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**Teaching for a digital age:
why blended learning is so important**

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Overview

1. Key forces of change
2. Current trends
3. Implications for teaching and learning
4. Conclusions

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1. KEY FORCES OF CHANGE
(affecting university teaching)



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1. Key forces of change

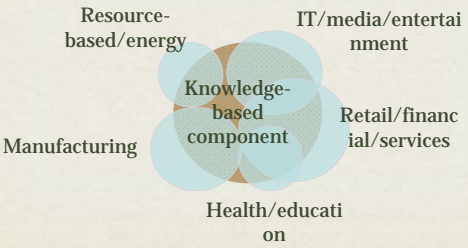
- Changing workforce; new work and new knowledge/skills
- Changing students; more diversity
- Need for more individualized learning (personalization)
- New modes of delivery: blended, online, OERs, MOOCs
- New technologies: video, social media



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1. Key forces of change:
a. Demands of a digital economy


Where will the jobs be?



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1. Key forces of change
b. the need to develop 21st century skills


- communication skills
- independent learning
- ethics/responsibility
- teamwork and flexibility
- thinking skills (critical thinking, problem-solving, creativity)
- IT skills embedded in subject area
- knowledge management



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1. Key forces of change: c. changing students

- More diversity: prior knowledge, cultures, motivation, language ability, more employed/part-time
- Digital natives: comfort with technology
- Need for recognized qualifications (degrees, certificates, badges, competencies) that meet diverse learning needs
- Increasing importance of lifelong learning



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1. Key forces of change: d. Need for more personal learning

- Need to provide teaching and learning in ways that allow for the diversity of students
- = different approaches/routes for different students?
- But how?
- Learning design + technology



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1. Key forces of change e. New modes of delivery



← blended → **fully online**

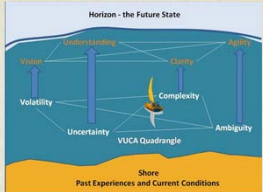
face-to-face **classroom** **flipped** **hybrid** **(distance)**
aids

← no technology (mode of delivery) all technology →

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Questions

- Do you feel that world is changing around you? If so, how is it affecting your teaching?
- Does a greater focus on skills and learning outcomes undermine or reinforce the academic endeavour?
- Is the diversity of students a challenge for your teaching?



The future:

- Volatile
- Uncertain
- Complex
- Ambiguous

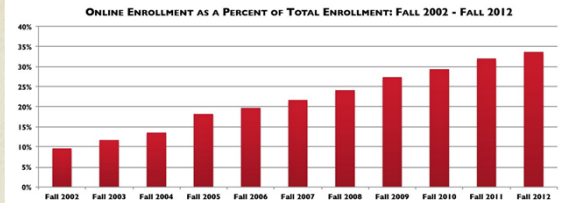
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2. Trends



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2. Trends: a. for-credit online learning: USA




Year	Percentage
Fall 2002	10%
Fall 2003	12%
Fall 2004	14%
Fall 2005	18%
Fall 2006	20%
Fall 2007	22%
Fall 2008	24%
Fall 2009	26%
Fall 2010	28%
Fall 2011	30%
Fall 2012	32%

Source: Seaman and Allen, 2014

Online enrollments growing 5 x faster than campus enrolments

2. Trends: a. for-credit online learning: Canada

First national survey, 2017
All 203 public universities and colleges in Canada
Response rate:
• 69% of institutions covering
• 78% of all student enrolments
Voluntary

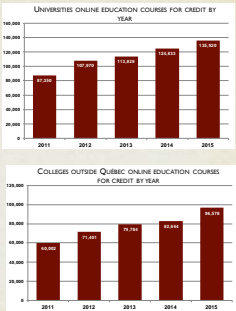


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2. Trends: a. for-credit online learning: Canada

- 98% of Canadian universities and 94% of colleges outside Québec offer fully online courses
- Growth between 2011-2015:
 - Universities: 10% per year;
 - Colleges: 15% per year
- Estimate of all credit course enrolments fully online in 2015:
 - Universities: 16%
 - Colleges: 12%

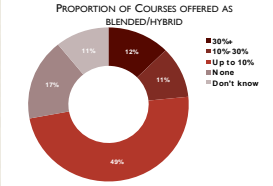
Course completion rates (80-85%)



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2. Trends b. hybrid learning


- Definition: some reduction in face-to-face teaching
- Many (75%) institutions in Canada offer some hybrid
- BUT few courses (60% with less than 10% hybrid)
- Hybrid = innovative teaching; better use of limited space



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2. Trends: b. hybrid learning

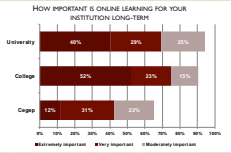
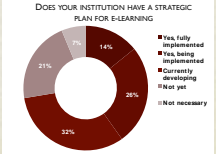

- Last 2 years: big move to hybrid learning (in Canada)
- Probably 50% of all classes will be hybrid by 2020
- 'Flipped' teaching: BUT: it can be so much more - move towards re-design
- What is the best use of face-to-face time? What is the right mix?



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2. Trends: b. for-credit online learning: Canada



- Over two-thirds rated online learning very important for future
- Most (72%) have or are developing a strategy or plan for online learning

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2. Trends: c. MOOCs

- cMOOCs (Siemens, Downes, Cormier): different instructors; web conferencing; students use social media; massive 'communities of practice'; **connectivist**
- xMOOCs: Coursera; edX; FutureLearn; lecture capture; peer review, computer testing; massive online broadcasting; **behaviorist**

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3. Implications for teaching and learning



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3. Implications for teaching and learning a. What kind of course?



← blended →

fully online

face-to-face classroom flipped hybrid (distance)
aids

no technology (mode of delivery) all technology

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3. Implications for teaching and learning a. What kind of course?

- where on the continuum should my course or program be?
- Mode of delivery should be driven by needs of students
- high school leavers/full time = campus + blended
- Part-time undergraduate students: blended
- Lifelong learners: fully online
- Multiple modes for same course?



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3. Implications for teaching and learning b. content and skills

- Content = facts, ideas, principles: 'knowing'
- Skills = understanding, analysing, evaluating, applying: 'doing'
- Both necessary in today's society
- BUT: content has been the traditional priority in HE



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3. Implications for teaching and learning b. content and skills

We know a lot about how to teach skills:

- Context-specific
- Learners need lots of practice
- Small steps
- Regular feedback from expert
- Develop over a program rather than one course



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3. Implications for teaching and learning b. content and skills

- How do you develop skills? What teaching methods?
- Relationship between content and skills
- What role can technology play in developing and assessing skills?
- What do we assess – and how?



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3. Implications for teaching and learning

c. What teaching methods for skills development?

- Discussion, social learning for testing and developing ideas
- Problem-based learning
- Experiential learning: learning by doing
- Communities of practice
- Competency-based learning
- Knowledge management



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3. Implications for teaching and learning

d. New teaching approaches

- from information transmission to knowledge management
- skills development + content
- lecture-based courses replaced by student projects, problem-based learning, collaborative learning
- goodbye written exams: replaced by e-portfolios demonstrating student's knowledge/skills



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3. Implications for teaching and learning

e. 'advanced' online course design

- core skill: knowledge management
 - how to find, analyze, evaluate and apply information
- open content within a learning design
- student-generated multimedia content: online project work
- assessment by e-portfolios
- just one example: new designs needed



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3. Implications for teaching and learning

f. New faculty roles


- Teaching performance will be a major competitive advantage
- Instructors need pedagogical knowledge + technology skills
- Requires pre-service + in-service training + tenure/promotion reward
- Learning technology support (instructional designers + media designers) + team-work



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Questions


- Are you convinced of the need for change in your teaching?
- What is the most relevant of these developments for your teaching?
- What are the main barriers you face in changing your teaching?



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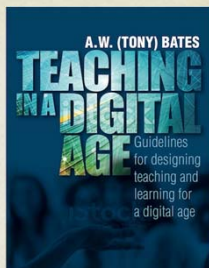
Conclusions

- Digital economy requires high-level intellectual skills
- Teaching methods must include opportunities for skills development
- Technology enables more flexible delivery and ways to practice skills
- But all within a specifically designed learning environment that supports learners



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- Teaching in a Digital Age:
<https://opentextbc.ca/teachinginadigitalage/>
- Blog: Online Learning and Distance Education Resources:
<http://www.tonybates.ca/>
- E-mail: tony.bates@ubc.ca



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Exercise

- Choose a course or (new?) program
- Redesign it to give more emphasis to skills development/knowledge management/independent learning
- Choose moderator + reporter
- Report back (course details; why the change; the new design)



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