



John Oliver Secondary School

Technology Plan

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2012 - 2017

Background

John Oliver Secondary School is located in south-east Vancouver and has a diverse student population of approximately 1130 students where over 35 different languages are spoken in the students' homes. John Oliver is a comprehensive school with a strong curricular program including a variety of courses for students to meet college and university entrance requirements as well as excellent visual and performing arts, technical, and technological programs. John Oliver has a wide variety of career programs and courses that help the students enter the workforce and learn about and understand the wide range of opportunities available for their future. As well, John Oliver has an incredible offering of extra curricular activities including a strong athletic program and numerous clubs that celebrate our cultural diversity, challenge the students' physical, intellectual and creative abilities, and/or raise awareness about economic, social and environmental issues. In fact, through several of the clubs, students have raised thousands of dollars for charity.

Mini School started operating within John Oliver in the 1999-2000 academic year with a cohort of grade 8s and a cohort of grade 9s. In June 2003, the first students graduated from this program, which has as its focus excellence in academics, leadership, digital technology and outdoor education. Digital immersion was added in the fall of 2010 with the incoming grade 8 class and every year thereafter. The first cohort will graduate at the end of 2015 marking a time of celebration and reflection for the program.

There is an active and supportive Parent Advisory Committee at John Oliver with excellent commitment. John Oliver's staff is working hard with students to improve academic achievement and social responsibility. Each term a significant number of students demonstrate excellent performance in a wide range of courses by earning recognition on the Honour Roll and/or Principal's List. John Oliver also has an Effort Honour Roll to recognize those students who demonstrate exceptional work habits.

To reiterate, the school vision of success for learning for all our students is to develop their intellectual, emotional, and physical potential in order to enable them to appreciate their own worth and the worth of others and to function responsibly and effectively in a changing and increasingly technological society. We have also renewed our commitment to literacy and exploring ways to promote and engage students in achieving a higher standard.

Mandate

- To assist and support staff with technology integration, curriculum design, teaching strategies and evaluation processes.
- To better prepare students with technology-based learning in a constantly changing environment.
- To transform practice within an ecosystem that seamlessly blends mobile learning with district services and the virtual space (digital portfolios and social media)

Vision

In terms of technology, John Oliver will be moving towards a site-wide 1:1 learning model with full blown implementation to commence in the fall of 2017. All classes will be taught in a blended model of instruction and deliver curriculum in mixed modes - online and face-to-face. Students will bring their own devices that meet minimum standards to ensure accessibility, equity and equality. Students who are unable to supply their own devices will participate in a loaner program operated via the learning commons.

There will be a greater emphasis on a paperless workflow and digital content creation. Under the newly created British Columbia Curriculum, we will move to a more project-based cross-curricular model.

The most recent labs are in room 309, 303 and the learning commons. The workstations in 218 and 308 will not be replaced. Instead, the units will be replaced by mobile devices and a mobile cart. We will maintain one high end lab for advanced digital media offerings. The school district will replace one lab in a three year cycle and as such we will no longer use school based fund to replace or support future lab requirements.

Professional Development

- Sharepoint
- Google Apps
- Moodle
- IPad cart deployment
- iPads for teaching and learning
- Wordpress Blogging
- Learning commons offerings
- Leveraging wifi and BYOD
- Leveraging cloud services
- Integrating technology into subject areas and transforming practice
- Managing a technology enhanced learning environment
- Implementing ePortfolios
- Using technology for synchronous and asynchronous communication
- Leveraging Google Apps for assessment
- Wiki Sever 3
- Social media
- Office 365
- OneNote Classroom
- MacBook Air Training
- Surface Pro 3 Training
- iBeacon technology

Timeline and Progress Report from Previous Three Year Plan

2008 - 2009

- Coordinate a shared vision. (complete)
- Coordinate staff email list. (complete)
- Update and revamp website to include Department goals, courses, and description. (complete)
- Upgrade infrastructure in anticipation of BCESIS implementation. (complete)
- School-wide wireless network for staff. (in progress by Aerohive Technology)
- Reconfigure current computer lab. (complete)
- Propose new technology-based courses for 2009-2010 (digital photography, music composition, digital media arts and web design for ePortfolio) (complete)
- Promote new course enrollment. (complete)
- Facilitate teacher in-service workshops and recruit department technology leaders. (in progress)
- Promote a Paper - LESS classroom and homework environment. (complete)

2009 - 2010

Purchase a Mac Lab. (Deployment mini lab in LC)

- Build and pilot mobile labs (configurations of 5, 10, and 15 computers). (Deployed in Room 208)
- Successful implementation of BCESIS and assist in training and logistical support. (complete)
- Implement new technology-based courses. (Need to revisit and consolidate)
- Improve content management with MOODLE. (complete)
- Introduce an advanced digital media course with a filmography component. (deferred indefinitely due to lack of funding)
- Explore wireless network for students. (In consultation with Peter Powell - district infrastructure manager)
- Implement new technology use for Adapted and Special Education. (in progress)
- Create a three year hardware and software sustainability plan. (in consultation)

2010 - 2011

- Implement school-wide wireless network for students. (complete)
- Build on technology use in the Arts and Science classrooms. (in progress)
- Build on mobile labs and explore different configurations. (In progress in 208 and LC)
- Expand technology-based curriculum to support new innovations and developments. (in progress)
- Create and design a proposal for a Digital Immersion program. (complete)
- Create a proposal for John Oliver's new school to be a technology enriched school. (In discussion with seismic team)
- Prepare the school for a mixed-method teaching model. (semi-complete - in progress)

2011 - 2012

- Welcome 2nd Digital Immersion cohort - Class of 2016 (complete)
- Welcome 1st iPad Literacy cohort - Class of 2016 (complete)
- Self-booking for labs (complete)
- Paperless meetings store agendas and minutes on Google Docs and share folders. (complete)
- Site-wide wifi infrastructure deployment by [Areohive Networks](#). (complete)
- Establish policies around device management and storage. (Pending district policy)
- Establish protocol for lost devices. (complete)
- No new stand alone printers and no replacement. (complete)
- Transition to printing directly to photocopiers. (complete)
- Projector use survey to determine replacement cycle and deployment practices. (complete)
- Transition toward projectors that support wireless connectivity. (complete)
- Survey staff on technology and training needs.
- Deploy Mac Mini server for Digital Immersion portal. (complete)
- Deploy joss.vsb.bc.ca domain for Mac Mini server. (complete)
- Deploy Wiki Server 3 for Digital Immersion program. (complete)
- Transfer ePortfolio Data from Google Sites to Wiki Server 3. (complete)
- Deploy Mac Minis in learning commons. (complete)
- Deploy Epson Interactive whiteboards. (complete)
- Create user instructions for learning commons technology. (complete)
- Transition Digital Immersion program to an Apple OSX platform only program. (complete)

Proposed Timeline

Year One

2012 - 2013

- Welcome 3rd Digital Immersion cohort - Class of 2017 (complete)
- Welcome 2nd iPad Literacy cohort - Class of 2017 (complete)
- [Sharepoint](#) deployment will replace current website and training will take place during second staff professional day. (complete)
- Replace school website with Sharepoint. (complete)
- Deploy Windows 7 site-wide. (in progress)
- Purchase 16 Macbook Air laptops for Digital Media Courses. (complete)
- Create iTunes U account and explore course delivery from iTunes U for Digital Immersion. (cancelled)
- Renew johnoliver.ca domain for Google Apps. (complete)
- Populate new user accounts to Google Apps. (complete)
- Implement a mentor program for new staff and teachers to our technology services. (deferred to staff committee)
- Deploy iMacs in Green Screen Room. (complete)
- Deploy iPads in Special Education classes. (complete)
- Deploy XPS13s in Learning Commons. (complete)
- Deploy iPads in Skill Centre. (complete)
- Deploy Apple TV in all iPad classrooms. (complete)
- Upgrade Wiki Server hard drive and Ram to 16GB (complete)
- Every grade 8 student will be trained to use an iPad in Applied Skills. (deferred to technologies in LC)
- Establish guidelines for using technologies in the Learning Commons. (in consultation with Jeff Spence and Janice Smith in LC)
- Embed Digital Citizenship into Applied Skills curriculum. (deferred to pending Digital Literacy 9 as per BC Curriculum)
- Stream Bulletins from green screen room. (in discussion with student's council)
- Throttle Youtube and all streaming content for student group. (pending post NGN installation completion)
- Review guidelines with students. (pending district guidelines and discussed in grade wide assemblies)
- Review wireless infrastructure usage and policy with LIT. (in continued discussions with infrastructure manager)

- Review appropriate use policy. (pending district guidelines and discussed in grade wide assemblies)

Year Two

2013 - 2014

- Implement new appropriate use policy and cloud computing plan. (complete)
- Populate new user accounts to Google Apps. (complete)
- Request student email accounts and service with Microsoft Exchange. (deferred to district timeline)
- Migrate content from Google Apps service to VSB Microsoft Exchange. (Create process for manual migration)
(deferred to district timeline)
- Deploy 365 Live accounts (deferred to district timeline)
- Every teacher has access to a mobile device that is able to project to a screen. (April 2015)
- Implement Film Production course. (cancelled due to lack of funds)
- Implement full-year independent study course. (complete)
- Select Unified Learning Management System for all courses. (complete)
- Digitize all learning resources and content to allow online accessibility. (services available)
- Produce online course books and stored on our LMS. (Piloting with Social Studies Department)
- Digital media arts will be taught in iPad lab. (complete in room 208)
- DI students will create ebooks as final course projects. (complete)
- Re-design curriculum to support problem-based, project-based and inquiry-based learning. (in progress)
- Deploy a platform for hosting ePortfolios (Sharepoint or Google Sites). (complete for DI students via WordPress)
- All students will have access to and be able to curate their personal and professional ePortfolio. (deferred to 2015-2016)
- Review block on Youtube and all streaming content for students. (pending NGN performance)
- Review wireless infrastructure usage and policy. (in consultation with infrastructure manager)
- Review appropriate use policy. (complete)

Year Three

2014 - 2015

- Deployment Microsoft Exchange for students. (pending district deployment)
- Deploy Mac Mini server for Configurator and profile manager. (complete and deferred to Cisco Meraki)

- Discuss plans for site-wide BYOD 1:1 with all stakeholders. (deferred to 2016)
- Create policies and guidelines around BYOD 1:1. (deferred to 2016)
- Migrate Digital Immersion ePortfolios from Wiki Server to Wordpress. (complete)
- Create a payment plan for students who would like to pay over a term. (Computer plus insurance). (deferred to 2016)
- Acquire mobile access points for outdoor pursuits and field studies. (in consultation with Take-a-Hike)
- Ensure there are charging stations in each room. (in consultation with Seismic Team)
- Form a collaborative etextbook group in the VBE. (in consultation with ERAC)
- Integrate [Challenge-based Learning](#). (implemented in Career Strategies 12 course with DI students)
- Challenge Based Learning includes these attributes:

Multiple points of entry and varied and multiple possible solutions

Authentic connection with multiple disciplines

Focus on the development of 21st century skills

Leveraging of 24/7 access to up-to-date technology tools and resources

Use of Web 2.0 tools for organizing, collaborating, and sharing

Focus on universal challenges with local solutions

Requirement that students do something rather than just learn about something

Documentation of the learning experience from challenge to solution

Take action and make a difference in the community

- All students will maintain and manage their own ePortfolio. (in progress and ongoing with DI students)
- Review Digital Immersion program direction and cross curricular integration aligned with new BC curriculum. (in progress)
- Form a partnership with a post-secondary for digital media arts programs. (in progress and ongoing with IDS11 and Career Strategies 12)
- Review wireless infrastructure and remediate service issues. (in consultation with infrastructure manager and seismic team)
- Migrate teacher blogs to district WordPress Multi site and MOODLE course to district site (in progress)

Year Four

2015 - 2016

- Establish policies around BYOD, storage and loaner equipment. (in progress)
- Transfer control of all tech support and imaging back to the school board. (in progress)
- Re-image all Apple device to comply with district image and manage under Cisco Meraki. (in progress)

- Professional Development for new laptop and leveraging their device for teaching and learning.
- Establish a sub committee in collaboration with department head to offer full curriculum to be housed on LMS.
- All students will have access to and be able to curate their personal and professional ePortfolio. (in consultation with Jeff Spence and Principal)
- Provide in-service training for MyEdBC.
- Facilitate transition from BCeSIS to MyEdBC.
- Deploy Office 365 email accounts for all students.
- Deploy Office 365 OneNote Classroom for every class to push a greater paperless model as well as boost collaboration.
- Promote literacy through the creating book talks and QR Codes
- Convert All assignments where possible should be submitted Digitally.
- All assignments and projects are documented and curated on personal ePortfolios.
- Acquire old laptops from a company looking to donate mobile devices.
- Create common areas or studio spaces for collaborative work.
- Students' council will create broadcast bulletins via LC and shared via school YouTube channel.
- Establish genius hour on a weekly basis facilitated by DI students.
- Facilitate ePortfolio training for all and requiring staff to maintain their own as exemplars.
- Facilitate social media to promote personal and professional branding in sync with ePortfolio.
- Expand work experience for DI students in work experience and Career Strategies 12
- Implement Digital Literacy 9 aligned with new BC Digital Literacy Framework.
- Integrate Digital Citizenship training within the Digital Literacy 9 course.
- Establish a Coding Club in partnership with development companies.
- Communicate site-wide 1:1 requirements to feeder schools and collaborate on a strategic transition plan.
- Pilot iBeacon technology at specific spaces to blend the physical space with the virtual space including learning commons.
- Reassess condition of devices and propose procurement needs in LC aligned with site-wide 1:1.
- Review wireless and appropriate use policy to all stakeholders in anticipation for site-wide 1:1.
- Request more bandwidth to facilitate the influx of devices and web traffic.
- Promote universal design of curriculum to minimum hardware requirement specifications.
- Communicate to all stakeholders the process and procedure around daily learning in a technology enable environment.

- Update website and create a social media campaign to promote 1:1 learning
- Promote CUEBC and PSA Super Conference at Vancouver Trade and Convention Centre

Targeted Professional Development

- Social Media
- Sharepoint 2013
- Office 365
- OneNote Classroom
- MacBook Air Training
- Surface Pro 3 Training
- iBeacon Technology
- iMovie on iPad for Book Talks
- QR Codes
- BC Digital Literacy Framework

Year Five

2016 - 2017

- All students will have 24/7 access to a mobile device that meet minimum standards whether personal or school supplied.
- Discuss plans for site-wide BYOD 1:1 with all stakeholders.
- Review policies and guidelines around BYOD 1:1.
- Create a payment plan for students who would like to pay over a term. (Computer plus insurance).
- Students will be able to borrow a loaner device temporarily if they are in need. (While device is in service)
- Facilitate a closer relationship with feeder schools by sending student leaders to train grade 6 and 7 students.
- All courses where applicable will be taught in a blended model.
- Deploy badge-based learning to promote school culture and personal and academic achievement.
- Deploy iBeacons across the school campus to interact with student devices add contextual feedback with the physical space.
- Leverage MyEdBC to communicate assessment with parents through the Aspen Parent Module.
- Leverage MyEdBC to perform student course planning through the Aspen Student Module.
- Deploy platform to facilitate Individual Development Plans for students and staff (Vittra Model)
- Create a platform linked to portfolios for curating student created content with tags for global search.
- Create a system for student recognition and an algorithm for aggregating content for student inspiration.
- Consult district seismic team to ensure the physical space is future proof and reflect ecosystem
- Review device security policies at the beginning of the year.