eosc11x course demographics + impacts.

1. DEMOGRAPHICS

These data were prepared in Sept. 2020 to explore what kinds of students are taking EOSC 1xx courses, and how well they do.

Note: data include student information therefore are not on Google Drive. The spreadsheet is in NextCloud.

Data

- Obtained as a combined class list including all course sections listed next. This is easy to do in the Faculty Service Centre (FSC) https://ssc.adm.ubc.ca/fsc/home . Just select "Managed Sections", set the session (2019W in this case) and select courses using wildcards – eg UBC-EOAS-11*.*
- Courses included in these analyses, with sections and enrollment counts, from 2019W (term 1 and 2):
- Total number of students included in the analyses is 6059.

Results

- Graphically next page, along with some observations.
- **Other questions could be addressed with this data set.**

Some take home messages

- Plenty of 1st year students seem to be taking these courses, although they are by no means the majority.

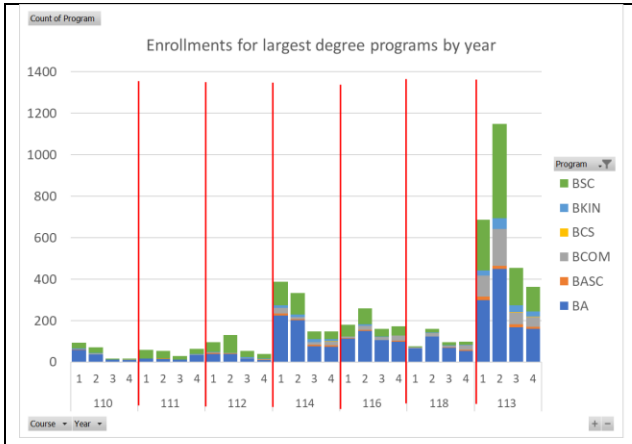
course	110	111	112	114	116	118	113	Total
Totals	286	227	342	1133	813	455	2797	6053
total 1st yr students	166	67	103	431	192	82	742	1783
1st yr prop'n	58%	30%	30%	38%	24%	18%	27%	29%

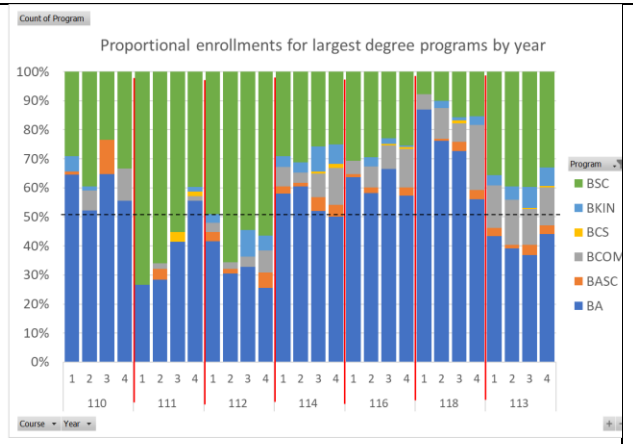
- Even for first year students, these are easy courses.
- Surprisingly, the hazards course seems hardest to do well in. Perhaps this reflects the recent introduction of homework based on journal readings?
- Two courses most "ripe" for introducing more quantitative material are likely EOSC 112 and ATSC 113. Science students already do better than others in these two.
- EOSC 111 is required by many students and "very easy". Perhaps some quantitative exercises could be introduced for this 1 credit lab-based course?

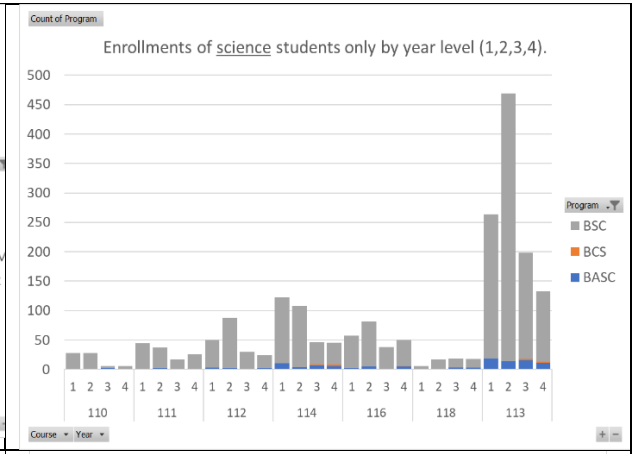
KEY POINT: there seems room for a first year quantitatively-oriented course targeting at least ~50 students.

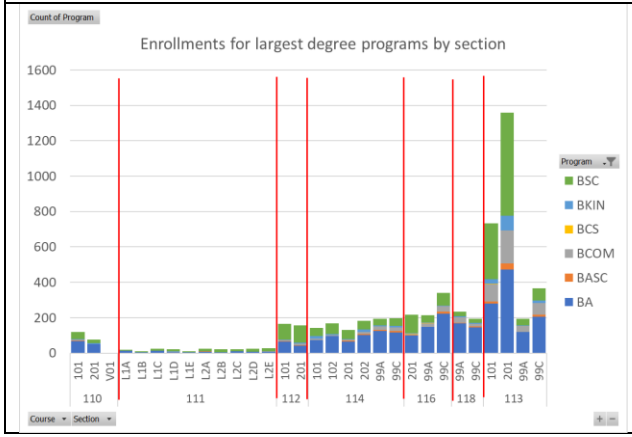
Course.section	enrol
ATSC113 .101	765
ATSC113 .201	1440
ATSC113 .99A	206
ATSC113 .99C	387
EOSC110 .101	127
EOSC110 .201	86
EOSC110 .V01	74
EOSC111 .L1A	23
EOSC111 .L1B	12
EOSC111 .L1C	27
EOSC111 .L1D	21
EOSC111 .L1E	12
EOSC111 .L2A	26
EOSC111 .L2B	27
EOSC111 .L2C	23
EOSC111 .L2D	26
EOSC111 .L2E	30
EOSC112 .101	174
EOSC112 .201	168
EOSC114 .101	158
EOSC114 .102	185
EOSC114 .201	150
EOSC114 .202	199
EOSC114 .99A	224
EOSC114 .99C	218
EOSC116 .201	232
EOSC116 .99A	226
EOSC116 .99C	357
EOSC118 .99A	245
EOSC118 .99C	211
Total	**6059**

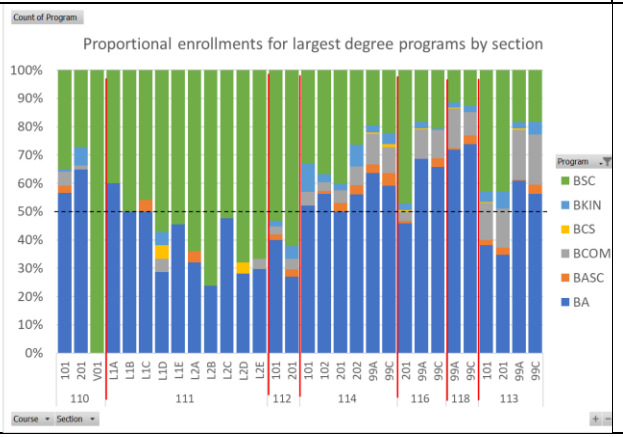
Some pivot table results and comments

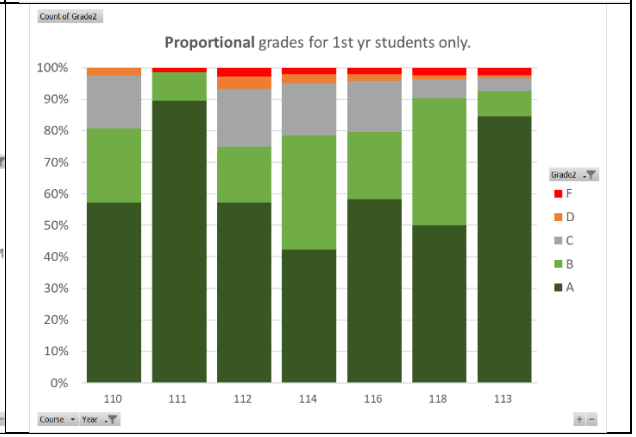












Remarks:

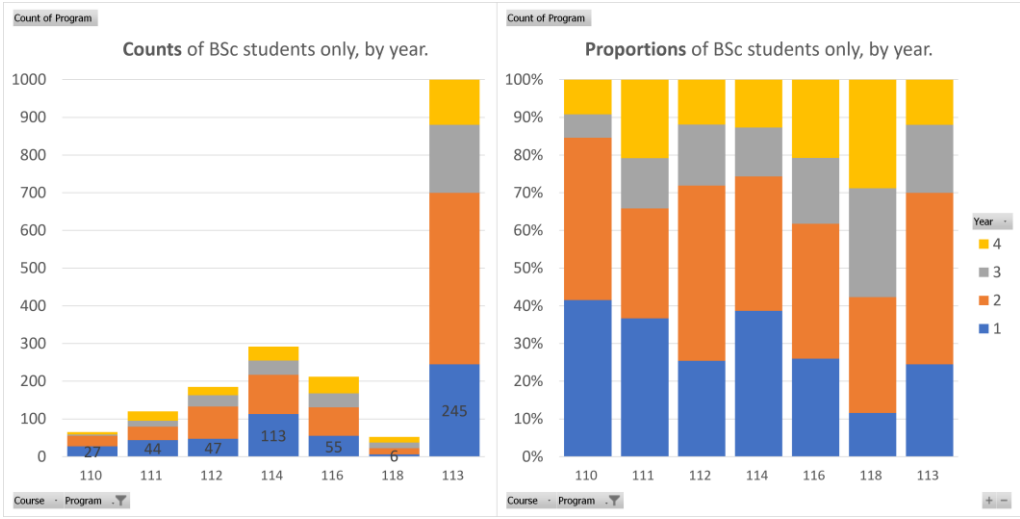
- Eosc111 is *required* by many BSc students.
- More BSc students take 112 or 113 compared to other 11x courses.
- Only 112 has enrollments that are greater than 50% science students.
- Vantage section of 110 is **all** science students.
- Classroom versions of courses tend to have proportionally more BSc students than DE.
- Most students achieve an A and very few students fail.
- Courses where BSc students' grades are most elevated above BA students are 112 and 113.
- Other questions can be addressed; data are in a spreadsheet easily manipulated using pivot tables.

	Compare BA and BSc average scores					
	averages		stdevs			avg
course	BA	BSC	BA	BSC		diff
116	81.7	82.8	15.1	14.1		1.1
111	90.4	92.9	7.4	9.2		2.5
118	78.6	85.2	10.4	11.3		6.6
114	72.3	79.5	12.6	11.6		7.2
110	73.6	80.9	11.3	11.5		7.3
113	84.6	94.2	15.4	8.5		9.6
112	74.0	87.2	15.2	12.1		13.2

2. IMPACTS

How many 1st year students take EOSC 1xx courses?

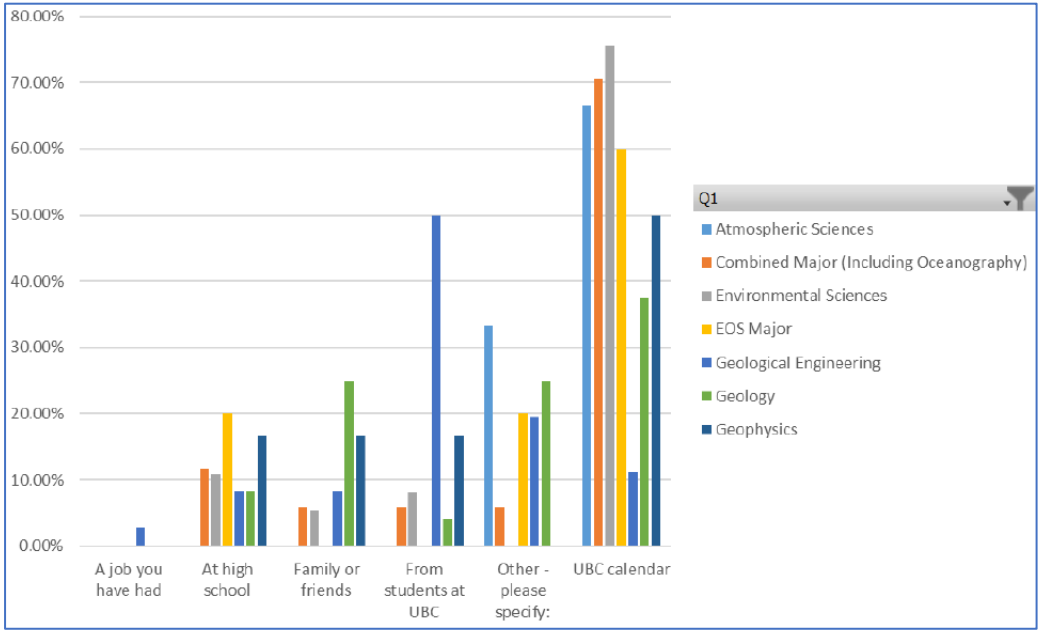
- First year students make up more than 33% of enrollments in 110, 111 and 114, and 25% or fewer in 112, 116, 113. Only 12% of students in 118 are 1st yr.
- 1st yr BSc student enrollments are similar in 112, 114, 116, while the largest by far is atsc113 (figures above).
- Forth year students make up 10% - 30% of enrolments in all EOSC 1xx courses.



Impact of 1st yr courses on degree choices

- From the **EOAS Specialization Survey & Focus Group Report**, Alison Jolley, spring 2020.
- Figures summarizing student responses to questions:

"**Where did you first hear about your chosen specialization?**".



"**Did any EOSC 100-level courses contribute to your choice of degree pathway?**" (same colours).