

After Math

Is There Success After School?

- service canada (2009)
- sciences: math, chem, phys & biol

After Math

► Success after school?

MORE Success after
MORE school?

\$uccess after \$chool?

Job Satisfaction?

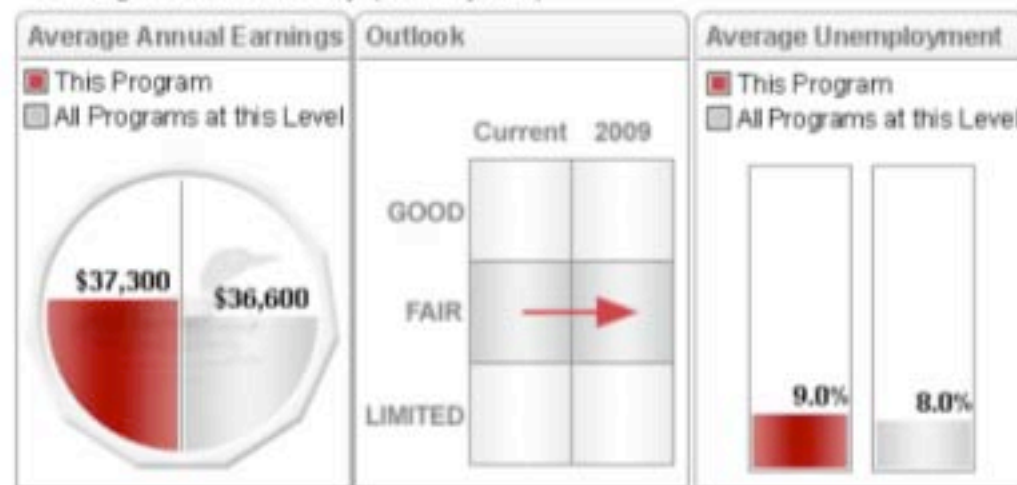
Making Opportunities at SFU

What else can I do?

Where do you want to
go?

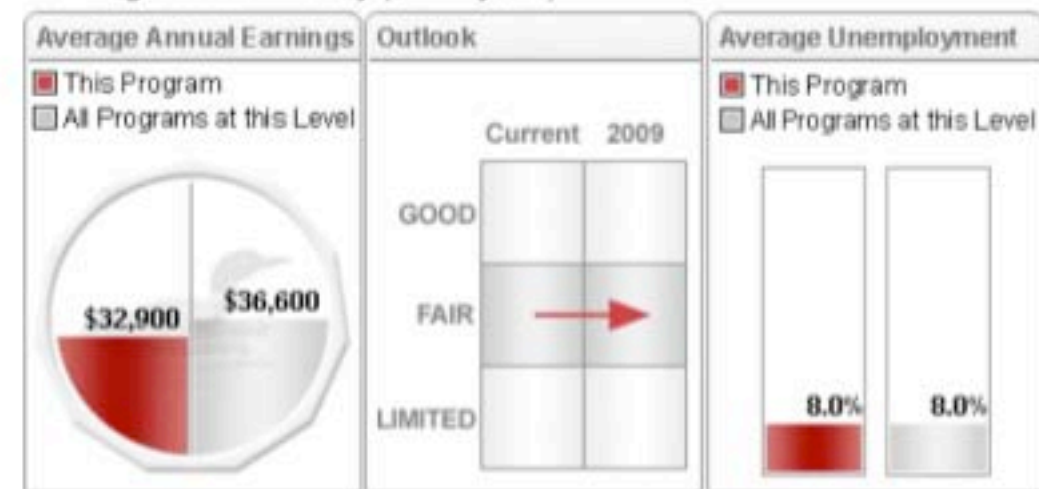
> Mathematics (U740) - At a Glance

Undergraduate University (3 or 4 years)



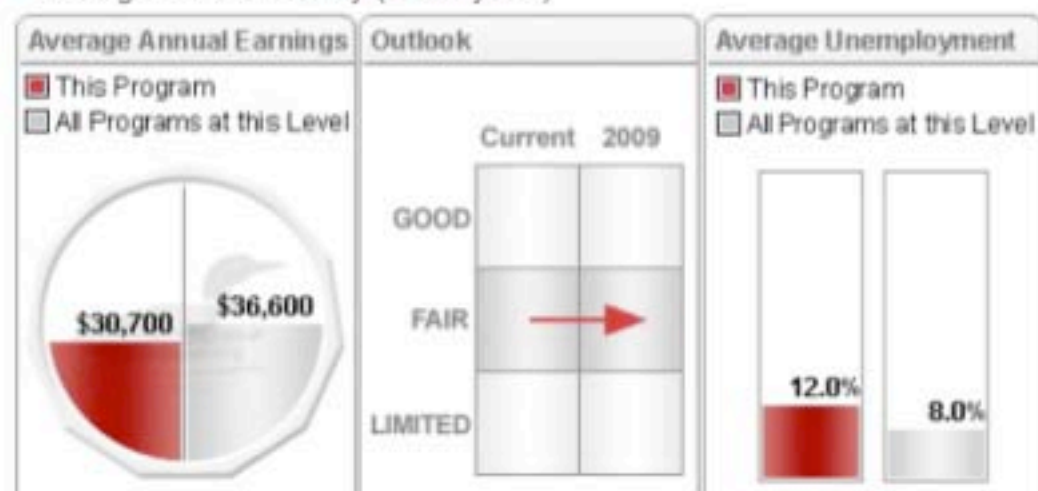
> Chemistry (U710) - At a Glance

Undergraduate University (3 or 4 years)



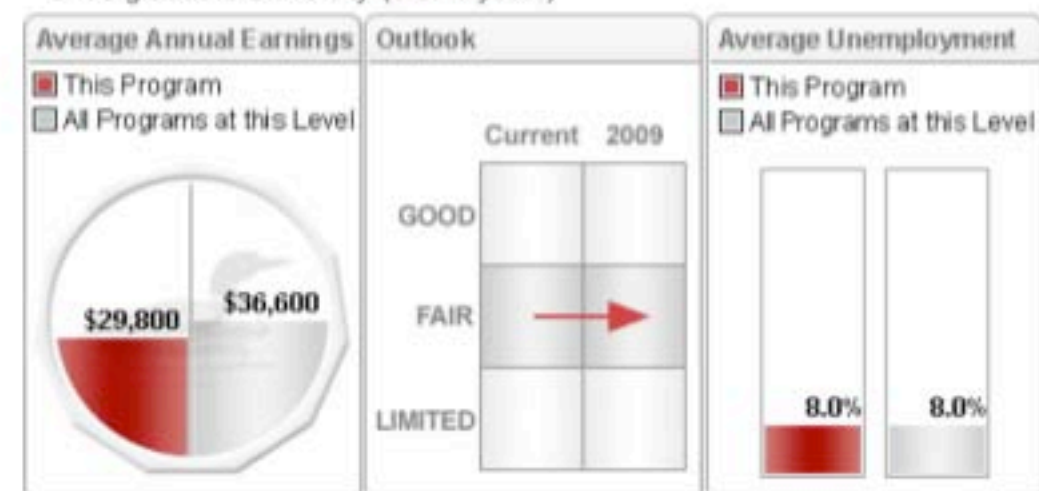
> Physics (U750) - At a Glance

Undergraduate University (3 or 4 years)



> Biology (U620) - At a Glance

Undergraduate University (3 or 4 years)



After Math

Is There Success After School?

- service canada (2009)
- technologies: math, cmpt, phys & ensc

After Math

► Success after school?

MORE Success after
MORE school?

\$uccess after \$chool?

Job Satisfaction?

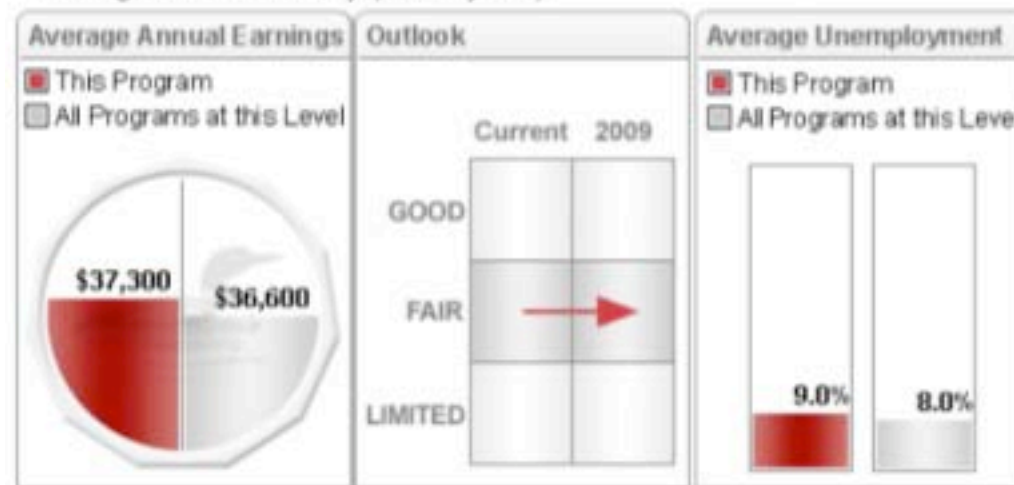
Making Opportunities at SFU

What else can I do?

Where do you want to
go?

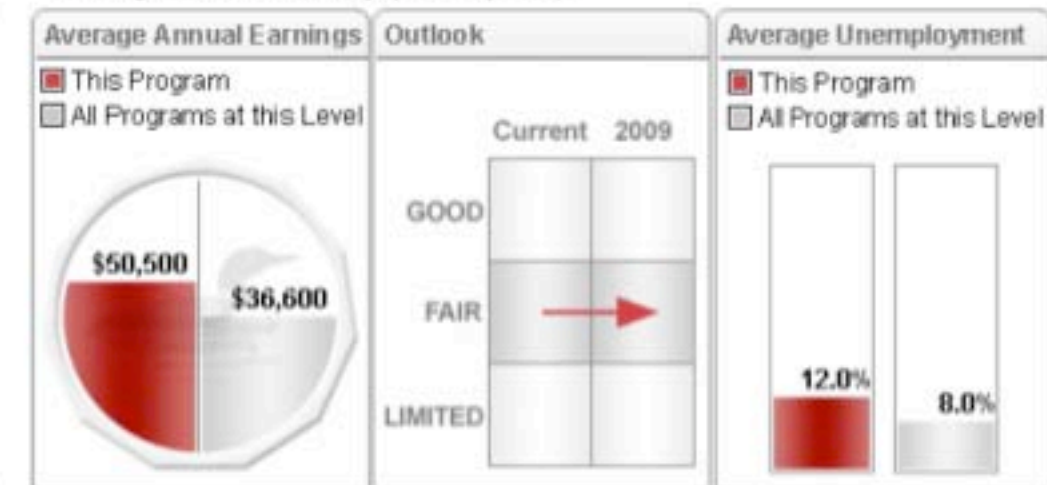
> Mathematics (U740) - At a Glance

Undergraduate University (3 or 4 years)



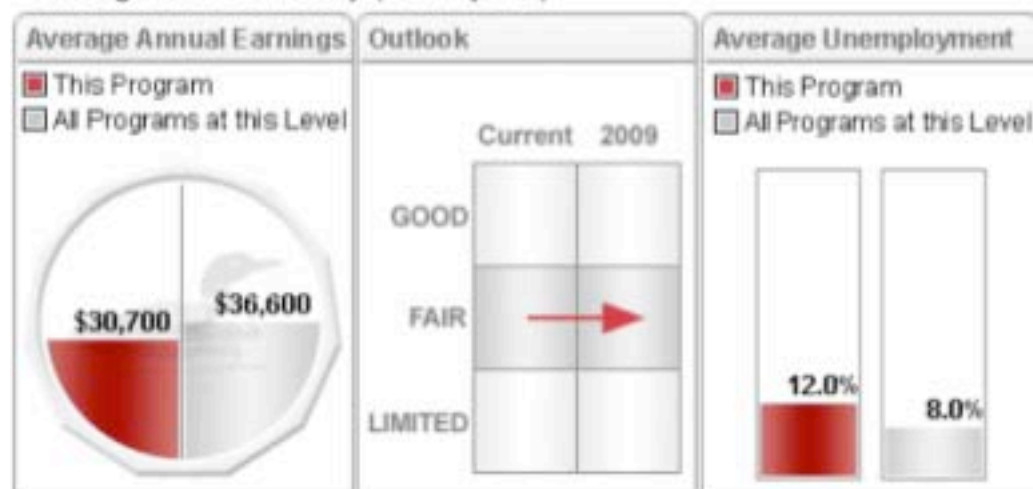
> Computer Science (U720) - At a Glance

Undergraduate University (3 or 4 years)



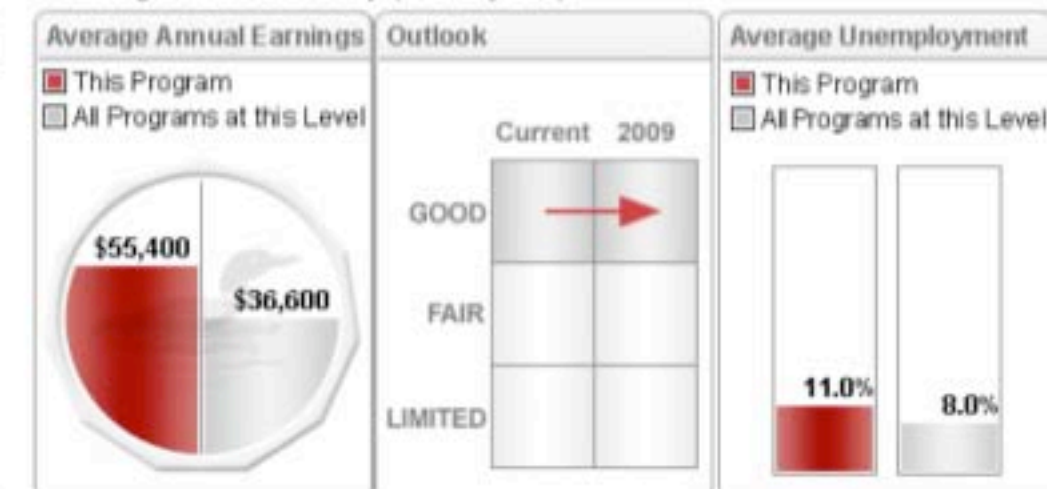
> Physics (U750) - At a Glance

Undergraduate University (3 or 4 years)



> Electrical Engineering (U360) - At a Glance

Undergraduate University (4 or 5 years)



After Math

Is There MORE Success After MORE School?

- service canada (2009)
- technologies: **masters degree in math**, cmpt, phys & ensc

After Math

Success after school?

► **MORE Success after MORE school?**

\$uccess after \$chool?

Job Satisfaction?

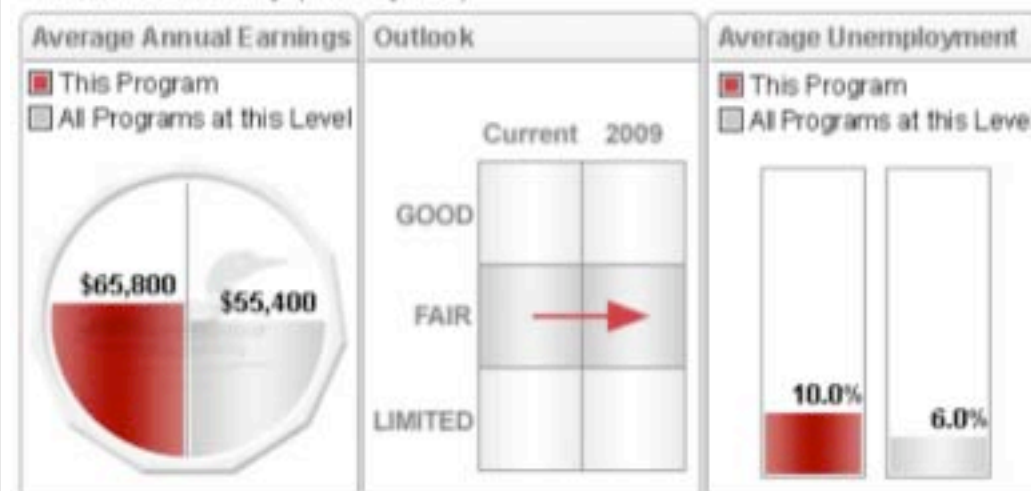
Making Opportunities at SFU

What else can I do?

Where do you want to go?

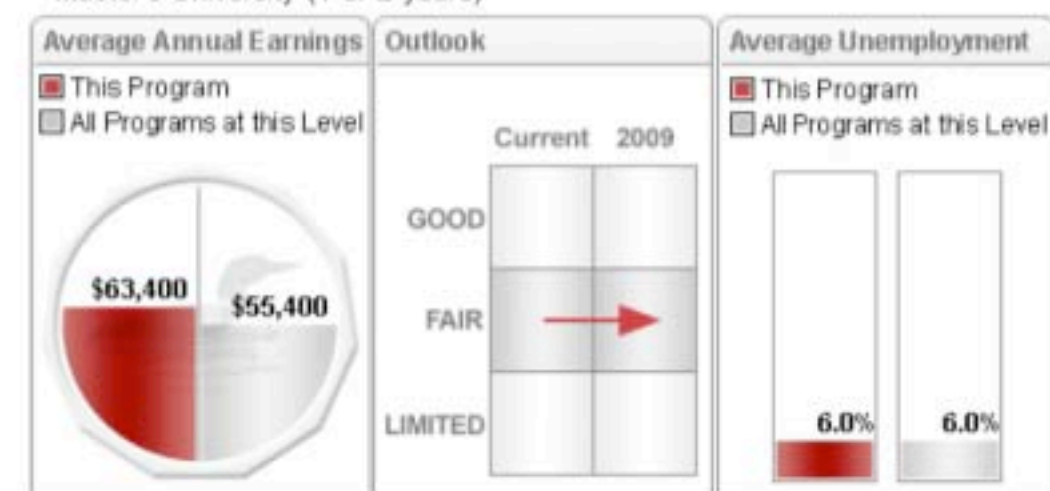
> Mathematics (M740) - At a Glance

Master's University (1 to 3 years)



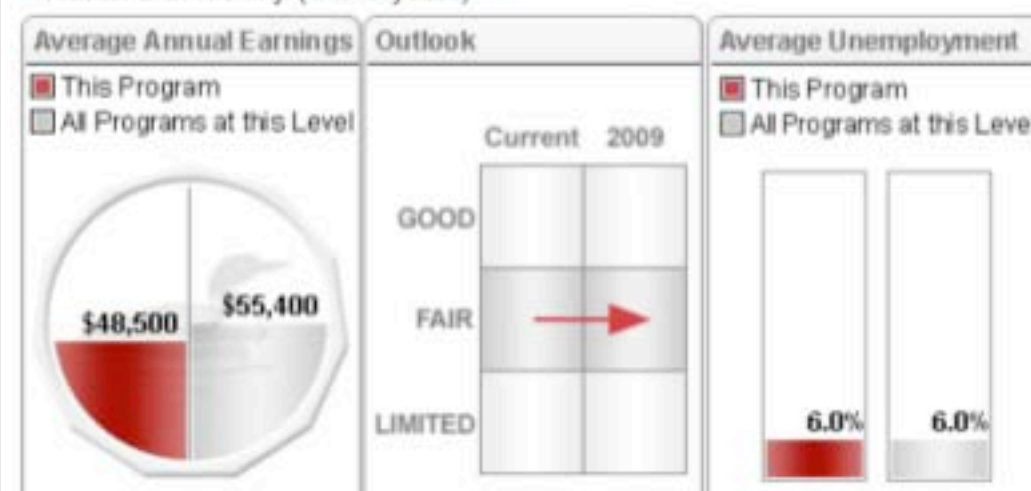
> Computer Science (M720) - At a Glance

Master's University (1 or 2 years)



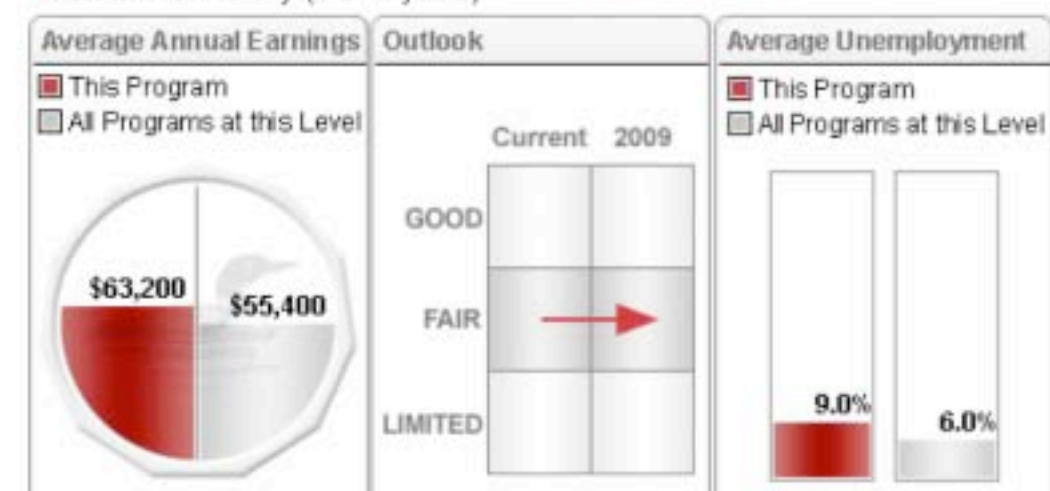
> Physics (M750) - At a Glance

Master's University (1 to 2 years)



> Electrical Engineering (M360) - At a Glance

Master's University (1 or 2 years)



After Math

Is There MORE Success After MORE School?

- service canada (2009)
- **value of a masters degree in math & commerce/business admin**

After Math

Success after school?

► **MORE Success after MORE school?**

\$uccess after \$chool?

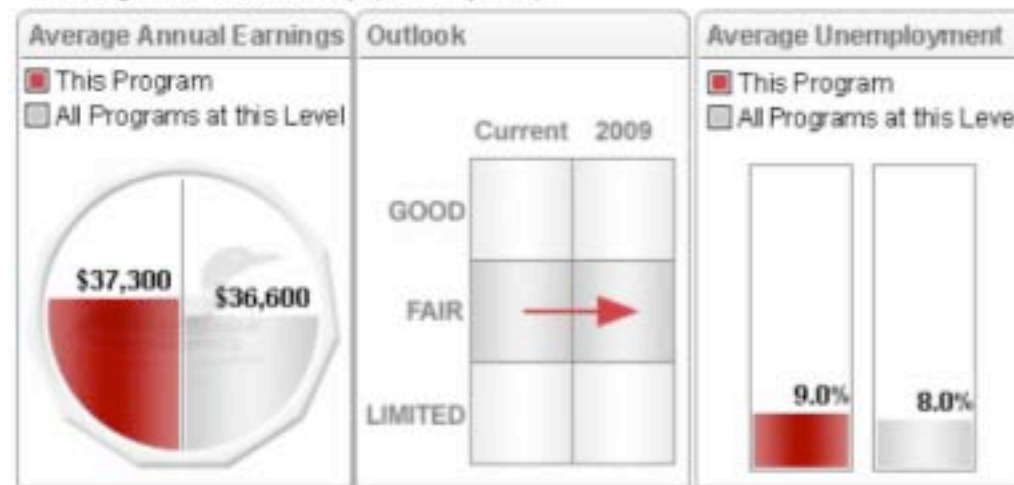
Job Satisfaction?

Making Opportunities at SFU

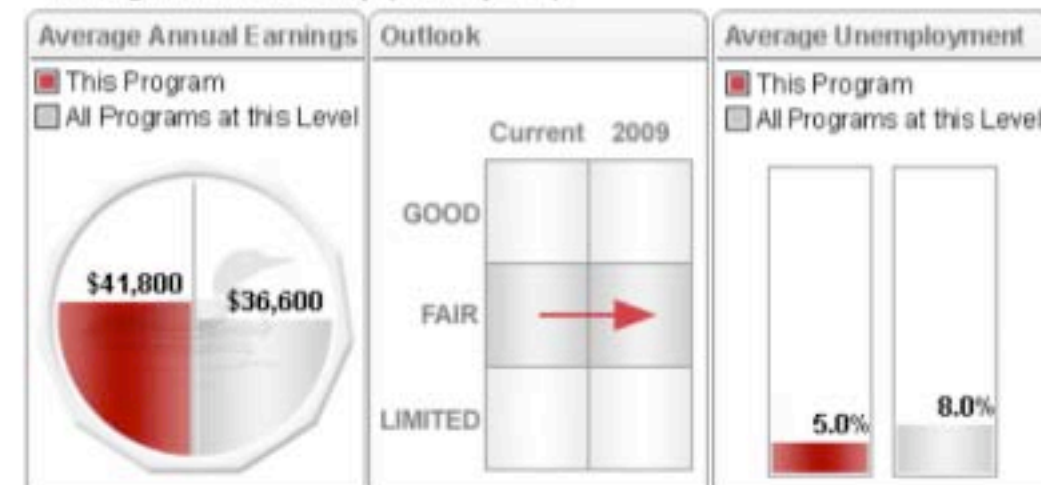
What else can I do?

Where do you want to go?

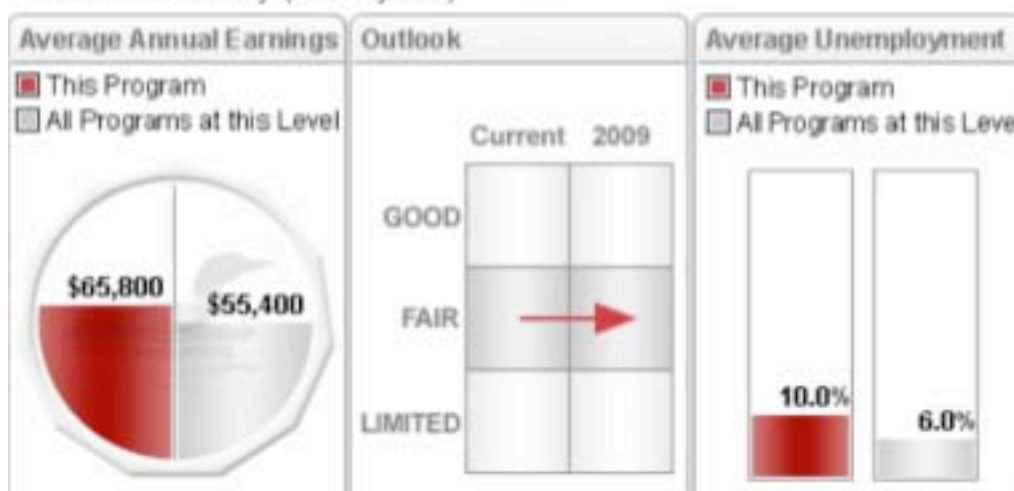
> Mathematics (U740) - At a Glance Undergraduate University (3 or 4 years)



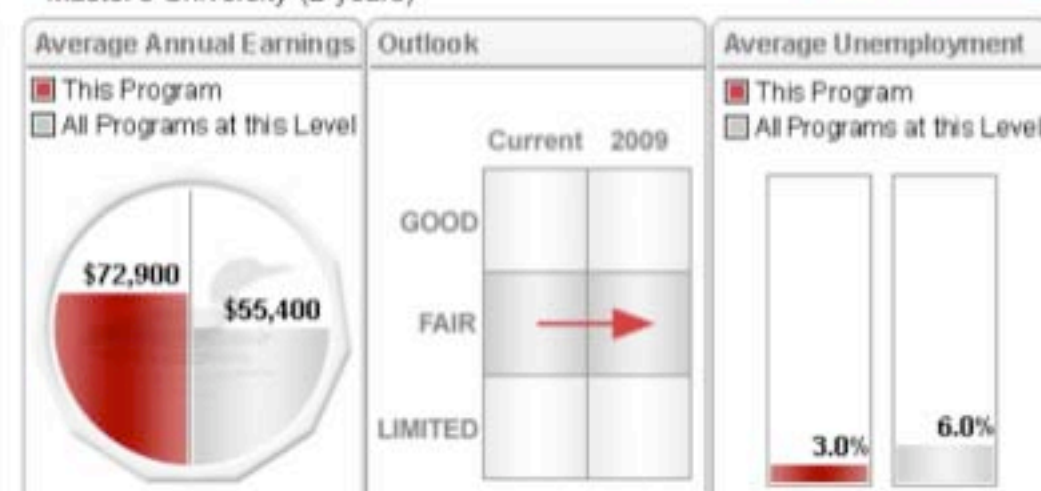
> Commerce - Business Administration (U120) - At a Glance Undergraduate University (3 or 4 years)



> Mathematics (M740) - At a Glance Master's University (1 to 3 years)



> Commerce - Business Administration (M120) - At a Glance Master's University (2 years)



After Math

Success after School

- service canada (2009)
- value of degrees in math

After Math

Success after school?

MORE Success after
MORE school?

► Success after \$School?

Job Satisfaction?

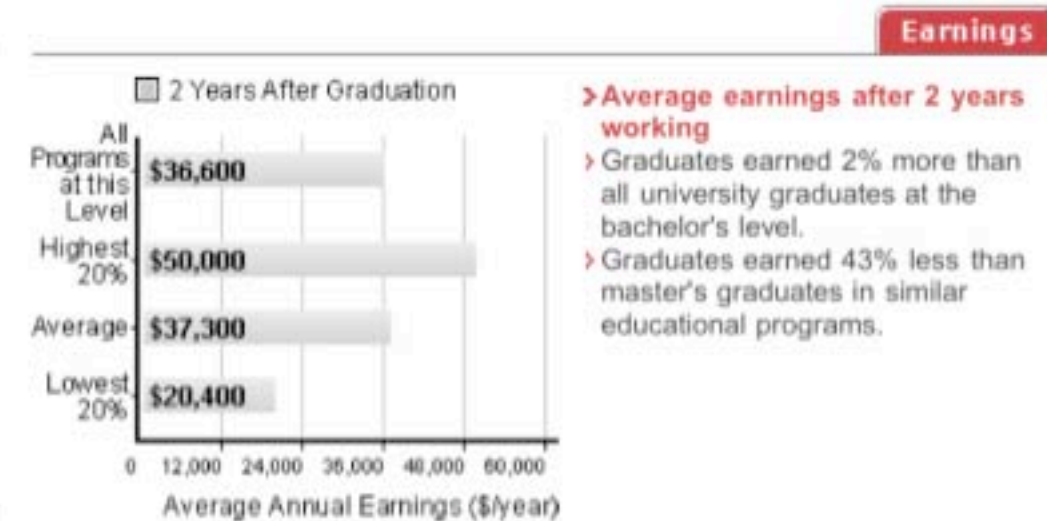
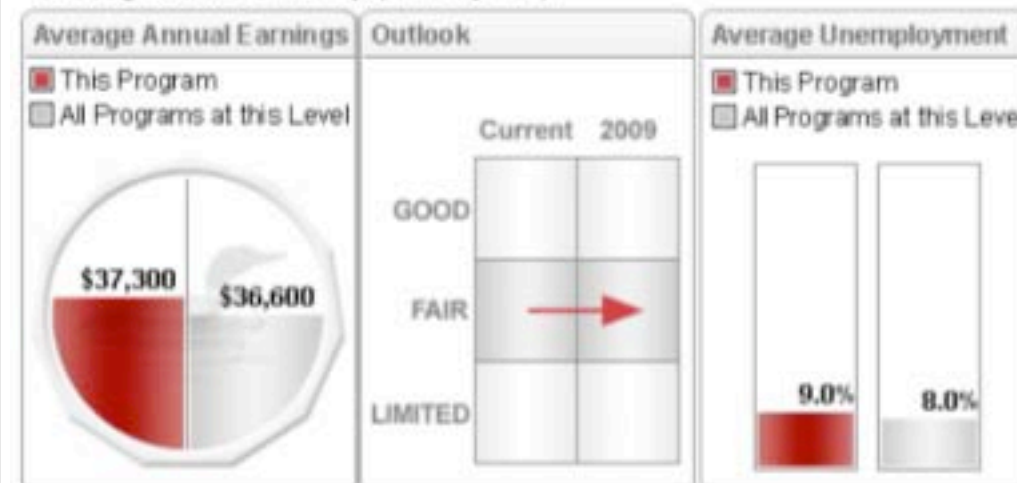
Making Opportunities at SFU

What else can I do?

Where do you want to
go?

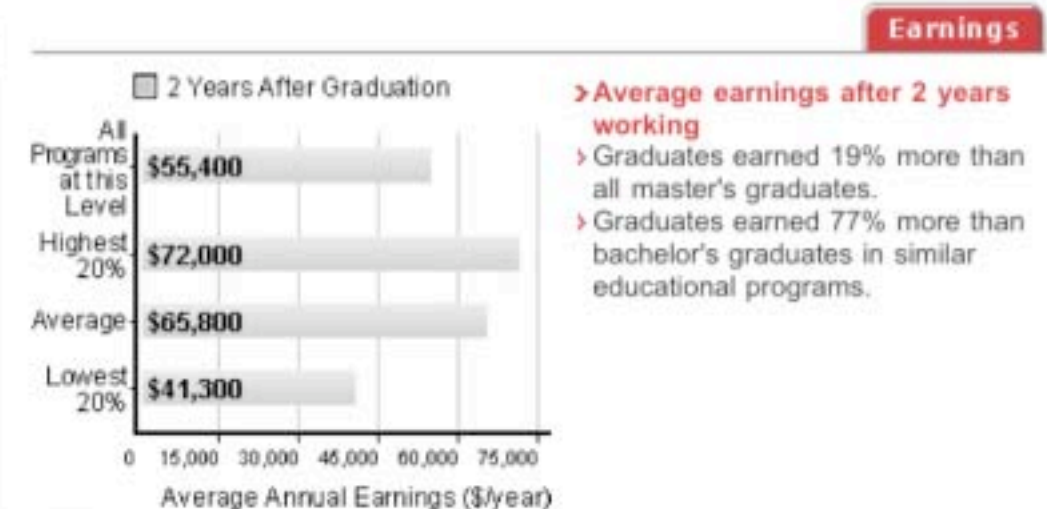
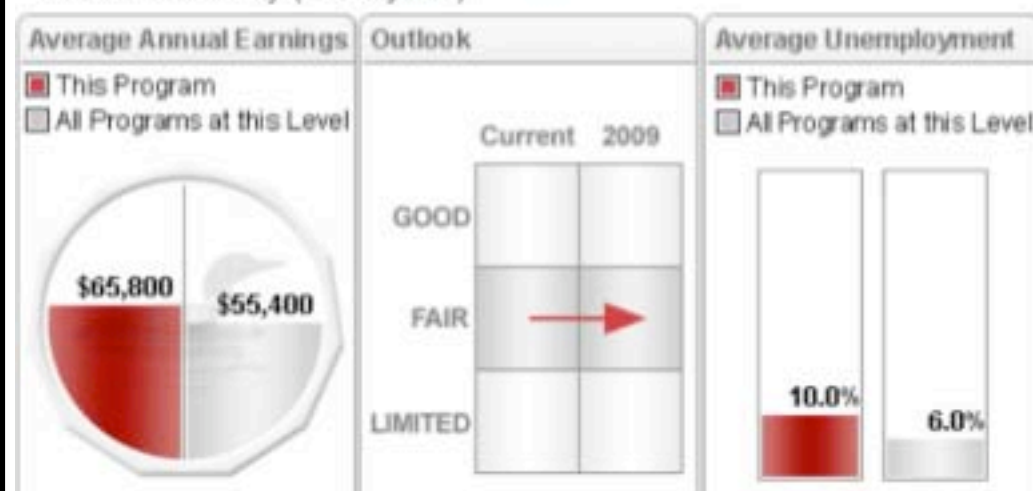
> Mathematics (U740) - At a Glance

Undergraduate University (3 or 4 years)



> Mathematics (M740) - At a Glance

Master's University (1 to 3 years)



After Math

Job Satisfaction

- Jobs Rated Almanac (2009)



Scott Brundage

Job Scores in Context

Category	Scoring Range
Physical Demands	3.95 – 43.23
Work Environment	89.520 – 3314.030
Income	\$300,118 – \$17,057
Stress	18.776 – 110.936
Hiring Outlook	45.39 – -39.67

The Best and Worst Jobs

Of 200 Jobs studied, these came out on top -- and at the bottom:

The Best

1. Mathematician
2. Actuary
3. Statistician
4. Biologist
5. Software Engineer
6. Computer Systems Analyst
7. Historian
8. Sociologist
9. Industrial Designer
10. Accountant
11. Economist
12. Philosopher
13. Physicist
14. Parole Officer
15. Meteorologist
16. Medical Laboratory Technician
17. Paralegal Assistant
18. Computer Programmer
19. Motion Picture Editor
20. Astronomer

The Worst

200. Lumberjack
199. Dairy Farmer
198. Taxi Driver
197. Seaman
196. EMT
195. Roofer
194. Garbage Collector
193. Welder
192. Roustabout
191. Ironworker
190. Construction Worker
189. Mail Carrier
188. Sheet Metal Worker
187. Auto Mechanic
186. Butcher
185. Nuclear Decontamination Tech
184. Nurse (LN)
183. Painter
182. Child Care Worker
181. Firefighter

After Math

Success after school?

MORE Success after
MORE school?

\$uccess after \$chool?

Job Satisfaction?

Making Opportunities at SFU

What else can I do?

Where do you want to
go?

Making Opportunities at SFU Math

What Else Can I Do?

Beyond the Classroom

- *Outside the Box* Lectures (twice per term)
- *Putnam Mathematics Competition* (contact: Dr. Jonathan Jedwab: jed@math.sfu.ca)
- independent study: self-study & direct mentorship
- undergrad members of graduates student research groups
- summer research stipends (NSERC: Nat. Sci. & Eng. Res. Council)
- IRMACS research positions (Interdisciplinary Res. in the Math. & Comp. Sci's)
- ... preparation for graduate studies

Summer NSERC Projects

- quantitative & computational experiences in a research project setting
- computational **algebra** & **number theory**
- fluid mechanics & **differential equations**
- **combinatorics** in statistical mechanics
- **coding theory** in digital communication
- **math modeling** in the health sciences
- **variational optimization** & image processing

After Math

Success after school?

MORE Success after
MORE school?

\$uccess after \$chool?

Job Satisfaction?

Making Opportunities at SFU

► What else can I do?

Where do you want to
go?

Making Opportunities at SFU Math

Where Do You Want To Go?

Preparation for Graduate Studies & Beyond

- competitive advantage for grad school (admission & funding)
- UBC (math, business & engineering)
- McGill (math biology)
- New York University (fluid mechanics)
- Carnegie Mellon (math analysis)
- UCLA (number theory, image processing)
- Michigan State (math)
- Brown University (math)

. . . fast track to Masters Studies at SFU

After Math

Success after school?

MORE Success after
MORE school?

\$uccess after \$chool?

Job Satisfaction?

Making Opportunities at SFU

What else can I do?

► Where do you want to
go?