



TOOLS NOT TOYS: **UNDERSTANDING AND** **EFFECTIVELY TEACHING** **TODAY'S STUDENTS**

Prof. Mike Eisenberg





"Technology is the answer, of course"



"Technology is the answer, of course"



"Now...what was the question?"

The Question

**How can we best help
our students to learn –
in order to be fulfilled
and successful in the
21st century?**

Education Plan 2010-2011

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Principles
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Educational
Support
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Enrolment
Management

❖ We embrace student learning as our core purpose; each of us and all that we do at Camosun contribute to this purpose.

Focused on student success

As one of the country's leading colleges, Camosun offers a wide range of innovative, community-responsive programming and services delivered by dedicated faculty and staff in a dynamic and engaging learning environment. We pride ourselves on contributing to an educational experience and providing learning supports that enable diverse learners to define and achieve their unique learning goals. Facilitating student learning and success is at the core of all we do. *While our varied roles may place us closer to, or further from, the teaching and learning experience, we are ALL responsible for and contribute to the learning process.*

We are the province's most comprehensive and one of its most innovative institutions, with a broad range of high quality programming and services that respond to community needs. Over 85% of our students come from within the region and reflect its diversity with a high level of aboriginal participation; we also serve significant numbers of international students. Our enrolment continues to grow, with programs and courses well received and highly-subscribed – 95% of graduates report they were either satisfied or very satisfied with their education. We have high student completion and transfer rates, and graduate employment rates are consistently among the best in the province.

Technology – is not *the* answer.

But...

- the world has changed
- our students have changed
- we must change.

21st Century Learning

- Calvin – “Am I getting the skills I need to effectively compete in a tough, global economy.”

Agenda

1. Setting the Scene

- The information society
- Students in 2010...and beyond

2. Implications & Practical Recommendations

- Learning technologies
- Information literacy skills

3. Questions & Discussion

Disclaimer

Disclaimer

For every realistic, complicated problem

**There will be a simple, understandable
inexpensive solution**

- H. L. Mencken

Disclaimer

**For every realistic, complicated problem
There will be a simple, understandable
inexpensive solution
that will be wrong.**

- H. L. Mencken



No, it's not.

1. It's really hard.

2. It's really important!

“Education...
It's not rocket
science.”



Setting the Scene

Has education changed?

- No.
- Not much.
- Not really.

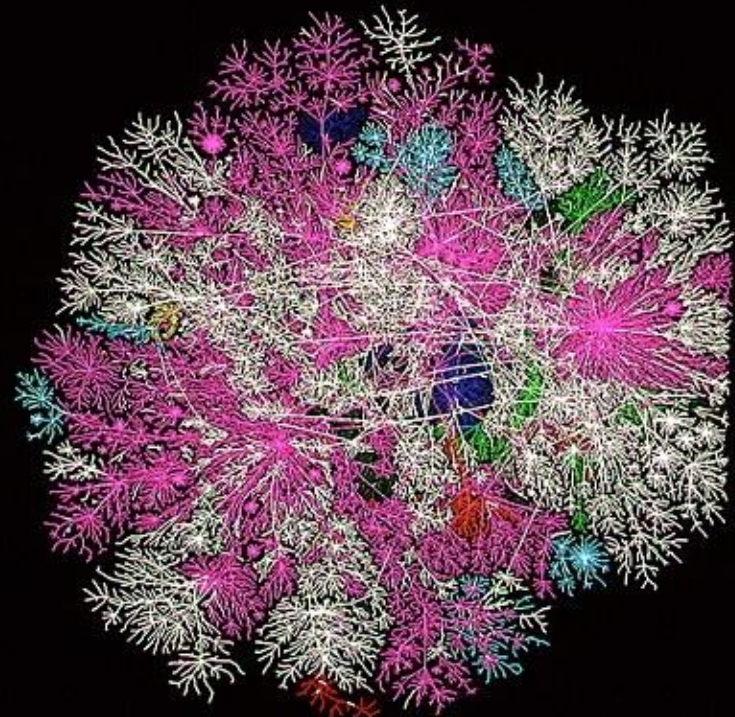


Has education changed?



Has the world changed?

- Yes!
- Much!
- Really!



SCIENCEphotOLIBRARY

global Internet traffic

http://internet-politics.andrewchadwick.com/media/T465098-Computer_graphic_of_global_internet_traffic-SPL.jpg

especially in relation to
information & technology

Computers today are one million times more powerful than those 20 years ago.



in 30 years...

- **1981 – the personal computer**
- **1985 – the Internet**
- **1995 – the Web**
- **1999 – Wireless**
- **1999 – Google**
- **2001 – iPod**
- **2005 – YouTube**
- **2006 – Twitter**
- **2010 – iPad**

in 15 years...

- 1981 – the personal computer
- 1985 – the Internet
- **1995 – the Web**
- 1999 – Wireless
- 1999 – Google
- 2001 – iPod
- 2005 – YouTube
- 2006 – Twitter
- 2010 – iPad

in 10 years...

- 1981 – the personal computer
- 1985 – the Internet
- 1995 – the Web
- 1999 – Wireless
- **1999 – Google**
- 2001 – iPod
- 2005 – YouTube
- 2006 – Twitter
- 2010 – iPad

**In 20 years computers will be
one million times more
powerful than today!**





And looking ahead?

We will live in the physical world

& in

a parallel, INFORMATION universe.

Students 2010

The Google™ Generation

The Google™ Generation

- Those born 20 years ago have never known a world without the World Wide Web.
 - 1989 – Tim Berners-Lee invents the Web
 - 1993 – CERN puts Web in the public domain
 - 1992 – Mosaic browser
 - 1995 – Netscape browser
 - 1999 – Google



<http://news.bbc.co.uk/2/hi/technology/7375703.stm>

From Digital Immigrants to Digital Natives

- Experiences
- Expectations
- Pace

The  Generation

Experiences

Xbox, Wii, Playstation

Facebook

Computer

Wifi



playlists

WWW

mobile

100s of channels

txt

Google

Expectations

On demand

Anywhere

Now!

24/7

Entertaining

Practical

Speed of light

Pace

Get in, get out

Multitasking

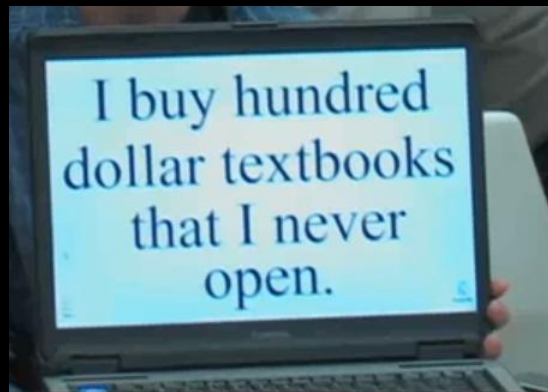
Procrastination

Multiprocessing

Last minute

A Vision of Students Today

- Michael Wesch, Kansas State University
- Cultural Anthropologist
- www.youtube.com/user/mwesch#p/u/7/dGCJ46vyR9o



Project Information Literacy

National, large-scale study
by the University of
Washington's iSchool



What is it like to be a student in the Digital Age?

Meet Christopher

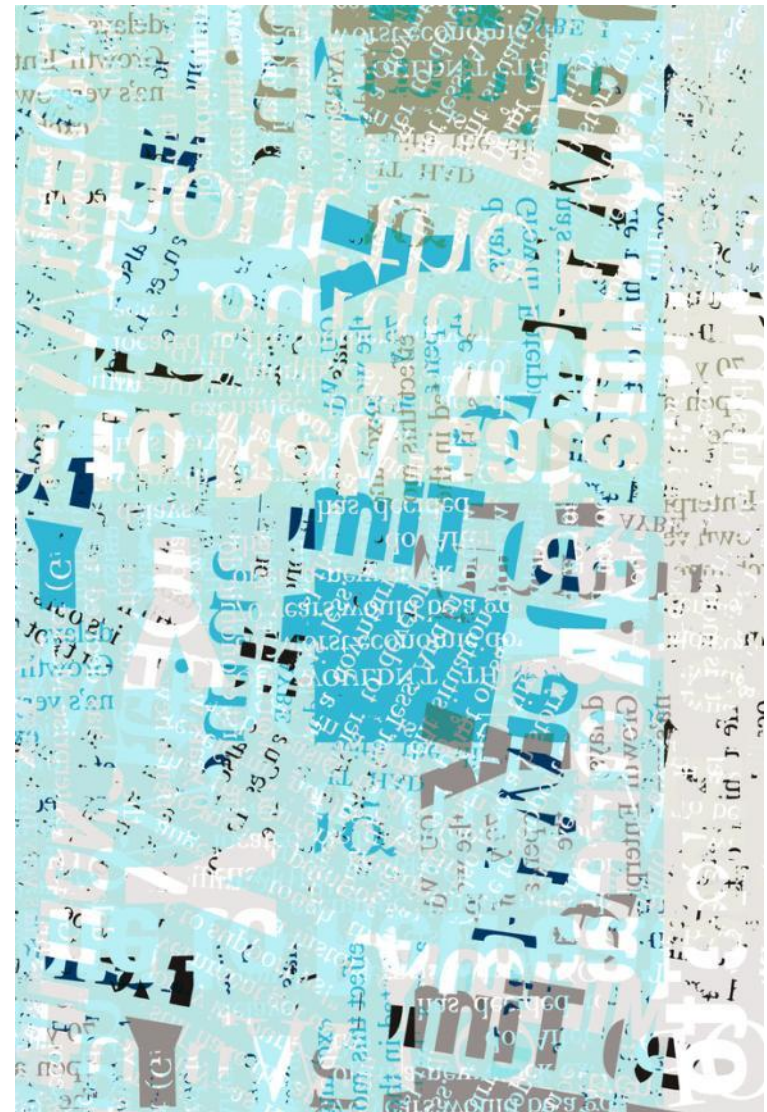
-
- ✓ Curious and engaged—in the beginning.
 - ✓ Looking for that “perfect source.”
 - ✓ Need a summary more than anything else.
 - ✓ Need something to get me started.
 - ✓ I can do this on my own—**self-taught**.



“Want it just in time, find it just in the right place.”

Christopher's Expectations

- ✓ It exists somewhere, just have to find it.
- ✓ On first page of results? Awesome.
- ✓ Up-to-date and current—absolutely essential.
- ✓ “Good stuff” = instantly findable, free, and full text.
- ✓ **Wikipedia?** Great.



“Leveraging my functional anxiety.”

- Harvard Student, 2008 Discussion Sessions

Wikipedia

- **Wikipedia** - www.youtube.com/user/ProjInfoLit#p/u/2/9nOe26xY1zM

Seven out of 10 college students interviewed went to Wikipedia first for course-related research.

Students ignored faculty's warnings about using Wikipedia all together

...and just did not cite Wikipedia as a source in their papers.

Findings that keep us up at night

- ✓ #1 source = Google: **96%**
- ✓ Student strategy = **efficiency** not **thoroughness**.
- ✓ Pedagogical goals of deep learning appear at risk; students' research goal = narrow = **passing classes**.
- ✓ Procrastination **>80% of students >80% of the time**



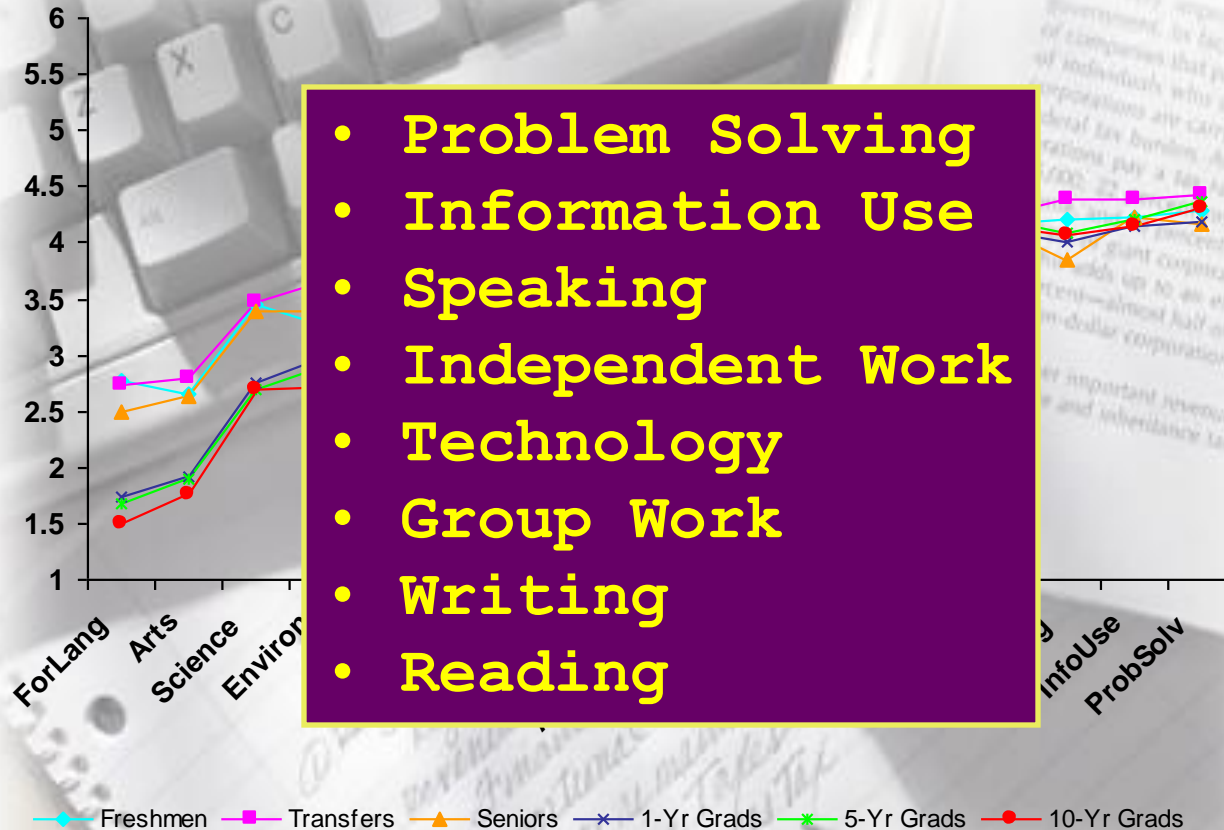
Time

- Procrastination –
- <http://www.youtube.com/user/ProjInfoLit#p/u/3/OBMVUqnPank>





Survey of Valued Skills



Data from UW Office of Educational Assessment:
http://www.washington.edu/oea/services/research/assessment/alumni_1.html

Students 2010 – Summary

- Range from digital immigrants to digital natives.
- Immersed technologically: Facebook, txt messaging, mobile devices.
- Overloaded and busy.
- Rely on Google and Wikipedia.
- Immediate goals-oriented.
- Value problem-solving, critical thinking.
- Say they learn critical skills mostly on their own.

Implications & Practical Recommendations

Implications – Practical Recommendations

1. Broaden our courses and classrooms – with technology.
2. Raise the critical thinking bar – by integrating information & technology skills into course expectations, assignments, instruction, and learning.

on the same
page...

Camosun College

Education Plan 2010-2011

We value being a diverse, culturally-sensitive, and inclusive community, creating a welcoming environment, and supporting the needs of diverse learners with appropriate teaching strategies, curriculum, and services.

The educational principles below were drafted from the... They have guided... and from our existing mandate, mission and values statements. They have guided... specifics of this education plan.

Learning &
Educational
Support

Enrolment
Management

economic downturn, the designation of new... that will have profound consequences for us. There are opportunities for Camosun to better... new or expanded programming to better... benefit from...

We strive for excellence in teaching and learning by engaging students, designing relevant curriculum, fostering conducive learning environments and providing high quality service to students and community members.

- ❖ We embrace our... environment, and will continue to offer a... mandate and mission.
- ❖ We value being a diverse, culturally-sensitive, and inclusive community, creating a welcoming environment, and supporting the needs of diverse learners with appropriate teaching strategies, curriculum, and services.

ence
Strategy

degrees and post-degree... educational direction and goals for the... exciting new opportunities. It will... ver the planning period.

We emphasize “education that works”, including the application of knowledge in the learning process; leadership and innovation in programming and services; engagement in applied research; dynamic partnering with post-secondary institutions and other external organizations to bring their strengths and resources to student learning; and leadership and engagement with our regional community.

- ❖ We commit... that benefit our students and...

ing the best in the province.

Page 1

Plans

learning and Educational... meetings is an introductory section, broad...

March 2, 2010

Page 2

Page 3

March 2, 2010

EDUCATION PLAN

Implications – Practical Recommendations

1. Broaden our courses and classrooms – with technology.
2. Raise the critical thinking bar – by integrating information & technology skills into course expectations, assignments, instruction, and learning.

1. Broaden our courses and classes with technology

- Tools Not Toys
 - Course website
 - Personal publishing
 - Social networks
 - Collaborative spaces
 - Mobile devices
 - Backchannel

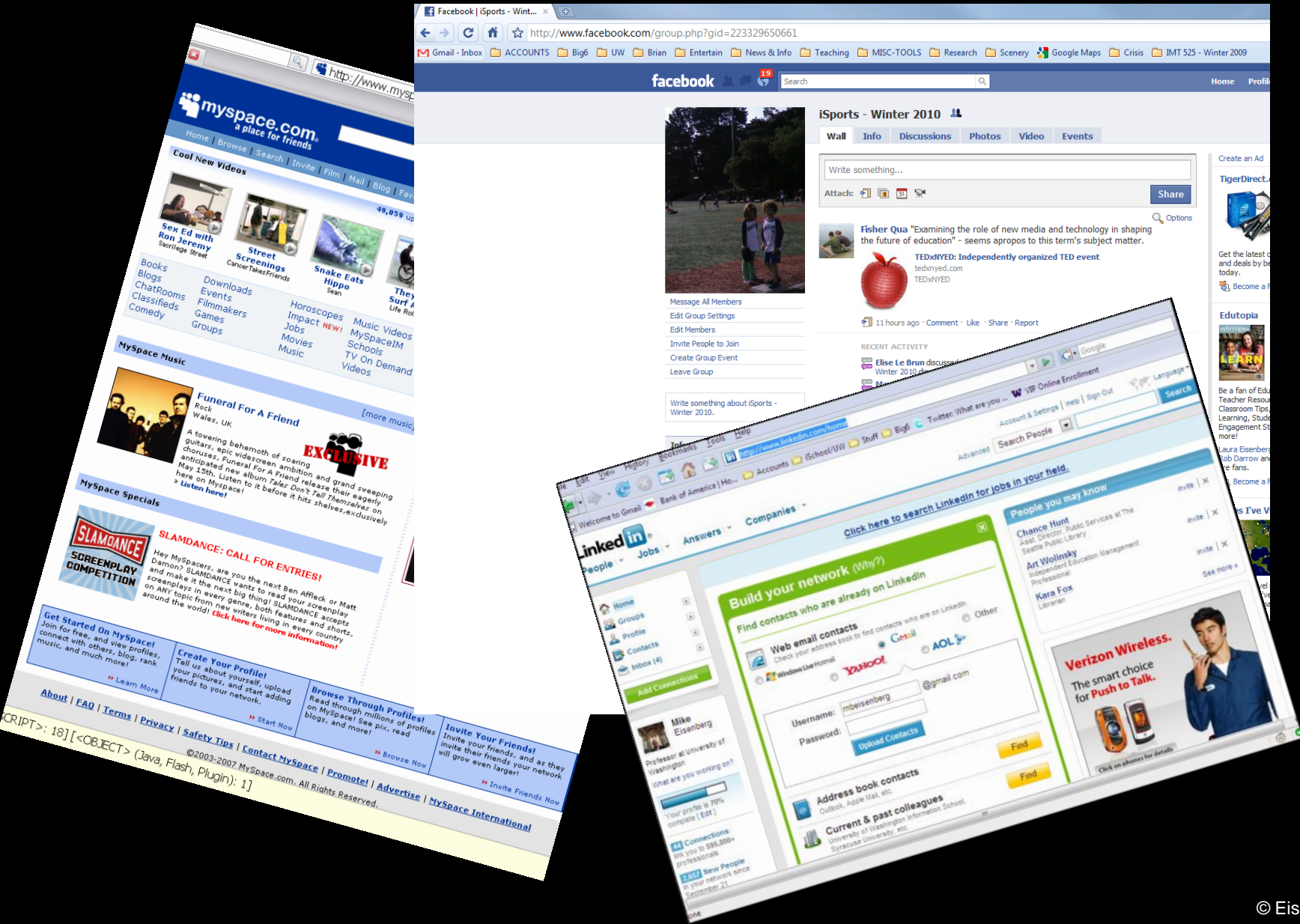
Tech for Learning

Purpose	Tech	Functions	Example Tech Tools
Course website	Web Design	Website editing, publishing	Dreamweaver, MS Expression
Learning resources	Web Content	Multimedia content resources, hosting	eReserves, Flickr, YouTube, UStream, Twitter
Production-presentation	Personal Publishing	Multimedia production/hosting	Flickr, YouTube, UStream, Twitter
Course management, interaction	Social Networking	Sharing, communication, participation	Facebook, Myspace, LinkedIn
Group Work	Web/Cloud-based Collaborative Spaces	Group collaboration, sharing, editing	Googledocs, PBWorks, Sharepoint
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Live class engagement	Backchannel	Participation, feedback, communication	Twitter, Chat

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Social Networks





According to Facebook's [internal](#) statistics:

- The site has more than 250m active users globally
- More than 120m users log on to Facebook at least once each day and more than 30 million users update their statuses at least once each day. Combined, more than 5bn minutes are spent on the site on a daily basis.
- The average user has around 120 friends on the site.
- Every single month, more than a billion photos are uploaded to the site.
- More than 50 translations are available on the site, with more than 40 in development.
- Mobile is a big issue, with more than 30m active users accessing the site through mobile devices. It's well documented that users who access Facebook through mobile devices are almost 50% more active than those who don't.

<http://www.facebook.com/press/info.php?statistics>

Class Discussions/Postings – Facebook

The screenshot shows a Facebook group page for "INFO 200 - Spring 2010". The page includes a sidebar with group information, a main feed of posts, and a right-hand column with a list of discussion topics. An overlay table at the bottom right summarizes these topics.

Group Information:

- Category:** Student Groups - Classes & Departments
- Description:** UW School Intellectual Foundations of Informatics class
- Privacy Type:** Closed: Limited public content. Members can see all content.
- Admins:** Sheryl Day, Sylvan Obangbo, Natasha Karlava, Mike Eisenberg (creator)
- Members:** 6 of 77 members
- Photos:** 2 photos

Recent Activity:

- Kimberley Dietemann** older wired article about 23andme, a company which does DNA analysis, they're doing a one-day special today where you can have it done for \$99.
http://www.wired.com/medtech/genetics/magazine/15-12/ff_genomics?currentPage=1
23AndHe Will Decode Your DNA for \$1,000. Welcome to the Age of Genomics
 Reading your own genomic profile -- learning your predispositions for various diseases, odd traits and a talent or two -- is something like going to a phantasmagorical family reunion: grandparents who died before you were born, your parents, future versions of yourself, your children. A new service,...
- Mike Eisenberg** Long Tail
 Can you think about new areas to explore/exploit from a long tail perspective?

Discussion Topics Table:

Question	14 posts. Created on April 2, 2010 at 8:20am	Latest post by Mike Eisenberg Posted 21 hours ago
Organization of Information	8 posts. Created on April 11, 2010 at 11:27am	Latest post by Kimberley Dietemann Posted on April 23, 2010 at 12:57pm
Brown and Duguid - Limits to Information	15 posts. Created on April 6, 2010 at 9:20am	Latest post by Joe 'dongwon' Ahn Posted on April 21, 2010 at 9:19am
Sharing of Information	28 posts. Created on April 3, 2010 at 12:45pm	Latest post by Nancy Do Posted on April 18, 2010 at 3:49pm
Page Theme/Keyword Density	1 post. Created on April 7, 2010 at 3:17pm	Latest post by Sonith Kun Posted on April 14, 2010 at 10:30pm

Class Backchannel - -

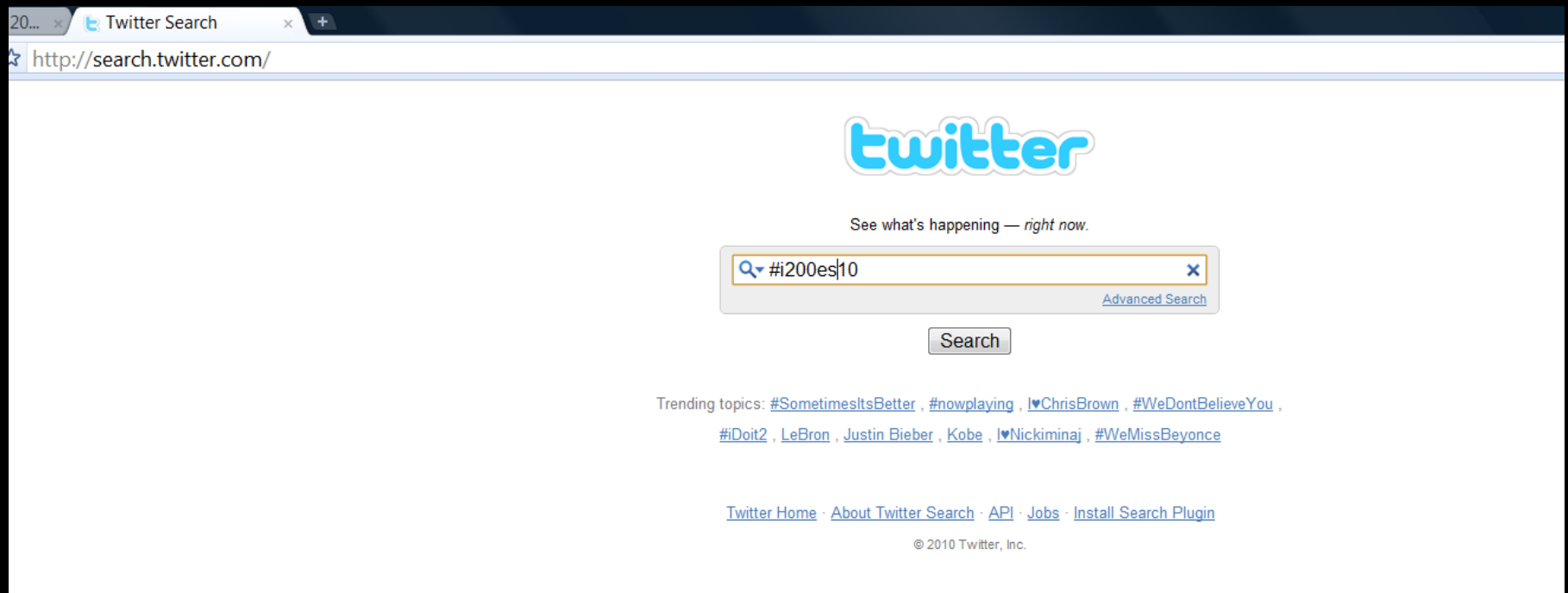


Class Backchannel - -



- Custom hashtag for all Tweets: **#i200es10**
- View via - search.twitter.com
- <http://search.twitter.com/search?q=%23i200es10>
- Or use a Twitter client to view: TweetDeck:
<http://www.tweetdeck.com/desktop/>





: #i200es10

- To view: search.twitter.com



#i200es10



Search

[Advanced Search](#)

Results for **#i200es10**

0.32 seconds

[Newer](#) « [Page 2](#) » [Older](#)



[chris480](#): [#i200es10](#) [@apple](#) the "i" in iPod is for irony.

4 days ago from web · [Reply](#) · [View Tweet](#)



[brettmcgin](#): [#i200es10](#) [@Don3cia34](#) hp slate is where its at

4 days ago from *TweetDeck* · [Reply](#) · [View Tweet](#)



[Don3cia34](#): [#i200es10](#) i want an ipad

4 days ago from web · [Reply](#) · [View Tweet](#)



[Don3cia34](#): [#i200es10](#) There isn't an answer for everything but there is an question to every answer

4 days ago from web · [Reply](#) · [View Tweet](#)



[neryam](#): [#i200es10](#) yeah pssshh we don't need copy paste or multitasking

4 days ago from *Twitterrific* · [Reply](#) · [View Tweet](#)



[WillBeebe](#): [#i200es10](#) In basketball more points is always better...

4 days ago from web · [Reply](#) · [View Tweet](#)



[Don3cia34](#): [#i200es10](#): There isn't an answer for everything but there is an question to every answer

4 days ago from web · [Reply](#) · [View Tweet](#)



[harrisonwei](#): [#i200es10](#) [@chris480](#) that's funny.

4 days ago from web · [Reply](#) · [View Tweet](#)



[brettmcgin](#): [#i200es10](#) twitter break BUHH NUHHH

4 days ago from *TweetDeck* · [Reply](#) · [View Tweet](#)



[chris480](#): [#i200es10](#) Apple is always right. It knows better than the user.

4 days ago from web · [Reply](#) · [View Tweet](#)

[Feed for this query](#)

[Tweet these results](#)

Show tweets **written in**:

Any Language

[Translate](#) to English

Trending topics:

- [#SometimesItsBetter](#)
- [#nowplaying](#)
- [♥ChrisBrown](#)
- [#WeDontBelieveYou](#)
- [♥Nickiminaj](#)
- [Justin Bieber](#)
- [#DiorFollowMeBecause](#)
- [LeBron](#)
- [#iDoit2](#)
- [#WeMissBeyonce](#)

Nifty queries:

- [cool filter:links](#)
- ["is down"](#)
- [movie :\)](#)
- ["happy hour" near:SF](#)
- [#haiku](#)
- ["listening to"](#)
- [love OR hate](#)
- [flight :/](#)

Backchannel - Advantages

- Offers students an alternative means to participate.
- Focuses attention on class rather than their own email or personal exchanges.
- Helps faculty to solicit student questions and comments.

Tech for Learning

Purpose	Tech	Functions	Sample Tools
Course website	Web Design	Website editing, publishing	Dreamweaver, MS Expression
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2. Raise the critical thinking bar

- By integrating information & technology skills into course expectations, assignments, instruction, and learning.

Information & Technology Skills

Association of College and Research Libraries

Information Literacy Competency Standards for Higher Education

2001

www.ala.org/acrl/ilintro.html

ACRL: Information Literacy Competency Standards for Higher Education

- 1. The information literate student determines the nature and extent of the information needed.**
- 2. The information literate student accesses needed information effectively and efficiently.**

<http://www.ala.org/acrl/ilintro.html>

ACRL: Information Literacy Competency Standards for Higher Education

- 3. The information literate student evaluates information and its sources critically and incorporates selected information into his or her knowledge base and value system.**
- 4. The information literate student, individually or as a member of a group, uses information effectively to accomplish a specific purpose.**

<http://www.ala.org/acrl/ilintro.html>

ACRL: Information Literacy Competency Standards for Higher Education

- 5. The information literate student understands many of the economic, legal, and social issues surrounding the use of information and accesses and uses information ethically and legally.**

<http://www.ala.org/acrl/ilintro.html>

Info Literacy Skills in Courses

<i>ACRL Standard</i>	<i>Course Integration</i>
1. determines the nature and extent of the information needed.	Rethink course resources: move from reading and textbooks to info use of a wide range of print, online, and multimedia resources.
2. accesses needed information effectively and efficiently.	Use eReserves extensively. Stress “articles” and Article Search Engines (e.g., <i>Academic Search Complete</i>) as valued in addition to websites and Google.
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3b. ...incorporates selected information into his or her knowledge base and value system.	Teach independently then combine: -- Selecting relevant information from a source. -- Presenting information from multiple sources. Emphasize “citations in context.” Create interim “milestones” in major assignments. Encourage multi-modal presentations.
4. individually or as a member of a group, uses information effectively to accomplish a specific purpose.	
5. understands many of the economic, legal, and social issues surrounding the use of information and accesses and uses information ethically and legally.	Fight plagiarism by creating a “culture of citing.”
	Include opportunities for student self-evaluation of product and process.

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[Go Back](#) [Logout](#)

Lookup Items on Reserve

Search for

Lookup Items on Reserve by Course Number

Lookup Items on Reserve by Course Name

desk:

[Go Back](#) [Logout](#)




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Camosun College Li... x

← → ↻ 🏠 ☆ http://webcat.camosun.bc.ca/discovery/magjourn2.html

Camosun Library




[Library Home](#) -- [Library catalogue](#)

Article Indexes, Databases, eResources

The Library subscribes to many indexes, databases, and ebook collections. These online resources will help you find information on a wide range of topics. Many of these resources contain full-text articles which you may download or email to your account.

- [Databases by subject](#) - use our databases to find articles in encyclopedias, magazines, academic journals, or newspapers.
- [Databases by title](#) - an alphabetic list of our indexes, databases, eResources
- [Camosun journals A-Z](#) - use this if you are looking for a specific journal title. This will tell you whether we have it in electronic or print format.
- [RefWorks](#) - use RefWorks to save your citations and create bibliographies.

Contact: Library@camosun.bc.ca
Last update: April 26, 2010



[Library Home](#) | [Library Catalogue](#)

Databases by Subject

Anthropology	English language development	Mental health
Art	Geography	Nursing
Business & accounting	General	Political science
Canadian topics	Health (general)	Psychology
Criminology	History	Science
Dental	Indigenous studies	Sociology
Education	Literature	Sport & exercise
		Trades & technology


Quick Picks

- [Academic Search Complete](#)
- [Business Source Complete](#)
- [CBCA](#)
- [Canadian Newsstand](#)
- [CINAHL](#)
- [JSTOR](#)
- [Encyclopedias & dictionaries](#)
- [RefWorks](#)

Databases by title
Camosun Journals A-Z
[Databases troubleshooting & service interruptions](#)

Ebsco goes mobile!

EBSCO has formatted its search interface for internet enabled mobile devices. Try it on your iPhone, iPod Touch, Palm 750, or Blackberry.



Databases include: Academic Search Complete, Business Source Complete, CINAHL, SPORTDiscus, etc.

[Camosun College home](#) | [Library home](#) | [Contact Us](#) | Last update: April 26, 2010

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1. determines the nature and extent of the information needed.	Rethink course resources: move from reading and textbooks to info use of a wide range of print, online, and multimedia resources.
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3a. evaluates information and its sources critically...	Stress “articles” and Article Search Engines (e.g., <i>Academic Search Complete</i>) as valued in addition to websites and Google. Require “annotated” bibliographies that note why a source was selected and used. Consider evaluating and editing Wikipedia entries as assignments.
3b. ...incorporates selected information into his or her knowledge base and value system.	T each independently then combine: -- Selecting relevant information from a source. -- Presenting information from multiple sources. Emphasize “citations in context.” Create interim “milestones” in major assignments. Encourage multi-modal presentations.
4. individually or as a member of a group, uses information effectively to accomplish a specific purpose.	
5. understands many of the economic, legal, and social issues surrounding the use of information and accesses and uses information ethically and legally.	Fight plagiarism by creating a “culture of citing.”
	Include opportunities for student self-evaluation of product and process.

Plagiarism

- Address plagiarism in terms of credibility, authority, trust, intellectual property.
- Create a “culture of citing.”

Fighting Plagiarism: Creating a Culture of Citing

- Model citing in teaching and presenting.
- Show “bad” examples – exaggerate plagiarism.
- Have students cite sources all the time.
- Expect citing in class discussions as well.
- Do not accept work without citing.
- Focus on citations in context more than bibliographies.
- Require “annotated” bibliographies – with annotations of “why” students selected a particular source as well as their “credibility” analysis of the source.

Fighting Plagiarism

Ask good questions.

- ✓ Give assignments that are simply “descriptive” are easily copied.
- ✓ Give assignments that ask students to make judgments or defend a position require thinking and are not easily copied.

DESCRIPTIVE	INFERENTIAL
Do a report on a world region.	A business is considering moving to another region. Based on research about this region, decide whether you think it's a good idea.
Write a paper on humpback whales.	Write a paper on whether humpback whales are still endangered and should or should not be protected.

In Conclusion

Change

- **According to Calvin....**
- **"I thrive on making other people change."**

Change

1. Broaden our courses and classrooms – with technology.
2. Raise the critical thinking bar – by integrating information & technology skills into course expectations, assignments, instruction, and learning.

On Your Way!

11:00 - Noon	myCamosun	Team Work that Works! An Introduction to TBL	Tablets in the Classroom	Live at Camosun, it's RefWorks!
Noon	Lunch (included) Cafeteria, Fisher Building			
1:00 - 2:00	Access Your Creative ARtery	Can Wikis Aid Collaborative Learning in the Classroom?	Incorporating Multimedia Components for DE	Flexible Learning for Professional Cook Training
2:00-2:15	Break			
2:15 - 3:15	Elluminating Camosun	Indigenizing the Classroom	Peer Coaching - Give yourself a Gift	One Size Does Not Fit All - Accommodating Learning Styles for Online Environment/Classroom

Questions?
Comments?

Thanks
for
listening!



Discussion?