Welcome to the Faculty of Engineering

Margaret Gwyn

New Student Welcome 2016
Faculty of Engineering
New Student Welcome

Dr. Tom Tiedje
Dean, Faculty of Engineering

Dean’s Welcome
Faculty of Engineering
Department Chairs

CIVIL ENGINEERING
Chair: Dr. Christopher Kennedy

MECHANICAL ENGINEERING
Acting Chair: Dr. Henning Struchtrup

ELECTRICAL & COMPUTER ENGINEERING
Chair: Dr. Michael McGuire

COMPUTER SCIENCE
Chair: Dr. Ulrike Stege
Faculty of Engineering
Program Directors/Managers

BIOMEDICAL ENGINEERING:
Dr. Nikolai Dechev

SOFTWARE ENGINEERING:
Dr. Margaret-Anne Storey

CO-OP:
Ms. Meeta Khurana
Dr. LillAnne Jackson
Associate Dean, Undergraduate Programs
Faculty of Engineering

Intro to the Faculty
Congratulations!

- The Faculty of Engineering accepted YOU
- You are becoming an Engineer

You are Amazing!!
Your Future AMAZING Career
Computing Careers. . .
Collaborative!
Maybe your Coop will be here...
ENGINEER
For A Civil One,
There's No Thing Such A "Little Mistake"

Plan View

Knot on chair

Deck

Deck is not anchored to "midpoint" support (chain end) but just rests on seat a few inches (1" to 6")

May: Strangers (vertical, strange) can be looped under the deck.

Try tying one end to a cable, then pass it below the deck.

Then, "snip" it neatly & tie it to the other cable.

Deck should hang free of the towers (wire hazards) when bridge is complete.

mosttutorials.blogspot.com
What is Engineering?

An Application of Science and Mathematics

If you speak the language of Mathematics . . . Your Engineering problems will not be difficult.
Our students say . . .
Imagine Experiment

High School

Learn Independently

College
Learning Independence: You Decide

- When to study Calculus . . .
- When to work on that Communications report . . . .
- If you have the time to go out with friends
- If you should take on a part time job:

168 HOURS IN WEEK
- 23 -- in class
- 3 x 23 -- study: 3 hours (min) per class hour
- 7 x 7 -- sleeping
- 21 x 0.5 -- meals
- 7 x 1.5 -- exercise, shower, dress, transportation
- 7 x 1 -- email, phone, twitter/LinkedIn, etc

TIME FOR WORK = -1 hour

- Whether you receive grade of A+ or F
Perceptions vs Reality

<table>
<thead>
<tr>
<th></th>
<th>Students Think . . .</th>
</tr>
</thead>
<tbody>
<tr>
<td>Students smoke tobacco</td>
<td>74.1%</td>
</tr>
<tr>
<td>Students drink alcohol</td>
<td>96.4%</td>
</tr>
</tbody>
</table>

*Data from www.health.uvic.ca, Principal Investigator: jburgess@uvic.ca*

This is a year of transitions!

- Set goals that work for you
- Then make choices the feel right for you (and say no to the others!)
- Do communicate with the people who are important to you!
We all come from somewhere in this world . . . . . . . . . . . . . . Can you tell where I am from?

You will meet people (students, professors, teaching assistants) from all over the world . . . .

- All are proficient in English
- You will hear many accents
- If someone’s says something that you don’t understand, ask for clarification!
Faculty of Engineering
New Student Welcome

Dr. Jane Butterfield
Mathematics & Statistics

MATH HELP

Math & Stats Assistance Centre
First Year Math at UVic
Math & Stats Assistance Centre

Three locations:
- David Turpin Building
- Library Learning Commons
- Residence Resource Hub

Friendly study space,
Free tutoring,
Resources
www.uvic.ca/msac
First Year Math at Uvic

We now have three different first-semester calculus courses:

**MATH 100, MATH 102, MATH 109**

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1. MATH 102 is designed for you. You may enrol in MATH 109 or MATH 100 if you wish.

2. MATH 100 is designed for you.

3. MATH 109 is designed for you.

---

1. Are you in Social Sciences or Biology?

   - Yes
     - MATH 102
   - No
     - Have you taken Calculus before?
       - Yes
         - MATH 100
       - No
         - MATH 109

   - Next Course: MATH 101
What do you know about l’Hospital’s Rule?

A: I don’t know much about hospitals...

B: It’s the best rule ever and you should use it for all limits all the time.

C: It was *not* proven by the Marquis de l’Hospital.
What reaction do you have to the words “The Quotient Rule”?

A: Please don’t ask me to state it – are they going to make us prove that on a midterm?

B: I try to avoid it by thinking of a quotient as a product instead and making use of the Chain Rule.

C: I’m guessing it’s some kind of rule from Calculus.
You’re going to learn a lot of mathematics as you pursue your Engineering degree, and your Math & Stats instructors look forward to helping you do it!

Math & Stats Assistance Centre:
www.uvic.ca/msac
msacc@uvic.ca

First Semester Calculus Choices:
jbutter@uvic.ca
Faculty of Engineering
New Student Welcome

Kear Porttris
Student, 4th Year
Civil Engineering
We can help you keep your ducks in a row!
WHAT IS ADVISING?

• Program planning & advice
• Registration questions
• Program declarations
• Workload / Success help
• Academic & illness issues
• Campus referrals

Because there are some questions that even Google can't answer.
WHO ARE THE ADVISORS?

- **1st Year:** LeAnne  
  engradav@uvic.ca

- Biomedical, Mechanical, Software: Belinda  
  engradv1@uvic.ca

- Civil, Computer, Electrical: Alejandra  
  engradv2@uvic.ca

Drop in advising? – always available!

Engineering Undergraduate Office, EOW 206  
engr@uvic.ca
ALTERNATE FIRST YEAR SCHEDULES

• Do 1st year over 3 terms
• Slows things down – time for other things!
• Finish 1st year by August instead of April
  – Some courses in Summer session

• Interested? There is still time to change....
## Resources for Success

<table>
<thead>
<tr>
<th>Resource</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Computer Science Assistance Centre</td>
<td>ECS 251</td>
</tr>
<tr>
<td>Math Assistance Centre</td>
<td>Library Learning Commons, David Turpin Bldg A202</td>
</tr>
<tr>
<td>Centre for Academic Communication</td>
<td>McPherson Library Learning Commons Rooms 135 J - M</td>
</tr>
<tr>
<td>Study Solutions Office</td>
<td>McPherson Library Learning Commons Room 135 F</td>
</tr>
<tr>
<td>Chemistry</td>
<td>Elliot Main Building 2nd Floor landing</td>
</tr>
<tr>
<td>Physics</td>
<td>Elliot 038 OR McPherson Library Learning Commons 129</td>
</tr>
</tbody>
</table>
Planning Your Program

Degrees requirements are outlined:
• In the Calendar – of course!
• On the department websites
• On the program planning worksheets

Do your reading ahead of time, and come prepared with your questions.

Our advisors can help you understand these requirements – YOU have read them!
Your GPA matters

• Your GPA is reviewed twice a year
  – Winter – September – April
  – Summer – May – August
• Good Standing – 2.0 or better
• Probation – Less than 2.0
• Required to withdraw – unsuccessful probation period
• Acknowledge early warning signs. Come talk to us. We can help!
• Rank your program choice for 2\textsuperscript{nd} year

• On-line declaration form
  • On our website in February

• Minimum requirements – no grades less than C

• Declare by: April 30\textsuperscript{th}
• Decisions by: May 31\textsuperscript{st}
Admitted to the 2\textsuperscript{nd} year of your program?

- Consider your specialization or options
- Consult your advisor
### I want to drop a course

<table>
<thead>
<tr>
<th>Date</th>
<th>Drop Deadline</th>
<th>Tuition Refund</th>
</tr>
</thead>
<tbody>
<tr>
<td>September 20th</td>
<td>100% drop deadline</td>
<td>100% of tuition back for course(s) dropped on or before this date</td>
</tr>
<tr>
<td>October 11th</td>
<td>50% drop deadline</td>
<td>50% of tuition back for course(s) dropped on or before this date</td>
</tr>
<tr>
<td>October 31st</td>
<td>Academic drop deadline</td>
<td>No tuition back, but won’t fail the course</td>
</tr>
</tbody>
</table>

Results of assignments, labs, midterm unsatisfactory? Talk to your advisor! Use feedback to make the right decisions for you!
What can I do if...

...I am ill, get in an accident, something happens in my family

1. Consult immediately with Counselling Services, Health Services or another health professional

2. See your Advisor
Learning Strategies and Support

Learning Commons in the Mearns Centre
McPherson Library
• Writing support
• Library technical and computer help
• Math, Statistics and Physics assistance
• Research and library help

Counselling Services in the University Centre
• Personal counselling
• Career exploration
• Peer helping, groups and workshops

Resource Centre for Students with a Disability
• Assistive technology
• Academic accommodations
Connect With Us!

Engineering
Undergraduate Office
EOW 206
250 721 6023
engr@uvic.ca
OFFICE HOURS:
Mon – Friday
8:30 – 4:15

UVic Engineering
@UVicEngineering
If you’ve got a seat, could you offer it to someone who doesn’t?
Giveaway time !!

How much study time does the Associate Dean suggest you budget to be successful at University?

2 – 3 hours per hour of class time
Giveaway time !!

Which calculus course should Engineering students take, MATH 100 or MATH 109?

It depends! MATH 100 if you’ve take Calculus before, MATH 109 if you haven’t
Giveaway time !!

Where is the Math Assistance Centre?

In the Library (and there’s lots of other assistance centres there too!)
Giveaway time!!

Where can you find your Academic Advisor?

In the Engineering Office Wing, room 206
Is there still time for me to rearrange my schedule and do first year over 3 terms instead of 2?

Yes!!
Giveaway time !!

What’s the deadline to drop a course?

Sept 20$^{th}$: to get 100% of the tuition back
Oct 11$^{th}$: to get 50% of the tuition back
Oct 31st: to get it removed from your record
Giveaway time !!

When do I choose what kind of Engineering I’ll study next year?

February – April next year
The Equity and Human Rights Office champions UVic’s commitment to practices of *equity, fairness* and *inclusion*.

In partnership, we foster communities where strength is found in *diversity* and *respect* for difference provides dynamism and vibrancy to university life.
EQHR AREAS OF WORK

POLICY

- Human Rights EDUCATION
- Human Rights COMPLAINTS
- Employment EQUITY
Prohibited Grounds under the BC Human Rights Code

- Age
- Ancestry,
- Colour,
- Place of origin
- Race
- Disability - physical or mental
- Family status
- Marital status
- Political belief
- Religion
- Sex
- Sexual orientation
- Conviction for an unrelated criminal offence
What are the kind of attitudes or behaviors that EXCLUDE ‘other’ people based on these differences?
Diversity represents all the ways we are different as human beings.
Multiple layers of Diversity

The world in which you were born is just one model of reality.

Other cultures are not failed attempts at being you: they are unique manifestations of the human spirit.

(Wade Davis)
Question:

Engineering Students are stereotypically:

A. Very sociable and outgoing
B. Elitist (male dominated)
C. Respectful of all genders (accepting of all genders)
D. All the above
Male privilege

I HAVE THE PRIVILEGE OF

BEING TOTALLY UNAWARE
OF MY OWN PRIVILEGE
Underlying beliefs and attitudes, often rarely spoken

SYSTEMS the normal way things work

- Institutional structures, policies, established practices

POWERFUL UN-EXAMINED IDEAS

- Underlying beliefs and attitudes, often rarely spoken

Individual Behaviours & Experiences

IMPACT

on various groups / individuals involved (e.g., racialized workers, white workers)
on organization

Clients?

others who are impacted

‘Ism’ triangle model
Multiple Layers of Diversity

Prohibited Grounds under the BC Human Rights Code

- Race
- Colour
- Ancestry/ethnicity
- Place of origin
- Political belief
- Religion
- Marital status
- Family status
- Physical or mental disability
- Sex/Gender identity
- Sexual orientation
- Age
- Conviction for an unrelated criminal offence
Question

Are there limits to the obligation to behave professionally

(i.e. are there places, times, situations where you don’t believe you need to be professional?)

A. We are free to criticise our employer outside of the workplace and in public

B. As engineers we are obliged to act professionally everywhere and anytime

C. We are only engineers when we are at work
THANK YOU

For more information about

The Equity and Human Rights Office

Visit: http://web.uvic.ca/eqhr

Email me: mmagassa@uvic.ca
Tel: 250.472.4004
Faculty of Engineering
New Student Welcome

Dr. Kin Li
Electrical and Computer Engineering

Your GPA, Time Management & Academic Integrity
GPA - a ticket to **success or suffering**!

- Know how to calculate GPA (Grade Point Average)

<table>
<thead>
<tr>
<th>Grade</th>
<th>Grade Point</th>
<th>Percent</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A+</td>
<td>9</td>
<td>90 – 100</td>
<td>Exceptional</td>
</tr>
<tr>
<td>A</td>
<td>8</td>
<td>85 – 89</td>
<td>Outstanding</td>
</tr>
<tr>
<td>A-</td>
<td>7</td>
<td>80 – 84</td>
<td>Excellent</td>
</tr>
<tr>
<td>B+</td>
<td>6</td>
<td>77 – 79</td>
<td>Satisfactory</td>
</tr>
<tr>
<td>B</td>
<td>5</td>
<td>73 – 76</td>
<td>Good</td>
</tr>
<tr>
<td>B-</td>
<td>4</td>
<td>70 – 72</td>
<td>Solid</td>
</tr>
<tr>
<td>C+</td>
<td>3</td>
<td>65 – 69</td>
<td>Satisfactory</td>
</tr>
<tr>
<td>C</td>
<td>2</td>
<td>60 – 64</td>
<td>Minimally satisfactory</td>
</tr>
<tr>
<td>D</td>
<td>1</td>
<td>50 – 59</td>
<td>Marginal</td>
</tr>
<tr>
<td>F</td>
<td>0</td>
<td>0 – 49</td>
<td>Unsatisfactory</td>
</tr>
<tr>
<td>N</td>
<td>0</td>
<td>0 – 49</td>
<td>Did not complete course requirements</td>
</tr>
</tbody>
</table>

**Standing GPA**

- **Good**  \( \geq 2 \)
- **Probation**  \( 1 \leq & < 2 \)
- **Failed**  \(< 1 \)
<table>
<thead>
<tr>
<th>Course</th>
<th>Grade</th>
<th>Grade Point</th>
<th>Weight</th>
<th>Multiply: Grade Point * Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSc 106</td>
<td>A</td>
<td>8</td>
<td>1.5</td>
<td>12</td>
</tr>
<tr>
<td>CSc 110</td>
<td>A</td>
<td>8</td>
<td>1.5</td>
<td>12</td>
</tr>
<tr>
<td>Engl 135</td>
<td>B+</td>
<td>6</td>
<td>1.5</td>
<td>9</td>
</tr>
<tr>
<td>Math 100</td>
<td>B+</td>
<td>6</td>
<td>1.5</td>
<td>9</td>
</tr>
<tr>
<td>Math 122</td>
<td>B-</td>
<td>4</td>
<td>1.5</td>
<td>6</td>
</tr>
<tr>
<td>CSc 115</td>
<td>A</td>
<td>8</td>
<td>1.5</td>
<td>12</td>
</tr>
<tr>
<td>Math 101</td>
<td>A</td>
<td>8</td>
<td>1.5</td>
<td>12</td>
</tr>
<tr>
<td>Psyc 100</td>
<td>B+</td>
<td>6</td>
<td>1.5</td>
<td>9</td>
</tr>
</tbody>
</table>

**Weight Sum**

- 12

**Sum: Grade Point * Weight**

- 81

**Weight Sum / Sum**

- 81/12 = 6.75

**GPA**

- GOOD!!
<table>
<thead>
<tr>
<th>Course</th>
<th>Grade</th>
<th>Grade Point</th>
<th>Weight</th>
<th>Multiply: Grade Point * Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSc 111</td>
<td>C+</td>
<td>3</td>
<td>1.5</td>
<td>4.5</td>
</tr>
<tr>
<td>Math 100</td>
<td>C</td>
<td>2</td>
<td>1.5</td>
<td>3</td>
</tr>
<tr>
<td>Math 110</td>
<td>F</td>
<td>0</td>
<td>1.5</td>
<td>0</td>
</tr>
<tr>
<td>ENGR 110</td>
<td>C+</td>
<td>3</td>
<td>2.5</td>
<td>7.5</td>
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<tr>
<td>ENGR 130</td>
<td>COM</td>
<td>-</td>
<td>0.5</td>
<td>-</td>
</tr>
<tr>
<td>Phys 110</td>
<td>C</td>
<td>2</td>
<td>1.5</td>
<td>3</td>
</tr>
<tr>
<td>Chem 150</td>
<td>B-</td>
<td>4</td>
<td>1.5</td>
<td>6</td>
</tr>
<tr>
<td>Math 101</td>
<td>D</td>
<td>1</td>
<td>1.5</td>
<td>1.5</td>
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<tr>
<td>ENGR 120</td>
<td>C</td>
<td>2</td>
<td>2.5</td>
<td>5</td>
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<td>ENGR 141</td>
<td>F</td>
<td>0</td>
<td>1.5</td>
<td>0</td>
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<tr>
<td>Phys 120</td>
<td>D</td>
<td>1</td>
<td>1.5</td>
<td>1.5</td>
</tr>
<tr>
<td>Weight Sum</td>
<td></td>
<td></td>
<td>17</td>
<td></td>
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<tr>
<td>Weight Sum / Sum</td>
<td></td>
<td></td>
<td>32/17</td>
<td>1.88 GPA</td>
</tr>
</tbody>
</table>

ALEX

Letter | Point |
-------|-------|
A+     | 9     |
A      | 8     |
A-     | 7     |
B+     | 6     |
B      | 5     |
B-     | 4     |
C+     | 3     |
C      | 2     |
D      | 1     |
F      | 0     |
N      | 0     |
Ten Ways to be Unsuccessful at University

10. Do not take advantage of the university’s resources.
9. Do not hand in assignments in requested formats, in requested places, or at requested times.
8. Do not read the textbook, posted notes, or other resources that the instructors select for their courses.
7. Do only the requested problems for your classes.
6. Do not attend your classes.
5. Do not learn university policies.
4. Do not take notes in class.
3. Be disrespectful to your fellow students, university staff, teaching assistants and instructors.
2. Do not have fun or participate in extracurricular activities.
1. Do not schedule your time.
Time Management
Make It or Break It

A New and Different Life:
- New tasks: Laundry? Cooking?
- New social structure

Different Learning Expectations
- More materials covered over a shorter period of time
- Learn independently
- Become a professional

Not Easy to “Undo”
- Make a Weekly Study Schedule
- Plan for unexpected events
<table>
<thead>
<tr>
<th>S</th>
<th>M</th>
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<td>8</td>
<td>9</td>
<td></td>
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<tr>
<td></td>
<td>Labour Day [UVic closed]</td>
<td>New Student Orientation Day</td>
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<td>13</td>
<td>14</td>
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<td>20</td>
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<td>23</td>
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<td>25</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CSC 111 Assignment 1 due, CSC 111 Quiz 1 during this week</td>
<td>Last day for 100% reduction of tuition fees for first term courses</td>
<td></td>
<td>MATH 100-125 6:30-6:30 pm</td>
<td>Last day for adding courses, last day to begin in first term</td>
</tr>
<tr>
<td>27</td>
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<td>28</td>
<td>29</td>
<td>30</td>
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<tr>
<td></td>
<td></td>
<td>CSC 111 Assignment 2 due, CSC 111 Quiz 2 during this week</td>
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</tbody>
</table>

**Schedule independent study time before each Assignment, Lab, Quiz, Exam, . . .**

**MATH 110** - Weekly in-class quizzes
<table>
<thead>
<tr>
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<td>31</td>
</tr>
</tbody>
</table>

- **CSC 111 Quiz 4 during this week**
- **PHYS 110 Mid-term, 6:00-8:00 pm**
- **ENGR 130 A01 Skill Assessment due**
- **MATH 100 Mid-term, 6:30-8:30 pm; ENGR 130 A01 Resume due**
- **CSC 111 Assignment 5 due; CSC 111 Quiz 5 during this week**
- **MATH 110 MatLab Project due**
- **CSC 111 Assignment 6 due; CSC 111 Quiz 6 during this week**

**OCTOBER**

- **CSC 111 Mid-term 1 in class; ENGR 130 A01 Skill Assessment due**
- **ENGR 130 A02-3 Skill Assessment due**
- **MATH 110 Mid-term, 6:00-6:50 pm; ENGR 130 A02-3 Skill Assessment due**
- **Last day for 50% reduction of tuition fees for courses**
- **Last day for withdrawing from first-term courses without penalty of failure**

**MATH 110** - Weekly in-class quizzes
<table>
<thead>
<tr>
<th>S</th>
<th>M</th>
<th>T</th>
<th>W</th>
<th>T</th>
<th>F</th>
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<td>CSC 111 Quiz 7 during this week</td>
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<td>PHYS 110 Mid-term, 6:00-8:00 pm</td>
<td>CSC 111 Mid-term 2 in class</td>
<td>MATH 110 Mid-term, 6:00-6:50 pm</td>
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<td>Reading Break</td>
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<td>Remembrance Day [UVic closed] Reading Break</td>
<td>MATH 100 Mid-term, 6:30-8:30 pm</td>
<td>ENGR 110 Assignment due</td>
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<td>CSC 111 Assignment 7 due; CSC 111 Quiz 8 during this week</td>
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<td>ENGR 110 Assignment due</td>
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<td>CSC 111 Assignment 8 due</td>
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<td>ENGR 130 A01 Safety Quiz</td>
<td>ENGR 130 A02-3 Safety Quiz; MATH 110 MatLab Project due</td>
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**MATH 110** - Weekly in-class quizzes
### DECEMBER

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- **1 Last day of classes for first term courses**
- **4 Last day of classes for first term courses**
- **7 Christmas Day [UVic closed]**
- **25 Christmas Day [UVic closed]**
- **28, 29, 30, 31 [UVic closed]**

**Notes:**
- Exams end for first term courses
- Last day of classes for first term courses
- Christmas Day [UVic closed]
Academic Integrity

• **Becoming and Acting as a Professional**
  o Act Professionally
  o Show Respect

• **Honor and Honesty**
  o University’s Academic Integrity Policy
“For a successful technology, reality must take precedence over public relations, for nature cannot be fooled.”

Prof. Richard Feynman, Challenger Report

Research Shows:

1st Year University is one the largest transitions that will happen in your life!!

- Self-management of Learning
- Moving: associated Life or Cultural Changes
- Workload is HIGH in this program!

Goals:
- Ensure YOU learn as much a possible in 1st year courses
- Ensure YOU become an Engineer
Faculty of Engineering
New Student Welcome

Dr. Brad Buckham

Engineering Professionalism
What now?

*Buy books, go to class, get my OneCard, study, review my schedule, go to class, finish unpacking, study, find food, go to class, phone home, study, do laundry, go to class, join a club, study, make friends, go to class, plan my future...*
Faculty of Engineering
New Student Welcome

- Thursday, September 8th
- 2:30 pm
- Student Union Building, Michele Pujol Room
- Meet faculty, staff, other students
- Games and prizes
- Free pizza!