RYERSON UNIVERSITY

Research Methods

The Academic Life

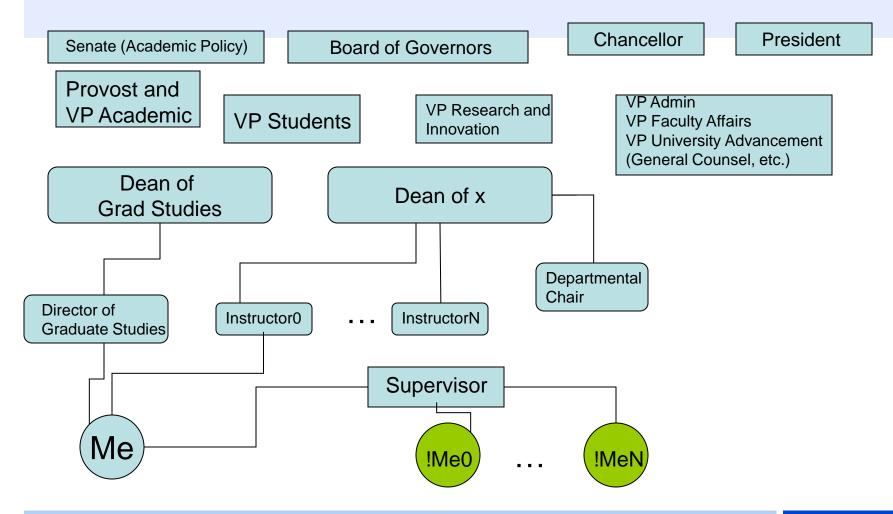
Topics of Interest

- The straight facts
 - What does it take?
 - What do professors do?
 - What are they responsible for?
- The bent facts
 - What are professorial motivations?

How do you know you might be a professor in waiting?

- You walk into a room and notice that a picture is hanging crooked. You...
 - (a) Straighten the Picture
 - (b) Ignore the Picture
 - (c) Write a grant proposal asking for funding to pay 2 grad students to spend the next 2 years designing a solar-powered, selfadjusting picture frame and planning a series of seminars and papers implying your belief that the inventor of the nail was a total moron.

The Organization of a University



The Typical Career Path

- Undergrad Education (4 years)
- Masters (2 years)
- Doctorate (4 years)
- Assistant Professor--Tenure Track (Probat years)
- Associate Professor (Tenure!)
- Professor (forever)
- Administration (with a return spring)
- Retirement/death



What do Professors do?





Responsibilities



Scholarly Research and Creative Activities (SRC)

Teaching

Promotion

- Demonstration of
 - Teaching
 - SRC
 - Service

FEAS Guidelines (these are not even real)

Academic Activity	Associate Professor	Full Professor
Review of Teaching Dossier	Dossier to confirm demonstrated	Dossier to confirm
	commitment to, and quality in,	demonstrated commitment to,
	teaching. Majority of students	and quality in, teaching.
Faculty Course Survey (Question	shall have rated the faculty	Majority of students shall have
# 7 on the member Os effectiveness	member as effective (2.0 or	rated the faculty member as
or question #10 on the old form)	better on the FCS) on no fewer	effe ctive (2.0 or better on the
	than 2/3 of all surveys	FCS) on mo fewer than 2/3 of
		all surveys
Total graduate students supervised	4	15
(current and past M.A.Sc. and		
PhD)		
Total graduate students completed	2	10, with preferably one or more
(M.A.Sc. and PhD)		PhD supervision
Peer-reviewed journal	4 at Assistant rank	20
publications*		
NSERC and other peer-reviewed	At least NSERC Discovery	NSERC (DG) and others
grants (in appropriate disciplines)	Grant (DG)	
Impact of Research	National	National and International
University service	Participation and some	Demonstrated leadership
	leadership	
Service to profes sion and industry	Expected	Required

Meaningless Terms that will govern your life

- Excellence
- Research Impact
- Quality
- High-Quality
- Highest-Quality
- Thought Leader
- Prestigious
- Senior Profess





The Low-Down on teaching

- Most professors want their students to learn
- Most professors agree that it is the most important part of their job
- Most professors have received 0 hours of instruction on how to teach
- A significant number of professors believe they are great teachers
- To receive a teaching award a professor must essentially nominate themselves.
- www.ratemyprofessors.ca



The Low-Down on Research

- Research sometimes produces something useful
- Research often produces papers
- Papers are sometimes useful
- Academics extrapolate:
 - More papers == more useful == prestigious/excellent/(your meaningless term goes here)



The Low-down on Service

- Generally avoided unless <u>something</u> happens
- Something:
 - Altruism kicks in
 - Promotion looms
 - Fed up
 - Necessity



The Second and Last Assignment

- Part 1
 - Create an NSERC Industrial Collaboration Grant application as per the materials on the course assignment page:
 - Instructions
 - Form 200
 - NSERC Peer-review manual
- Part 2
 - Sit on a Grant Evaluation Committee and review grant proposals for possible funding.

