MATHEMATICS	991
ASSPE0397 - SP MATHEMATICS & PHYSICS	80
ASSPE1165 - SP MATHEMATICS	161
ASSPE1361 - SP MATHEMATICS & PHILOSOPHY	20
ASSPE1580 - SP MATH & ITS APPL(TEACHING)	16
ASSPE1700 - SP MATH APPL(ECON & FINANCE)	428
ASSPE1758 - SP MATH & ITS APPL (PHYS SCI)	18
ASSPE1890 - SP MATH & ITS APPL (PROB STAT)	142
ASSPE2053 - SP APPLIED MATHEMATICS	62
MAT Total	3153

How does this year’s program enrolment compare to previous years?

PROGRAM ENROLMENT BY YEARS (2008-2017)										
Program of Study	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Math Major	322	325	366	365	461	523	721	925	1082	1234
Math Minor	266	312	325	350	376	446	629	795	897	991
Math & Physics Sp.	49	54	47	50	47	58	67	70	86	80
Mathematics Sp.	83	101	103	97	93	93	113	120	133	161
Math & Philosophy Sp.	14	13	11	13	6	12	12	17	24	20
Math & Its Appl. Teaching	16	16	22	16	12	11	13	19	13	16
Math & Its Appl. Econ & Finance	131	194	225	272	238	259	336	427	434	428
Math & Its Appl. Physical Sci.	8	11	10	10	7	9	13	21	15	18
Math & Its Appl. Prob. & Stats.	16	23	27	41	50	58	63	107	112	142
Math & Its Appl. Comp. Sci.	9	9	7	5	6	2	1	0	0	0
Math & Its Appl. Design Own	8	6	3	5	3	3	2	1	1	1
Applied Mathematics Sp.	25	25	32	44	26	24	38	60	59	62
TOTAL	947	1089	1178	1268	1325	1498	2008	2562	2857	3153

Last year’s numbers

Growth was experienced by Statistics, Math, Computer Science and Commerce all the other departments experienced as reduction in enrolment. Last year the Department of Statistics had 3,225 students in

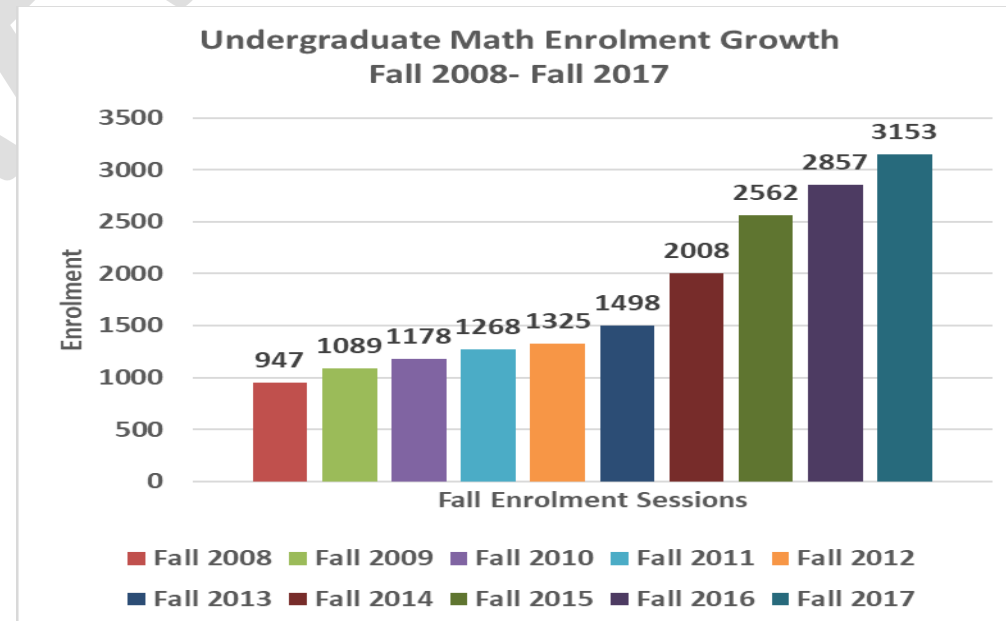
their program this year they grew by 712 students. Commerce had 1,954 students they grew by 73, Computer Science grew by 212 from 2,171, Human Biology fell from 3,118 by 115, Physics fell by 19 and Chemistry fell by 15 and English fell by 254 from 2149.

Slowing Growth in Math Enrolment

Ten years ago the department had less than 1000 students registered in programs that amount has more than tripled. Although we continue to grow, the rate of growth has been slowing over the last four sessions.

- Fall 2017 – Growth of 10% over the previous fall session
- Fall 2016 – Growth of 12% over the previous fall session
- Fall 2015 – Growth of 28% over the previous fall session
- Fall 2014 – Growth of 34% over the previous fall session

We’ve certainly seen growth in our own program over the years. Changes in the demand for math in other programs have also led to larger enrolment numbers in math courses.



How Many Students Are in the FAS Classes?

The data in the table below shows the number of enrollments in some the Faculty of Arts and Science courses as at February 1, 2017. In February, Mathematics courses accounted for the largest percent of Total Arts Sci. courses by any department.

The numbers are not yet available for the fall 2017 enrolment.

Department	Abbreviation	Number of Students	FCE's	% of Total Arts Sci FCEs
Anthropology	ANT	3836	2538	2.1
Astronomy	AST	3112	1570	1.3
Cells and Systems Biology	CSB	2650	1448	1.2
Ecology and Evolutionary Biology	EEB	2240	1141.5	0.9
Human Biology	HMB	4439	2274	1.9
Chemistry	CHM	5210	2709.5	2.2
Commerce	COM			
Computer Science	CSC	14751	7354.5	6.0
Economics	ECO	11251	8806	7.2
English	ENG	5287	3743	3.1
Mathematics	MAT	16437	10012	8.2
Physics	PHY	4397	2198.5	1.8
Political Studies	POL	6118	5160.5	4.2
Psychology	PSY	9453	4763	3.9
Sociology	SOC	6915	3922	3.2
Statistics	STA	7475	3749	3.1

Enrolment by Gender

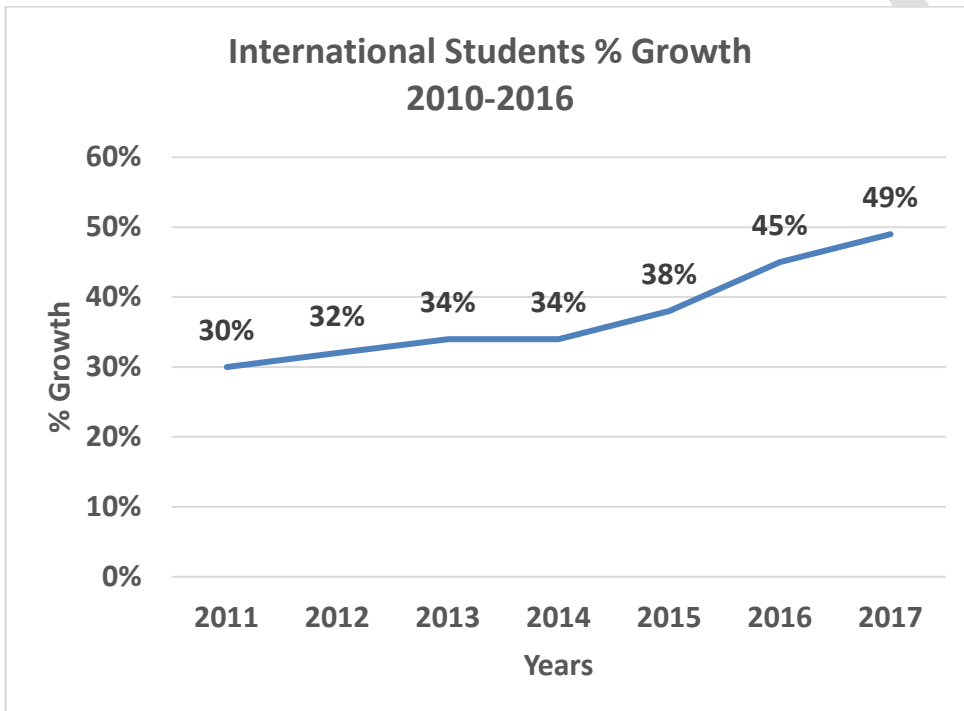
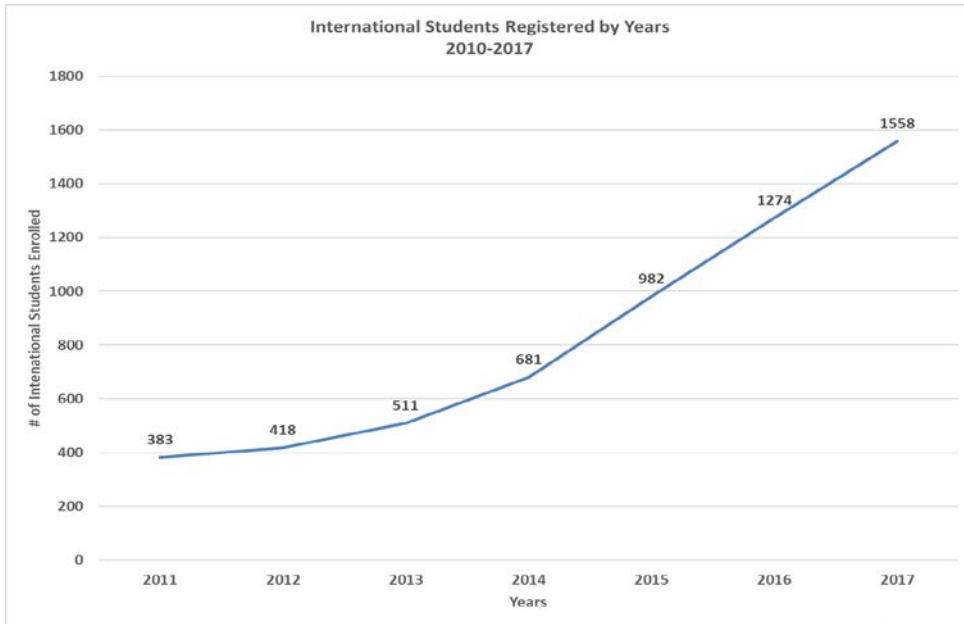
The enrolment by gender data does not account for all the students enrolled in the program since some students did not declare a gender; 1756 of them declared male as their gender and 1389 declared female as their gender.

In fall 2015 the number of males in the program stood at 57.7%, in fall 2016 the number of males in the program moved to 57% and this year the males account for 56%.

International Student Enrolment in Programs

The number of international students in the program has quadrupled between 2011 and 2017. International students now account for 49% of the total number of students enrolled in mathematics programs.

Session	International Students	% of Total Program Enrolment
Fall 2011	383	30%
Fall 2012	418	32%
Fall 2013	511	34%
Fall 2014	681	34%
Fall 2015	982	38%
Fall 2016	1274	45%
Fall 2017	1558	49%

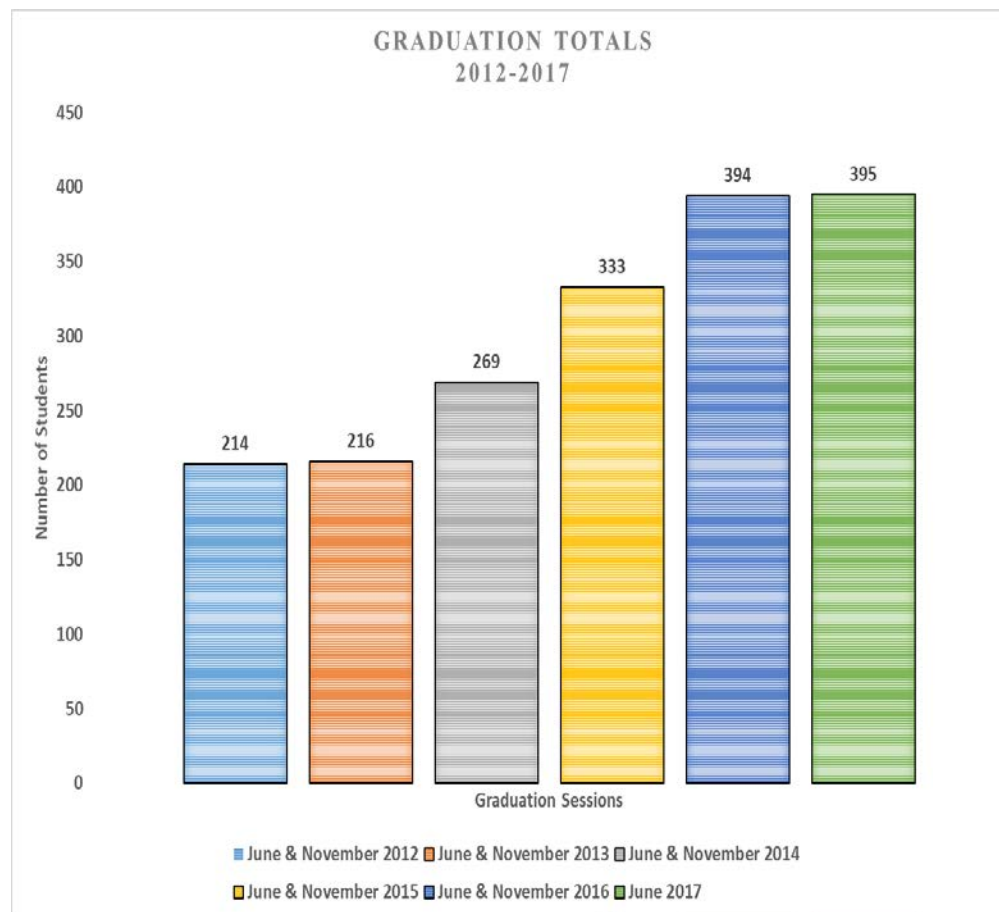


Graduates 2016 & 2017

Program of Study	June + November 2016	June 2017
Math Major	117+34	115+?
Math Minor	141+26	182+?
<i>Sp: Math & Physics</i>	8+2	8+?
<i>Sp: Mathematics</i>	8+1	15+?
<i>Sp: Math & Philosophy</i>	?	2+?
<i>Sp: Math & its Appl. Teaching</i>	1+0	4+?
<i>Sp: Math. Appl. to Econ & Finance</i>	37+7	49+
<i>Sp: Math & its Appl. Physical Sci.</i>	2+0	1+?
<i>Sp: Math & its Appl. Prob. & Stats.</i>	7+1	15+?
<i>Sp: Applied Mathematics</i>	2+0	4+?
Total	272+61=333	395

2012-2017 Graduation Totals

Please note that the Chart for 2017 on shows the June 2017 graduation total. This will be amended to show the full amount as soon as the November math graduate total is available.



Other Undergraduate Activities

The Department of Mathematics continue to execute programs that focus on enhancement of the students' experience.

- First Year Orientation Sessions – We held two sets of orientation session July and August. Sincere thank you to the Professors and instructors who took the time to counsel and/or demonstrate actual math content so that students may have an idea of the material in the course.
- Career development workshops and programs – No career development workshop were held last year
- Mentorship connections – The mentorship program grew to 46 pairs in 2017-2018. The mentee launch event will be held on October 26, 2017 and the MentorConnect session will take place in November. We are still inviting faculty participation in the mentorship activities.
- Peer Study Teams (PST) – The faculty of arts and Science has included MAT157Y, MAT240H1 and MAT247H1 in their Peer Study Team Project.
- Co-Curricular Credits awarded
- First-year Learning Communities – The MAT137Y and MAT157Y1 FLC communities are currently thriving with faculty supervision from Professor Joe Repka and Joel Kamnitzer.
- Backpack to Briefcase (B2) sessions
- PUTNAM Competition
- Undergraduate Math Competition