

220 POCKETS OF INNOVATION IN ONLINE LEARNING

From Colleges and Universities in Ontario, British Columbia, Alberta, Manitoba, Québec, New Brunswick, Newfoundland and Labrador, Nova Scotia, and Prince Edward Island Austria, Costa Rica, Denmark, England, France, Germany, Hong Kong, China, Iceland, Ireland, Israel, Italy, The Netherlands, New Zealand, Norway, Scotland, Spain, Sweden, Switzerland and United States.

CONTACT **N**ORTH **N**ORD Online Learning
Apprentissage en ligne

220 POCKETS OF INNOVATION IN ONLINE LEARNING



Highlighting **9** Themes:

- 1 Educational Design, Courses and Resources
- 2 Diversity in Blended Learning
- 3 Student Access, Engagement and Flexibility
- 4 Supporting Student Success Online
- 5 OER and MOOCs
- 6 Options for Online Assessment
- 7 Faculty Development and Support
- 8 Models of Collaboration
- 9 Organizational Planning for Online Learning

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Table of Contents

The Pockets of Innovation Series

Theme 1 – Educational Design, Courses and Resources

[Mobile Options](#)
[Unique and Specialized Resources](#)
[Applied Learning](#)
[Interaction](#)
[Interdisciplinary Learning](#)
[Virtual Reality](#)

Theme 2 – Diversity in Blended Learning

[Flipped Classroom](#)
[Delivery Alternatives](#)
[Offering Complete Programs](#)
[Faculty Perceptions and Experiences](#)

Theme 3 – Student Access, Engagement and Flexibility

[Multiple Formats](#)
[Online Programs](#)
[Interaction and Engagement](#)
[New Formats](#)
[Synchronous Teaching and Learning](#)
[Building Knowledge and Community](#)
[Social Media](#)

Theme 4 – Supporting Student Success Online

[How to Use Technology Effectively](#)
[How to Be a Successful Student](#)
[Supplementary Learning](#)
[Linking to Outside Sources](#)

Theme 5 – OER and MOOCs

[MOOCs for Open Learning](#)
[Dual Purpose MOOCs](#)
[Integrating MOOCs](#)
[Open Educational Resources](#)

Theme 6 – Options for Online Assessment

[Timeliness](#)
[Extending Access](#)
[Encouraging Mastery Learning](#)
[Encouraging Participation](#)
[Peer Assessment](#)
[Fostering Skill Development](#)
[Highlighting Achievements](#)
[Faculty Benefits](#)

Theme 7 – Faculty Development and Support

[Professional Development and Training](#)
[Consulting](#)
[Resources](#)

Theme 8 – Models of Collaboration

[Collaboration among Ontario Colleges and Universities](#)
[Regional Collaboration](#)
[National Collaboration](#)
[International Collaboration](#)

Theme 9 – Organizational Planning for Online Learning

Goals of Online and Blended Learning

[Increase Access](#)
[Enhance Flexibility](#)
[Increase Student Engagement](#)
[Foster Student Success](#)

Institution-Wide Change and Support

[Quality Standards](#)
[Student Support Services](#)
[Faculty Support Services](#)
[New Resources](#)
[Effectiveness and Efficiency](#)
[Infrastructure and Physical Plant](#)

Reflections on the Pockets of Innovation Series

The Pockets of Innovation Series

Higher education in Ontario, across Canada, and around the world is a hotbed of innovation focused on expanding and improving learning opportunities and increasing success for students through online, blended and technology-enhanced learning.

Since 2011, [Contact North | Contact Nord](#) interviewed over 260 innovators at colleges and universities to learn about their online teaching and learning initiatives, specifically the inspiration and motivation for their innovation, its design and delivery, benefits, challenges and potential for further application.

The [Pockets of Innovation Series](#) on Contact North | Contact Nord's teachonline.ca portal showcases 220 ground-breaking projects focused on:

- transforming the teaching and learning experience;
- increasing student success;
- enhancing engagement and flexibility;
- providing training and support for students, faculty and instructors; and
- benefiting from the multiple opportunities offered by collaboration and new technologies.

The Pockets of Innovation Series includes initiatives from 23 public colleges and 21 public universities in Ontario, as well as higher education institutions in other provinces of Canada, including British Columbia, Alberta, Manitoba, Québec, New Brunswick, Newfoundland and Labrador, Nova Scotia, and Prince Edward Island and 20 countries around the world: Austria; Costa Rica; Denmark; England; France; Germany; Hong Kong, China; Iceland; Ireland; Israel; Italy; The Netherlands; New Zealand; Norway; Scotland; Spain; Sweden; Switzerland; and United States.

Pockets of Innovation are grouped in three geographic categories – [Ontario](#), [Cross Canada](#) and [International](#). Each one shares three essential characteristics:

- They represent a new approach;
- They directly support students; and
- The developers are prepared to share their innovations, the challenges they encountered and what they learned with colleagues in Ontario and around the world.

Emerging from the 220 Pockets of Innovation are 9 broad themes, showing how these initiatives encompass all aspects of online teaching, learning and organizational planning:

-
- 1 Educational Design, Courses and Resources
 - 2 Diversity in Blended Learning
 - 3 Student Access, Engagement and Flexibility
 - 4 Supporting Student Success Online
 - 5 OER and MOOCs
 - 6 Options for Online Assessment
 - 7 Faculty Development and Support
 - 8 Models of Collaboration
 - 9 Organizational Planning for Online Learning
- Reflections on the Pockets of Innovation Series

- 1 Educational Design, Courses and Resources
- 2 Diversity in Blended Learning
- 3 Student Access, Engagement and Flexibility
- 4 Supporting Student Success Online
- 5 OER and MOOCs
- 6 Options for Online Assessment
- 7 Faculty Development and Support
- 8 Models of Collaboration
- 9 Organizational Planning for Online Learning

Each of the 220 innovations in this compilation continues to provide information and inspiration for faculty, instructors, staff, management, policy makers and funders. The Pockets of Innovation Series features 150 innovations from faculty and instructors in Ontario public colleges and universities and, since 2016, includes initiatives from faculty across Canada and internationally.

Contact North | Contact Nord launched the Pockets of Innovation Series in 2011 and, as the dedication and creativity of faculty continue unabated, is continuously adding new examples of ground-breaking projects to its portal, teachonline.ca.

Launched in 2011, teachonline.ca is accessed annually by 275,000 faculty and instructors from around the world to learn about the latest trends, best practices, training opportunities and teaching resources in online learning.

The Pockets of Innovation Series

- 1 Educational Design, Courses and Resources
- 2 Diversity in Blended Learning
- 3 Student Access, Engagement and Flexibility
- 4 Supporting Student Success Online
- 5 OER and MOOCs
- 6 Options for Online Assessment
- 7 Faculty Development and Support
- 8 Models of Collaboration
- 9 Organizational Planning for Online Learning

Reflections on the Pockets of Innovation Series



Theme 1 Educational Design, Courses and Resources

[Mobile Options](#)

[Unique and Specialized Resources](#)

[Applied Learning](#)

[Interaction](#)

[Interdisciplinary Learning](#)

[Virtual Reality](#)

The Pockets of Innovation Series

1 Educational Design, Courses and Resources

2 Diversity in Blended Learning

3 Student Access, Engagement and Flexibility

4 Supporting Student Success Online

5 OER and MOOCs

6 Options for Online Assessment

7 Faculty Development and Support

8 Models of Collaboration

9 Organizational Planning for Online Learning

Reflections on the Pockets of Innovation Series

Theme 1

Educational Design, Courses and Resources

Post-secondary faculty members have developed and adapted a plethora of educational designs, courses and resources in a multitude of formats to respond to student needs for access, alternative approaches to learning, unique and specialized resources, applied learning opportunities, and interaction.

Examples from the Pockets of Innovation Series illustrate the scope and contributions to teaching and learning of innovative learning designs, courses and tools.

Mobile Options: At numerous colleges and universities, including [George Brown College](#), and [Nipissing University](#), in Ontario, and the [Université de Sherbrooke](#), Québec, Canada, concerted efforts are applied to the development and/or conversion of resources so they are accessible on mobile devices, offering students anywhere, anytime learning that fits with their complicated and demanding lives. At [Conestoga College](#), Ontario, tablets are part of face-to-face classes in Business Maths for enriched teaching and learning, with lecture support material, the professors' in-class work and comments, practice exercises, and student notes shared and stored for later review.

Lambton College in Ontario began to position itself as a [mobile learning college in 2012](#) and has since expanded this initiative to offer a [Class+ experience for students](#) inside and outside classrooms.

The integration of e-books, whether developed as an institution-wide initiative in concert with publishers as at [Algonquin College](#), Ontario, or as course-specific resources as at the [University of Windsor](#), Ontario, expands textbook availability to all students. Using their choice of device, students can access text, visuals, quizzes, and other rich media at prices far below that of print textbooks or as open educational resources (OER).

An open source web conferencing system, BigBlueButton, was developed in the Technology Innovation Management Program at Ontario's [Carleton University](#) for students to communicate and collaborate without the necessity of meeting on campus.

Students at the [University of Barcelona](#) in Spain have subsidized access to commercial learning resources for self-directed learning of a wide choice of languages on their choice of device. At [Athlone Institute of Technology](#), Ireland, faculty worked with flipped classrooms models, universal design principles and other strategies to support access and success.

The [Open University of Hong Kong](#) carefully researched its introduction of mobile learning, collecting input from students and faculty in order to expand and improve learning.

-
- C** CONTENT
 - The Pockets of Innovation Series
 - 1** Educational Design, Courses and Resources
 - 2** Diversity in Blended Learning
 - 3** Student Access, Engagement and Flexibility
 - 4** Supporting Student Success Online
 - 5** OER and MOOCs
 - 6** Options for Online Assessment
 - 7** Faculty Development and Support
 - 8** Models of Collaboration
 - 9** Organizational Planning for Online Learning
 - Reflections on the Pockets of Innovation Series

Unique and Specialized Resources: Online resources provide access to a broad range of resources, including collections that might otherwise be restricted, new resources designed to meet a specific learning and virtual lab specimens. Examples from the Pockets of Innovation Series include:

- the digital archive at [Algoma University](#), Ontario, dedicated to the history of Residential Schools;
- collections of lab specimens and anatomy slides that can be manipulated online from [Western University](#), Ontario;
- videos of chemistry demonstrations and brief lectures available on YouTube from [Carleton University](#), Ontario;
- science and health resources for students, the public, and health professionals from the [University of Ottawa](#), Ontario;
- [Ryerson University](#), Ontario, offers multiple open access videos, documentaries, role-playing games, and learning objects as tools for instructors and students;
- instructional tools for music students to learn theoretical and practical elements of performance from [Humber College](#), Ontario;
- artifacts and documents from the Middle Ages for a course at [Memorial University](#), Newfoundland and Labrador, Canada;
- anatomy videos accessed by using QR codes and mobile phones at the [University of Prince Edward Island](#), Canada;
- a web-based argument visualization tool for science students at [Simon Fraser University](#), British Columbia, Canada;
- Using Talking Circles as part of a course on Aboriginal literature at [Memorial University](#), Newfoundland and Labrador, Canada;
- a portal supporting thesis completion and quality for Information Technology students, with an example of a language learning project from [Stockholm University](#), Sweden;
- teaching and learning resources at [University of the Highlands and Islands](#), Scotland, combining curriculum development and quality improvement in a clearly defined resource development process;
- more than 80 resources, including degree programs, courses and professional development tools, created by the partners at [uTOP, the Multi-partner Open University of Technology](#) in France;
- over 34,000 open resources developed by universities and their partners in France with support of the [Ministry of Higher Education and Research](#); and
- a low-cost virtual computer lab for online students at the [Norwegian University of Science and Technology](#), Norway.

Applied Learning: Online resources offer opportunities for practice, self-testing, and supplementary learning, particularly effective for self-assessment, an essential aspect of students taking responsibility for their own learning.

-
- The Pockets of Innovation Series
 - 1** Educational Design, Courses and Resources
 - 2** Diversity in Blended Learning
 - 3** Student Access, Engagement and Flexibility
 - 4** Supporting Student Success Online
 - 5** OER and MOOCs
 - 6** Options for Online Assessment
 - 7** Faculty Development and Support
 - 8** Models of Collaboration
 - 9** Organizational Planning for Online Learning
 - Reflections on the Pockets of Innovation Series

Through online question banks in Accounting at [Carleton University](#), Ontario, students can practice in a safe environment, receive correction and feedback, and target their areas of uncertainty and need. Learning objects, such as those developed at Ontario’s [Fanshawe College](#) and [Durham College](#) or integrated from a commercial supplier at [Canadore College](#), allow students, especially those in apprenticeship programs, to perform tasks that could be risky, expensive, and difficult in real-life situations and that reinforce and extend theoretical learning.

In examples at Ontario universities, online modules from [York University](#) and [McMaster University](#) provide support for students in multiple disciplines for essential learning and workplace skills, such as research, communication, group work, time management, note taking, and project management. At [Nipissing University](#), education students are given access to software and technology to be considered for use in their future teaching careers. A project-based learning approach, at [Brock University](#), is combined with online course content and exercises in project management to offer a learning-by-doing challenge.

[McMaster University](#) works with a partner to link students to real-life projects for experiential learning experiences.

At [the University of British Columbia](#), Canada, students use a mobile app to locate and identify soil samples in a provincial park.

The [Open University of Catalonia](#) in Spain is introducing a new pedagogical design – challenge-based learning – built around case studies and real-life situations, competency development and continuous assessment. Students in Interactive Media Arts at [Assiniboine College](#), Canada, use inquiry-based learning, best practice research and extensive practical work in blended courses.

Interaction: Social media and other apps are featured in many course designs in Ontario institutions, from Twitter-based debates on sports ethics at the [University of Windsor](#), to Facebook interactions in a Muslim Studies course between students on two continents at [Wilfrid Laurier University](#), and posting and sharing of favourite articles and visuals related to weekly topics in marketing at [Seneca College](#).

At colleges and universities across the world, students are accessing multiple ways of interacting and sharing learning, whether creating blogs, videos, and visual displays, using Google Maps and Street View, mind mapping software, and podcasts, or communicating on discussion boards and wikis. In this way, resources that best suit any learning preference are available. Students learn about academic uses of apps they are familiar with and about many more learning tools on the web. New ways of engaging with content, professors, and each other demonstrate benefits in motivation and improved grades.

-
- 1** Educational Design, Courses and Resources
 - 2 Diversity in Blended Learning
 - 3 Student Access, Engagement and Flexibility
 - 4 Supporting Student Success Online
 - 5 OER and MOOCs
 - 6 Options for Online Assessment
 - 7 Faculty Development and Support
 - 8 Models of Collaboration
 - 9 Organizational Planning for Online Learning
- The Pockets of Innovation Series
- Reflections on the Pockets of Innovation Series

Interdisciplinary Learning: Online resources for interdisciplinary learning are developed at a number of Ontario institutions, for example to engage groups of students across varied programs in the health sciences at the [University of Ottawa](#) and [Queen’s University](#), and for the wide range of professionals involved in responding to a disaster at [Centennial College](#). Case studies form the basis of these tools, with live, online interaction and subsequent discussions. An interdisciplinary diploma in Applied Aboriginal Studies is available to Aboriginal students at [Centennial College](#), using online and hybrid courses from faculties across the college.

Virtual Reality: Virtual reality allows students to participate in simulated real-life situations in environments that are safe and supportive. Simulations stress interdisciplinary learning, cooperation, careful situational analysis, real-time communication, and other skills best conveyed through experience.

The [Pockets of Innovation Series](#) includes examples of applications of virtual reality and simulations for archeology, language, security, social work, health sciences, veterinary studies, and other courses at Ontario colleges and universities, such as [Durham College](#), [Georgian College](#), [Sheridan College](#), [Nipissing University](#), the [Northern Ontario School of Medicine](#) (a shared faculty of Laurentian and Lakehead universities) and [Carleton University](#), which offers both [preliminary](#) and [more advanced applications](#) of virtual reality. [Loyalist College](#) created virtual environments for teaching and learning in [border security](#), [food processing and hospital careers](#), and [ecology and health sciences](#). The [Justice Institute of British Columbia](#), Canada, developed simulations for its Emergency Management Division that are now used in multiple educational settings.

Seeing an opportunity for improvement or a need for change, faculty develop and adopt online design, courses and resources to improve all aspects of teaching and learning.

Ontario Public Colleges and Universities Featured in this Theme

Algoma University

[The Shingwauk Project: Creating a digital archive to preserve the history of Residential Schools for generations of student learning](#)

Algonquin College

[e-Textbooks at Algonquin College: 100% of the students with 100% of their resources 100% of the time](#)

Brock University

[Using Project-Based Learning in an Online Project Management Course at Brock University, Ontario, Canada](#)

Canadore College

[Developing Online Learning Opportunities for Apprentices in the Motive Power Department at Canadore College](#)

-
- 1 Educational Design, Courses and Resources
 - 2 Diversity in Blended Learning
 - 3 Student Access, Engagement and Flexibility
 - 4 Supporting Student Success Online
 - 5 OER and MOOCs
 - 6 Options for Online Assessment
 - 7 Faculty Development and Support
 - 8 Models of Collaboration
 - 9 Organizational Planning for Online Learning
- Reflections on the Pockets of Innovation Series

Carleton University

[BigBlueButton: Building an open source web conferencing and collaboration platform to support off-campus students](#)

[Carleton Virtual: Using virtual space as an environment for student learning](#)

[Expanding Reality for Learning: Using Carleton Virtual for Language Learning at Carleton University](#)

[Improving Student Success in Financial Accounting with Online Learning at Carleton University](#)

[Online Interaction to Enhance the Learning of First-Year Chemistry Students at Carleton University](#)

Centennial College

[Playing to Learn: A disaster simulation game for interdisciplinary learning at Centennial College](#)

[Starting with Pedagogy: New learning management system and an Interdisciplinary Applied Aboriginal Studies Diploma Program for Aboriginal students](#)

Conestoga College

[Using Tablets in the Classroom to Enhance Learning in Business Maths Courses at Conestoga College](#)

Durham College

[Critical Care Nursing: Province-wide access to learning from a combination of online theory simulation and hands-on experience](#)

[Linking Online and Experiential Learning: A hybrid model for apprenticeship education through a partnership between Sault College and Durham College](#)

Fanshawe College

[Creating Learning Objects: Supporting student learning with online resources at Fanshawe College](#)

George Brown College

[Mobile-Assisted Language Learning: Enhancing student learning with mobile phones](#)

Georgian College

[Experiential Learning through Simulations in a Second Life Virtual Campus at Georgian College](#)

Humber College

[How Do-It-Yourself Technology is Enhancing the Learning Experience for Music Students at Humber College in Toronto, Canada](#)

-
- The Pockets of Innovation Series
 - 1 Educational Design, Courses and Resources
 - 2 Diversity in Blended Learning
 - 3 Student Access, Engagement and Flexibility
 - 4 Supporting Student Success Online
 - 5 OER and MOOCs
 - 6 Options for Online Assessment
 - 7 Faculty Development and Support
 - 8 Models of Collaboration
 - 9 Organizational Planning for Online Learning
 - Reflections on the Pockets of Innovation Series

Lambton College

[Supporting Institutional Change: The Learning Innovation Centre at Lambton College](#)

[Developing Mobile Learning and a Class+ Experience for Student Engagement Inside and Outside the Classroom at Lambton College](#)

Loyalist College

[Border Simulation: Student learning in a virtual world](#)

[Simulations for Learning: Creating a virtual environment for learning](#)

[Virtual Learning Environment: Developments in virtual reality for learning at Loyalist College](#)

McMaster University

[Expanding Literacy: Online resources in information and geospatial literacy for students](#)

[Focusing on Instructional Design Support, Applied Learning, and Online Teaching at the Centre for Continuing Education, McMaster University, Hamilton, Ontario](#)

Nipissing University

[Going Mobile: Developing and supporting mobile learning opportunities for students](#)

[The iTeach Laptop Learning Program: Integrating educational technology into teacher education](#)

[Making Virtual a Reality: Introducing virtual reality learning opportunities for students at Nipissing University](#)

Northern Ontario School of Medicine

[Communication and Engagement: Towards a seamless network linking faculty and students of the Northern Ontario School of Medicine](#)

Queen's University

[Active Learning: Using online technologies to support new ways of learning for medical students](#)

Ryerson University

[Setting the Stage for Student Success: Digital Education Strategies at The G. Raymond Chang School of Continuing Education](#)

Seneca College

[Integrating Facebook and Twitter: Helping Students Learn How to Learn Using Social Media at Seneca College](#)

Sheridan College

[Building a Dog Skeleton: A simulation-based learning tool for students](#)

-
- The Pockets of Innovation Series
 - 1 Educational Design, Courses and Resources
 - 2 Diversity in Blended Learning
 - 3 Student Access, Engagement and Flexibility
 - 4 Supporting Student Success Online
 - 5 OER and MOOCs
 - 6 Options for Online Assessment
 - 7 Faculty Development and Support
 - 8 Models of Collaboration
 - 9 Organizational Planning for Online Learning
 - Reflections on the Pockets of Innovation Series

University of Ottawa

[Interdisciplinary Learning: Creating an online framework to facilitate student learning in multiple disciplines](#)

[Online Resources for Science and Health: Extending Learning Opportunities at the University of Ottawa](#)

University of Windsor

[Assessing the Potential of e-Textbooks at the University of Windsor](#)

[Using Twitter in the Classroom for Student Engagement and Exchange at University of Windsor](#)

Western University

[Online Microscopic Anatomy Laboratory Courses – Including Virtual Microscopy Slides at Western University](#)

Wilfrid Laurier University

[Active Learning in an Intercultural Online Environment at Wilfrid Laurier University](#)

York University

[SPARK, the Virtual Learning Commons: An online resource for academic literacy at York University](#)

Cross Canada Colleges and Universities Featured in this Theme

Assiniboine College, Manitoba

[Using Inquiry-Based Blended Learning to Teach Visual Communication and Web Design at Assiniboine College, Brandon](#)

Justice Institute of British Columbia

[Praxis: An Online Simulation Training Environment for Scenario-Based Real-Time Decision-Making at the Justice Institute of British Columbia, British Columbia](#)

Memorial University, Newfoundland and Labrador

[Game of Genders: Using Video and Audio in an Archeology Course at Memorial University of Newfoundland, Canada](#)

Memorial University, Newfoundland and Labrador

[The Use of Talking Circles in an Online Course on Aboriginal Literature at Memorial University of Newfoundland](#)

Simon Fraser University, British Columbia

[Developing Skills of Argumentation in Undergraduate Science Students Through the Use of an Online Dialectical Map at Simon Fraser University, British Columbia](#)

Université de Sherbrooke, Québec

[Using iBook Author and iPads to Manage Content for Pre-Medical Students and Faculty at the Department of Medicine, Université de Sherbrooke, Québec](#)

- The Pockets of Innovation Series
- 1 Educational Design, Courses and Resources
- 2 Diversity in Blended Learning
- 3 Student Access, Engagement and Flexibility
- 4 Supporting Student Success Online
- 5 OER and MOOCs
- 6 Options for Online Assessment
- 7 Faculty Development and Support
- 8 Models of Collaboration
- 9 Organizational Planning for Online Learning
- Reflections on the Pockets of Innovation Series

University of British Columbia

[Using an Online Mobile Gaming App for Soil Identification in Undergraduate Courses at the University of British Columbia, British Columbia](#)

University of Prince Edward Island

[Using QR Codes and Mobile Phones for Teaching Gross Anatomy at the University of Prince Edward Island](#)

Colleges and Universities from Around the World Featured in this Theme

Athlone Institute of Technology, Ireland

[Innovating with Technology for Enhanced Learning at Athlone Institute of Technology, Ireland](#)

Ministry of Higher Education and Research, France

[Available to All – One Portal Featuring More than 34,000 Open Educational Resources Developed by Universities in France](#)

Norwegian University of Science and Technology, Norway

[Building a virtual computer lab for online learning at the Norwegian University of Science and Technology and the Research and Development Foundation TISIP](#)

Open University of Catalonia, Spain

[Challenge-Based Online Learning to Develop Essential Competencies at the Open University of Catalonia, Barcelona, Spain](#)

Open University of Hong Kong, China

[Tracking Student Responses to the Introduction of Mobile Learning at the Open University of Hong Kong](#)

Stockholm University, Sweden

[Using ICT to Support Thesis Completion, Highlighting the Example of a Thesis Project to Develop a Tool for Online Language Learning for Immigrants, at Stockholm University, Sweden](#)

University of Barcelona, Spain

[Providing and Supporting Self-Access Language Learning at the University of Barcelona, Spain](#)

University of the Highlands and Islands, Scotland

[Enhancing Student Learning, Curriculum Resources, Staff Development, and Employer Satisfaction in the Educational Development Unit at the University of the Highlands and Islands, Scotland](#)

uTOP, Université de Technologie Ouverte Pluripartenaire, France

[uTOP – University Collaboration and Innovation Result in Online Learning Opportunities for Initial and Continuing Education in Engineering and Technology in France](#)

- 1** Educational Design, Courses and Resources
- 2** Diversity in Blended Learning
- 3** Student Access, Engagement and Flexibility
- 4** Supporting Student Success Online
- 5** OER and MOOCs
- 6** Options for Online Assessment
- 7** Faculty Development and Support
- 8** Models of Collaboration
- 9** Organizational Planning for Online Learning
- Reflections on the Pockets of Innovation Series



Theme 2 Diversity in Blended Learning

[Flipped Classroom](#)

[Delivery Alternatives](#)

[Offering Complete Programs](#)

[Faculty Perceptions and Experiences](#)

- The Pockets of Innovation Series
- 1 Educational Design, Courses and Resources
- 2 Diversity in Blended Learning
- 3 Student Access, Engagement and Flexibility
- 4 Supporting Student Success Online
- 5 OER and MOOCs
- 6 Options for Online Assessment
- 7 Faculty Development and Support
- 8 Models of Collaboration
- 9 Organizational Planning for Online Learning
- Reflections on the Pockets of Innovation Series

Theme 2

Diversity in Blended Learning

Blended learning (also called hybrid learning) is offered with different models of design and delivery, with each approach suiting particular student groups and content. Accompanying this overview of the diversity in blended learning are some reflections from faculty on pedagogy, structure and strategies which emerge from their experiences and those of their students,

Flipped Classroom: In the widely used flipped classroom model, online modules feature what is often the core content of the course through readings, practice exercises, self-assessment quizzes, videos, discussion boards, images, and a multitude of other resources. Students work with these resources before class, thereby arriving informed and ready to participate. In the face-to-face portion, students interact with the professor and/or in group tutorials headed by teaching assistants, focused on problem-solving, field trips, practical exercises, and discussions – whatever forms of participatory learning best suit the course.

This model is used at many Ontario colleges and universities, including [Cambrian College](#) for a Public Relations course, [Lambton College](#) in Physical Anthropology, in Introductory Psychology at [McMaster University](#), at [Wilfrid Laurier University](#) in Organic Chemistry, and at the [University of Ottawa](#) in Science Fiction, as well as courses in [Calculus](#), [Sociology](#), [Classics](#), and [Psychology](#) from [Queen’s University](#). The flipped classroom, often used in large-enrolment and first-year courses, offers students the possibility of developing content expertise in their own time and pace, while the classroom highlights engagement and exchange rather than lengthy lectures.

Delivery Alternatives: In some blended courses, professors combine weeks of face-to-face classes with other weeks provided completely online, such as in the Human Services program at [Mohawk College](#), in Ontario. In language/communications courses taken by all students at [Mohawk College](#), the blend of face-to-face and online delivery is modified to meet the needs of each program and its students.

At Ontario’s [Durham College](#) and [Niagara College](#), professors include three formats with students progressing over the weeks of a course from face-to-face classes, to blended delivery, to fully online learning. Students become familiar with the technologies and strategies for learning online, while also having the opportunity to build community in the face-to-face classroom. [Canadore College](#) has courses for apprentices, with online learning offered to students in the workplace combined with on-campus practical sessions.

Students at [Wilfrid Laurier University](#), Ontario, study how to teach vocal and instrumental music primarily online, with plentiful provision for engagement and feedback, supplemented by face-to-face workshops.

-
- The Pockets of Innovation Series
 - 1 Educational Design, Courses and Resources
 - 2 Diversity in Blended Learning
 - 3 Student Access, Engagement and Flexibility
 - 4 Supporting Student Success Online
 - 5 OER and MOOCs
 - 6 Options for Online Assessment
 - 7 Faculty Development and Support
 - 8 Models of Collaboration
 - 9 Organizational Planning for Online Learning
 - Reflections on the Pockets of Innovation Series

Caregivers for older adults are offered knowledge and skills by [McMaster University](#), with a combination of online information and referrals and face-to-face sessions for support and sharing.

Blogs and posters are used for student exchange and reports on their research topics in a course in children's health at the [University of Prince Edward Island](#), Canada. Agile design at [l'Université du Québec à Trois-Rivières](#) in Québec, Canada supports integration of the latest technologies with achievement of pedagogical goals. A blended course in Babylonian Culture at [Università Ca' Foscari](#) in Italy offers students online practice in cuneiform writing, leading to increased engagement and skill development.

Offering Complete Programs: In a model used in Ontario health science programs at [Lakehead University](#) and apprenticeships at [Durham College](#) and [Sault College](#), all course content for the completion of a degree, diploma, or certificate is delivered online, followed by, or integrated with, face-to-face practical experience in shops, labs, and clinical placements. The online content for a complete program may be developed by one college or university or jointly developed and shared among many institutions with the result that students can complete a program online with courses from a variety of institutions and attend face-to-face sessions in their communities.

[Nipissing University](#) offers a degree completion option for students with three-year business diplomas from colleges through blended learning partnerships with six Ontario colleges. The availability of blended programs has greatly extended access to post-secondary education in northern and Aboriginal communities, as shown in experience like those at Ontario's [Lakehead University](#).

The Leadership in Community Engagement program at [McMaster University](#) in Ontario starts with a face-to-face course to foster networks and communications, followed by online courses stressing experiential learning.

Faculty Perceptions and Experiences: The professors, whose experiences are featured in the Pockets of Innovation Series, offer a number of perceptions and principles regarding blended learning:

- Course development often begins with an examination of course content to determine what can best be taught online and what is more suitable for face-to-face teaching and learning. Guiding this is a shift in pedagogical thinking that emphasizes the importance of student involvement, both online and in-class, for optimal learning. One consequence is a change in approach to classroom teaching, from delivery of content to engagement, which impacts not only blended learning classes but also faculty approaches to teaching overall.
- Collaboration with centres for learning and teaching at colleges and universities is beneficial in understanding the new approaches to teaching and learning and the capacities, contributions, and challenges of technologies. Development of all models of online learning requires considerable time and creative commitment.

| | |
|---|---|
| | The Pockets of Innovation Series |
| 1 | Educational Design, Courses and Resources |
| 2 | Diversity in Blended Learning |
| 3 | Student Access, Engagement and Flexibility |
| 4 | Supporting Student Success Online |
| 5 | OER and MOOCs |
| 6 | Options for Online Assessment |
| 7 | Faculty Development and Support |
| 8 | Models of Collaboration |
| 9 | Organizational Planning for Online Learning |
| | Reflections on the Pockets of Innovation Series |

- Students appreciate the opportunity to prepare for and engage in classes rather than listen to long, one-time-only lectures. Blended learning modules allow self-paced learning, with content available for review and for targeted studying on points of difficulty. Students often arrive at class eager to apply what they learned to real-life case studies and problem-solving.
- Blended learning also requires dedication and discipline on the part of students as core content is no longer delivered in lectures. One professor calls this “the double-edged sword of self-paced learning”. Many faculty encounter difficulties convincing students that the online portion of a blended course is core, essential content rather than optional. Weekly online quizzes for marks, online group and individual projects, time limited access to modules, and other strategies are adopted to encourage continuous participation.

Blended learning complements the trend in post-secondary sector to more active, engaged, and experiential learning, while also extending access by making learning more flexible and individually-paced. Research in many institutions demonstrates an increase in student grades in blended learning courses, with results higher than those from face-to-face delivery and online learning.

Ontario Public Colleges and Universities Featured in this Theme

Cambrian College

[Student Choice: Offering Multiple Course Design Options for Better Access and Learning at Cambrian College](#)

Canadore College

[Developing Online Learning Opportunities for Apprentices in the Motive Power Department at Canadore College](#)

Durham College

[Combining Traditional, Hybrid, and Online Learning in a Progressive Delivery Model at Durham College](#)

[Linking Online and Experiential Learning A hybrid model for apprenticeship education through a partnership between Sault College and Durham College](#)

Lakehead University

[Aboriginal Education: Offering an honours degree program focused on becoming a teacher with the specialization of teaching students of Aboriginal ancestry at Lakehead University](#)

[From Access to Graduate Programs: An extensive array of learning opportunities for nursing and health science students](#)

Lambton College

[Converting to Hybrid Teaching – Realizing the benefits of blended courses for teaching and learning at Lambton College](#)

-
- 1 Educational Design, Courses and Resources
 - 2 Diversity in Blended Learning
 - 3 Student Access, Engagement and Flexibility
 - 4 Supporting Student Success Online
 - 5 OER and MOOCs
 - 6 Options for Online Assessment
 - 7 Faculty Development and Support
 - 8 Models of Collaboration
 - 9 Organizational Planning for Online Learning
 - Reflections on the Pockets of Innovation Series

Mohawk College

[Blended Learning for Students in Health Sciences and Human Services at Mohawk College](#)

[Implementing Blended Learning in Language Studies at Mohawk College](#)

McMaster University

[Blended Learning in Introductory Psychology: An IntroPsych blended learning model](#)

[Blended Learning Program in Leadership in Community Engagement at McMaster University, Ontario, Canada](#)

[Using Blended Learning to Provide Knowledge and Skills for Caregivers of Older Adults at McMaster University in Hamilton, Ontario](#)

Niagara College

[Commitment to Students and Excellence: Developing self-directed learners through iLearn at Niagara College](#)

Nipissing University

[Nipissing College Partnership Plan: Nipissing University's School of Business Partners with Colleges to Deliver a Business Degree Option](#)

Queen's University

[Designing First-Year Sociology for the Millennial Generation at Queen's University](#)

[Developing a Blended Learning Course for More Engaged Learning in Calculus at Queen's University](#)

[Engaging First-Year Students: A Blended Learning Model for Active Learning](#)

[Strategic Advancement: Moving Ahead with Blended Learning at Queen's University;](#)












[Teaching and Learning in a Course in Ancient Humour using a Blended Format at Queen's University;](#)

Sault College

[Linking Online and Experiential Learning: A hybrid model for apprenticeship education through a partnership between Sault College and Durham College](#)

University of Ottawa

[A Science Fiction Course Makes Hybrid Learning Anything but Futuristic at the University of Ottawa in Ottawa, Canada](#)

-  The Pockets of Innovation Series
-  1 Educational Design, Courses and Resources
-  2 Diversity in Blended Learning
-  3 Student Access, Engagement and Flexibility
-  4 Supporting Student Success Online
-  5 OER and MOOCs
-  6 Options for Online Assessment
-  7 Faculty Development and Support
-  8 Models of Collaboration
-  9 Organizational Planning for Online Learning
-  Reflections on the Pockets of Innovation Series

Wilfrid Laurier University

[A Blended Course at Wilfrid Laurier University in Waterloo, Canada, Teaches Students How to Teach Music](#)

[Encouraging Student Independence: A blended learning model for Organic Chemistry at Wilfrid Laurier University](#)

Cross Canada Colleges and Universities Featured in this Theme

Université du Québec à Trois-Rivières, Québec

[Agile Design in a Course on the Integration of Technology in Teaching at l'Université du Québec à Trois-Rivières](#)

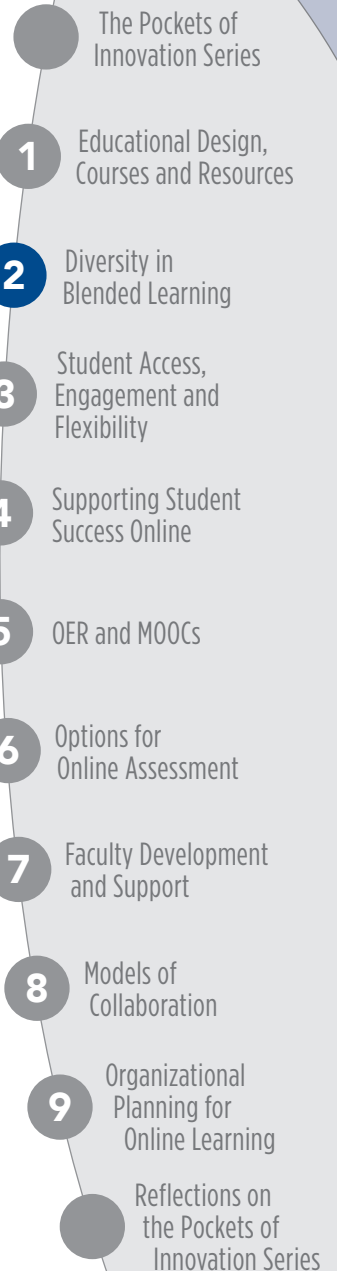
University of Prince Edward Island

[The Use of Blogs and Virtual Posters in a Hybrid Course on Issues in Children's Health and Development at the University of Prince Edward Island](#)

Colleges and Universities from Around the World Featured in this Theme

Università Ca' Foscari, Italy

[Blending Ancient and Modern: Using MOOCs and Blended Learning to Teach Babylonian Cuneiform Writing at the Università Ca' Foscari in Italy](#)

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- The Pockets of Innovation Series
 - 1 Educational Design, Courses and Resources
 - 2 Diversity in Blended Learning
 - 3 Student Access, Engagement and Flexibility
 - 4 Supporting Student Success Online
 - 5 OER and MOOCs
 - 6 Options for Online Assessment
 - 7 Faculty Development and Support
 - 8 Models of Collaboration
 - 9 Organizational Planning for Online Learning
 - Reflections on the Pockets of Innovation Series



Theme 3 Student Access, Engagement and Flexibility

[Multiple Formats](#)

[Online Programs](#)

[Interaction and Engagement](#)

[New Formats](#)

[Synchronous Teaching and Learning](#)

[Building Knowledge and Community](#)

[Social Media](#)

- The Pockets of Innovation Series
- 1 Educational Design, Courses and Resources
- 2 Diversity in Blended Learning
- 3 Student Access, Engagement and Flexibility
- 4 Supporting Student Success Online
- 5 OER and MOOCs
- 6 Options for Online Assessment
- 7 Faculty Development and Support
- 8 Models of Collaboration
- 9 Organizational Planning for Online Learning
- Reflections on the Pockets of Innovation Series

Theme 3

Student Access, Engagement and Flexibility

In online learning, new pedagogies focus on student-centered learning with increased options for access to learning, use of resources, interaction and engagement, styles of teaching and learning, with enhanced opportunities to learn about content and technologies and for access to experts and students in other locations.

This summary focuses on the creative designs for online learning featured in the Pockets of Innovation Series exemplifying each of these concepts.

Multiple Formats: In an approach found particularly in examples from public colleges in northern Ontario, courses are offered in multiple formats, often allowing the students to choose how they attend each class. The availability of the lectures and resource material online means time for learning and chosen delivery method are flexible to better suit student schedules.

Among the wide options of formats made available through varied delivery models from [Cambrian College](#), [Canadore College](#), [Collège Boréal](#), [Confederation College](#), [Northern College](#) and [Sault College](#) are:

- Online programs and courses developed at each college for students at home, in synchronous formats;
- Online programs and courses developed at each college for students at home, in asynchronous formats;
- Synchronous web conferencing, videoconferencing and/or audioconferencing available through Contact North | Contact Nord's 116 online learning centres;
- Access to recorded lectures for the students to view online at their convenience;
- Blended courses combining online content from another college and on-campus active learning;
- Courses from other colleges assessed for equivalency and taken online for program credit;
- DVDs provided for students in areas with limited bandwidth;
- Courses offered online synchronously and asynchronously which are also available in face-to-face classes; and
- Students able to choose which format to use on a rotating basis to suit their weekly schedules, alternating between in-class attendance and synchronous and asynchronous participation in virtual classrooms.

[Dalhousie University](#) in Nova Scotia, Canada offers its large enrollment anatomy course online, with lectures, demonstrations and exercises, supplemented by the option of attending the live class lectures. In New

-
- 1 Educational Design, Courses and Resources
 - 2 Diversity in Blended Learning
 - 3 Student Access, Engagement and Flexibility
 - 4 Supporting Student Success Online
 - 5 OER and MOOCs
 - 6 Options for Online Assessment
 - 7 Faculty Development and Support
 - 8 Models of Collaboration
 - 9 Organizational Planning for Online Learning
 - Reflections on the Pockets of Innovation Series

Brunswick, Canada, [Yorkville University](#) set up online supports and supervision for students during extensive practicum in their degree programs. Business Administration students at [Laval University](#) in Québec, Canada can choose between attending live lectures or viewing the classes, either synchronously or in their own time, supplemented with online activities.

[Bow Valley College](#) in Alberta, Canada, the pilot stage of offering face-to-face, online synchronous and asynchronous options in a single course reveals the need for structured flexibility and clearly specified strategies for students.

Faculty and instructors at [University College of the North](#) in Manitoba implement a wide variety of formats to best serve students within their vast catchment area, adapting appropriate technology to match students needs and content.

Common courses in anatomy and physiology at [Assiniboine Community College](#) in Manitoba are offered in different formats, designed to best suit the specific needs of the students and the programs.

At the [University of the Highlands and Islands](#) in Scotland, programs are in the format that best suits the content and students, ranging from local programs, to learning in the field, multiple campus and off-campus offerings, all supported through technology.

Online Programs: The [Pockets of Innovation Series](#) highlights a number of complete degree programs available online, particularly in health sciences and education.

Graduate degrees available online through Ontario universities include the interdisciplinary Master of Health Management from [McMaster University](#), and the problem-based, synchronous Master's degree in Education and Digital Technologies at the [University of Ontario Institute of Technology](#). The [University of Ottawa](#) provides courses to and uses partner courses from a national online consortium offering French-language professional development programs in health.

In Ontario, collaboration between [Northern College and Queen's University](#) in Ontario offers college mining technician graduates an opportunity to complete a mining degree program. [Lakehead University](#) offers complete online programs in nursing, gerontology studies, and a Master's in Public Health, while [Nipissing University](#) works with partners across Ontario so students in the online Bachelor of Science in Nursing can complete the practicum in their own communities. These online programs are of particular benefit to students in northern and Aboriginal communities.

Interaction and Engagement: The lack of direct contact is often cited as a limitation of online learning: to address this challenge, faculty and instructors design diverse ways to ensure students connect with each other, the professor, and the content.

-
- C** CONTENT
 - The Pockets of Innovation Series
 - 1** Educational Design, Courses and Resources
 - 2** Diversity in Blended Learning
 - 3** Student Access, Engagement and Flexibility
 - 4** Supporting Student Success Online
 - 5** OER and MOOCs
 - 6** Options for Online Assessment
 - 7** Faculty Development and Support
 - 8** Models of Collaboration
 - 9** Organizational Planning for Online Learning
 - Reflections on the Pockets of Innovation Series

Examples from Ontario colleges include a course in art history at [Durham College](#), which not only facilitates student interaction in assignments and projects, but also stresses the creation of a social presence by each student and a design that fosters interaction with the content. In a [Durham College](#) course in Women’s Studies, connections to the lives of the students and the material they previously studied guide the content, its presentation, and related activities. At [Cambrian College](#), eDome serves as a facility for delivery of all formats of distance education that link together students from multiple communities, as well as a production centre for sophisticated educational resources.

[Northern College](#) is designing courses to enhance flexibility, accessibility and personalization using open registration, asynchronous delivery, and content delivery in short, multimedia formats.

A course in Quebec history at [Carleton University](#) in Ontario concludes with an online debate that draws together all the key themes, and offers students experience in presenting and referencing points of view. In a graduate education course at Ontario’s [Western University](#), the focus is on making connections with people, content, new ideas, and the technology through collaborative learning, student development of content, professor as co-learner, and peer assessment. Many other courses integrate blogs, discussion groups, group assignments, break-out rooms, and other strategies for student cooperation and collaboration.

An International Human Rights course at the [University of Ottawa](#) links students, not only with each other, but also with human rights experts and practitioners from around the world.

The library at the [Open University](#), U.K. works to engage students through panels, social media, events and seminars, as well as embedding the principles of accessibility in all their services.

New Formats: At [La Cité](#) in Ontario, the design of student-centred, competency-based learning is based on key goals for instructional designers, clear differentiations between a focus on teachers and one on learners, and an analysis of essential components of competency-based pedagogy.

Canadian universities offer examples of using new formats to enhance student access and flexibility. Videos of specimens and models created on an iPhone for an anatomy class at the [University of Prince Edward Island](#) allow students to study and review as a supplement to lab-based learning. At [Université de Sherbrooke](#), Québec, iPads are used extensively by professors in the Department of Medicine to provide students with course notes, images, audio and video materials. Science students at [Simon Fraser University](#) in British Columbia have access to a specially designed dialectical map to help students state and sharpen their points of views on controversial questions. The [Justice Institute of British Columbia](#) uses a tool it designed to provide realistic training simulations for emergency management personal; the tool is now widely used in multiple professions.

-
- 1 Educational Design, Courses and Resources
 - 2 Diversity in Blended Learning
 - 3 Student Access, Engagement and Flexibility
 - 4 Supporting Student Success Online
 - 5 OER and MOOCs
 - 6 Options for Online Assessment
 - 7 Faculty Development and Support
 - 8 Models of Collaboration
 - 9 Organizational Planning for Online Learning
- The Pockets of Innovation Series
- Reflections on the Pockets of Innovation Series

A MOOC developed at the [Norwegian University of Science and Technology](#) offers students flexibility in start and exams dates, as well as the possibility of taking the course for credit after the successful completion of two modules. The [Technical University of Denmark](#) set up an online alternative to its face-to-face program that qualifies students with technical training and experience to apply for engineering degrees.

Synchronous Teaching and Learning: At Ontario public colleges and universities, such as the [University of Ontario Institute of Technology](#), professors take advantage of the immediacy and connections of synchronous online learning, integrating lectures, videos, break-out groups, class presentations, polls, discussions, and sharing of documents and resources in real-time. Immersive telepresence at [Lakehead University](#) allow interaction and exchange among students in classrooms on two campuses and remote learners.

At [Western University](#), students choose between an online, synchronous or in-class course in Human Anatomy, accompanied by an online lab using a virtual 3D slide set. Students in the Literacy and Basic Skills Program at [Confederation College](#) take courses from home or local Contact North | Contact Nord online learning centres, working online at their own pace in full-time daytime or part-time evening classes. The instructors are online for the same hours as the students to offer support and answer questions.

Students in the Master of Education program at [Brandon University](#), Canada participate in weekly or bi-weekly synchronous sessions combining presentations, breakout groups, videos for discussion, conversational facilitation and reflection.

Building Knowledge and Community: Online learning often involves students in the role of teacher as well as learner, with the professor becoming a guide and participant in the process.

In Ontario, online courses in medical studies at the [University of Toronto](#) are structured so the students work together to build knowledge through collaboration, using case studies, knowledge sharing and problem-solving. A course in Chinese language, also at the [University of Toronto](#), engages students in assessing which apps are most effective for language learning and practice. A design course at [George Brown College](#) uses the concept of student-created content to assess the latest design apps. At [Brock University](#), a community of practice is established so facilitators of the online adult education courses can share experiences, perspectives, and teaching and learning strategies to improve their students' performance. The establishment of a community of learners is core to student participation, with an emphasis on discussion boards and peer evaluation, in graduate education courses at [Nipissing University](#).

The [Centre for Technology, Education and Culture](#) in Israel uses a special design it created that brings together different cultural groups in small groups for online learning in education. A graduate education degree

-
- The Pockets of Innovation Series
 - 1 Educational Design, Courses and Resources
 - 2 Diversity in Blended Learning
 - 3 Student Access, Engagement and Flexibility
 - 4 Supporting Student Success Online
 - 5 OER and MOOCs
 - 6 Options for Online Assessment
 - 7 Faculty Development and Support
 - 8 Models of Collaboration
 - 9 Organizational Planning for Online Learning
 - Reflections on the Pockets of Innovation Series

program at the [University of Florida](#), USA, stresses the creation of online faculty, social, cognitive, and learner presence in a Community of Inquiry framework. [Kristiania University College](#) in Norway encourages collaboration and support among students in asynchronous courses with continuous entry through discussion groups, online introductions and encouraging exchange and peer review of assignments.

Social Media: Some online course designs feature social media as both content and vehicle for the learning. At [Durham College](#), a course in the use of social media for communication, collaboration, and education is adapted to fit into numerous programs. The learning and assignments are built around applications of various apps, applicable to each program field. In digital media courses at [Queen’s University](#), social media is used to encourage student participation, develop digital literacy, support collaborative and self-directed learning, and form the basis of the content and assignments. Marketing courses at [Seneca College](#) and Sports Ethics at the [University of Windsor](#) use Facebook, Twitter, and other apps for student interaction and content sharing. The Library at the [University of Toronto](#) Mississauga links with students through social media for information, feedback, and tutorials.

Online learning is firmly integrated in colleges and universities, offering students greater access, flexibility, participation in teaching and learning, and experiences not possible in a face-to-face classroom. Faculty adapt their thinking about how to teach, making creative use of the opportunities online learning provides.

Ontario Public Colleges and Universities Featured in this Theme

Brock University

[Facilitator Community of Practice: An online communications and information environment for facilitators of adult education programs](#)

Cambrian College

[eDome: A high-end facility for the production and delivery of enhanced online learning opportunities for students](#)

[Student Choice: Offering Multiple Course Design Options for Better Access and Learning at Cambrian College](#)

Canadore College

[Expanding Flexible Access in the School of Sports and Recreation at Canadore College](#)

Carleton University

[Increasing Student Enrolment, Retention, and Participation through Online Delivery of an Introduction to Québec Society Course at Carleton University](#)

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- C** CONTENT
 - The Pockets of Innovation Series
 - 1** Educational Design, Courses and Resources
 - 2** Diversity in Blended Learning
 - 3** Student Access, Engagement and Flexibility
 - 4** Supporting Student Success Online
 - 5** OER and MOOCs
 - 6** Options for Online Assessment
 - 7** Faculty Development and Support
 - 8** Models of Collaboration
 - 9** Organizational Planning for Online Learning
 - Reflections on the Pockets of Innovation Series

La Cité

[Designing and Developing Student-Centered, Competency-Based Online Learning at La Cité in Ottawa, Ontario, Canada](#)

Collège Boréal

[Matching Pedagogy and Technology: Providing student choice for effective learning at Collège Boréal](#)

Confederation College

[Reaching Out: Delivery options that provide anywhere, any time learning opportunities for students at Confederation College](#)

[Synchronous, Interactive, and Individual - Online learning opportunities for adults at Confederation College](#)

Durham College

[Designing Online Courses with Visual Stimulation to Enhance Student Engagement at Durham College](#)

[Developing Online Courses that Connect to Students' Lives at Durham College](#)

[Social Media and Society: Using social media for student learning about social media at Durham College](#)

George Brown College

[Student-Generated Course Content: A student-centred pedagogical model for teaching and learning](#)

Lakehead University

[From Access to Graduate Programs: An extensive array of learning opportunities for nursing and health science students](#)

[Using Immersive Telepresence Classrooms to Link Students on Two Campuses and throughout the Region at Lakehead University](#)

McMaster University

[Master of Health Management: Flexible learning for health care professionals](#)

Nipissing University

[Community of Learners: Supporting and assessing online communications with Faculty of Education graduate students at Nipissing University](#)

[Providing Access and Flexibility: Innovative learning opportunities for nursing students at Nipissing University](#)

- 1** Educational Design, Courses and Resources
- 2** Diversity in Blended Learning
- 3** Student Access, Engagement and Flexibility
- 4** Supporting Student Success Online
- 5** OER and MOOCs
- 6** Options for Online Assessment
- 7** Faculty Development and Support
- 8** Models of Collaboration
- 9** Organizational Planning for Online Learning
- Reflections on the Pockets of Innovation Series

Northern College

[A Collaboration Between Northern College in Haileybury, Canada and Queen’s University in Kingston, Canada Creates an Online Degree Program in Mining Engineering Technology](#)

[Designing Learner-Centered Online Programs Focused on Accessibility and Flexibility at Northern College, Ontario](#)

[Flexibility in the Design and Delivery of the Mining Engineering Technician Program at Northern College](#)

Queen’s University

[A Collaboration Between Northern College in Haileybury, Canada and Queen’s University in Kingston, Canada Creates an Online Degree Program in Mining Engineering Technology](#)

[Connected Teaching and Learning: Using online delivery and social media for more engaged and effective learning](#)

Sault College

[Offering alternatives - Enhancing student learning through flexible course delivery at Sault College](#)

Seneca College

[Integrating Facebook and Twitter: Helping Students Learn How to Learn Using Social Media at Seneca College](#)

University of Ontario Institute of Technology

[Developing Autonomous Learners: Degree programs in education and digital technologies](#)

[Graduate Degrees through Synchronous Online Learning at the University of Ontario Institute of Technology](#)

University of Ottawa

[Professional Development: Developing Online Resources for Health Professionals](#)

[A Course in Introduction to International Human Rights at the University of Ottawa, Ontario Demonstrates a Successful Shift to Online Learning](#)

University of Toronto

[Choosing the Most Effective Tools for Technology-Enhanced Teaching and Learning in Chinese Language Courses at the University of Toronto Mississauga, Canada](#)

[Engaging with Students through Social Media: The University of Toronto Mississauga Library Integrates New Ways of Communicating](#)

[Knowledge Building: Using online environments for case-based learning in the health sciences](#)

- The Pockets of Innovation Series**
- 1** Educational Design, Courses and Resources
- 2** Diversity in Blended Learning
- 3** Student Access, Engagement and Flexibility
- 4** Supporting Student Success Online
- 5** OER and MOOCs
- 6** Options for Online Assessment
- 7** Faculty Development and Support
- 8** Models of Collaboration
- 9** Organizational Planning for Online Learning
- Reflections on the Pockets of Innovation Series

University of Windsor

[Using Twitter in the Classroom for Student Engagement and Exchange at University of Windsor](#)

Western University

[Online Microscopic Anatomy Laboratory Courses – Including Virtual Microscopy Slides – at Western University](#)

[Teaching in a Virtual World: Students connecting as online teachers and learners in the Faculty of Education at Western University](#)

Cross Canada Colleges and Universities Featured in this Theme

Assiniboine Community College, Manitoba

[Using Humour and Multiple Delivery Modes to Teach Anatomy and Physiology at Assiniboine Community College, Brandon, Manitoba](#)

Bow Valley College, Alberta

[Developing and Delivering Hybrid Flexible Learning Opportunities at Bow Valley College, Calgary, Alberta, Canada](#)

Brandon University, Manitoba

[Using Web-based Vide Conferencing for Online Graduate Courses in Education at Brandon University, Manitoba, Canada](#)

Dalhousie University, Nova Scotia

[Teaching an Online Large Enrolment Course in Anatomy at Dalhousie University, Nova Scotia, Canada](#)

Justice Institute of British Columbia

[Praxis: An Online Simulation Training Environment for Scenario-Based Real-Time Decision-Making at the Justice Institute of British Columbia, British Columbia](#)

Laval University, Québec

[L’Enseignement Comodal: Dual Mode Teaching in Business Administration at Laval University, Québec](#)

Simon Fraser University, British Columbia

[Developing Skills of Argumentation in Undergraduate Science Students Through the Use of an Online Dialectical Map at Simon Fraser University, British Columbia](#)

Université de Sherbrooke, Québec

[Using iBook Author and iPads to Manage Content for Pre-Medical Students and Faculty at the Department of Medicine, Université de Sherbrooke, Québec](#)

University College of the North, Manitoba

[Reaching Remote Students with Appropriate Technology and Course Design at the University College of the North, Manitoba, Canada](#)

- 1** Educational Design, Courses and Resources
- 2** Diversity in Blended Learning
- 3** Student Access, Engagement and Flexibility
- 4** Supporting Student Success Online
- 5** OER and MOOCs
- 6** Options for Online Assessment
- 7** Faculty Development and Support
- 8** Models of Collaboration
- 9** Organizational Planning for Online Learning
- Reflections on the Pockets of Innovation Series

University of Prince Edward Island

[Using QR Codes and Mobile Phones for Teaching Gross Anatomy at the University of Prince Edward Island](#)

Yorkville University, New Brunswick

[Developing Practica for an Online Masters of Arts in Counselling Psychology at Yorkville University, New Brunswick](#)

Colleges and Universities from Around the World Featured in this Theme

Centre for Technology, Education and Cultural Diversity, Israel

[Multicultural Collaborative Online Learning and Teaching Designed and Implemented by the Centre for Technology, Education and Cultural Diversity in Israel](#)

Kristiania University College, Norway

[Innovations in Student Interaction, Support, and Evaluation at Kristiania University College in Norway](#)

Norwegian University of Science and Technology, Norway

[Creating a MOOC that Emphasizes Flexibility for Students at the Norwegian University of Science and Technology, Norway](#)

Open University, UK

[Digital by Design: Library Services at the Open University, United Kingdom](#)

Technical University of Denmark

[An Online Admissions Program Expands Access to Engineering Degrees at Technical University of Denmark](#)

University of Florida, USA

[Creating Presence in an Online Doctoral Program at the University of Florida](#)

University of the Highlands and Islands, Scotland

[Enhancing Student Learning, Curriculum Resources, Staff Development, and Employer Satisfaction in the Educational Development Unit at the University of the Highlands and Islands, Scotland](#)

- The Pockets of Innovation Series
- 1 Educational Design, Courses and Resources
- 2 Diversity in Blended Learning
- 3 Student Access, Engagement and Flexibility
- 4 Supporting Student Success Online
- 5 OER and MOOCs
- 6 Options for Online Assessment
- 7 Faculty Development and Support
- 8 Models of Collaboration
- 9 Organizational Planning for Online Learning
- Reflections on the Pockets of Innovation Series



Theme 4 Supporting Student Success Online

[How to Use Technology Effectively](#)

[How to Be a Successful Student](#)

[Supplementary Learning](#)

[Linking to Outside Sources](#)

- The Pockets of Innovation Series
- 1 Educational Design, Courses and Resources
- 2 Diversity in Blended Learning
- 3 Student Access, Engagement and Flexibility
- 4 Supporting Student Success Online**
- 5 OER and MOOCs
- 6 Options for Online Assessment
- 7 Faculty Development and Support
- 8 Models of Collaboration
- 9 Organizational Planning for Online Learning
- Reflections on the Pockets of Innovation Series

Theme 4

Supporting Student Success Online

Student achievement is facilitated not only through the provision of quality online programs and courses, but also by delivering a wide range of online services supporting development of academic and personal skills essential for post-secondary success. Students require resources beyond those offered in course content to be effective learners. The development of these tools is undertaken by faculty and instructors, as well as staff in centres for teaching and learning, libraries, and student support centres.

The resources developed in Ontario and around the world for online student support differ in content, approach, and complexity, but they all address needs for support as independent and successful learners.

How to Use Technology Effectively: Developers recognize that not all students are so-called digital natives, and some require assistance with adopting technologies, especially for academic purposes. To respond to this, resources from short videos to full modules demonstrate how to access key services such as registration, financial aid, e-mail and other communication systems, as well as how to maneuver through the learning management system (LMS) and course materials. Resources available at [Algonquin College](#) and [Sir Sandford Fleming College](#) provide examples of these services for students. Participation in discussion boards, online test-taking and assignment delivery, and the use of search engines and various media sources are now essential skills and practical online tools guide students through their effective use. Just-in-time resources provide guidance, with infinite patience, for those uncomfortable or unfamiliar with technology.

[Ryerson University](#) offers a Digital Media Zone that provides students with support in developing digital and business skills by supporting start-up ideas.

How to Be a Successful Student: Examples from Ontario colleges and universities illustrate resources to help students with skills for successful learning, such as research, writing, presentation development, time management, note-taking, and studying. [Niagara College](#) provides a full course, offered for credit, to help students develop these skills. Students in Literacy and Basic Skills Programs at [Confederation College](#), offered online in synchronous format, work through resources and exercises on an individual basis, aided by the constant online presence of instructors for support, clarification, and problem-solving. Individual counselling and program pathways, such as those offered at [Northern College](#), support online learning success. At [Cambrian College](#), online tutoring supplements the face-to-face service, extending the availability of the support to evenings and weekends, serving students at home. [Northern College](#) provides anywhere, anytime online tutoring from a live, online tutor.

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- The Pockets of Innovation Series
 - 1 Educational Design, Courses and Resources
 - 2 Diversity in Blended Learning
 - 3 Student Access, Engagement and Flexibility
 - 4 Supporting Student Success Online
 - 5 OER and MOOCs
 - 6 Options for Online Assessment
 - 7 Faculty Development and Support
 - 8 Models of Collaboration
 - 9 Organizational Planning for Online Learning
 - Reflections on the Pockets of Innovation Series

More examples from Ontario institutions include engineering programs at [Queen's University](#) in which essential learning and information literacy skills are integrated into the design of courses. At [McMaster University](#), modules address both information and geospatial literacy. Rather than taking part in a one-time, face-to-face presentation on the topic, students have access to extensive sources they can consult at their own time and pace to address learning challenges. Course rubrics that clearly state and exemplify expectations, such as those used at [Nipissing University](#), offer guidance and points of reference to improve student performance and confidence.

Many of these tools are accessible to all students being openly available on Ontario public college and university websites, including the [University of Ontario Institute of Technology](#) and [York University](#). They may also be organized for multiple uses, by students working on their own, students working with staff in the student centre, or for faculty to integrate into course content or assignments. For some specific applications, including for students preparing for or participating in co-op placements at the [University of Waterloo](#) and the [University of Ottawa](#), resources also focus on workplace readiness and skills, such as project management and collaboration.

Faculty and instructors offer online office hours, such as through the use of Skype at [Algoma University](#), often in the evening so instructors can work through problems with students while they are studying rather than waiting until the next class. As an additional tool, frequently asked questions are put into a database, with their answers, for all students to consult, providing another source of immediate support.

An open educational resource at the [University of Ottawa](#) is adaptable to any program and designed to meet multiple purposes - helping student know what and how to learn, as well as how to manage and balance course and life demands.

The [National Distance Education University](#) in Spain offers a program of supports and adaptations for disabled learners, as well as a detailed process that stresses cross-institutional cooperation and consultation with each student. An open resource Student Tool Box from [Dublin City University](#), Ireland offers resources and key questions to guide adults deciding on and starting post-secondary education.

Information literacy modules for students in online master programs at [Wageningen University & Research](#) in The Netherlands include practical exercises enhanced by peer and instructor feedback.

The [University of Brighton](#) in England is working with its existing learning analytics data to assess their usefulness for better understanding of, as well as communication and interactions with, students. A Student Dashboard shares analytics with students.

-
- 1 Educational Design, Courses and Resources
 - 2 Diversity in Blended Learning
 - 3 Student Access, Engagement and Flexibility
 - 4 Supporting Student Success Online
 - 5 OER and MOOCs
 - 6 Options for Online Assessment
 - 7 Faculty Development and Support
 - 8 Models of Collaboration
 - 9 Organizational Planning for Online Learning
- Reflections on the Pockets of Innovation Series

Supplementary Learning: Innovative responses to the need for supplementary learning address the common challenges of students arriving from secondary school unprepared for the content demands of first-year mathematics, chemistry, and other subjects, in addition to supporting students at all levels who need additional practice and support throughout their courses. Examples of these tools are available for accounting students at [Carleton University](#), in calculus at [Queen’s University](#), and in mathematics at [Wilfrid Laurier University](#).

The modules provide not only questions and answers, but also analysis of individual errors and links to question banks providing additional practice in areas of weakness. Research conducted on the success of students who work through these supplementary tools demonstrates significant improvements in grades.

Language learning also features widely used supplementary learning tools. Mobile language learning is effective and popular with English-as-an-additional-language students, often involving exercises that send them out into their communities to talk with residents to get necessary information. [George Brown College](#) in Ontario uses this approach in its blended learning language courses. Ontario’s [University of Ottawa](#) and [Carleton University](#) provide online support in vocabulary, speaking, listening and writing for Francophone and French as a Second Language students. These resources can be integrated for class use or serve as tools for self-directed learning.

At the [University of Barcelona](#) in Spain, students have access to modules from a private company for language learning, to be used for learning outside of their registered courses.

Using a project team approach, [Memorial University](#), Canada, is designing online biology tutorials providing first-year students with multimedia content and activities to help them master the concepts they find most difficult.

A fully online resource at the [University of Manitoba](#), Canada, offers self-paced, multiple media content and practice for students needing extra help with basic mathematics or a review of concepts already learned.

Linking to Outside Sources: Faculty and instructors often provide online links to materials from a much wider variety of sources than would be accessible in a classroom or within required readings, thereby expanding not only points of view but also styles of presentation. The supplementary use of YouTube videos, materials provided by publishers, sections of Massive Open Online Courses (MOOCs), photographs, and original archives allows students who prefer visual, sequential, or other approaches to learning to find what best suits their learning needs. The [Open University of Catalonia](#) in Spain has developed an online course template that links to both internal and external resources, offering students guidance on how long each resource requires for effective learning, as well as which core competencies it aids in developing.

-
- 1 Educational Design, Courses and Resources
 - 2 Diversity in Blended Learning
 - 3 Student Access, Engagement and Flexibility
 - 4 Supporting Student Success Online
 - 5 OER and MOOCs
 - 6 Options for Online Assessment
 - 7 Faculty Development and Support
 - 8 Models of Collaboration
 - 9 Organizational Planning for Online Learning
 - Reflections on the Pockets of Innovation Series

The key points the educators make about the importance of online provision of student support services are that the resources and services must be accessible when and where the students need them – the just-in-time factor – and they must accommodate the pace, repetition, choice of emphasis, and preferred learning approach each student adopts for optimum learning.

Ontario Public Colleges and Universities Featured in This Theme

Algoma University

[Moving to Digital: Introducing online resources for student learning and research](#)

Algonquin College

[Moving Ahead with the Digital College: Mobile learning, open educational resources, and online and hybrid learning at Algonquin College](#)

Cambrian College

[Reaching Out to Students at Home: Online Tutoring at Cambrian College](#)

Confederation College

[Synchronous, Interactive, and Individual - Online learning opportunities for adults at Confederation College](#)

Carleton University

[Improving Student Success in Financial Accounting with Online Learning at Carleton University](#)

[VidéoTech: Creating and sharing online learning materials for French-as-a-second-language students by Carleton University and the University of Ottawa](#)

George Brown College

[Blended Courses for Practical Language Learning at George Brown College](#)

McMaster University

[Expanding Literacy: Online resources in information and geospatial literacy for students](#)

Niagara College

[Commitment to Students and Excellence: Developing self-directed learners through iLearn at Niagara College](#)

Nipissing University

[Community of Learners: Supporting and assessing online communications with Faculty of Education graduate students at Nipissing University](#)

Northern College

- 1** Educational Design, Courses and Resources
- 2** Diversity in Blended Learning
- 3** Student Access, Engagement and Flexibility
- 4** Supporting Student Success Online
- 5** OER and MOOCs
- 6** Options for Online Assessment
- 7** Faculty Development and Support
- 8** Models of Collaboration
- 9** Organizational Planning for Online Learning
- Reflections on the Pockets of Innovation Series

[Mining technician at Northern: Flexibility in the Design and Delivery of the Mining Engineering Technician Program at Northern College](#)

[Online Design and Development Focused on Student Access and Learning at Northern College](#)

Queen’s University

[Developing a Blended Learning Course for More Engaged Learning in Calculus at Queen’s University](#)

[Integrating Information Literacy into Course Design and Delivery: Engineering students learn about information search and management as a part of professional engineering skills](#)

Ryerson University

[Digital Media Zone: An incubator for business development and learning for digital entrepreneurs](#)

Sir Sandford Fleming College

[Before, During, and After Class: Online resources for students and faculty](#)

University of Ontario Institute of Technology

[nool.ca: Providing support via the web for math and writing skills for first-year students](#)

University of Ottawa

[Beyond the Classroom: Providing student support services through online resources for learning](#)

[Developing and Integrating an Open Educational Resources to Equip Students for Better Learning at the University of Ottawa, Ontario, Canada](#)

University of Waterloo

[Skills for the Workplace: Professional development for co-op students on work placement at the University of Waterloo](#)

Wilfrid Laurier University

[Mathematics Online – The Supplementary Module Program for Calculus at Wilfrid Laurier University](#)

Cross Canada Colleges and Universities Featured in this Theme

Memorial University, Newfoundland and Labrador

[Online Biology Tutorials Support Student Engagement and Success at Memorial University, Newfoundland and Labrador, Canada](#)

University of Manitoba

[Teaching and Supporting Basic Math Online for Students at the University of Manitoba, Canada](#)

- 1** Educational Design, Courses and Resources
- 2** Diversity in Blended Learning
- 3** Student Access, Engagement and Flexibility
- 4** Supporting Student Success Online
- 5** OER and MOOCs
- 6** Options for Online Assessment
- 7** Faculty Development and Support
- 8** Models of Collaboration
- 9** Organizational Planning for Online Learning
- Reflections on the Pockets of Innovation Series

York University

[SPARK, the Virtual Learning Commons: An online resource for academic literacy at York University](#)

Colleges and Universities from Around the World Featured in this Theme

Brighton University, England

[Learner Analytics for Students to Encourage Better Results and Retention at the University of Brighton, England](#)

Dublin City University, Ireland

[Dublin City University Leads the Development of a Student Success Toolbox for Adults Considering Post-Secondary Education](#)

National Distance Education University, Spain

[Supporting Success for Students with Disabilities at the National Distance Education University \(UNED\) in Spain](#)

Open University of Catalonia, Spain

[Challenge-Based Online Learning to Develop Essential Competencies at the Open University of Catalonia, Barcelona, Spain](#)

University of Barcelona, Spain

[Providing and Supporting Self-Access Language Learning at the University of Barcelona, Spain](#)

Wageningen University & Research, The Netherlands

[Providing Information Literacy Training Online for Master's Degree Students at Wageningen University & Research, The Netherlands](#)

-
- 1 Educational Design, Courses and Resources
 - 2 Diversity in Blended Learning
 - 3 Student Access, Engagement and Flexibility
 - 4 Supporting Student Success Online
 - 5 OER and MOOCs
 - 6 Options for Online Assessment
 - 7 Faculty Development and Support
 - 8 Models of Collaboration
 - 9 Organizational Planning for Online Learning
- The Pockets of Innovation Series
- Reflections on the Pockets of Innovation Series



Theme 5 OER and MOOCs

[MOOCs for Open Learning](#)

[Dual Purpose MOOCs](#)

[Integrating MOOCs](#)

[Open Educational Resources](#)

- The Pockets of Innovation Series
- 1 Educational Design, Courses and Resources
- 2 Diversity in Blended Learning
- 3 Student Access, Engagement and Flexibility
- 4 Supporting Student Success Online
- 5 OER and MOOCs**
- 6 Options for Online Assessment
- 7 Faculty Development and Support
- 8 Models of Collaboration
- 9 Organizational Planning for Online Learning
- Reflections on the Pockets of Innovation Series

Theme 5

OER and MOOCs

For the past few years, Open Educational Resources (OER) and, especially, Massive Open Online Courses (MOOCs) have attracted academic and media attention. Both are part of an ‘open education’ movement that offers students and faculty access to free resources for integration into courses and supplementary learning, as well as self-directed, interest-based learning.

While much of the initial excitement about the potential of MOOCs to radically modify higher education has dissipated, educators are developing MOOCs to reach and serve new student groups, blend credit and non-credit learning and raise their institutional profile. MOOCs are being re-designed, often with the modification of the “massive” component, to serve smaller, more specialized educational purposes.

OER include a multitude of resources from taped lectures to high-end simulations and games with the defining characteristic that they can be freely adopted and adapted, with appropriate credit, for learning anywhere in the world, whether by faculty or individual students.

MOOCs for Open Learning: As a way of reaching new students and expanding their profiles, many institutions experimented with MOOCs. At [Fanshawe College](#) in Ontario, a MOOC on the societal and practical aspects of sustainability offers four levels of achievement, depending on the student level of involvement and commitment.

As an early member of the MOOC consortium Coursera, the [University of Toronto](#) in Ontario developed five MOOCs in a variety of disciplines to assess designs, registrations, time commitments and multiple other factors.

At [l'Université du Québec à Trois-Rivières](#) in Québec, Canada, a French-language MOOC on personal finance drew in registrants from 20 countries, while one on play for early childhood education has in participants with both personal and professional interest in the topic.

A MOOC on the ancient cuneiform system of writing is offered at [Università Ca' Foscari](#) in Italy to provide prospective students with an introduction to the field and for the general public to learn about and create the symbols they see in museums. [Dublin City University](#) in Ireland offers MOOCs with topics related to Ireland, including language, literature, history, music and conflict resolution. The Irish language MOOC emphasizes active learning.

MOOCs at the [University of Geneva](#) in Switzerland integrate Massive Open Online Research Projects in such fields as astronomy and literature to provide real-life research experiences to participants.

-
- 1 Educational Design, Courses and Resources
 - 2 Diversity in Blended Learning
 - 3 Student Access, Engagement and Flexibility
 - 4 Supporting Student Success Online
 - 5 OER and MOOCs**
 - 6 Options for Online Assessment
 - 7 Faculty Development and Support
 - 8 Models of Collaboration
 - 9 Organizational Planning for Online Learning
 - Reflections on the Pockets of Innovation Series

Research studies at the [Open University of the Netherlands](#) and the University of Utrecht focus on self-regulation, measures of success and scalable peer assessment for MOOC students, as well as the impact of open online initiatives on organizational development and innovation.

Led by [Erasmus University](#) in The Netherlands, three universities and the public broadcaster collaborated to develop three Massive Open Online Courses from the video material created for a TV series on The Mind of the Universe, The [Open University of the Netherlands](#) coordinated an international research study to determine and present principles and strategies for design and quality for open education and massive open online courses.

Dual Purpose MOOCs: Several institutions offer MOOCs as a free resource to the general public, while offering students the option to register and complete assignments for credit. At [Cape Breton University](#) in Canada, a dual-purpose MOOC addresses recommendation from the Truth and Reconciliation Commission on the need for more education for and about Aboriginal peoples and their cultures. The public participate in a face-to-face classroom streamed internationally and interact through social media.

The Business School at [Karlstads University](#) in Sweden works with the Service Research Centre on a series of MOOCs available as credit and non-credit offerings, featuring videos and other resources integrated as OER. The focus is on applying the learning to each participant's workplace. Students in a MOOC for secondary school teachers from the [Norwegian University of Science and Technology](#) are offered the option of registering for credit after completion of the first three modules.

Integrating MOOCs: In the Faculty of Education at the [University of Iceland](#), students, as one of their course assignments, chose a topic-related MOOC to analyze for structure, support and pedagogical approach, as well as content.

Open Educational Resources: At [Durham College](#) in Ontario, a course teaching about HTML was built using open educational resources that met all of the requirements for quality, currency and accessibility. The [University of Ottawa](#) offers English and French web sites featuring open educational resources to help student learn core concepts, nomenclature and essential processes in organic chemistry..

In France, funding from the [Ministry of Higher Education and Research](#) supports eight digital thematic universities, composed of existing institutions and organizations, which have created over 34,000 OER, including MOOCs, available on a single portal in multiple languages.

The [University of the Highlands and Islands](#) in Scotland offers, in partnership with American and New Zealand partners, an open resource six-course Higher Education Certificate Program in Business as an OER, available through OERu. Students can choose to pay for assessment, making them eligible for a Certificate from the University.

-
- The Pockets of Innovation Series
 - 1 Educational Design, Courses and Resources
 - 2 Diversity in Blended Learning
 - 3 Student Access, Engagement and Flexibility
 - 4 Supporting Student Success Online
 - 5 OER and MOOCs**
 - 6 Options for Online Assessment
 - 7 Faculty Development and Support
 - 8 Models of Collaboration
 - 9 Organizational Planning for Online Learning
 - Reflections on the Pockets of Innovation Series

Students at the [University of St. Gallen](#), Switzerland designed open educational resources as part of a gaming toolbox for learning about the insurance industry. The OERS include quizzes, discussions, action activities and simulations.

Ontario Public Colleges and Universities Featured in This Theme

Durham College

[Developing a Course Using Open Educational Resources at Durham College, Oshawa, Ontario](#)

Fanshawe College

[Designing and Offering a Massive Open Online Course \(MOOC\) at Fanshawe College](#)

University of Ottawa

[Developing Open Educational Resources in French and English for Students of Organic Chemistry at the University of Ottawa, Canada](#)

University of Toronto

[Massive Open Online Courses \(MOOCs\) – The First Steps at the University of Toronto](#)

Cross Canada Colleges and Universities Featured in this Theme

Cape Breton University, Nova Scotia

[Using Open Education at Cape Breton University, Nova Scotia, Canada, to Engage with The Truth and Reconciliation Commission’s Call to Support Healing, Dialogue, and Learning for First Nations](#)

Université de Montréal

[A Web-Based Expert System for Designing Instructional Scenarios from Université de Montréal, Québec](#)

Université du Québec à Trois-Rivières

[Francophone MOOCs with High Completion Rates from the Université du Québec à Trois-Rivières](#)

Colleges and Universities from Around the World Featured in this Theme

Dublin City University, Ireland

[Designing, Implementing and Evaluating Contemporary Models of Teaching and Learning at the National Institute for Digital Learning at Dublin City University, Ireland](#)

Erasmus University, The Netherlands

[A Unique Television Series Becomes Three Online Learning Experiences from Erasmus University Rotterdam, Delft University of Technology and Leiden University in The Netherlands](#)

The Pockets of Innovation Series

1 Educational Design, Courses and Resources

2 Diversity in Blended Learning

3 Student Access, Engagement and Flexibility

4 Supporting Student Success Online

5 OER and MOOCs

6 Options for Online Assessment

7 Faculty Development and Support

8 Models of Collaboration

9 Organizational Planning for Online Learning

Reflections on the Pockets of Innovation Series

Karlstads University, Sweden

[Developing Hybrid MOOCs to Serve Diverse Learners at Karlstads University, Sweden](#)

Ministry of Higher Education and Research, France

[Available to All – One Portal Featuring More than 34,000 Open Educational Resources Developed by Universities in France](#)

Norwegian University of Science and Technology, Norway

[Creating a MOOC that Emphasizes Flexibility for Students at the Norwegian University of Science and Technology, Norway](#)

Open University of the Netherlands

[Open Online Education Research Focused on Students, Course Design and Higher Education Institutions at the Open University of the Netherlands](#)

[Quality and Design for Open Education and Massive Open Online Courses: Collaborative Research Coordinated by the Open University of The Netherland](#)

Università Ca' Foscari, Italy

[Blending Ancient and Modern: Using MOOCs and Blended Learning to Teach Babylonian Cuneiform Writing at the Università Ca' Foscari in Italy](#)

University of Geneva, Switzerland

[Integrating Massive Open Online Research Exercises into MOOCs to Benefit Students and Researchers at the University of Geneva, Switzerland](#)

University of Iceland

[Integrating MOOCs into Credit Courses at the University of Iceland](#)

University of St Gallen, Switzerland

[Developing a Gaming Toolbox for Increased Learner Engagement at the University of St. Gallen, Switzerland](#)

University of the Highlands and Islands, Scotland

[Creating Policies and Initiatives at a University with 13 Partner Institutions: Academic Development at the University of the Highlands and Islands, Scotland](#)

- The Pockets of Innovation Series
- 1 Educational Design, Courses and Resources
- 2 Diversity in Blended Learning
- 3 Student Access, Engagement and Flexibility
- 4 Supporting Student Success Online
- 5 OER and MOOCs
- 6 Options for Online Assessment
- 7 Faculty Development and Support
- 8 Models of Collaboration
- 9 Organizational Planning for Online Learning
- Reflections on the Pockets of Innovation Series



Theme 6 Options for Online Assessment

[Timeliness](#)

[Extending Access](#)

[Encouraging Mastery Learning](#)

[Encouraging Participation](#)

[Peer Assessment](#)

[Fostering Skill Development](#)

[Highlighting Achievements](#)

[Faculty Benefits](#)

- The Pockets of Innovation Series
- 1 Educational Design, Courses and Resources
- 2 Diversity in Blended Learning
- 3 Student Access, Engagement and Flexibility
- 4 Supporting Student Success Online
- 5 OER and MOOCs
- 6 Options for Online Assessment
- 7 Faculty Development and Support
- 8 Models of Collaboration
- 9 Organizational Planning for Online Learning
- Reflections on the Pockets of Innovation Series

Theme 6

Options for Online Assessment

In the new pedagogy of online learning, assessment has been expanded beyond papers, tests, and final exams that evaluate learning. Online assessment has become a critical learning tool that:

- Provides timely and detailed feedback;
- Targets learning to each student's area of need;
- Facilitates peer assessment; and
- Encourages the development of new skills.

This summary highlights the creative approaches to online assessment and evaluation for enhanced learning and improved student grades presented in the [Pockets of Innovation Series](#).

Timeliness: One factor students most appreciate about online marking, as shown at Ontario universities and colleges such as the [University of Ottawa](#) and [University of Waterloo](#), is the fast turn-around time, often as short as 24 hours. Assignments with individually-assessed essays and short answers, as well as those with machine-marked multiple-choice questions, are returned more quickly. At the Canadian Food and Wine Institute at [Niagara College](#), a commercial product is used to take photographs and videos of student work and faculty provide personalized feedback in real time.

Professors prepare rubrics and comments that address common errors and issues, an approach used at the [Ontario College of Art and Design University](#), and supplement these with individualized feedback for specific points. Students appreciate being able to incorporate the results of one assignment into preparing the next. Software developed at the [University of Toronto](#) organizes marking by large numbers of geographically-scattered markers, allowing quick turn-around of thousands of exams.

A research project headed by [Dublin City University](#) in Ireland look at using analytics of participation rates to determine and reach out to struggling students; a second project assessed the impact of online feedback on first-year student success.

Extending Access: [Northern College](#) offers a system of online proctoring that allows students in remote locations to complete monitored exams in their communities. To limit time for the consultation of resources, institutions allow limited, timed access to exams, so they can be completed online rather than requiring attendance at institutional exam centres. At the [University of Ottawa](#), technologies to support exam-taking by students with disabilities are tested.

-
- The Pockets of Innovation Series
 - 1 Educational Design, Courses and Resources
 - 2 Diversity in Blended Learning
 - 3 Student Access, Engagement and Flexibility
 - 4 Supporting Student Success Online
 - 5 OER and MOOCs
 - 6 Options for Online Assessment
 - 7 Faculty Development and Support
 - 8 Models of Collaboration
 - 9 Organizational Planning for Online Learning
 - Reflections on the Pockets of Innovation Series

Encouraging Mastery Learning: Online tools that allow students to assess, improve, and re-assess their own learning are particularly effective in improving test results and final grades. Pre-tests reveal areas of weaknesses, accompanied by modules with instruction, demonstrations, and extensive banks of practice questions and explained answers. Students can repeat and re-test until achieving the necessary mastery.

Ontario colleges and universities offer examples of online support for mastery learning. For graded tests in Accounting at [Carleton University](#), students can repeat the tests, responding to randomly generated questions and receiving feedback on their attempts, with the machine choosing the best results to submit for final grades. At [Carleton University](#), the resources used for mastery learning in Chemistry are available from a publisher; the modules for Mathematics at [Wilfrid Laurier University](#) are created in-house. At [Durham College](#), online worksheets offer practice as preparation for tests in Criminology.

Changes to an online course in Linear Algebra at [Carleton University](#) in Ontario include the inclusion of weekly quizzes, homework assignments and personalized assignments based on student areas of learning difficulty. Each of these tools is structured to encourage mastery learning

Students at [Kristiania University College](#) in Norway can take practice tests, receiving feedback and examples of good answers so they can modify their responses. Student schedule their own exams in an open entry system.

Encouraging Participation: Online assessment often includes weekly tests that allow students to steadily accumulate marks throughout a course, encouraging ongoing participation and learning. A Massage Therapy program at Ontario's [Lambton College](#) uses quizzes that are worth only a few marks each, but are also carefully timed to discourage reliance on the textbook. Results from short quizzes are used for purposes other than grades, such as determining the rate of student progress through online modules and pointing out areas for more attention. In a blended learning course in Organic Chemistry at [Wilfrid Laurier University](#) in Ontario, quizzes at the end of online sections that precede in-class lectures give professors a sense of topics needing additional explanation or examples and prepare students for more active involvement in the face-to-face sessions.

In a games-based assessment approach at [Red River College](#), Canada, students earn marks on projects as they pass milestones and can re-do components to gain marks. The strategy has resulted in increased engagement and higher marks.

Peer Assessment: Many courses incorporate online peer assessment, in which students comment on each other's papers according to clearly defined criteria. The student markers get the experience of assessing and providing useful and constructive comments on another student's work, as well as seeing alternative approaches to a topic they also addressed. The

-
- 1 Educational Design, Courses and Resources
 - 2 Diversity in Blended Learning
 - 3 Student Access, Engagement and Flexibility
 - 4 Supporting Student Success Online
 - 5 OER and MOOCs
 - 6 Options for Online Assessment
 - 7 Faculty Development and Support
 - 8 Models of Collaboration
 - 9 Organizational Planning for Online Learning
- The Pockets of Innovation Series
- Reflections on the Pockets of Innovation Series

student writers benefit from the feedback they receive and the opportunity to revise their papers. In Ontario, the [University of Guelph](#) and the [University of Toronto](#) both use tools they developed for peer assessment. As a part of each small group exercise at the School of Business at [Simon Fraser University](#) in British Columbia, Canada, students assess their group members on online teamwork dimensions such as preparation, contribution and collaboration.

Fostering Skill Development: Contributions to online discussion boards, blogs and group projects are often part of the marking matrix, with students expected to offer substantive comments on issues and each other's posts. As well as adding to subject knowledge, this form of assessment is effective in fostering the development of broader skills, as shown in experience at [George Brown College](#) and [Trent University](#) in Ontario, such as concise writing, clear communication, online etiquette, research and referencing, critical thinking, constructive questioning, and the joint building of content. As opposed to the submission of a single course paper, weekly discussions offer students frequent opportunities to refine their skills. In a course at [Seneca College](#) in Ontario, students are expected to model industry standards in their online assignments.

Highlighting Achievements: e-Portfolios bring together assignments, projects, and other examples of student work and function as valuable tools for students to reflect on, as well as demonstrate and track progress throughout their academic careers. Online portfolios are used for submitting and commenting on assignments, with the additional function of highlighting student accomplishments to employers, other educational institutions, galleries and other venues. In Ontario, e-portfolios are used to help students, assess, and present their learning accomplishments in the faculty of Visual Arts and the Built Environment at the [University of Windsor](#), the Faculty of Music at [Wilfrid Laurier University](#), a specialized nursing degree program at [Nipissing University](#), Linguistics and Language Studies at [Carleton University](#) and in Business Administration degree programs at [Sheridan College](#).

At [McMaster University](#), senior medical students use specially designed apps to track their experiences during clinical rotations and to receive feedback on essential practices. The apps are available as OERs.

The [University of Leeds](#) in England offers students the opportunity to earn micro-credentials through MOOCs, with further specific assessments and activities to gain course credits.

Open badges are used to recognize skill development in Information Technology by immigrants with foreign qualifications at the [Beuth University of Applied Sciences](#), Germany. The areas of skills development are established in consultation with employers.

Faculty Benefits: In addition to creating opportunities for students to excel, faculty and instructors benefit in other ways from online assessment. Marking is more flexible and mobile, without the need

-
- The Pockets of Innovation Series
 - 1 Educational Design, Courses and Resources
 - 2 Diversity in Blended Learning
 - 3 Student Access, Engagement and Flexibility
 - 4 Supporting Student Success Online
 - 5 OER and MOOCs
 - 6 Options for Online Assessment
 - 7 Faculty Development and Support
 - 8 Models of Collaboration
 - 9 Organizational Planning for Online Learning
 - Reflections on the Pockets of Innovation Series

to carry around paper assignments. All submissions are returned electronically – and can also be stored online for future reference. Assessments can be more frequent, more easily tracked, recorded, collated, and reported, with learning analytics providing detailed analysis of individual and group progress, challenges, and comments. The reduction in the use of paper also rates highly with faculty.

Online assessment means that rather than evaluation being separate from, or only at the end of the learning process, it can be effectively integrated into the ongoing teaching and learning. In addition to earning grades, students become more self-aware and independent learners, increase their abilities as communicators and critical thinkers, and contribute to the analysis and creation of ideas and perspectives. Faculty and instructors, through their innovations, demonstrate how online assessment can further both independent and interdependent learning.

Ontario Public Colleges and Universities Featured in This Theme

Carleton University

[Improving Student Success in Financial Accounting with Online Learning at Carleton University](#)

[Integrating ePortfolios at Carleton University in Ottawa, Canada](#)

[Online Interaction to Enhance the Learning of First-Year Chemistry Students at Carleton University](#)

Durham College

[Engaging Students in an Online Course on Wrongful Convictions at Durham College](#)

George Brown College

[Mobile-Assisted Language Learning: Enhancing student learning with mobile phones](#)

Lambton College

[Adapting Hybrid Models for Better Learning – Professors develop and test new models for teaching and learning at Lambton College](#)

McMaster University

[Developing Apps to Track Clinical Experiences and Formative Feedback for Medical Students at McMaster University, Hamilton, Ontario, Canada](#)

Niagara College

[Enhancing Instructor Feedback with the Sesame Digital Platform at Niagara College's Canadian Food and Wine Institute in Niagara-on-the-Lake, Canada](#)

Nipissing University

[Providing Access and Flexibility: Innovative learning opportunities for nursing students at Nipissing University](#)

-
- 1 Educational Design, Courses and Resources
 - 2 Diversity in Blended Learning
 - 3 Student Access, Engagement and Flexibility
 - 4 Supporting Student Success Online
 - 5 OER and MOOCs
 - 6 Options for Online Assessment
 - 7 Faculty Development and Support
 - 8 Models of Collaboration
 - 9 Organizational Planning for Online Learning
 - The Pockets of Innovation Series
 - Reflections on the Pockets of Innovation Series

Northern College

[Flexibility in the Design and Delivery of the Mining Engineering Technician Program at Northern College](#)

Ontario College of Art and Design University

[Maximizing Student Learning at the Ontario College of Art and Design University: Getting the Most out of the Learning Management System](#)

Seneca College

[Integrating Facebook and Twitter: Helping Students Learn How to Learn Using Social Media at Seneca College](#)

Sheridan College

[Reflective Practice via Creative Learning Portfolios at Sheridan College’s Pilon School of Business in Mississauga, Canada](#)

Trent University

[Supporting Flexibility and Program Completion: Trent University implements a new approach to online learning](#)

University of Guelph

[Student learning through Online Peer Evaluation Assessment and Review](#)

University of Ottawa

[e-Marking: Using iPads to deliver feedback on student assignments](#)

[iAnatomie: Providing online learning and testing options for Francophone medical students](#)

University of Toronto

[Developing Crowdmark, an Online Collaborative Marking Platform at the University of Toronto](#)

[Peer Assessment and More with peerScholar](#)

University of Waterloo

[Marking assignments online to improve feedback for students](#)

University of Windsor

[Documenting Learning: Using e-Portfolios in Visual Arts and the Built Environment at the University of Windsor](#)

Wilfrid Laurier University

[Encouraging Student Independence: A blended learning model for Organic Chemistry at Wilfrid Laurier University](#)

[e-Portfolios for Lifelong Learning – Integrating e-portfolios for students in the Faculty of Music at Wilfrid Laurier University](#)

[Mathematics Online – The Supplementary Module Program for Calculus at Wilfrid Laurier University](#)

- C** CONTENT
- The Pockets of Innovation Series
- 1** Educational Design, Courses and Resources
- 2** Diversity in Blended Learning
- 3** Student Access, Engagement and Flexibility
- 4** Supporting Student Success Online
- 5** OER and MOOCs
- 6** Options for Online Assessment
- 7** Faculty Development and Support
- 8** Models of Collaboration
- 9** Organizational Planning for Online Learning
- Reflections on the Pockets of Innovation Series

Cross Canada Colleges and Universities Featured in this Theme

Red River College, Manitoba

[A Games-Based Approach to Teaching Web Design at Red River College, Manitoba, Canada](#)

Simon Fraser University, British Columbia

[Peer Evaluation as a Learning and Assessment Strategy at the School of Business at Simon Fraser University, British Columbia](#)

Colleges and Universities from Around the World Featured in this Theme

Beuth University of Applied Sciences, Germany

[Using Open Badges to Visualize Learning at the Beuth University of Applied Sciences, Germany and the Open Badge Network](#)

Dublin City University, Ireland

[Designing, Implementing and Evaluating Contemporary Models of Teaching and Learning at the National Institute for Digital Learning at Dublin City University, Ireland](#)

Kristiania University College, Norway

[Innovations in Student Interaction, Support, and Evaluation at Kristiania University College in Norway](#)

University of Leeds, England

[Projects with Multiple Uses: Micro-Credentials for Undergraduate and Graduate Students and Support Courses for Online and On-Campus Graduate Students at the University of Leeds, England](#)

-
- C** CONTENT
 - 1 Educational Design, Courses and Resources
 - 2 Diversity in Blended Learning
 - 3 Student Access, Engagement and Flexibility
 - 4 Supporting Student Success Online
 - 5 OER and MOOCs
 - 6** Options for Online Assessment
 - 7 Faculty Development and Support
 - 8 Models of Collaboration
 - 9 Organizational Planning for Online Learning
 - Reflections on the Pockets of Innovation Series



Theme 7 Faculty Development and Support

[Professional Development and Training](#)

[Consulting](#)

[Resources](#)

- The Pockets of Innovation Series
- 1 Educational Design, Courses and Resources
- 2 Diversity in Blended Learning
- 3 Student Access, Engagement and Flexibility
- 4 Supporting Student Success Online
- 5 OER and MOOCs
- 6 Options for Online Assessment
- 7 Faculty Development and Support**
- 8 Models of Collaboration
- 9 Organizational Planning for Online Learning
- Reflections on the Pockets of Innovation Series

Theme 7

Faculty Development and Support

Faculty, instructors and staff recognize that developing and delivering effective and engaging online and blended learning involves new pedagogies and strategies, focused on student-centered learning. To foster best possible results, intensive training workshops, one-on-one consultation, and online tools are offered by centered for learning and teaching and other services.

This summary highlights the myriad of opportunities, highlighted in the [Pockets of Innovation Series](#), offered to faculty and instructors for training, support, and access to resources that facilitate their transition to online and blended learning and teaching.

Professional Development and Training: Amid differing approaches to faculty development among institutions, the [Pockets of Innovation Series](#) revealed some consistent principles:

- Blended or online formats are often used for training, so faculty experience the learning and technological benefits and challenges their students encounter;
- Faculty are encouraged to consider these new ways of teaching, assess their effectiveness for their courses and adopt the best strategies for their students and content;
- Online and blended learning are not seen as appropriate for all courses or students;
- Active, engaged learning by faculty is encouraged, with the training modelling best practices for subsequent teaching; and
- Collaboration and sharing among faculty is facilitated, often resulting in later communities of practice.

Many Ontario public colleges and universities offer certificate programs in both online and blended formats, with four to six courses on pedagogy, technology use, instructional design, assessment, and collaboration strategies; these may focus on online and blended learning, as at [Lambton College](#) and [Western University](#), or incorporate them into a broader look at teaching and learning. In some cases, including [Collège Boréal](#) and [La Cité collégiale](#), these programs are mandatory.

Ontario colleges and universities offer a variety of delivery formats for their professional development:

- Limited to faculty of one institution, such as the program at [Ryerson University](#) redesigned for blended delivery;
- Open to faculty at regional groupings of institutions, such as the program available at [Sir Sandford Fleming College](#);
- Available, on a cost basis, to faculty from other institutions from [Centennial College](#) and [Niagara College](#)

-
- 1 Educational Design, Courses and Resources
 - 2 Diversity in Blended Learning
 - 3 Student Access, Engagement and Flexibility
 - 4 Supporting Student Success Online
 - 5 OER and MOOCs
 - 6 Options for Online Assessment
 - 7 Faculty Development and Support
 - 8 Models of Collaboration
 - 9 Organizational Planning for Online Learning
- Reflections on the Pockets of Innovation Series

- Extensive program at [Carleton University](#) offered as an open educational resource for all institutions to adopt and adapt;
- Training for full-time faculty at [St. Lawrence College](#) focused on blended learning over two semesters, including a series of individual consultations and training sessions, as well as larger group sessions;
- [Georgian College](#) with two levels of training, including introductory modules on theory, basic processes of putting course information online, a single app or a skill such as online assessment, complemented by a second level of more extensive training and support for converting a course to online or blended delivery;
- The [Ontario College of Art and Design University](#) offering presentations by faculty members recommended by students for their effective use of the learning management system;
- [Sheridan College](#), with a comprehensive portal providing access to resources, beginner and advanced information on the use of digital resources, and faculty training and support; and
- [Canadore College](#), offering training on the use of the learning management system and all its components for course development and management, as well as for assessment and evaluation, collaboration, and communication.

Technology Enhanced Learning Design works as part of a team on all new modules at The [Open University](#) in the United Kingdom. Two of their recent initiatives integrate and assess strategies for adaptive and collaborative learning. The Learning and Teaching Academy at the [University of the Highlands and Islands](#) in Scotland functions as a hub where staff can access collaborative projects and consultation, professional development opportunities, funding and resources, and a framework for professional recognition. Staff in the Teaching and Learning Unit at the [Athlone Institute of Technology](#) in Ireland worked as part of an inter-institutional team to develop a Postgraduate Diploma in Learning, Teaching and Assessment to suit the requirements of staff working in the Institutes of Technology in Ireland.

In Costa Rica, the [Fundación Omar Dengo](#) uses blended learning to offer training on a nation-wide basis to practicing teachers on the most effective use of computers and software for student learning.

At the [FernUniversität](#) in Germany, an eTeaching Certificate is offered to develop digital teaching skills and practice of teachers so they can equip students with digital capacity and support the shift to competency-based education.

In addition to professional development, some faculty are supported in their online and blended innovations through funding, time release, research support, and, sometimes, secondment to the learning and teaching centre. They, in turn, become emissaries to their departments on the benefits of online and blended learning.

| | |
|---|---|
| C | CONTENT |
| | The Pockets of Innovation Series |
| 1 | Educational Design, Courses and Resources |
| 2 | Diversity in Blended Learning |
| 3 | Student Access, Engagement and Flexibility |
| 4 | Supporting Student Success Online |
| 5 | OER and MOOCs |
| 6 | Options for Online Assessment |
| 7 | Faculty Development and Support |
| 8 | Models of Collaboration |
| 9 | Organizational Planning for Online Learning |
| | Reflections on the Pockets of Innovation Series |

Consulting: Staff in the learning and teaching centres often work on a one-on-one basis with faculty to develop online and blended courses, offering expertise in pedagogy, instructional design, technology use for learning, graphic design, information technology, course assessment and revision, and other skills. Among Ontario institutions, [Humber College](#), [Loyalist College](#), and [Ryerson University](#) offer different models of how these services are provided. Faculty are also supported in building their own resources, such as games, simulations, tests, and mobile learning applications. At [St. Lawrence College](#) and [Western University](#), the professional staff is supplemented by students who work with faculty to help them, as was said by one of these student advisors, “to create resources for excellent learning.”

The Media Center at the [Technical University of Dresden](#) in Germany provides faculty with a complete service package, including digital teaching and learning support, research, design and production.

Resources: Staff at Ontario learning and teaching centres create extensive websites with online tools, guides, instructions, and examples, supplemented by links to articles, research, and resource banks at other institutions. For example, [Mohawk College](#) offers templates for course development, shells for development of tests, and sample rubrics for marking, along with information on their completion and use. At other Ontario colleges and universities, depositories of open educational resources, developed at the institution or recommended from other sources, are available. Many of the websites of the learning and teaching centres are open access, including those at [Algonquin College](#) and [Ryerson University](#), making their wide collection of information and aids for online and blended learning available to faculty and instructors everywhere.

To assist program design and review in Computer Science at [Dalhousie University](#) in Canada, a curriculum map showing the inter-relatedness between specific learning outcomes, course content, and course and learning outcome sequencing is in use.

Faculty development and support are critical components of the integration of online and blended learning at all colleges and universities. Starting from a consideration of where, when, how, and, most importantly, for whom online and blended learning can be effective, faculty receive access to courses, consulting, and resources so they can provide students with flexible and interactive opportunities for successful learning.

Ontario Public Colleges and Universities Featured in This Theme

Algonquin College

[Moving Ahead with the Digital College: Mobile learning, open educational resources, and online and hybrid learning at Algonquin College](#)

Canadore College

[Offering Choice: Providing students with options for access to learning](#)

-
- 1 Educational Design, Courses and Resources
 - 2 Diversity in Blended Learning
 - 3 Student Access, Engagement and Flexibility
 - 4 Supporting Student Success Online
 - 5 OER and MOOCs
 - 6 Options for Online Assessment
 - 7 Faculty Development and Support
 - 8 Models of Collaboration
 - 9 Organizational Planning for Online Learning
 - Reflections on the Pockets of Innovation Series

Carleton University

[Online Interaction to Enhance the Learning of First-Year Chemistry Students at Carleton University](#)

Centennial College

[Reflective Practitioners: The Certificate Program in Teaching and Learning in Higher Education at Centennial College](#)

La Cité collégiale

[Moving Online: Meeting student learning needs through online and hybrid courses](#)

Collège Boréal

[Matching Pedagogy and Technology: Providing student choice for effective learning at Collège Boréal](#)

Georgian College

[Faculty Training: Two-stage learning for faculty on designing and developing online learning courses](#)

Humber College

[Serving Students and Faculty: The Centre for Teaching and Learning at Humber Institute of Technology and Advanced Learning](#)

Lambton College

[Supporting Institutional Change: The Learning Innovation Centre at Lambton College](#)

Loyalist College

[Virtual Learning Environment: Developments in virtual reality for learning at Loyalist College](#)

Mohawk College

[eLearn@Mohawk: Moving to blended learning for student success](#)

Niagara College

[Learning by Doing: Using a hybrid course for faculty learning about hybrid course development](#)

Ontario College of Art and Design University

[Maximizing Student Learning at the Ontario College of Art and Design University](#)

Ryerson University

[Re-Designing the Instructional Skills Workshop in a Blended Format for Faculty Development at Ryerson University](#)

[Setting the Stage for Student Success: Digital Education Strategies at The G. Raymond Chang School of Continuing Education](#)

- 1** Educational Design, Courses and Resources
- 2** Diversity in Blended Learning
- 3** Student Access, Engagement and Flexibility
- 4** Supporting Student Success Online
- 5** OER and MOOCs
- 6** Options for Online Assessment
- 7** Faculty Development and Support
- 8** Models of Collaboration
- 9** Organizational Planning for Online Learning
- Reflections on the Pockets of Innovation Series

St. Lawrence College

[The Hybrid Learning Initiative at St. Lawrence College in Brockville, Cornwall and Kingston, Canada, Teaches Faculty the Finer Points of Designing Hybrid Courses](#)

[Students Helping Faculty Implement Hybrid Learning at St. Lawrence College](#)

Sheridan College

[Focusing on Faculty Development for Digital Teaching and Learning at Sheridan College](#)

Sir Sandford Fleming College

[Before, During, and After Class: Online resources for students and faculty](#)

Western University

[Supporting Online Teaching through Online Learning at Western University](#)

[Supporting Technology Integration – The Instructional Technology Resource Centre at Western University](#)

Cross Canada Colleges and Universities Featured in this Theme

Dalhousie University, Nova Scotia

[Daedalus: An Online Curriculum Mapping Tool from Dalhousie University, Nova Scotia, Canada](#)

Colleges and Universities from Around the World Featured in this Theme

Athlone Institute of Technology, Ireland

[The Postgraduate Diploma in Learning, Teaching and Assessment: The Experience of Athlone Institute of Technology, Ireland](#)

FernUniversität, Germany

[Development and Implementation of Faculty Training Opportunities for Online Learning at FernUniversität, Germany](#)

Fundación Omar Dengo, Costa Rica

[A Nation-Wide Teacher Training Initiative Focused on Enhanced Student Learning Led by the Fundación Omar Dengo in Costa Rica](#)

Technical University of Dresden, Germany

[Offering Digital Teaching and Learning, Research, Design, and Production at the Media Center at Technical University Dresden, Germany](#)

- The Pockets of Innovation Series**
- 1** Educational Design, Courses and Resources
- 2** Diversity in Blended Learning
- 3** Student Access, Engagement and Flexibility
- 4** Supporting Student Success Online
- 5** OER and MOOCs
- 6** Options for Online Assessment
- 7** Faculty Development and Support
- 8** Models of Collaboration
- 9** Organizational Planning for Online Learning
- Reflections on the Pockets of Innovation Series

The Open University, UK

[From Idea to Application: Technology Enhanced Learning Design at The Open University, United Kingdom](#)

University of the Highlands and Islands, Scotland

[A Hub for the Enhancement of Educational Practice, Scholarship, and Research at the University of the Highlands and Islands, Scotland](#)

-
- The Pockets of Innovation Series
 - 1** Educational Design, Courses and Resources
 - 2** Diversity in Blended Learning
 - 3** Student Access, Engagement and Flexibility
 - 4** Supporting Student Success Online
 - 5** OER and MOOCs
 - 6** Options for Online Assessment
 - 7** Faculty Development and Support
 - 8** Models of Collaboration
 - 9** Organizational Planning for Online Learning
 - Reflections on the Pockets of Innovation Series



Theme 8 Models of Collaboration

[Collaboration among Ontario Colleges and Universities](#)

[Regional Collaboration](#)

[National Collaboration](#)

[International Collaboration](#)

- The Pockets of Innovation Series
- 1 Educational Design, Courses and Resources
- 2 Diversity in Blended Learning
- 3 Student Access, Engagement and Flexibility
- 4 Supporting Student Success Online
- 5 OER and MOOCs
- 6 Options for Online Assessment
- 7 Faculty Development and Support
- 8 Models of Collaboration
- 9 Organizational Planning for Online Learning
- Reflections on the Pockets of Innovation Series

Theme 8

Models of Collaboration

Collaboration, on an inter-institutional, regional, national or international level, is a strength of online teaching and learning. Using online linkages, faculty jointly develop and share resources, courses and programs, resulting in increased options for students, reduced development costs and enhancement of expertise and experience.

The models of collaboration highlighted in the Pockets of Innovation Series present a wide variety of successful initiatives, with examples ranging from joint initiatives between two institutions to partnerships with national and international contributors.

Collaboration among Ontario Colleges and Universities: All 24 public colleges in Ontario are part of the [OntarioLearn](#) consortium, partnering to develop and share more than 1,200 online courses and several online programs to make them accessible to students across the province and beyond. Also in Ontario, [Durham College](#) offers the theoretical component of apprenticeship training for Industrial Mechanics online for use at [Sault College](#), with both colleges offering the face-to-face components of the program locally so that students can work and learn in their own communities. As part of a consortium of 6 colleges in Eastern Ontario, [Sir Sandford Fleming College](#) develops and uses online modules from other partners for faculty training on issues of classroom management. Faculty at [Carleton University and the University of Ottawa](#) worked together to create online learning materials for students studying French as a second language, available as an OER.

Ontario's public colleges and universities work together to expand opportunities for student throughout the province. Through a collaboration between [Northern College and Queen's University](#), graduates of college programs in mining technology have advanced standing in an online degree program from Queen's. [Confederation College and Lakehead University](#) cooperate to offer an online degree program in nursing to students in four communities in northwestern Ontario so they can study in their communities. [Nipissing University](#) works with 6 Ontario colleges, offering college Business Administration Diploma program graduates access to a specially designed, blended program to earn a Bachelor of Commerce degree.

Regional Collaboration: The [University of the Highlands and Islands](#) brings together 13 colleges and research institutes in the north of Scotland, sharing programs, services and providing a much wider range of choices and opportunities for students throughout the region. The development of the University from 13 independent centres to a full-fledged University moved through various stages as the need for centralized executive, policies, practices and support evolved. The role of the [Academic Development unit at the University of the Highlands and Islands](#)

-
- 1 Educational Design, Courses and Resources
 - 2 Diversity in Blended Learning
 - 3 Student Access, Engagement and Flexibility
 - 4 Supporting Student Success Online
 - 5 OER and MOOCs
 - 6 Options for Online Assessment
 - 7 Faculty Development and Support
 - 8 Models of Collaboration
 - 9 Organizational Planning for Online Learning
- Reflections on the Pockets of Innovation Series

contributes to this collaborative structure by responding to such issues as organizational change, policy development, process and technology assessment and planning and development of new academic initiatives.

National Collaboration: The [University of Ottawa](#) is part of the Consortium national de formation en santé (National Consortium for Health Training), an alliance of 11 colleges and universities across Canada developing and sharing courses for French-language degree programs and professional development in health-related disciplines. In France, each of 8 Digital Thematic Universities brings together 25 to 40 partners from French higher education, with funding from the [Ministry of Higher Education and Research](#), to develop as individual institutions or in national and international partnerships, OER accessible on a shared portal. Each thematic university specializes in a specific academic field.

One of the French thematic universities, [uTOP, the Multi-partner University of Technology](#), brought together 26 academic partners, with over 100 external partners, to create almost 40 training options and over 80 resources, including master’s degree programs, professional training courses and MOOCs.

International Collaboration: On an international level, [York University](#) in Ontario works with Australian partners to deliver a course on Global Environmental Change to refugee students on the Thai/Burma border, with collaborative work between Thai and York students as part of the design. At [Wilfrid Laurier University](#) in Ontario, a Globally Connected Active Learning Model is used for a course in Muslim Studies, linking students at Laurier and a university in Turkey, with online communication as the core of the teaching and learning.

[Royal Roads University](#) in Canada has developed a model for providing student with international educational experience, offering double master’s degree programs in cooperation with the Management Centre in Austria.

Since 2016, the Massachusetts Institute of Technology in the United States has been working with pathway institutions around the world through [MITx MicroMasters](#) to accelerate learner access to graduate studies.

Working with partner institutions in England, Greece, Denmark, Slovenia, Portugal and Sweden, academics at the [Norwegian University of Science and Technology](#) in Norway developed and offer a MOOC on Information Technology and Entrepreneurship, using a new course development method called Concurrent e-Learning Design.

In Italy, [UNINETTUNO](#), International Telematic University, is an independent university built from a consortium of 43 Italian universities and private partners and now working with partners in the Euro-Mediterranean region and around the world in multiple languages to offer degree and professional development programs.

-
- C** CONTENT
 - The Pockets of Innovation Series
 - 1** Educational Design, Courses and Resources
 - 2** Diversity in Blended Learning
 - 3** Student Access, Engagement and Flexibility
 - 4** Supporting Student Success Online
 - 5** OER and MOOCs
 - 6** Options for Online Assessment
 - 7** Faculty Development and Support
 - 8** Models of Collaboration
 - 9** Organizational Planning for Online Learning
 - Reflections on the Pockets of Innovation Series

A multi-national, multi-disciplinary team is working, under the leadership of the [Open University of The Netherlands](#), to strengthen the capacity of secondary school students in science, technology, engineering and mathematics through the development of pedagogical models, tools and teacher training.

Ontario Public Colleges and Universities Featured in This Theme

Carleton University

[VidéoTech: Creating and sharing online learning materials for French-as-a-second language students by Carleton University and the University of Ottawa](#)

Confederation College

[From Access to Graduate Programs: An extensive array of learning opportunities for nursing and health science students](#)

Durham College

[Linking Online and Experiential Learning: A hybrid model for apprenticeship education through a partnership between Sault College and Durham College](#)

Lakehead University

[From Access to Graduate Programs: An extensive array of learning opportunities for nursing and health science students](#)

Nipissing University

[Nipissing College Partnership Plan: Nipissing University's School of Business Partners with Colleges to Deliver a Business Degree Option](#)

Northern College

[A Collaboration Between Northern College in Haileybury, Canada and Queen's University in Kingston, Canada Creates an Online Degree Program in Mining Engineering Technology](#)

OntarioLearn

[OntarioLearn: 24 Public Colleges in Ontario Collaborate to Increase Student Access to and Choice of Quality Programs and Courses](#)

Queen's University

[A Collaboration Between Northern College in Haileybury, Canada and Queen's University in Kingston, Canada Creates an Online Degree Program in Mining Engineering Technology](#)

Sir Sandford Fleming College

[Before, During, and After Class: Online Resources for Students and Faculty](#)

-
- 1 Educational Design, Courses and Resources
 - 2 Diversity in Blended Learning
 - 3 Student Access, Engagement and Flexibility
 - 4 Supporting Student Success Online
 - 5 OER and MOOCs
 - 6 Options for Online Assessment
 - 7 Faculty Development and Support
 - 8 Models of Collaboration
 - 9 Organizational Planning for Online Learning
- Reflections on the Pockets of Innovation Series

University of Ottawa

[Professional Development: Developing online resources for health professionals](#)

[VidéoTech: Creating and sharing online learning materials for French-as-a-second language students by Carleton University and the University of Ottawa](#)

Wilfrid Laurier University

[Active Learning in an Intercultural Online Environment at Wilfrid Laurier University](#)

York University

[Intercultural Learning Online: Students on the Thai/Burma Border and at York University Share Their Learning](#)

Cross Canada Colleges and Universities Featured in this Theme

Royal Roads University, British Columbia

[Two Universities – Two Degrees: A Model for Awarding Double Degrees in Master’s Programs at Royal Roads University, British Columbia, Canada and the Management Centre Innsbruck, Austria](#)

Colleges and Universities from Around the World Featured in this Theme

The Management Centre, Austria

[Two Universities – Two Degrees: A Model for Awarding Double Degrees in Master’s Programs at Royal Roads University, British Columbia, Canada and the Management Centre Innsbruck, Austria](#)

Massachusetts Institute of Technology, United States

[MITx MicroMasters: Offering Students Access to Quality Credentials and Degree Pathways at Multiple Universities at Massachusetts Institute of Technology, United States](#)

Ministry of Higher Education and Research, France

[Available to All – One Portal Featuring More than 34,000 Open Educational Resources Developed by Universities in France](#)

Norwegian University of Science and Technology, Norway

[Collaborative International Development of a Massive Open Online Course at the Norwegian University of Science and Technology](#)

Open University of The Netherlands

[Learn STEM: Improving Learning and Teaching of Science, Technology, Engineering and Mathematics through Collaborative Development of Pedagogical Models, Tools and Teacher Training Led by the Open University of the Netherlands](#)

- C** CONTENT
- The Pockets of Innovation Series
- 1** Educational Design, Courses and Resources
- 2** Diversity in Blended Learning
- 3** Student Access, Engagement and Flexibility
- 4** Supporting Student Success Online
- 5** OER and MOOCs
- 6** Options for Online Assessment
- 7** Faculty Development and Support
- 8** Models of Collaboration
- 9** Organizational Planning for Online Learning
- Reflections on the Pockets of Innovation Series

UNINETTUNO, International Telematic University, Italy
[Delivering Learning to Students around the World through the International Telematic University UNINETTUNO in Italy](#)

uTOP, the Multi-Partner University of Technology, France
[uTOP – University Collaboration and Innovation Result in Online Learning Opportunities for Initial and Continuing Education in Engineering and Technology in France](#)

University of the Highlands and Islands, Scotland
[Building a Partnership of 13 Colleges and Research Institutes for Higher and Further Education at the University of the Highlands and Islands, Scotland](#)

University of the Highlands and Islands, Scotland
[Creating Policies and Initiatives at a University with 13 Partner Institutions: Academic Development at the University of the Highlands and Islands, Scotland](#)

- 1** Educational Design, Courses and Resources
- 2** Diversity in Blended Learning
- 3** Student Access, Engagement and Flexibility
- 4** Supporting Student Success Online
- 5** OER and MOOCs
- 6** Options for Online Assessment
- 7** Faculty Development and Support
- 8** Models of Collaboration
- 9** Organizational Planning for Online Learning
- Reflections on the Pockets of Innovation Series



Theme 9 Organizational Planning for Online Learning

Goals of Online and Blended Learning

Increase Access

Enhance Flexibility

Increase Student Engagement

Foster Student Success

Institution-Wide Change and Support

Quality Standards

Student Support Services

Faculty Support Services

New Resources

Effectiveness and Efficiency

Infrastructure and Physical Plant

- The Pockets of Innovation Series
- 1 Educational Design, Courses and Resources
- 2 Diversity in Blended Learning
- 3 Student Access, Engagement and Flexibility
- 4 Supporting Student Success Online
- 5 OER and MOOCs
- 6 Options for Online Assessment
- 7 Faculty Development and Support
- 8 Models of Collaboration
- 9 Organizational Planning for Online Learning
- Reflections on the Pockets of Innovation Series

Theme 9

Organizational Planning for Online Learning

Five-year plans, institutional strategic documents, and plans for technology-enhanced learning at public colleges and universities in Ontario highlight online and/or blended learning as central to their mission and future. The adoption of these new approaches to education is framed around ideas of student-centered learning, with access, flexibility, engagement, and success as common themes across institutions. The goals and strategies also recognize the institutional changes required to facilitate and support successful integration of online, blended and technology-enhanced learning.

This summary highlights the goals for online and blended learning and the expectations for institutional change and support described in the plans included in the [Pockets of Innovation Series](#):

[Algonquin College](#)

[George Brown College](#)

[Lambton College](#)

[Mohawk College](#)

[Ontario College of Art and Design University](#)

[Queen's University](#)

[Trent University](#)

[University of Ottawa](#)

[University of Toronto](#)

[University of Windsor](#)

[York University](#)

At some public colleges and universities, separate Pockets of Innovation outline early and more advanced stages of plan development and integration.

Goals of Online and Blended Learning

Increase Access: Increasing student access is a key objective for online and blended learning, especially in first-year, large enrolment courses and those that are compulsory for several programs. Students in remote, rural, and Aboriginal communities, from other institutions, international students, as well as those with family, job, and community responsibilities, and those living far from institutions or working shifts are cited as target groups for enhanced access offered through online learning. Online learning is also positioned in institutional plans as offering mobility – access to learning anywhere, anytime, and through a multitude of devices.

-
- The Pockets of Innovation Series
 - 1 Educational Design, Courses and Resources
 - 2 Diversity in Blended Learning
 - 3 Student Access, Engagement and Flexibility
 - 4 Supporting Student Success Online
 - 5 OER and MOOCs
 - 6 Options for Online Assessment
 - 7 Faculty Development and Support
 - 8 Models of Collaboration
 - 9 Organizational Planning for Online Learning
 - Reflections on the Pockets of Innovation Series

Enhance Flexibility: In many cases, public colleges and universities are responding to student demand for increased use of technology for greater flexibility in course offerings and student services. Plans encourage and support the integration of online and blended learning that expands the range of learning methods, content sources, class participation possibilities, and strategies for assignments and assessments.

Increase Student Engagement: The use of technology to offer students more engaging and participatory alternatives to lecture-based classes is highlighted in many institutional strategic documents. The plans also acknowledge that extensive support for students and faculty is essential, as well as an information technology infrastructure that facilitates online interaction and knowledge sharing between students and instructors and among students. Physical spaces on campus are to be adapted to support active learning, offering space for class discussion, projects, and problem-solving as part of blended learning models.

Foster Student Success: Institutional plans consider online and blended learning as essential to the goal of graduating students who are digitally capable and experienced, and able to use technological skills, as well as communication and cooperative skills fostered through online learning, in the workplace and for community and leisure activities.

Institution-Wide Change and Support

Quality Standards: Standards for online and blended course development and delivery, as well as the process for quality assurance, are clearly articulated in plans. The implications for curriculum planning, resource allocation, staffing, autonomy, course ownership, and academic freedom are addressed.

Student Support Services: Students need extensive training and resources on how to access and use technology, software and apps, as well as how to apply them for effective learning. Student services, along with registration, financial aid, counselling, and library services, need to be available online.

Faculty Support Services: Faculty need training and support on how to use technology for teaching and learning, software choices, instructional design, and the pedagogical approaches and changes inherent in using online and blended learning. Funding for development and research is also part of many plans.

New Resources: The development and/or integration of resources, such as e-textbooks, mobile learning, open educational resources, simulations, and virtual reality, is encouraged, implicating the library, IT, faculty, and other areas of the institution.

Effectiveness and Efficiency: The educational effectiveness and institutional implications of online and blended learning are often researched and analyzed, on a course-by-course and organizational basis.

- The Pockets of Innovation Series
- 1 Educational Design, Courses and Resources
 - 2 Diversity in Blended Learning
 - 3 Student Access, Engagement and Flexibility
 - 4 Supporting Student Success Online
 - 5 OER and MOOCs
 - 6 Options for Online Assessment
 - 7 Faculty Development and Support
 - 8 Models of Collaboration
 - 9 Organizational Planning for Online Learning
- Reflections on the Pockets of Innovation Series

Targets and timelines, such as every student taking one online course before graduation or 20% of time in every program spent online, are established and measured.

Infrastructure and Physical Plant: The technological infrastructure often has to be re-configured and greatly enhanced to support teaching, learning, and administration. Printing services, charging stations, requirements for equipment, technology-friendly class and study space, classrooms that support group learning, and numerous other facility and services are all cited in plans.

In planning for increased online and blended learning, each college and university considers its specific student population, strengths and capabilities, and goals for the future. Arising from this diversity is an organization-wide approach to online and blended learning grounded in student-centered learning, striving to better meet needs and aspirations.

Two international examples of institution-wide change projects demonstrate several of these principles:

At the [Delft University of Technology](#) in The Netherlands, the introduction of a new learning management system (LMS) was accompanied by the development and implementation of a consistent structure and templates to be applied to all courses across the university. Within a year, all courses were moved to the new LMS in the new structure.

To deliver a truly student-driven learning experience, the [Open Polytechnic of New Zealand](#) is redesigning its various functions to better respond to their deliverables. For example, the roles of teaching, assessment and content creation are separated.

Ontario Public Colleges and Universities Featured in This Theme

Algonquin College

[Digital College: Organizational change for enhanced student learning and engagement](#)

[Moving Ahead with the Digital College: Mobile learning, open educational resources, and online and hybrid learning at Algonquin College](#)

George Brown College

[Preparing Students for the Future: A Strategic plan for e-learning](#)

[Consolidation and Alignment: George Brown College moves ahead with its Academic Computing Strategy](#)

Lambton College

[Supporting Institutional Change: The Learning Innovation Centre at Lambton College](#)

Mohawk College

[eLearn@Mohawk: Moving to blended learning for student success](#)

-
- C** CONTENT
 - The Pockets of Innovation Series
 - 1 Educational Design, Courses and Resources
 - 2 Diversity in Blended Learning
 - 3 Student Access, Engagement and Flexibility
 - 4 Supporting Student Success Online
 - 5 OER and MOOCs
 - 6 Options for Online Assessment
 - 7 Faculty Development and Support
 - 8 Models of Collaboration
 - 9 Organizational Planning for Online Learning
 - Reflections on the Pockets of Innovation Series

Ontario College of Art and Design University

[Adopting a new learning management system](#)

[Maximizing Student Learning at the Ontario College of Art and Design University: Getting the most out of the Learning Management System](#)

Queen’s University

[Engaging First-Year Students: A Blended Learning Model for Active Learning](#)

[Strategic Advancement: Moving Ahead with Blended Learning at Queen’s University](#)

Trent University

[Supporting Flexibility and Program Completion: Trent University implements a new approach to online learning](#)

University of Ottawa

[Expanding the Online Course Inventory at the University of Ottawa](#)

University of Toronto

[Online Learning Opportunities for Undergraduate Students at the University of Toronto](#)

University of Windsor

[Testing New Tools to Support Enhanced Online and Blended Learning at the University of Windsor](#)

York University

[Accessibility, Engagement, and Learning: Moving Ahead with Blended Learning at York University](#)

Colleges and Universities from Around the World Featured in this Theme

Delft University of Technology, The Netherlands

[Improving Quality for Students and Faculty through Implementation of a New Learning Management System at the Delft University of Technology, Delft, The Netherlands](#)

Open Polytechnic New Zealand

[The Transformational Change Program at Open Polytechnic New Zealand](#)

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- 1 Educational Design, Courses and Resources
 - 2 Diversity in Blended Learning
 - 3 Student Access, Engagement and Flexibility
 - 4 Supporting Student Success Online
 - 5 OER and MOOCs
 - 6 Options for Online Assessment
 - 7 Faculty Development and Support
 - 8 Models of Collaboration
 - 9 Organizational Planning for Online Learning
 - Reflections on the Pockets of Innovation Series

Reflections on the Pockets of Innovation Series

The [Pockets of Innovation Series](#) was started by [Contact North | Contact Nord](#) in 2011 as online and blended learning moved from isolated projects to becoming a part of the daily conversation and activity at Ontario's public colleges and universities. The initiatives and experiments quickly accelerated due not only to greater awareness of the possibilities offered by online learning, but also by the growth in expertise, support for students, faculty and instructors, funding, institutional commitment and cooperative development.

Faculty, instructors, and staff in learning and teaching centres, libraries, information technology support units and other services, supported by management, are all essential players in bringing online, blended and technology-enhanced learning into the mainstream of post-secondary education in Ontario. The potential of new ways of thinking about and delivering education are enticing, but at the core of each innovator's activity is the expectation and confidence that, with effective design and delivery, students are better served.

This dedication to student access, flexibility, engagement and success is at the core of the Pockets of Innovations Series which highlights the myriad ways faculty, instructors and other developers work to accomplish these goals.

This collection of more than 220 innovations is a record of, and tribute to, the energy, creativity, skill and dedication to student success of faculty, staff, and management in Ontario public colleges and universities, as well as those in colleges and universities from across Canada and around the world who shared their stories.

The Pockets of Innovation Series shows how online, blended and technology-enhanced learning are making a difference through such factors as expanded access, higher retention, registration of new groups of students, and improved results. Acquisition of new skills, including critical thinking, assessment of sources, precise writing, and supportive feedback are nurtured, in addition to new ways of learning, creating, and sharing content.

The Pockets of Innovation Series was launched with three criteria of, first of all, featuring new approaches in online learning that, secondly, serve students and thirdly, that the developers are willing to share their innovations with colleagues. The first two criteria are integral to all innovations featured. The achievement of the final criteria is shown by the numbers of readers of each Pocket of Innovation as it is posted on Contact North | Contact Nord's [teachonline.ca](#) portal and featured in the bi-weekly newsletter, [Online Learning News](#). As well, many innovators report contacts from colleagues around the world, resulting in the exchange of expertise, projects and resources.

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