

Department of Physics TA training: Guidelines on Making the Most of Your Teacher's Assistantship

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September 4th, 2013



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Today's Training

- Teaching style and learning environment
- Communication in (out)side of the classroom
- Tutorials and labs, Constrained learning environments
- Lesson planning and Active learning
- Grading
- Classroom and Time management



Ferris Bueller's Day Off - <http://www.youtube.com/watch?v=uhiCFdWeQfA>
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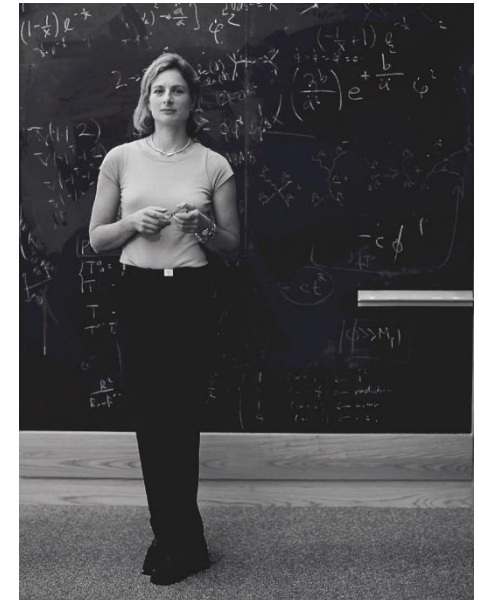
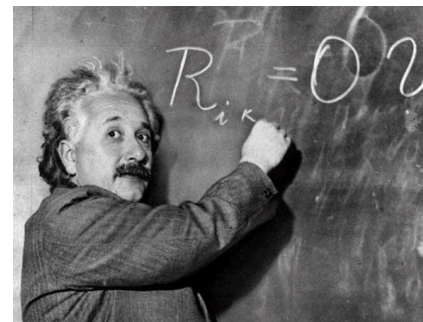
Answer the following phrase in as many ways as possible. They can be words or phrases or experiences you've had. Walk around the room and exchange answers with your fellow TAs

1. "Think about your most memorable teacher and why?"

2. "I best remember what I've learned when..."



Famous teachers



Personality Traits

Teaching Strategies

- Approachable
- Caring
- Classroom as a community
- Enthusiastic
- Knowledgeable
 - Motivating
 - Personable
 - Perspective

- Critical stance
- Getting to know students
- Keeps students informed
- Understanding diversity of students

- Active learning (retention pyramid)
- Bloom's Taxonomy
- Cooperative learning
- Learning styles
- Use of technology



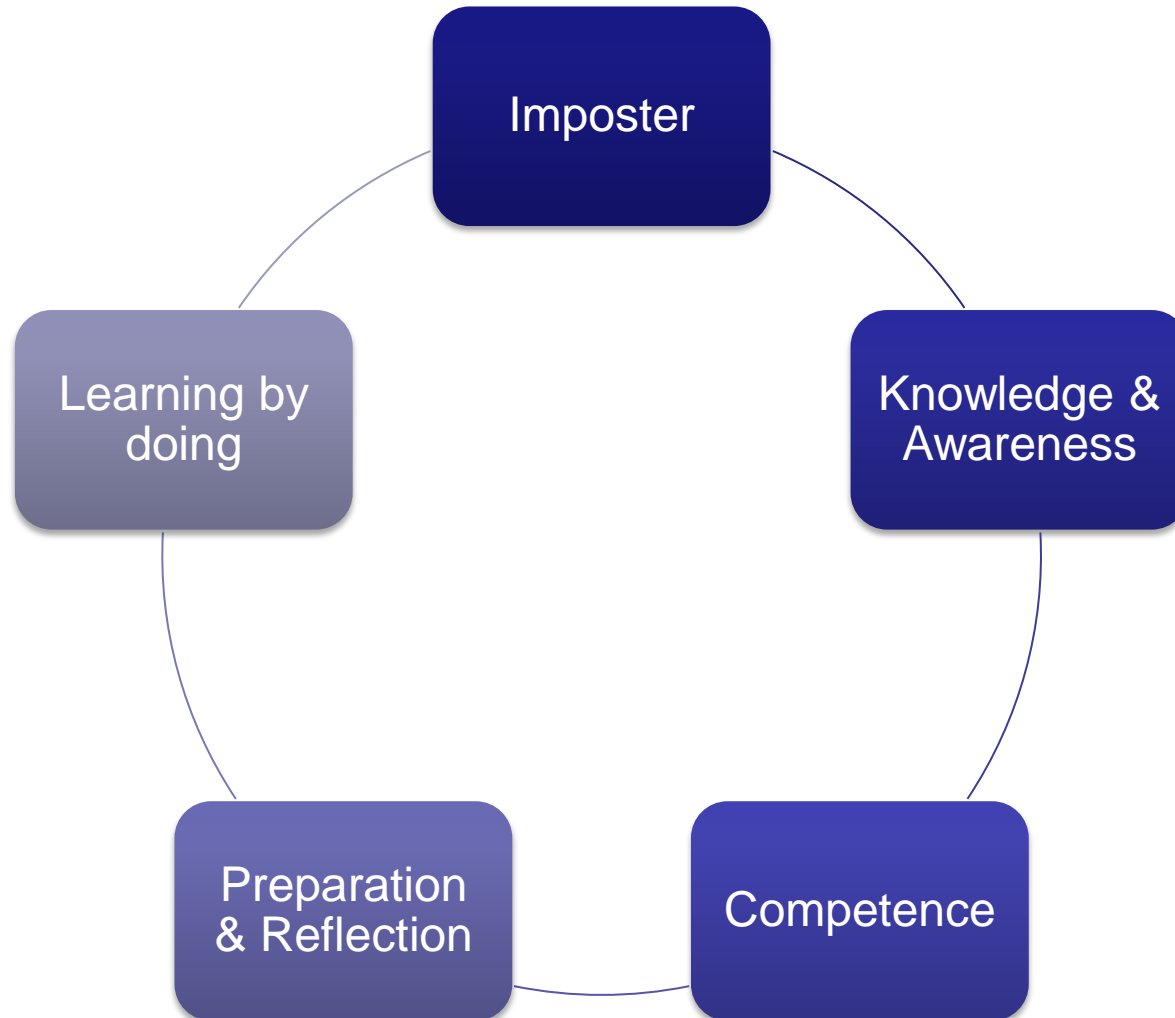
Who are you as a teacher?



- ✓ Teaching is complex
- ✓ ...just as all students are unique, so are teachers
- ✓ We learn to teach, by teaching
- ✓ So who are you, as a teacher?
- ✓ Your actions tell your students about your teaching style
- ✓ We'll consider that by modeling another strategy....BUT FIRST:



Developing as a teacher



Imposter Syndrome

Imposter



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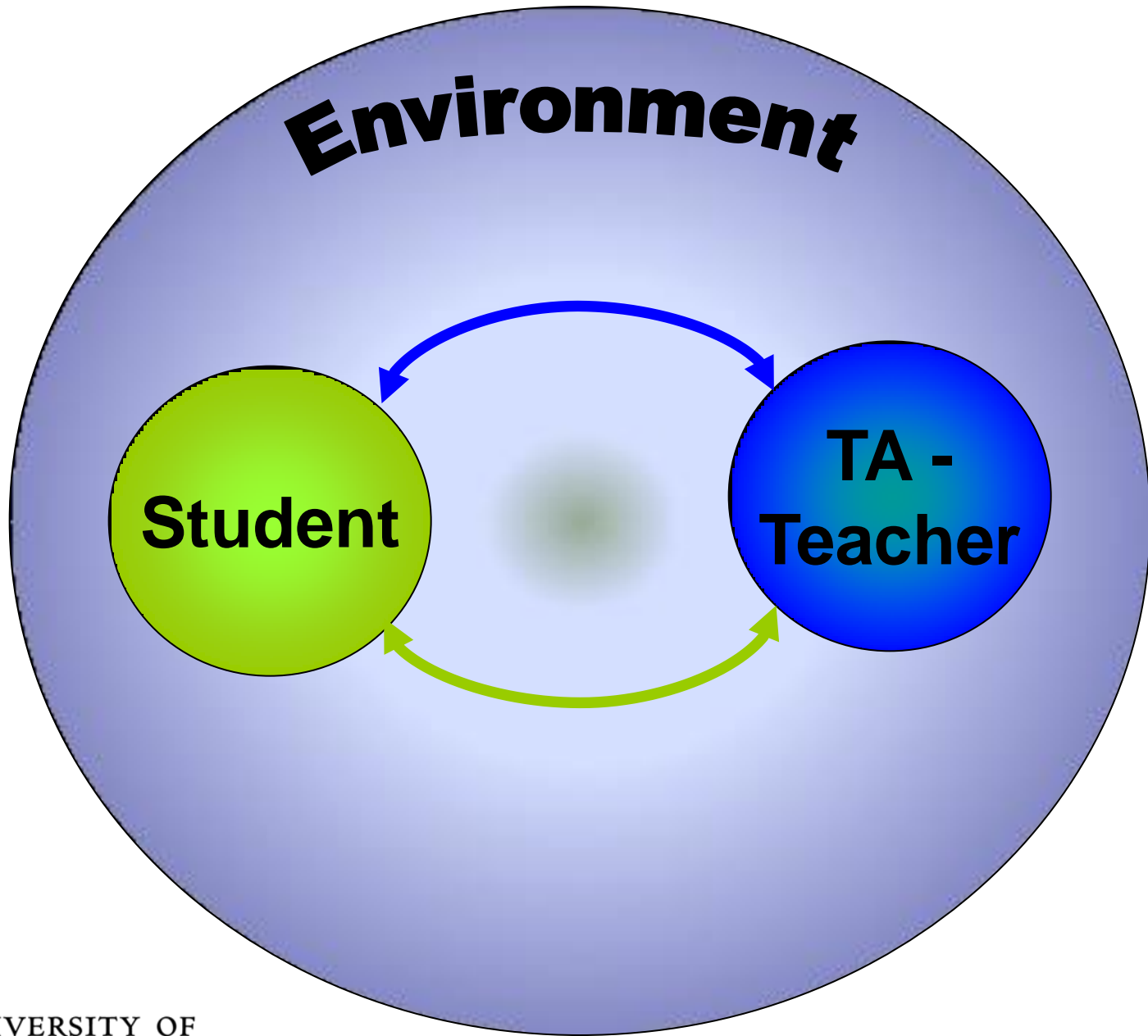
TATP

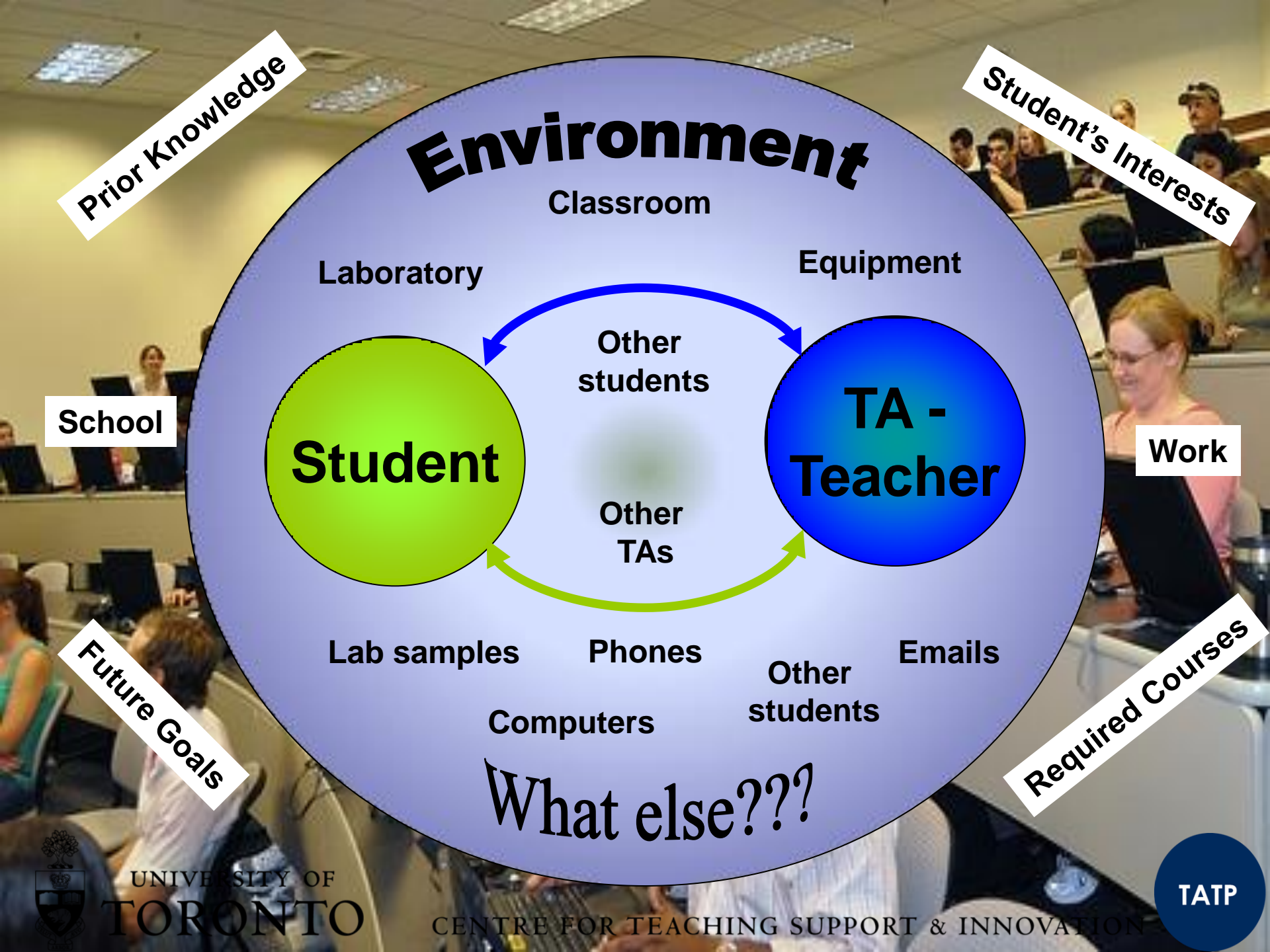
Imposter Syndrome: Coping



- You are not alone!
- Re-evaluate your role as TA: Are you a ‘fountain of knowledge’, or a ‘guide-by-the-side’?
- Change your comparison group; look at achievements objectively
- Don’t forget: Teaching is a learning experience







Prior Knowledge

Student's Interests

Environment

Classroom

Laboratory

Equipment

Other students

TA - Teacher

Student

Other TAs

Lab samples

Phones

Other students

Emails

Computers

What else???

School

Work

Future Goals

Required Courses



Your first day

Before

Get to know the room and location

Prepare your lesson

Practice what you want say

On

Arrive early

Display contact info

Introduce yourself

Use an icebreaker

Establish ground rules

Outline expectations

Leave time for questions



Why is it so hard to be a public speaker?

- Introduce yourself to your class
- What are the first sentences you will be addressing your students this year?

Hello, My name is... I am a graduate student in the Physics Department, and I will be your TA this term



Communicating effectively

- rhythm and speed of speech
- voice modulation and articulation
- volume
- effective use of gestures
- emphasized important points
- enthusiasm



- Watch for visual clues... respond...
- Listening – The other half of communication!
- Informal progress report
- Self-evaluate
- Student reflection



Who are your students?



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Who are your students?

- 1 in 4 first-years were not born in Canada
- 1 in 4 are first in the family
- 56% are female
- 51% of first-year live with family
- Most commute: 25% commute 10 hr/week
- 40% work off campus
- 1 in 4 spent 6 hours/week on co-curricular activities

NSSE University of Toronto, 2013



Know your students

- **Who** are they?
- **What** do they already know and want to know?
- **Where** are they from?
- **Why** are they there?
- **How** do they learn?
- What are their learning expectations?



Know your students

Connect with students

- Use audience-appropriate language
- Remember about the diversity of the class
- Actively encourage student questions
- Respond to confusing (or wrong) student answers

Be yourself

Be flexible

Be sincere

Be respectful

Build their confidence

- Be positive
- Reinforce jobs well done
- Encourage student to solve problem/answer questions
- Encourage group/peer-to-peer help
- Avoid embarrassing students
- Be organized: lead by example

Communication outside of classroom

How?

- Email
- Blackboard
- Feedback (grading)
- Office hours
- Impromptu meetings

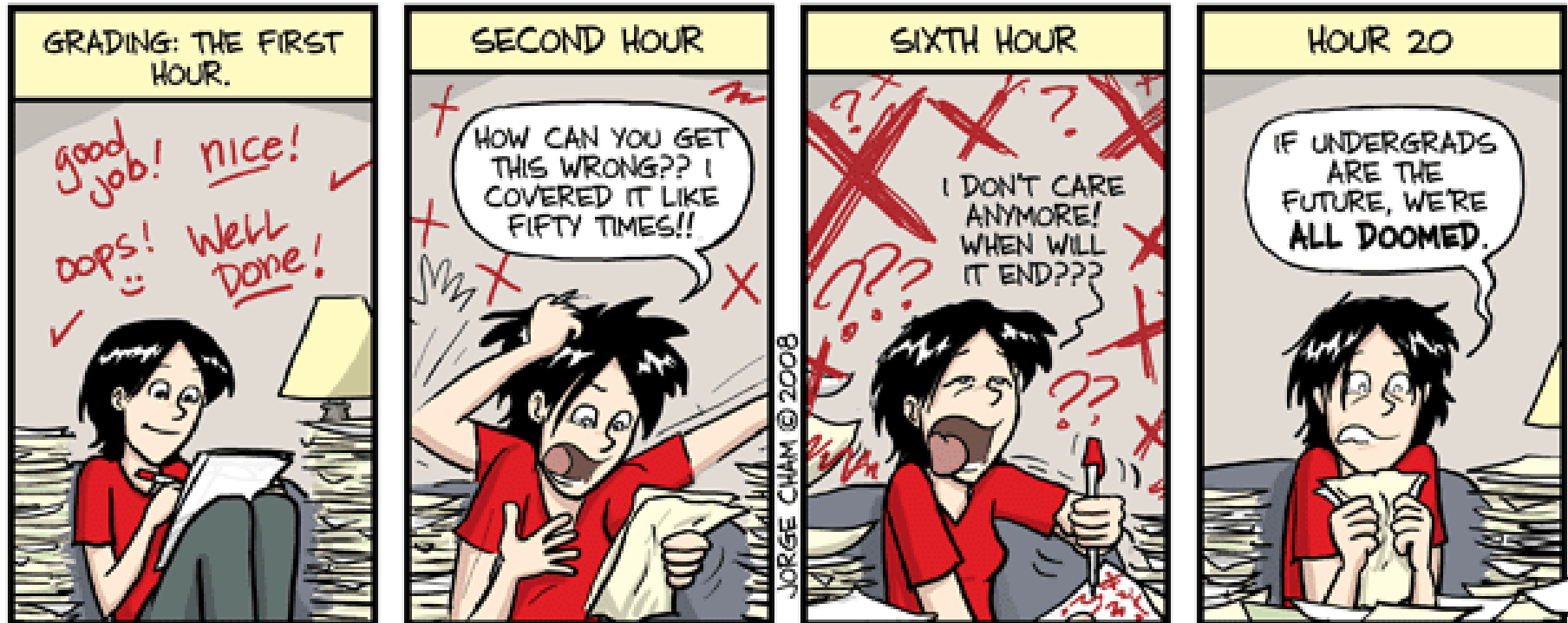
What?

- Academic material, Expectations, Performances, Policies
- *Address your students in a professional manner*
- *Get feedback from students to ensure they understood your message/feedback*



on campus

Professional Conduct & Social Media



WWW.PHDCOMICS.COM

make them, stop." Posted on Feb. 22, the comments have since been taken down. Chair of the sociology department, Nancy Mandell, told the Toronto Star that Baggiarini has now apologized for her actions. "She's very sincere in that apology," Mandell said, but added that the comments were "very regrettable and inappropriate," and that they show "a lack of respect for students." The department is still investigating the matter.



Communicating Expectations

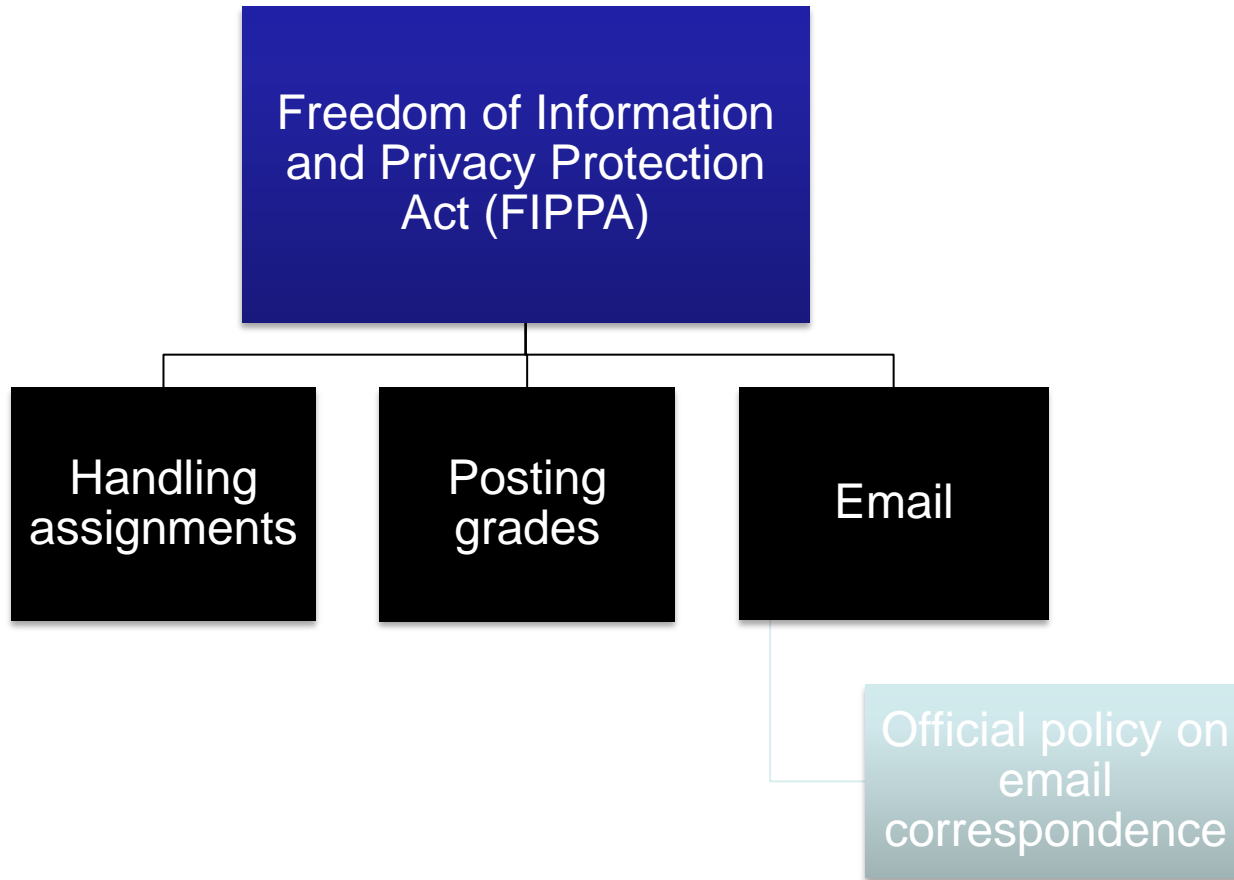
Provide information on University policies & procedures

www.teaching.utoronto.ca/gsta/teaching-essentials/ta-toolkit/ta-responsibilities.htm



Respecting confidentiality

www.teaching.utoronto.ca/gsta/teaching-essentials/ta-toolkit/ta-responsibilities.htm



Blackboard

The screenshot displays the Blackboard LMS interface for the University of Toronto. At the top, the header includes the university logo, the name "UNIVERSITY OF TORONTO", and the user's name "Michelle Hoffman". Navigation links for "My Places", "Home", "Help", and "Logout" are visible. Below the header, there are tabs for "My Page", "Community", and "Content". The main content area is titled "Tools" and lists several features:

- Announcements**: Create and view Course Announcements.
- Blackboard Help**: View Blackboard Help in a separate window.
- Blogs**: Create and manage blogs for Courses and Course Groups.
- Calendar**: Track important events and dates through the Calendar.
- Collaboration**: Create and manage Virtual Classroom and Chat sessions.
- Journals**: Create and manage journals that can be assigned to each user in a group for the purposes of private communication with the instructor.
- Library Resources**: Link to Library Resources website.
- My Grades**: Displays detailed information about your grades.
- Portfolios Homepage**: Create and manage personal Portfolios and Artifacts.
- Roster**: (No description provided)

A digital clock in the bottom right corner of the main content area shows "0:05:00". On the left side, there is a navigation menu with options like "Announcements", "Course Information", "Contacts", "Course Documents", "Assignments", "Discussion Board", "External Links", "Communication", "Tools", and "Syllabus". Below this menu is a "COURSE MANAGEMENT" section with "Control Panel", "Content", and "Course Tools".

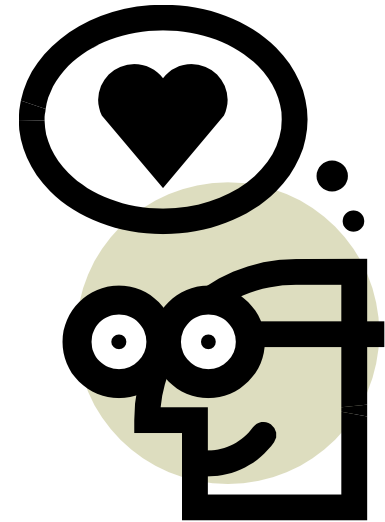


Avoiding conflict of interest

www.teaching.utoronto.ca/gsta/teaching-essentials/ta-toolkit/ta-responsibilities.htm

Provost statement on conflict of interest and close personal relationships

- You **MUST** disclose it immediately to the CI.
- You can't be responsible for grading the student's work.
- You open yourself up to allegations of sexual harassment.



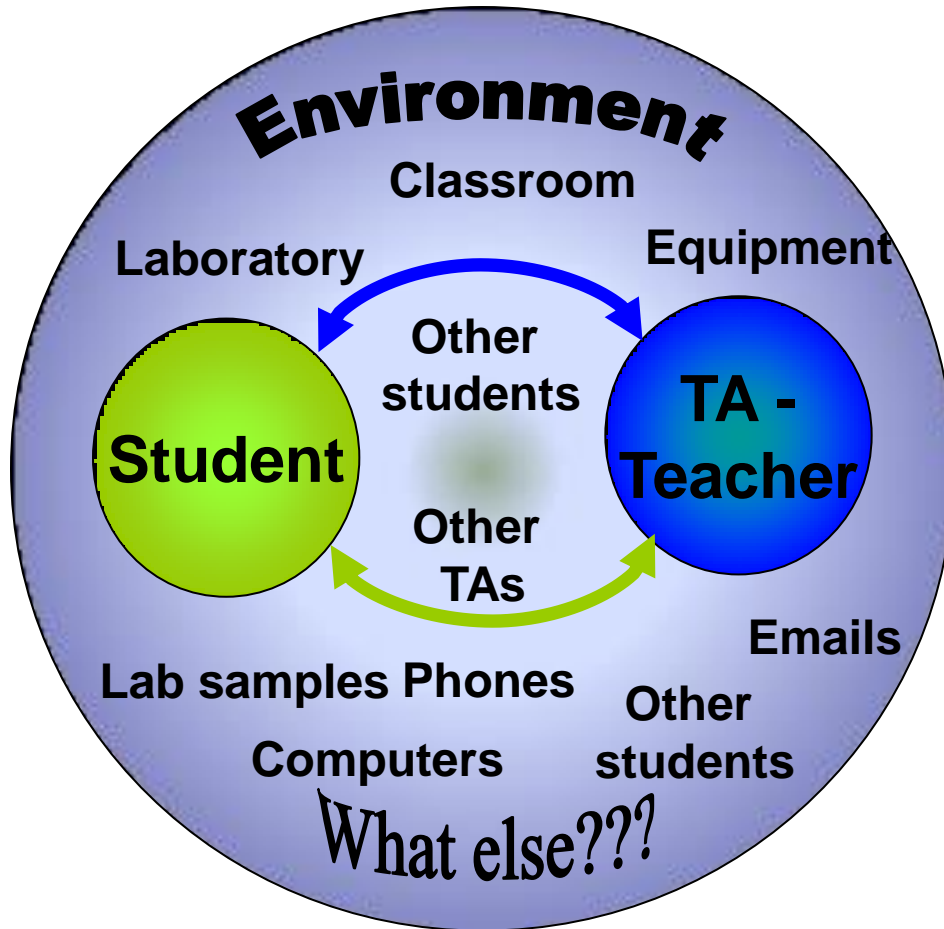
Communicating Expectations

Communicate your expectations on the **FIRST DAY**

- Deadlines, submitting assignments, being-late policy
- Be clear about how students should communicate with you: Email, in person, Blackboard
- How long you will take to respond
- Explain your reasons for doing things the way you do:
“I do not respond to emails the night before a mid-term because...”



Tutorials, Labs and TAs



Take 1 min to write down your answers to these 2 questions, use key words expressions:

1. Thinking of tutorials or labs: What is their purpose? What makes them 'great'?
2. Thinking of TAs: What added benefits can TAs provide to students in tutorials or labs?



Effective tutorials and labs

Tutorials

- Exercise-solving (exemplars)
- Balanced modalities
- Learn by teaching?

- Interactive
- Clear and engaging
- Informative and correct
- Relevant
- Clears misconceptions
- Fills in gaps
- Extends material
- Develops basic skills
- Difficult topics
- Deep understanding
- Teaches how to think
- Collaborative

Labs

- Hands-on
- Teaches lab methods
- Introduces tools
- Real-time comprehension

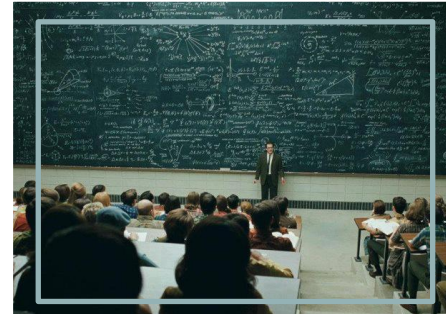


Added value of TAs

Share experiences



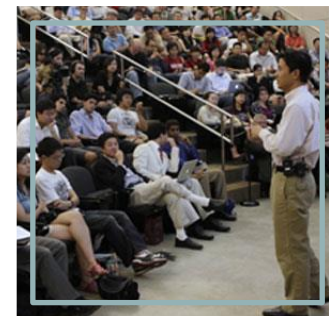
Demonstrate high-quality thinking



Personal insights



Approachable



Demonstrate professionalism and intellectual ethics

Global view



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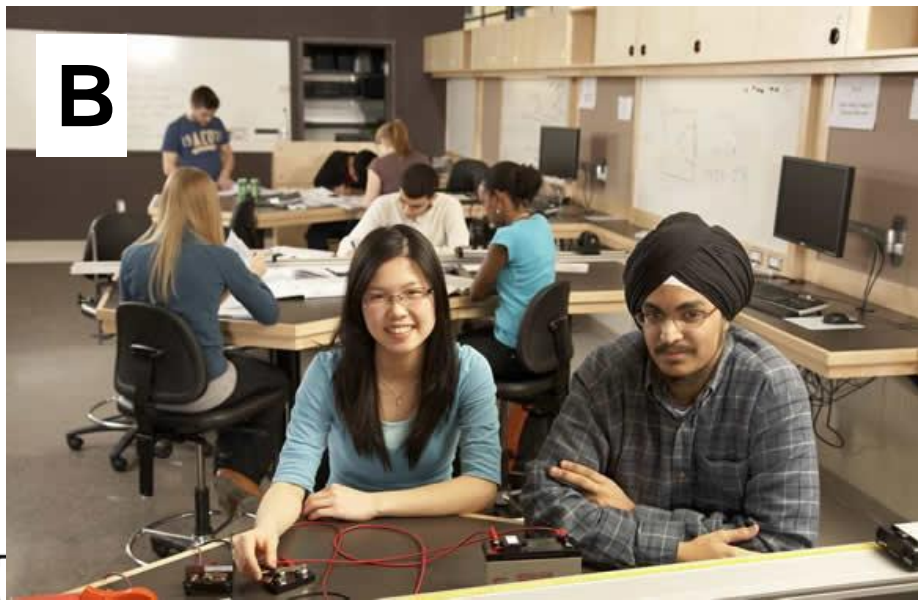
Know your space

How would space influence your teaching?

- A. Lecture halls
- B. Labs
- C. Tutorials



<http://www.flickr.com/photos/nayukim/3826773005/>



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http://www.osm.utoronto.ca/i/Photos/website/room_pics/BA-2139.JPG



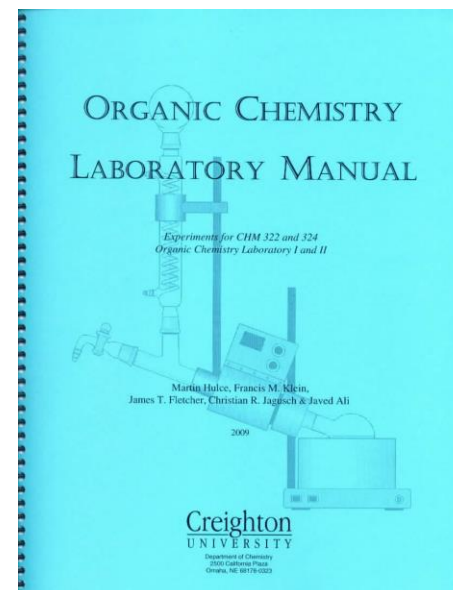
Constrained Environments

- Constraint: Any factor or requirement that affects or dictates, to some degree, the learning environment.



Problem Set 2

- How many protons, neutrons, and electrons does each of the following contain?
a) ^{80}Se b) ^{79}Br c) ^{23}Na d) ^{60}Ni e) $^{63}\text{Cu}^{2+}$ f) $^{32}\text{S}^{2-}$
- Write out the electron configuration for Se and Fe.
- Write out the orbital diagram for Si and Ni.
- Using Lewis structures, show how ionic compounds are formed by atoms of the following pair and write the formula for the compound that forms
a) barium and oxygen b) potassium and nitrogen c) aluminum and sulfur
d) calcium and fluorine e) lithium and bromine d) magnesium and phosphorus
- Write formulas for ionic compounds formed from the following ions
a) Fe^{3+} and SO_4^{2-} b) Sr^{2+} and OH^- c) NH_4^+ and CO_3^{2-}
- Give the name for each formula and the formula for each name.
a) NaBr b) FeCl_2 c) $\text{Co}(\text{CN})_3$ d) $\text{Sr}(\text{MnO}_4)_2$ e) CaHPO_4 f) $\text{Cr}_2(\text{CO}_3)_3$
g) PbO_2 h) CuF i) KH_2PO_4 j) iron(II) oxide k) tin(IV) sulfide
l) potassium sulfite m) barium nitrite n) copper(II) nitrate o) nickel(II) hydroxide
p) cobalt(III) phosphite q) aluminum sulfate r) silver bicarbonate s) sodium nitride
- Give the distinguishing electron for the following.
a) Rb b) Ge c) Gd d) Cs e) Ag



Constrained Environments

Tutorial Constraints

- Preset problem coverage
- Test or exam take-up
- Quizzes
- Theoretical exposition
- Preparation required
- Too much material
- Time

Lab Constraints

- Introductory comments
- Preparation required
- Preset experimental procedure
- Quizzes
- Required submissions
- Time



Scenario

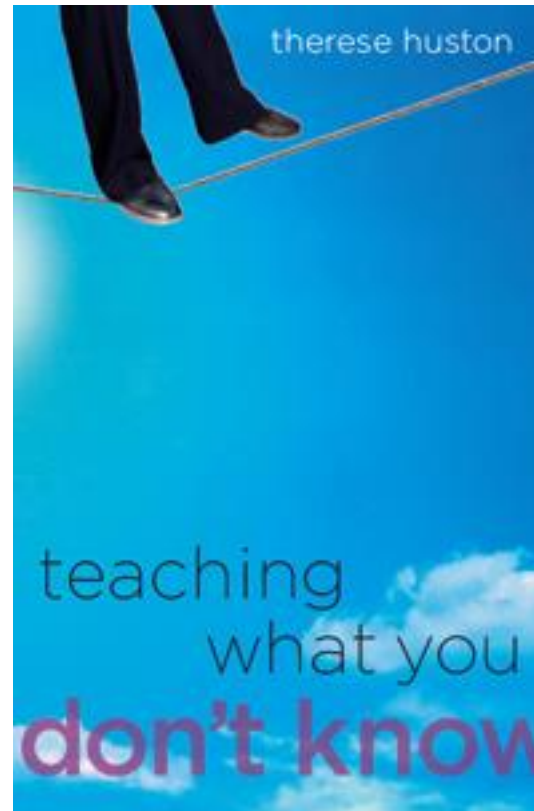
During a particularly challenging portion of your lecture, Nora asks you an insightful question for which you aren't immediately sure of the answer.

Think-Pair-Share:

- For 1 minute, think about a strategy you could use to either prevent this from happening, or address it in the moment (mitigate).
- Pair up with someone and compare thoughts. Be prepared to share a couple.



Teaching what you don't know



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Teaching what you don't know

What are the benefits?

- You learn something new.
- You connect with new fields, and broaden your research areas and interests.
- You spend more time thinking about students and their learning level.
- You learn along with students...but with more experience. You understand their context.
- You avoid 'teaching as telling'.
- You can be a 'cognitive mentor'.



Helpful strategies

- Accept that there will be extra preparation work, and plan ahead for it.
- Attend the class.
- Prioritize your learning.
 - What do the students know?
 - What specifically do you not know?
- Get ample feedback.
- Use active or collaborative problem-solving exercises in tutorials.
 - Think-Pair-Share
 - Problem Based Learning

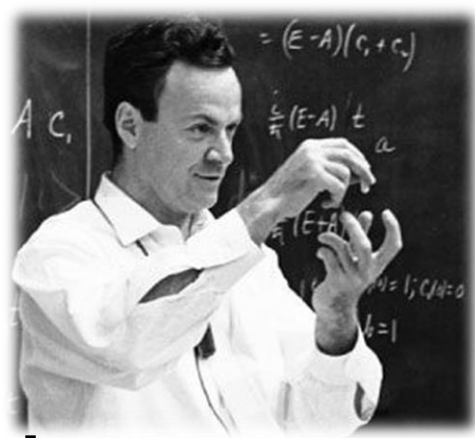


At the end: Reflection

- Evaluate the experience.
- How did it go?
- What worked and what didn't?
- Was the preparation enough?
- It may be helpful to consult your fellow TAs to discuss your experience.
- What can you do to improve for the next class?
- Document for your teaching portfolio!



MICROTEACHING MINI-COURSE



- **Public Speaking for First-Year Physics Graduate Students**
- The goals of this mini-course are to practice talking up in front of a small group, and discuss the challenges and joys of public speaking. We believe that oral presentation skills are important to your future. These skills do not come naturally, but can be practiced and learned.



People

- **Coordinator: Jason Harlow**

- **Office:** MP121B (North Wing, behind the payphone)
- **Email:** jharlow at physics
- **Phone:** (416) 946-4071



- **Senior TAs:**

- Andreea Lupascu
- Office: MP 095
- Email: alupascu at physics
- Phone: 416-946-7471 or
- 416-978-7347



- Ian Chan
- Office: MP 619
- Email: ianchan at physics
- Phone: 416-978-1499



- **Who?** : All 1st Year Physics Graduate Students + some interested higher level graduate students
- **When?** : 3 meetings, 7 hours total, spread out over Sep. 4 - 20, 2013.
- 1st meeting is 2.5 hours: Sep. 4, 2012 in MP111 (right now!)
- Each group will then meet for two hours twice (4 hours total), once during the week of Sep.9 - 13, and then again exactly 1 week later.



WHY???



The purpose of these sessions is to give you an opportunity to explore your own teaching style in a friendly, risk-free environment.

A web-cam, a chalk-board, a projector, and a computer will be available.

Each student will be provided with a USB drive with a video of their presentations, in case you want to review your presentations at home.



Payment and relation to TA work



- This course is not for marks. Attendance will be taken, and an official record will be kept by the graduate chair of who participated as Pass/Fail only.
- An unofficial ranking of your public speaking abilities (on a scale of 1-5) will be sent to the undergraduate chair to help determine your future TA assignments.
- 7 hours are considered “TA Training” and you will be paid for this.



During the Two Hour Sessions

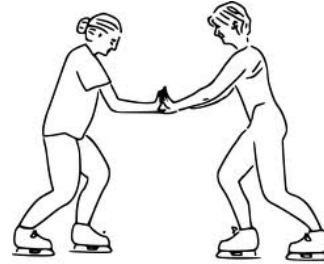


- There will be 4 students and 1 Senior TA.
- Each student will deliver a "teaching-style" presentation on a topic of their choice. The level of delivery should be understandable to a typical first-year undergraduate.
- After each presentation, the presentation will be reviewed, and comments may be made for the benefit of the speaker.

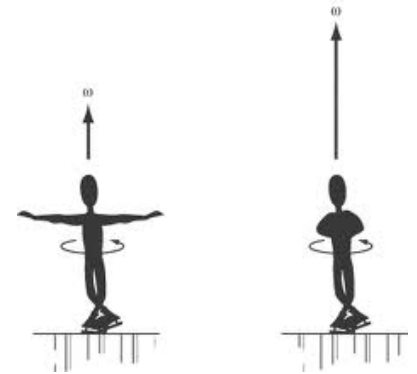


Suggested Topics

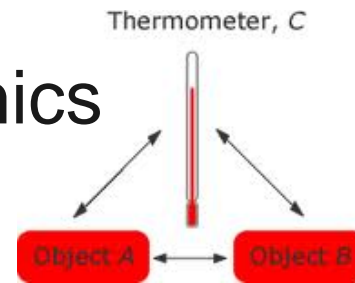
- Newton's Third Law



- Conservation of Angular Momentum

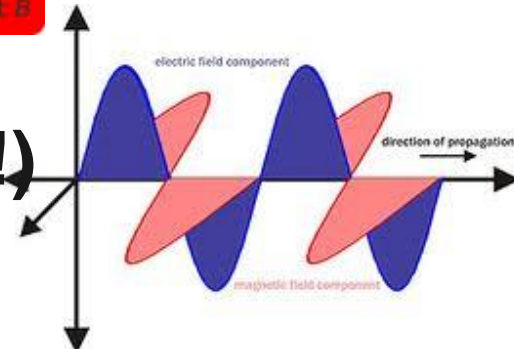


- Zeroth Law of Thermodynamics

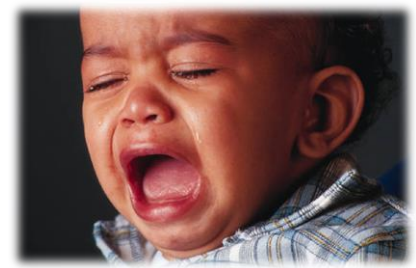


- Polarization of Light

- (choose one, make it fun, or modify!)



First Session



- Each 5-minute presentation will be timed and video-taped.
- Immediately after each presentation, the tape will be reviewed by everyone, with minimal commenting.
- After watching the video, 10 minutes will be used for discussion and constructive comments about the delivery.
- Each presenter will receive a USB drive with their presentation for their review.



First Session



- For each presenter, the 3 peers and the Senior TA will fill out a Feedback Form.
- The presenter will receive all 4 feedback forms to aid in preparing the second presentation.
- Results of this first presentation will NOT be shared with the course coordinator, undergrad chair or graduate chair.
- The final 30 minutes of the 2-hour session will be a discussion and workshop lead by the Senior TA to help you prepare for your second, longer presentation.



Second Session



- The Second Session will take place exactly 1 week later, with the same group members and Senior TA.
- Each student will give a 10-15 minute teaching-style presentation which incorporates ideas and suggestions received during the first session.
- Please bring your USB drive from the first session, and your second presentation will be recorded for your records and future review.
- Comments, questions, discussion, and comparison with the first presentation will last 15-20 minutes after each talk.



Second Session



- For each presenter, the 3 peers may fill out a Feedback Form and share it with the presenter.
- The Senior TA will fill out a Feedback Form which will be then be given to the course coordinator, Jason Harlow.
- The numerical results of the Feedback will be averaged and shared with the undergraduate chair as an informal assessment of your public speaking ability.



Preparing your talk



- You are encouraged to use visual aids, such as powerpoint, or the chalk-board. A laptop with projector will be present in each room; you may bring a talk on a USB key, CD Rom, or bring your own laptop.
- Time yourself! You must not go over the time limit – the Senior TA will be timing each presentation and cutting you off.

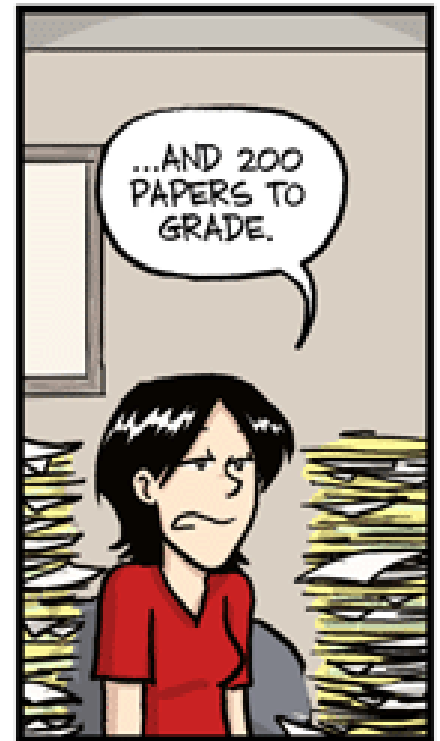


Speaking Tips

- Be well prepared; plan and rehearse the timing of what you will present.
- Have eye contact with the audience members.
- Speak clearly, and loud enough so everyone in the room can hear you.
- Make sure your visual aids are easily readable to all.
- Smiling, open hand-gestures, and voice inflections are okay – don't monotone!
- Relax and be yourself!



Grading



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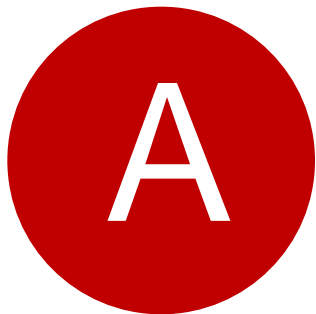
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The ABC's of Grading

- You will be given a grading assignment with the students answers , solutions and a sticky.
- You will receive a handout with the grading method, either:



BLUE no marking scheme
YELLOW the U of T guidelines
GREEN a rubric



The ABC's of Grading

Tasks:

1. Read the assignment and solutions (10min)

2. Write down on the sticky

- A final mark (**out of 10**)

- How confident are you in defending your mark?

(**Very unsure, Somewhat unsure, Somewhat sure, Very sure**)

Bring sticker to Andreea or Ian

BLUE no marking scheme

YELLOW the U of T guidelines

GREEN a rubric



Observations: The ABC's of Grading

BLUE no marking scheme

YELLOW the U of T guidelines

GREEN a rubric

- Which method would be faster/ more consistent?
- What is the standard deviation? How to diminish that?
- How would you defend the mark you have assigned?
- Can the rubric be improved?

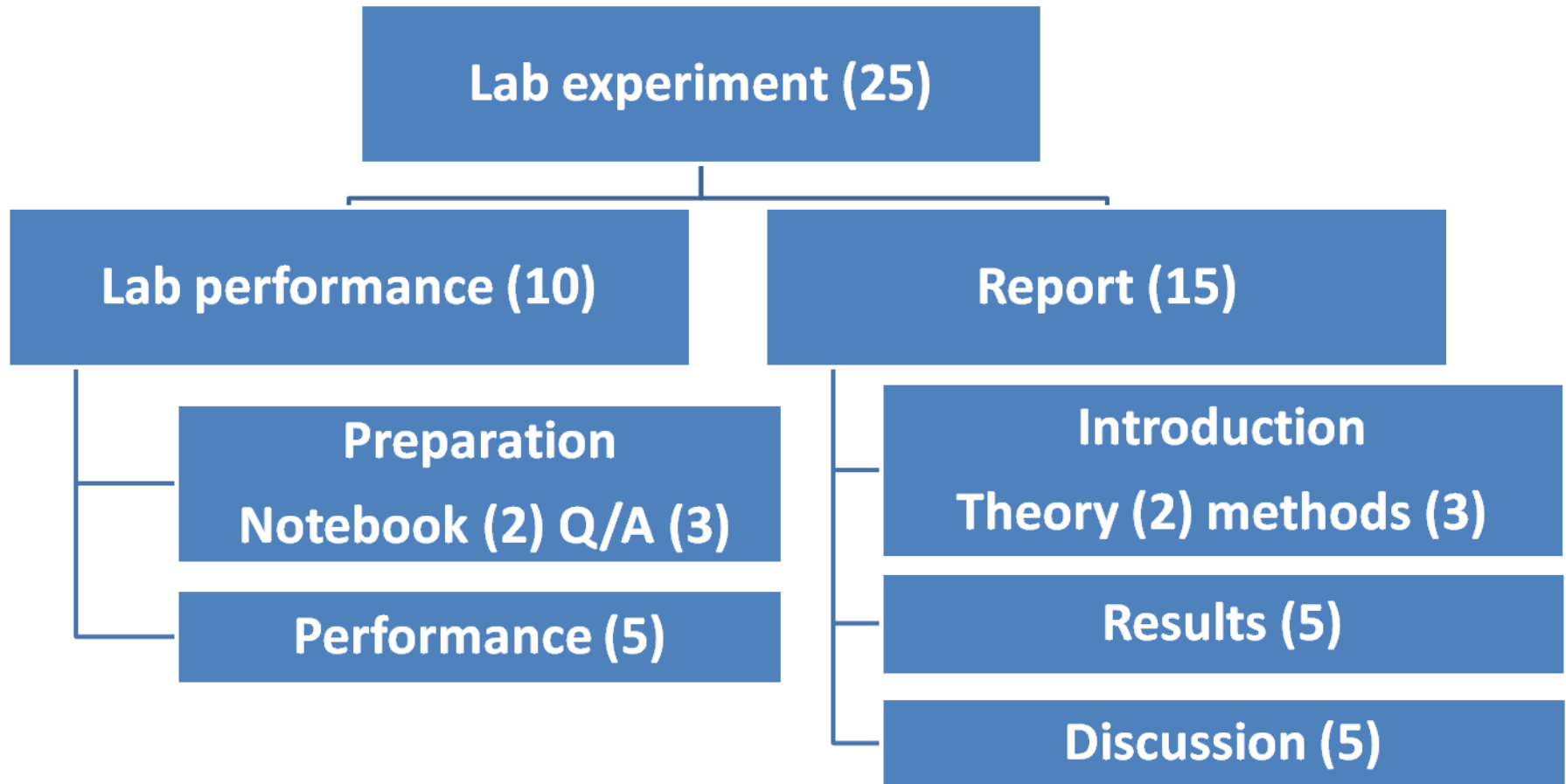


Designing Rubrics

- ✓ Identify evaluation criteria
- ✓ Decide on the total mark
- ✓ Break the assignment into sections
- ✓ Assign a mark for each section
- ✓ Get approval from instructor



Example- Grading a lab experiment



Grading Responsibilities



- Be fair, consistent and efficient (effective)
- Provide feedback
- Keep records
- Vigilant to and report Academic Integrity issues



The grading process

Before

- Communicate
 - Instructor
 - Students
 - Fellow TAs
- Work through the assignment
- Formulate detailed marking scheme
- Read few papers and revise marking scheme



The grading process

During

- Mark one question or section at a time
- Cover names or numbers
- Annotate rubric as you progress
- Provide useful written feedback
- Comments should be consistent with grade
- Make a list of common errors to report to entire class

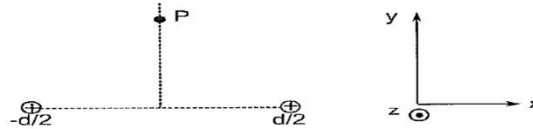


Example of Feedback

PART II:

Clearly show your reasoning and work as some part marks may be awarded. Write your final answers in the boxes provided.

Two infinite lines of charge extend parallel to the z axis, as shown in the figure. Each has a uniform charge per unit length λ . They are separated by a distance d .



- A. [10 marks] Find the electric field \vec{E}_1 at point P due to the infinite line of charge on the left, as shown in the diagram. The (x, y, z) coordinates of P are $(0, b, 0)$. Express your answer in terms of the unit vectors \hat{i} , \hat{j} and \hat{k} , which point along the x , y , z axes, respectively.

$$\vec{E}_1 = \frac{kz\lambda}{r^2}$$
$$r = \sqrt{\left(-\frac{d}{2}\right)^2 + b^2} + \hat{z}$$
~~$$\vec{E}_1 = \frac{kz\lambda}{\sqrt{\frac{d^2}{4} + b^2}}$$~~
$$\vec{E}_1 = 9.0 \times 10^9 \text{ Nm}^2/\text{C}^2$$

3

Is this mark justified?

What mistake did the student make?

What tips would you give the student?

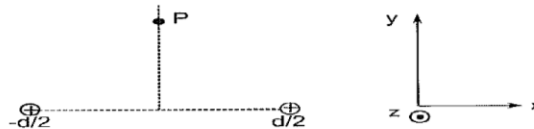


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Is this formula correct? one side of the eq. contains a vector (\vec{E}_1), while the other side has scalar values.

+ 3 points for magnitude

$$\vec{E}_1 = \frac{k 2\lambda}{r}$$

$$r = \sqrt{\left(-\frac{d}{2}\right)^2 + b^2}$$

$$\vec{E}_1 = \frac{k 2\lambda}{\sqrt{\frac{d^2}{4} + b^2}}$$

$$\vec{E}_1 = 9.0 \times 10^9 \text{ Nm}^{-1}\text{C}^{-2}$$

← The magnitude of $|\vec{E}_1|$ is calculated here. For expressing the vector components of $\vec{E}_1 = E_1(\hat{x}, \hat{y}, \hat{k})$ as requested, first express \vec{r} using its $(\hat{x}, \hat{y}, \hat{k})$ components. (-5 points)

→ For obtaining full marks, all the steps in the derivation and reasoning should be explained and the direction of \vec{E}_1 and \vec{r} should be illustrated in a diagram (-2 points)

(3/10)

Give students tips on where things to improve directly where they made a mistake!

Give students feedback on HOW to improve!

Direct your comments to the work, not the person



Effective Feedback is...

- **Constructive feedback**
 - encourage & reinforce good ideas
 - Assess and comment on the work alone, not the student
- **Efficient feedback**
 - Give detailed comments on the first few assignments
 - Focus on a few key criteria, be specific
 - Give general feedback to the class to save time



The grading process

After

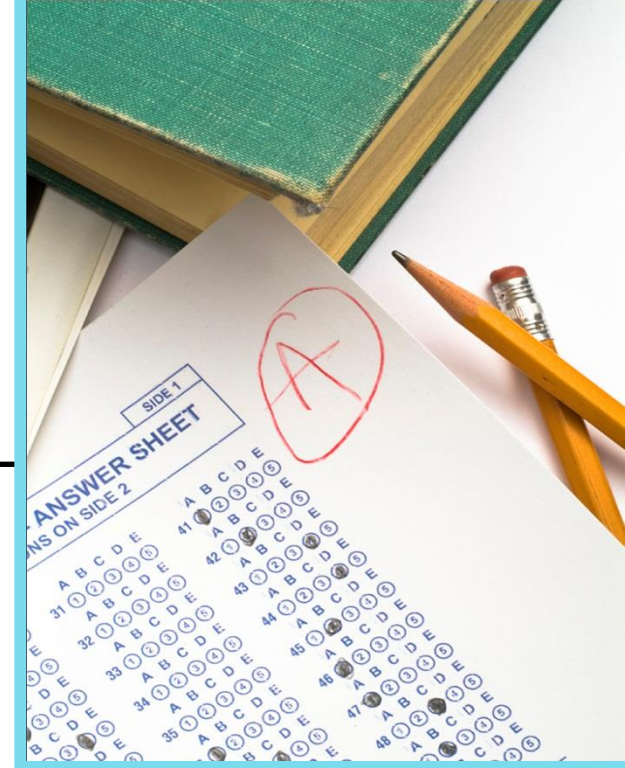
- Ensure grades correspond to a fair ranking
- Record raw scores
- Return assignments to the students individually
- Return assignments when it is least disruptive
- Formulate policy for re-grading: written requests
- Set up a time to deal with grading disputes



The grading process

Finally...

- Have a clear head
- Avoid marathons
- Mark in a supportive environment
- Write clearly on assignments
- Give feedback that is detailed, specific and constructive



A

Case Studies



Case study 1:

A group of students work on a lab assignment together. While they submit individual assignments, many sections of their work are exactly the same.

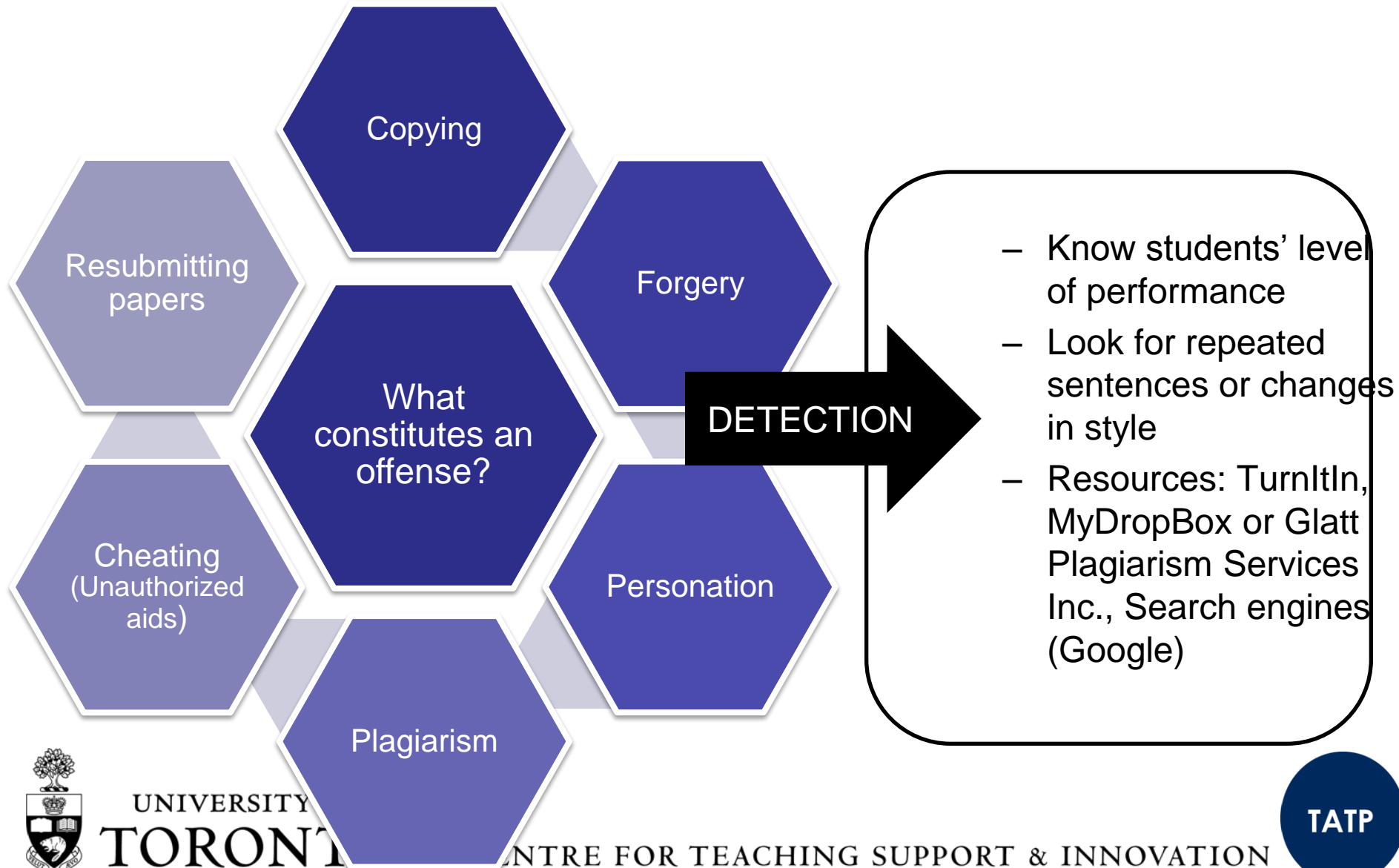
In your groups discuss

- The issue (s) presented.
- How you would deal with it (them) in your role as a TA.



Upholding Academic Integrity

Code of Behaviour on Academic Matters



Upholding academic integrity

www.teaching.utoronto.ca/gsta/training/tatoolkit/essential-policies.htm

Report it to
the CI

- NOT reporting is an offense of the Code!
- You may be asked to compile evidence.
- LOG YOUR HOURS.

Retain the
assignment

- Don't assign a grade.
- Don't return the assignment(s).

Exercise
caution with
the student

- Don't accuse the student of plagiarism.
- Don't impose penalties.
- Don't advise the student to withdraw.



Disgruntled student

Scenario 1:

A student gets their assignment back and is angry about their grade and wants to speak to you right after tutorial ends.

A

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<http://www.flickr.com/photos/lara604/2369412952/sizes//in/photostream/>

Safeguarding the learning environment

www.teaching.utoronto.ca/gsta/teaching-essentials/ta-toolkit/ta-responsibilities.htm



Policies:

- Code of Student Conduct
- Ontario Human Rights Code
- Policy on Sexual Harassment
- Policy on Appropriate Use of Information Technology
- Accessibility for Ontarians with Disabilities Act

Where to go and what to do:

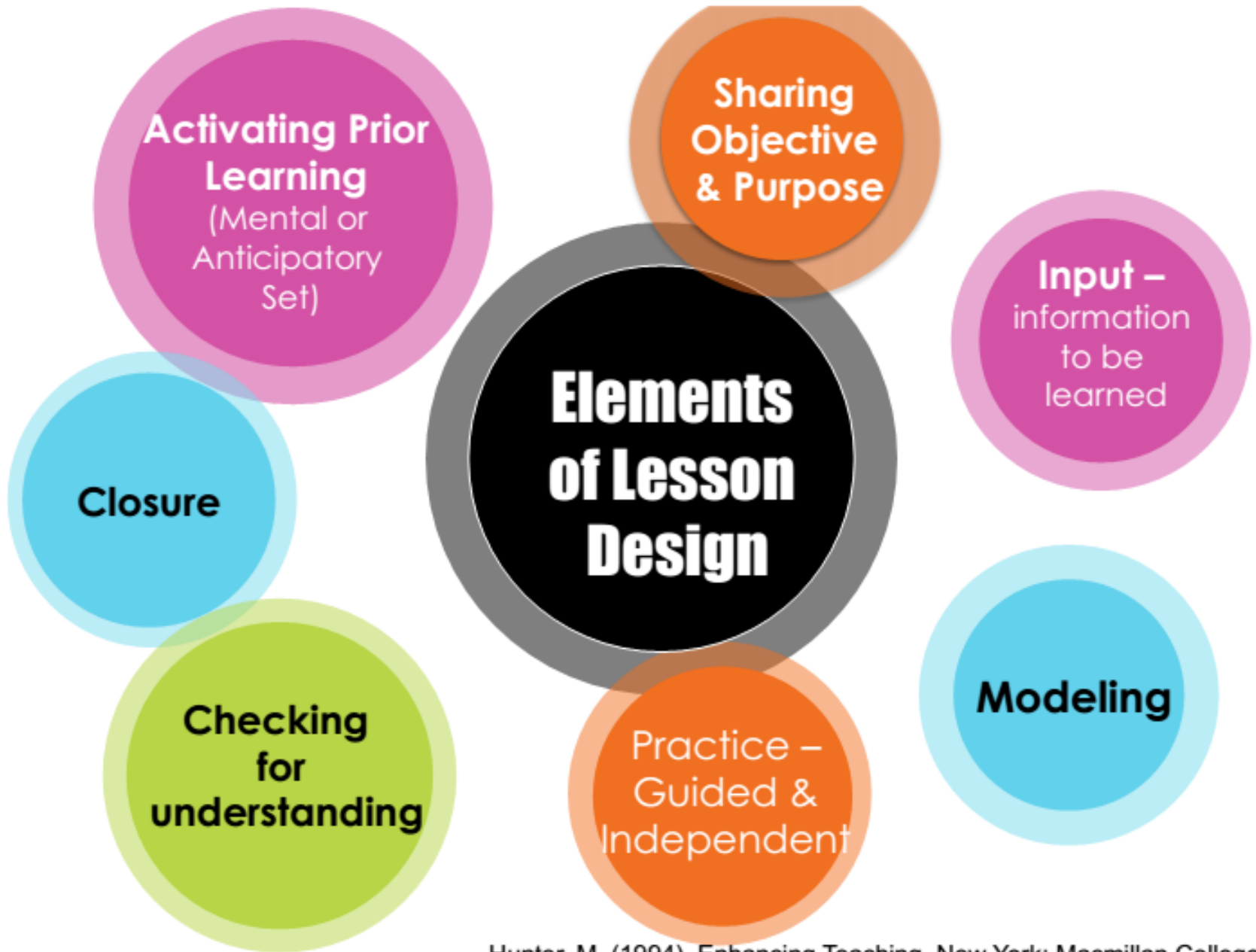
- Campus police: (416) 978-2222
- Student crisis response: (416) 946-7111
- Equity offices on campus:
Community Safety; Anti-racism and Cultural Diversity; Sexual and Gender Diversity; Sexual Harassment Office
- Guide on online harassment – “Enough!”
- Students for Barrier-free Access (sba.sa.utoronto.ca)

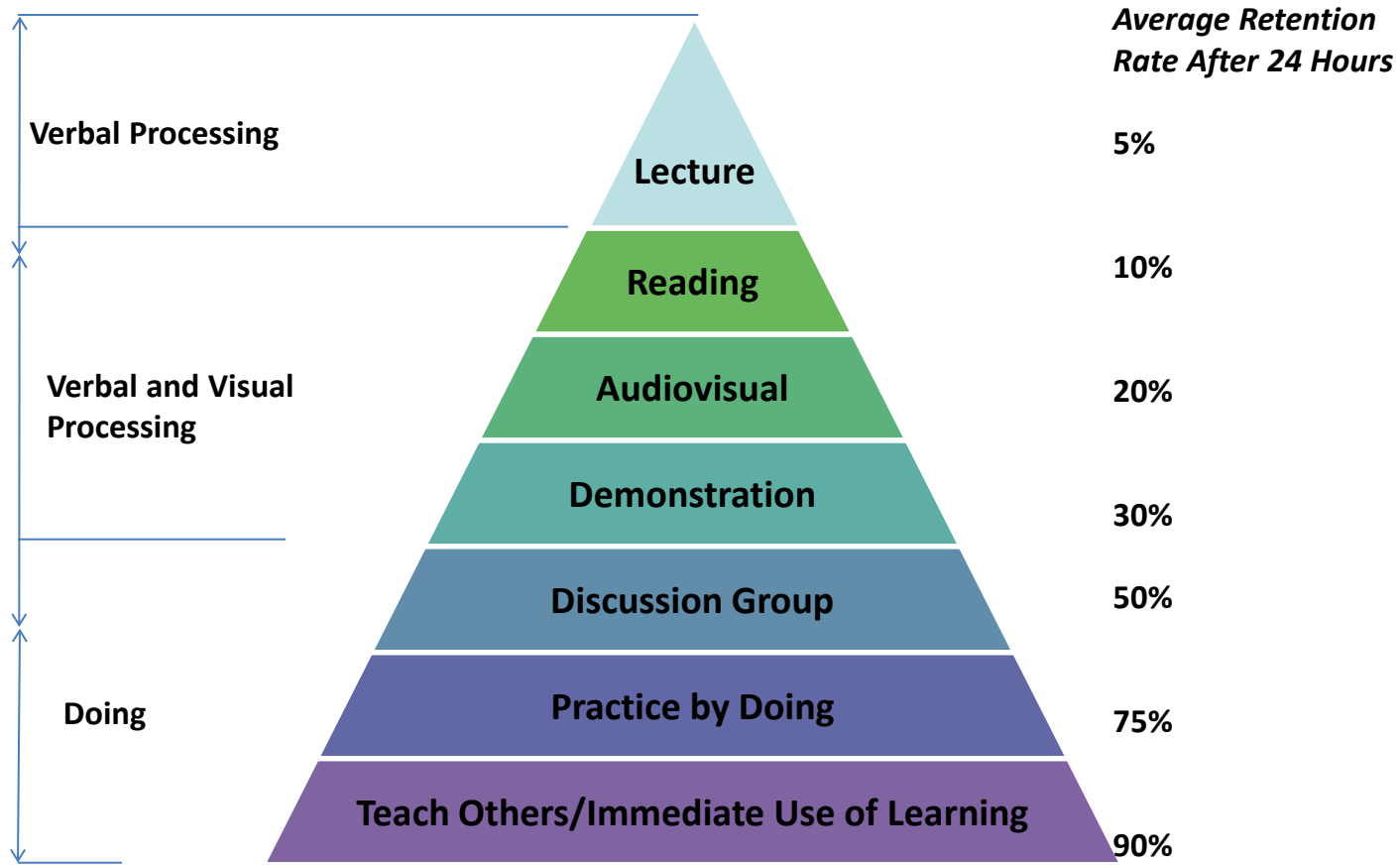


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The average percent retention of information after 24 hours for each of the instruction methods.

Note that the percentages are not additive.

Source: Adapted from National Training Laboratories of Bethel and NTL Institute of Alexandria, VA, cited in David Sousa (2006), *How the Brain Learns*, 3rd ed. California: Corwin Press.



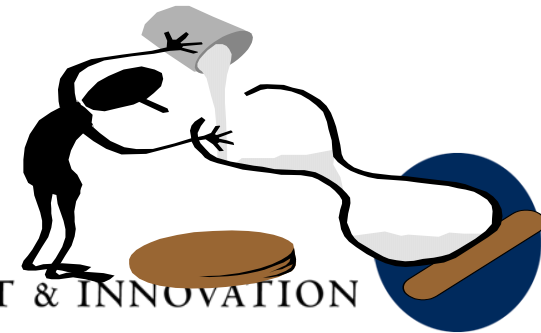
Organizing your teaching

- Be organized: Decide on learning objectives (try for no more than 2 or 3).
 - E.g., “**At the end of class you will be able to solve 3D rigid-body equilibrium problems**”.
 - **Keep track of learning objectives as you go.**
- Be concise: Each lecture or activity should hit a learning objective for that day.
- Be flexible: Estimate time. Don't *over-plan*.

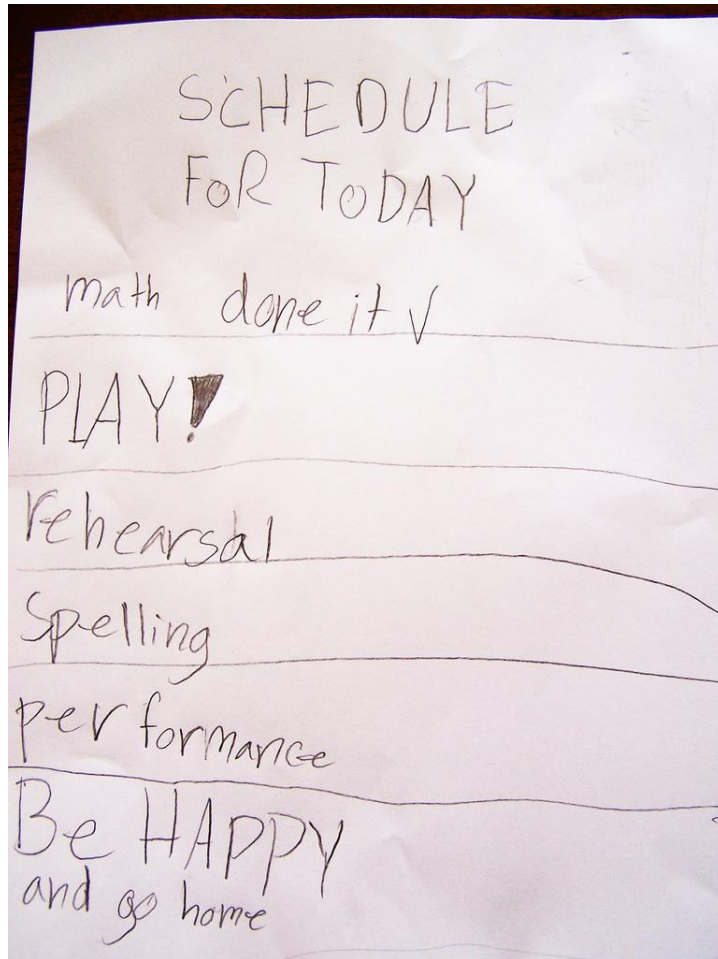
“Tell them what you will teach them, teach them, then tell them what you taught them.”



Time Management



Time management tips



- Know yourself (reality check on how you use your time)
- Use time management tools (Monthly calendar, Day-timer, To-Do Lists , Timers)
- Use software (Google Calendar, Manic Time, Concentrate, hPDA)
- Design specific tasks and prioritize
- Learn to say NO
- Be disciplined, but flexible
- Reward yourself when you are done



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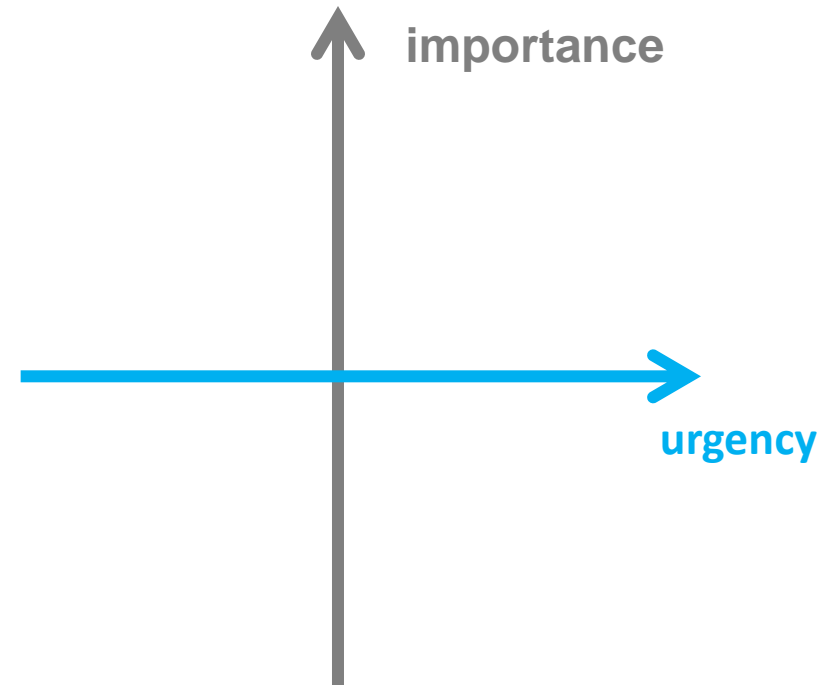
Design Specific Tasks

- Write down a TO-DO list with specific activities:
 - Be specific when listing your tasks, but do not include too many details
 - do not list routine tasks
- Assign a time period for the completion of the task
- Be flexible, allow for the unforeseen or underestimation of the length of a specific task
- Do not focus only on short term goals, work on some long term goals (monthly, yearly planning) and review those tasks regularly
- Prioritize your list of tasks



Prioritize tasks

- Importance/urgency axis:



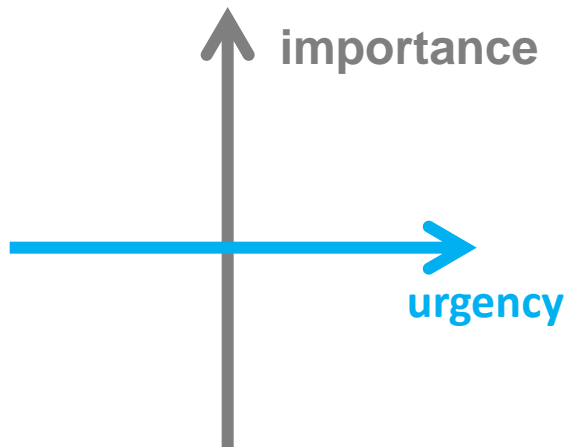
“What is important is seldom urgent and what is urgent is seldom important.” D.D. Eisenhower



A day in your graduate student life



1. Think of your busiest day this week
2. You will be given some index cards. Use them to do the following:
 - a) write down specific tasks for that day
 - b) Organize your tasks using one or both of the priority scheme we have talked about
 - c) Design a calendar for that day based on that priority scheme
3. Turn to the person next to you and discuss your schedule and the difficulties you had with designing that schedule



Time



10:00:11:00

11:00-12:00

.....

Activity



Tutorial session

Respond to work emails

...



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Teaching Assistants' Training Program

What do we do?

CUPE-Mandated First Contract Training

Year Long Workshop Series

Fundamental & Advanced Certificates in University Teaching



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<http://www.teaching.utoronto.ca/gsta/training/tatp/ATM>
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