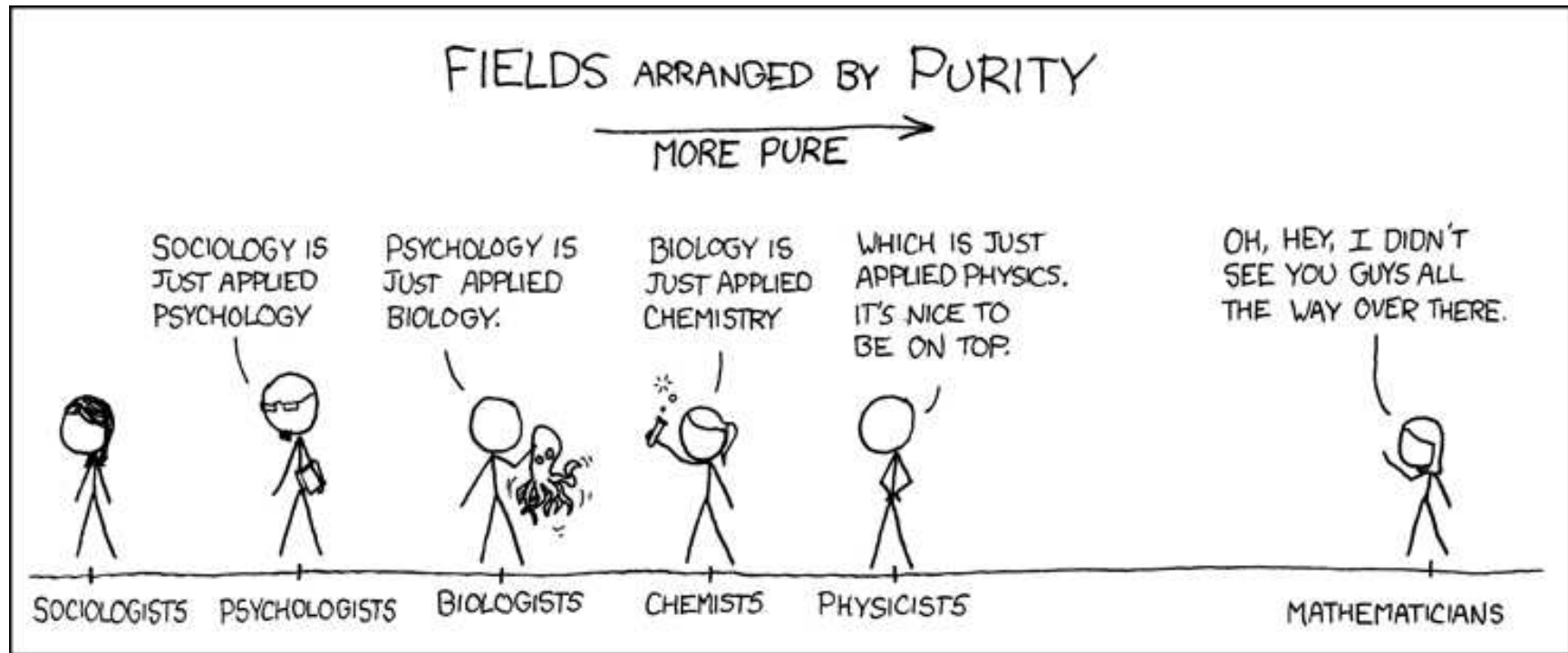


Being a math major

at Simon Fraser University

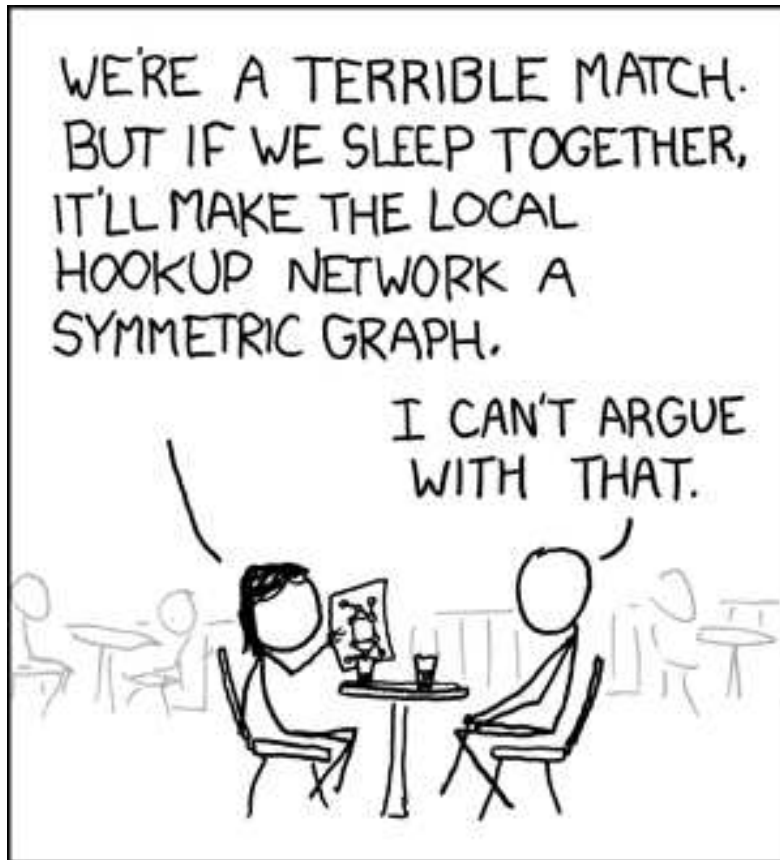
Recruitment information session, October 27, 2010

Math!



Math is the study of symmetry and structure.
It is rigorous and beautiful as well as useful.

What is it good for?



Math is

- Fun.
- A good job.
- Useful in **many** other jobs.

Mathematician as a job

Top ten best jobs according to JobsRated.com

	2009	2010
1	Mathematician	Actuary
2	Actuary	Software engineer
3	Statistician	Computer systems analyst
4	Biologist	Biologist
5	Software engineer	Historian
6	Computer systems analyst	Mathematician
7	Historian	Paralegal assistant
8	Sociologist	Statistician
9	Industrial designer	Accountant
10	Accountant	Dental hygienist

Mathematics in other jobs

[www.ams.org/
early-careers](http://www.ams.org/early-careers)

Qa “What can I do with a math degree?”

Qualify for a broad range of careers in business, industry, government, and teaching.

urban designer
stockbroker
research scientist
public utilities analyst
foreign exchange trader
population ecologist
estimator
cryptanalyst
epidemiologist
technical writer
animator
statistician
market research analyst
quantitative analyst
commodities trader
teacher
air traffic controller
climate analyst
financial aid director
pollster
forensic analyst
production manager
appraiser
banker
underwriter
actuary
computer programmer
claims adjuster
benefits administrator
professor

early career profiles

www.ams.org/early-careers/

Explore the **Early Career Profiles** of recent bachelor-level graduates with degrees in the mathematical sciences.

www.ams.org American Mathematical Society

Courses – Calculus and Analysis

Lower division

- MATH 150 or 151: Calculus I *or at least a B in* MATH 154 or 157
- MATH 152: Calculus II *or at least a B in* MATH 155 or 158
- MATH 242: Introduction to Analysis
- MATH 251: Calculus III
- *for honours* MATH 252: Vector Calculus

Upper division

- *at least one of*
 - MATH 320: Introduction to Analysis II
 - MATH 322: Complex Variables

Courses – Algebra and Number Theory

Lower division

- MATH 240: Algebra I, Linear Algebra *or at least a B in* MATH 232: Applied Linear Algebra

Upper division

- MATH 340: Algebra II, Rings and Fields
- *for honours*
 - MATH 341: Algebra III, Groups
 - *at least one of*
 - * MATH 338: Advanced Linear Algebra
 - * MATH 342: Elementary Number Theory
- *for major*
 - *at least one of* MATH 338, 341, 342

Courses – Discrete Mathematics

Lower division

- MACM 101: Discrete Mathematics I
- MACM 201: Discrete Mathematics II

Upper division

- *at least one of*
 - MATH 308: Linear Optimization
 - MATH 343: Applied Discrete Mathematics
 - MATH 345: Introduction to Graph Theory

Courses – Computing, Applied Math, and Stats

Lower division

- STAT 270: Introduction to Probability and Statistics
- CMPT 126 or 128 or both of 120 and 125: Introduction to CS
- MACM 203: Computing with Linear Algebra
- MACM 204: Computing with Calculus
- *for honours* CMPT 225: Data Structures and Programming

Upper division

- *at least one of*
 - MATH 310: Introduction to Ordinary Differential Equations
 - MACM 316: Numerical Analysis I

Courses – Finishing it off

- *for honours* 10 more upper division courses from MATH or MACM (and a few others) at least 5 at the 400 level
- *for major* 5 more upper division courses from MATH or MACM (and a few others) at least 3 at the 400 level

And don't forget you can get signed into grad courses.