# Student engagement in blended learning: A three year study

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#### My focus today...



1. What is blended learning?

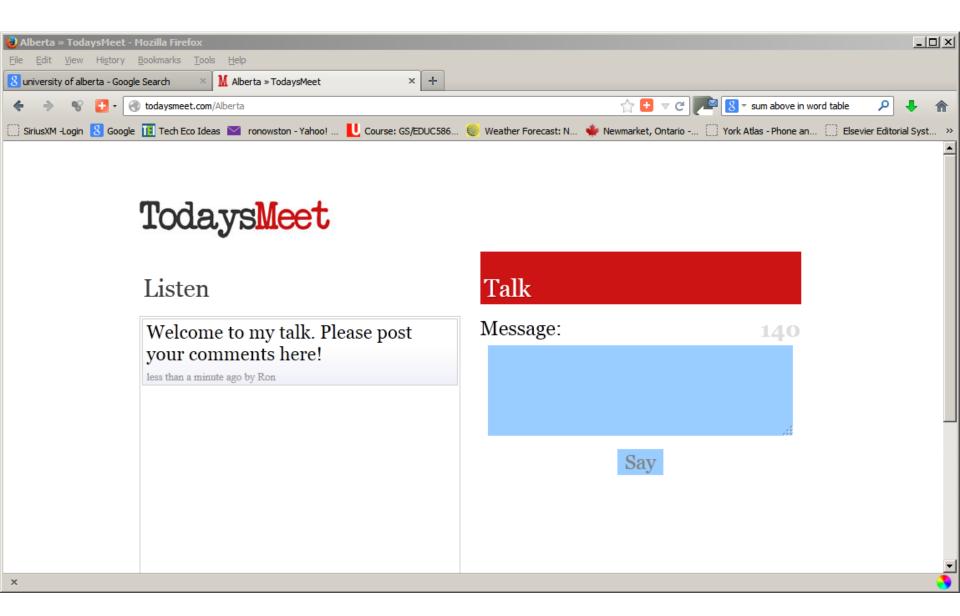


2. Why should it interest you?



3. What are findings of my study?

# http://todaysmeet.com/Riyadh



## 1. So what is blended learning?



SIRI help – what is blended learning?

Answer: ...a formal education program in which a student learns at least in part through online delivery and instruction...

### **Basic definition...**

	Proportion of Content Delivered Online	Type of Course	Typical Description
	o%	Traditional	Course with no online technology used — content is delivered in writing or orally.
	1 to 29%	Web Facilitated	Course which uses web-based technology to facilitate what is essentially a face-to-face course. Uses a course management system (CMS) or web pages to post the syllabus and assignments, for example.
_	30 to 79%	Blended/Hybrid	Course that blends online and face-to-face delivery. Substantial proportion of the content is delivered online, typically uses online discussions, and typically has some face-to-face meetings.
	80+%	Online	A course where most or all of the content is delivered online. Typically have no face-to-face meetings.

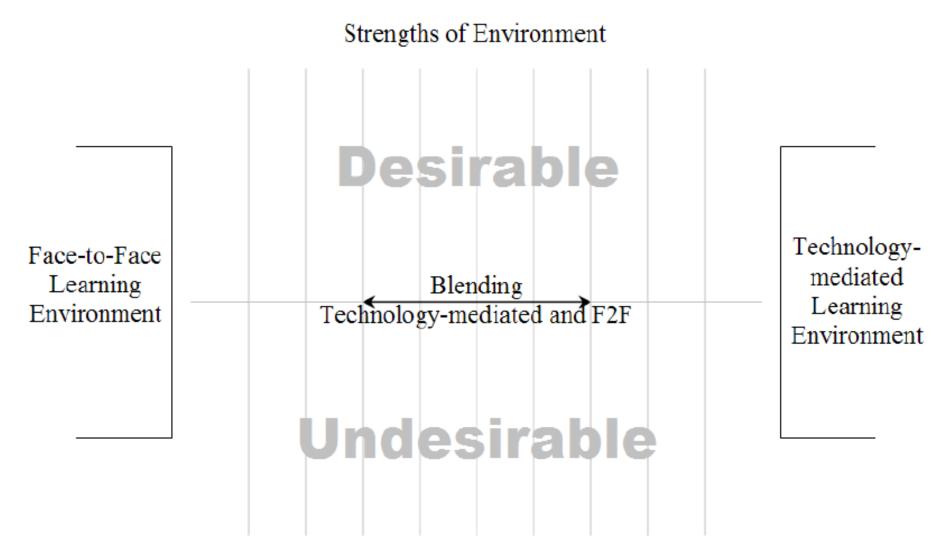
**Source: Sloan-C report Blending-In** 

#### **Another definition...**



Blended learning is an approach to course design that brings together the best of both face-to-face and online learning.

# Takes best advantage of both worlds



Weaknesses of Environment

Source: Graham, 2006

# **Designing for Blended Learning**

#### Face-to-face

- spontaneous
- ephemeral
- peer influence
- passion
- subjective

#### **Online**

- reflective
- permanent
- < intimidating</p>
- reason
- > rigor





#### 2. Why should blended learning interest you?



**Student perspective** 



**Faculty perspective** 



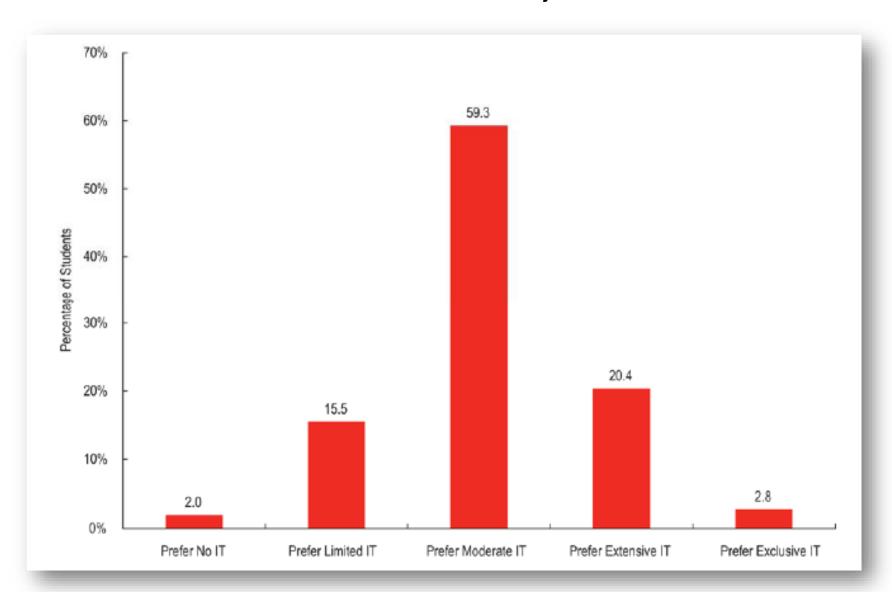
**Institutional perspective** 

# Student Perspective: Blended learning clearly improves <u>accessibility</u>

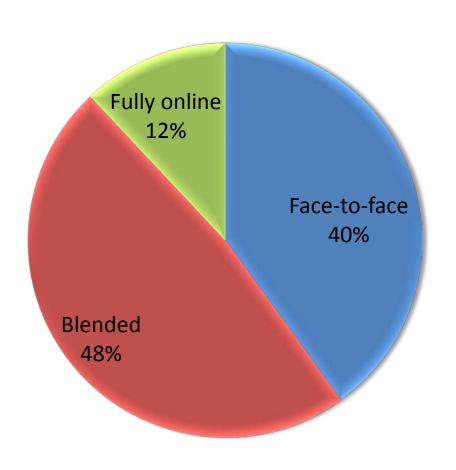
Allows for flexibility in students' study, work, and life balance



## Students don't want "all tech, all the time"



# Preference for blended course format at York University



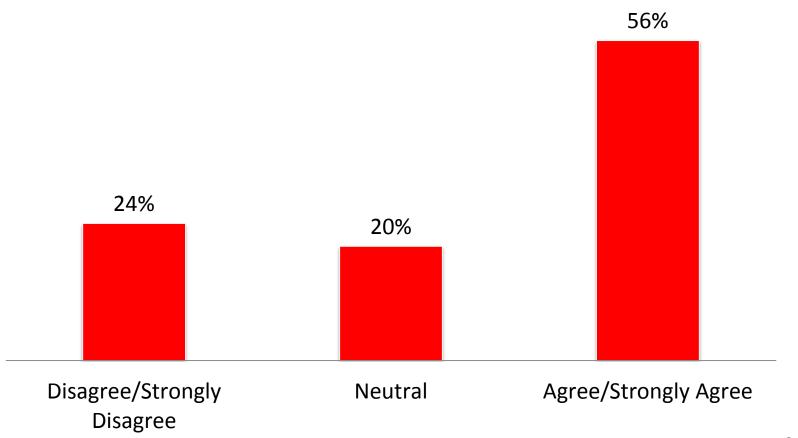
N = 2121 34 courses

# Students indicated strong satisfaction in my survey of Canadian 8 universities (n=2,714)

"Overall, I am quite satisfied with this [blended] course" – average 70% (range 65-100%)

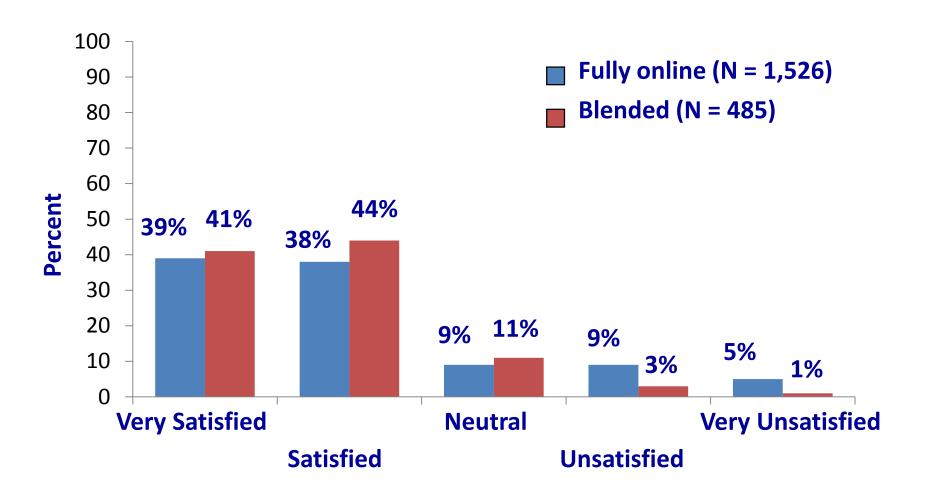


# I would take another course in the future that has both online and face-to-face components [at York U]



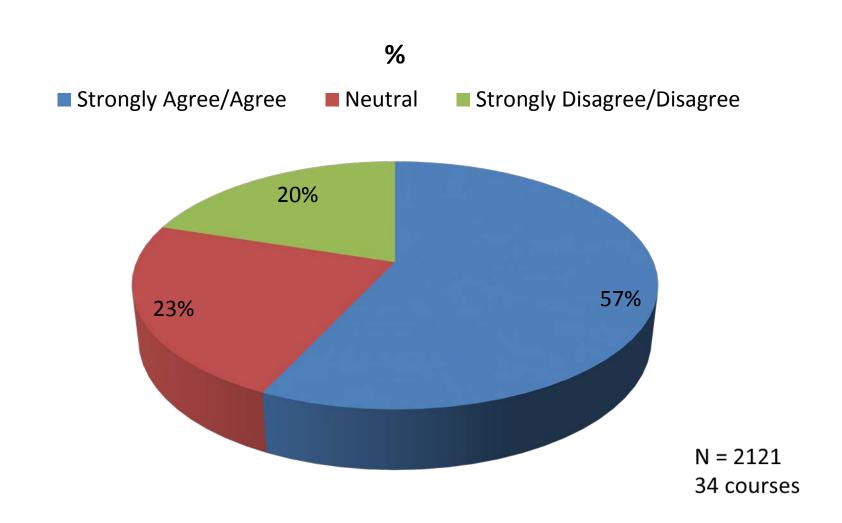
N = 2121 34 courses

# Students more satisfied with blended than fully online courses



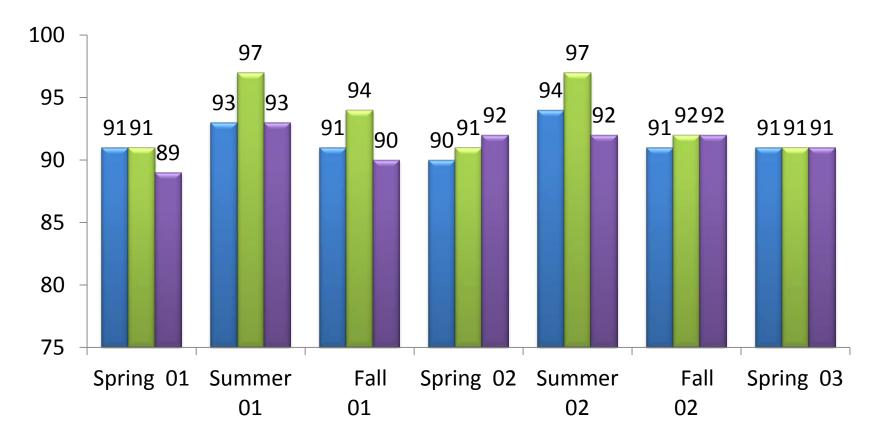
Dziuban & Moskal, Univ. of Central Florida (n.d.)

# Taking this course increased my interest in the material [York U]



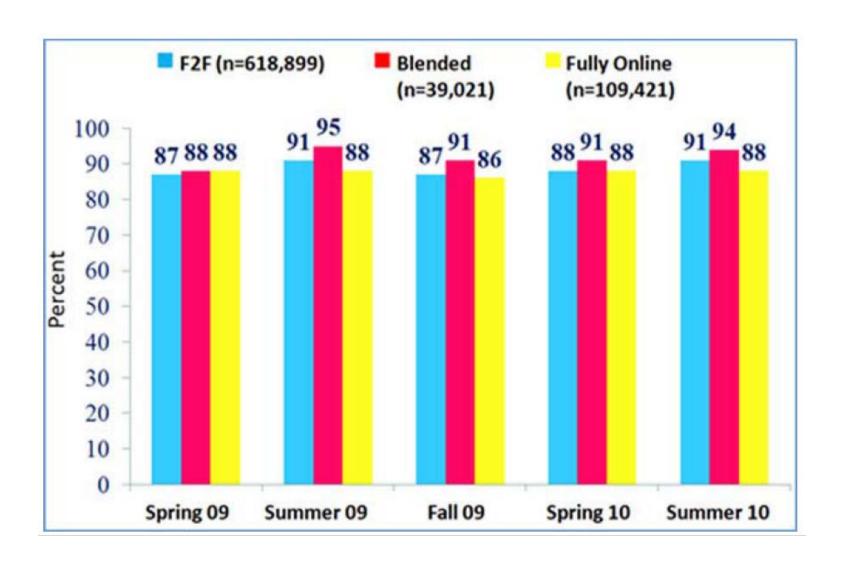
#### **BUT, what about improving learning?**

Blue = F2F Green = Blended Purple = Online



% getting grades above C (N= 139,444 students)
Dziuban & Moskal, Univ. of Central Florida (n.d.)

#### Same pattern continues at UCF...



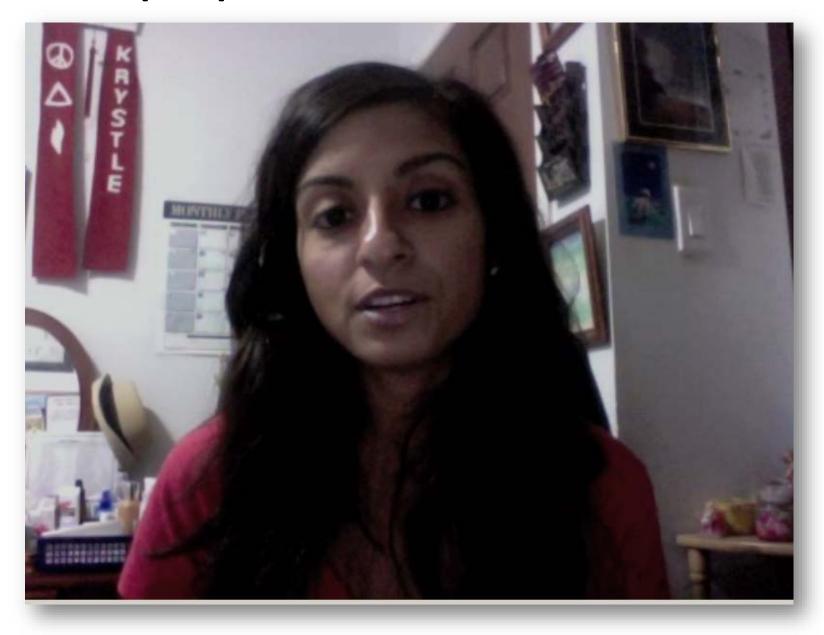
#### Further evidence...



"Students who took all or part of their class online performed better, on average, than those taking the same course through traditional face-to-face instruction."

(51 studies, effect size = +0.24)

# A student's perspective...



### A student's perspective...



- Instant feedback
- Shared understanding of content
- Flexible
- Online flowed into classroom
- Any time, anywhere

### **Challenges for students**



- Transition from a passive to an active learning approach
- Study and time management skills, esp. low achievers
- Expecting that fewer classes equates to less work
- Accepting responsibility for completing individual & team activities

### Faculty perspective on blended...

**High satisfaction** 

**Get to know students better** 



Adds flexibility to your schedule

Reinvigorates teaching

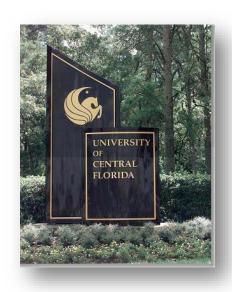
### **Challenges for faculty**



- Workload/tenure issues
- Resistance to change-why bother?
- Time consuming initially
- Managing with scarce support for course redesign
- Learning to use new technologies

# Institutional perspective...cost avoidance

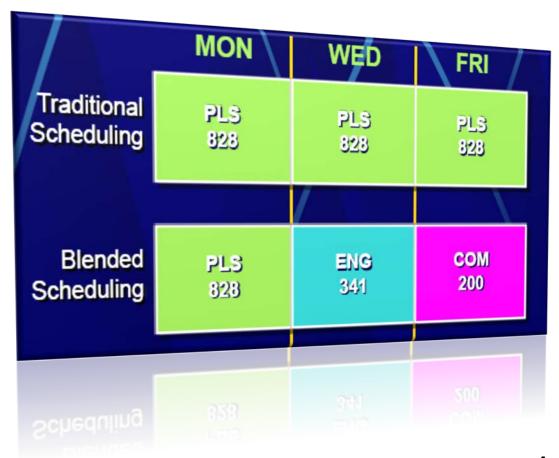
Online and blended courses allowed UCF to avoid more than \$7 million in construction costs \$277,000 in annual operating costs (Hartman, 2007)





Our calculations show that 100 new courses will yield about \$12 million in income and cost \$1.5 million → ROI 8:1 (http://irlt.yorku.ca)

# Improved classroom utilization



# Challenges for the institution



- Is blended learning consistent with vision?
- Is there an action plan?
- Incentives in place?
- Academic recognition in place?
- Is it sustainable?

# 3. What are findings of my 3 year study?

- 5 large (~300/students) first year Fine Arts courses surveyed, N=2094
- Asked for perceptions compared to other courses they've taken
- Scale 1 to 5 (SD, D, N, A, SA)



# Findings for student involvement: as compared to other courses taken

Survey Questions	Year I	Year II	Year III
Q4 (online and F2F components enhanced each other)	2.93	3.00	3.12
Q7 (clearly communicated expectations)	n/a	3.39	3.69
Q11 (more engaged)	2.55	2.56	2.81
Q12 (likely to ask questions more)	2.60	2.56	2.68



# Findings for student interactions in course

Survey Questions	Year I	Year II	Year III
Q13 (increased <u>amount</u> of interaction among <u>students</u> )	2.34	2.57	2.53
Q14 (better quality of interaction among students)	2.33	2.59	2.64
Q16 (increased <u>amount</u> of interaction with <u>instructor</u> )	2.37	2.46	2.49
Q17 (better <u>quality</u> of interaction with <u>instructor</u> )	2.56	2.53	2.63



# Findings for technology use

Survey Questions	Year I	Year II	Year III
Q5 (easy to find course information on Moodle)	3.46	3.68	3.91
Q6 (Moodle resources were useful)	3.32	3.62	3.75
Q8 (technology for online activities was reliable)	n/a	3.35	3.64
Q23 (technology interfered with learning)	2.18	2.60	2.54



# Findings on student learning

Survey Questions	Year I	Year II	Year III
Q2 (increased interest in subject)	n/a	3.16	3.28
Q20 (improved understanding of concepts)	2.99	3.21	3.35
Q21 (developed better communication skills)	n/a	2.60	2.76
Q22 (more opportunities to reflect)	n/a	2.89	3.11



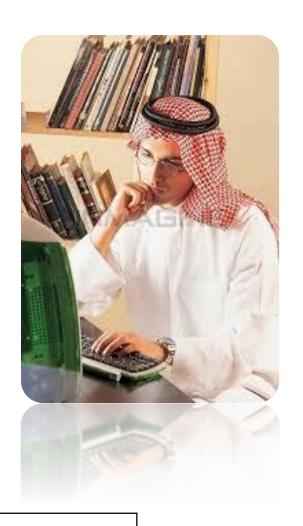
#### In summary...

Blended learning can lead to greater student learning and engagement

**BUT** 

The instructor role is critical

Are you willing to try blended learning?



**Questions/comments?** 

### Follow up ...

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