

CTF/CTS: Teachers and Students – Partners in Practice

Location: Louis St. Laurent and Harry Ainlay High Schools

Friday, January 26, 2018

Registration deadline: Friday, January 19, 2018 at 11:00 p.m.

| OVERVIEW OF SESSIONS OFFERED | | | |
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| 8:00 to 9:00 | Registration and Refreshments at Louis St. Laurent High School, 11230 43 Avenue, Edmonton | | |
| 9:00 to 9:30 | Keynote and Greetings from School Representatives | | |
| 9:30 to 9:45 | Coffee Break and Travel Time to Breakout Sessions | | |
| MORNING BREAKOUT SESSIONS | Session Title | Presenters | |
| | Bread with a Twist or 6 | Sandi Halliwell | |
| | Bullying: A Relationship Problem | Sarah Jensen | |
| | Career Pathways in a High School | Lisa Beebe and Lindsay Adrian | |
| | Core Mobility and Strengthening | Jessica Letourneau | |
| | Creating Accessories: Simple Backpack | Terri-Lynn Hyland | |
| | CTF and FLEX - Blending Teacher Passion with Student Interest | Janine Woronuk | |
| | Four Wheel and All Wheel Drive Systems | Russell Belik | |
| | French Macarons: Mastering Those Tricky Little Hamburger Cookies! | Deanna Miller | |
| | Learn to Code with iPad | Apple Education Presenter | |
| | 9:45 – 12:00 | Learning by Teaching: Students Can Teach More than You Ever Know | John Chan |
| | Python Coding in Math for Grades 5 to 9 | David Hay | |
| | Rethink Robotics | Neil Mazur | |
| | Storytelling with Photography & Adobe Lightroom Creations | Michael Leenheer, Michael Urbiztondo and Evan Chalupiak | |
| | Technology in Cosmetology | Carrie Patterson and Robyn Nicoll | |
| 12:00 – 1:00 | Lunch in the Cafeteria at Harry Ainlay High School, 4350 111 Street, Edmonton | | |
| AFTERNOON BREAKOUT SESSIONS | Session Title | Presenters | |
| | Abstract Student Engagement, Four Different Takes | Nathin Bye and Stephen Ashworth | |
| | Basic Pattern Drafting: Skirt | Terri-Lynn Hyland | |
| | Come Play in the Computer Lab | Colin Veldkamp | |
| | Engaging Students through Choice: The Challenge and the Opportunity | Gord Balbar and Zachary Flynn | |
| | Engaging Students through Project Based Learning (PBL) in Your CTF and CTS Programs | Donald McPherson | |
| | HIIT Class (High Intensity Interval Training) | Jessica Letourneau | |
| | 1:00 – 3:15 | Live Video Production by Students | David Hay |
| | Long Hair with a Twist | Shirley Rainbow | |
| | Rajun' Cajun and Creole Cooking | Olivia de Visser, Jaryd Murray and Garnet Madson | |
| | Student-centered Approach to CTS: Empowering Students with the Confidence and Skills to Lead Their Learning | Mary Newman-do Rosario and Brittney Adams | |
| | Teaching App Dev with Swift | Apple Education Presenter | |
| | Vinyl Decals for CTS Design! Dress Up Your Water Bottles | Mark Klopoushak | |
| Youth and Technology | Sarah Jensen | | |
| FULL DAY (AM & PM) | MIG it Up with a Side of Plasma | Adam Clifford and Curtis Rich | |
| | The Zen of English Paper Piecing | Cynthia Dyer | |

ALL SESSIONS ARE BY PRE-REGISTRATION ONLY

\$ 75.00 for the full day – includes lunch

\$ 40.00 per half day session – no lunch included

To register, click here: <http://eric.ca/programs/details.php?id=6975>

CTF/CTS: Teachers and Students – Partners in Practice

CTF/CTS: Professional Learning Day is a day intended to allow CTF and CTS teachers from across the region to get together and make connections with one another as well as with presenters from schools, industry and government, all focused on successful implementation of CTF/CTS programs. The theme this year is “**Teachers and Students - Partners in Practice**”. The CTF and CTS curricula were designed to encourage and value students to be co-designers in learning. Come and join colleagues and students in sharing ideas and approaches to support learning.

EASY REGISTRATION – ALL SESSIONS ARE BY PRE-REGISTRATION ONLY

- **Registration Deadline: Friday, January 19, 2018 at 11:00 p.m.**
- You will receive an email from **ERLC Administration** (info@erlc.ca) confirming your registration. If the email you receive does not include the names of the sessions you registered for, please contact ERLC since this is an indication that you are not properly or completely registered.

PARKING: Parking is available in the following areas:

- Harry Ainlay N.E. Student Parking Lot
- 43 Avenue Service Road
- 114 Street

Please **DO NOT PARK** at the Confederation Arena. Tickets will be issued by City of Edmonton for any violations.

PLEASE NOTE

On January 26, 2018, please honour your session selection! Session materials and room designations are based on registration; therefore, requests for changes cannot be accommodated after the registration deadline.

Please confirm your room number on the lists by the registration area upon arrival.

When you enter your session room, your name will be on the sign-in sheet based on your registration request. **Please sign in!**

At the end of your session, you will receive an email from ERLC Administration asking for your participation in an online survey. Please participate as your feedback is important for future PD planning.

Career and Technology Studies PD resources:

ERLC PD Resources

<http://erlc.ca/resources/find-resources-by-focus/?focuses=19>

ARPDC CTF Professional Development Resources and Provincial Professional Learning Opportunities

<http://albertactf.ca/>

SESSION DESCRIPTIONS & SPEAKER BIOGRAPHIES

WELCOME: 9:00 A.M – 9:30 A.M.

Keynote and Greetings

FULL DAY SESSIONS: 9:45 A.M. – 3:15 P.M.

| Session Description | Presenter Biography |
|---|---|
| <p>MIG it Up with a Side of Plasma</p> <p>Welcome to Gas Metal Arc Welding and Plasma Arc Cutting basics. This session will teach safety and skill set with equipment used in a Welding shop environment. Being a full day session, you will have time to build multiple projects that can be introduced in your classroom immediately. Personal Protective Equipment will be provided and please wear jeans and closed toe footwear. CTF teachers this would be a great opportunity for you to build some basic skills and projects that can be used.</p> | <p>Adam Clifford was hired by CLAC in 2014 as a welding instructor and to aid in developing welding curriculum and courses. Adam currently teaches Period 1 Welding Pre-Employment courses and works closely with the Secondary welding instructors in the greater Edmonton area on High School camps and competitions.</p> <p>Curtis Rich has been teaching Welding/Fabrication for 11 yrs and currently is the instructor at Jasper Place High School. Curtis actively works with Secondary welding instructors in the Edmonton area developing close knit curriculum between the high schools.</p> |
| <p>The Zen of English Paper Piecing</p> <p>English Paper Piecing is a classic quilting technique that involves wrapping fabric around a paper piece to form a hexagon shape. The versatility of this technique allows you to sew your shapes together to create beautiful heirloom looking pillows, pin cushions, table runners, tote bags or throw quilts. This workshop will highlight Paper Piecing as much about story telling as it is about design and the mechanics of sewing. Built on centuries of tradition, the techniques explored will become a way for you to express yourselves through colour, texture and shape.</p> <p>Additionally, working with fabric and shapes provides a “Zen” experience as you enjoy the soothing, therapeutic rhythm while you hand piece. Hand piecing is an uncomplicated pleasure and it creates a wonderful sense of well-being as you work through each block bringing you to a satisfying sense of completion of your project.</p> <p>This session will provide you with the techniques provided for students to learn how to English Paper Piece. The take-away for this session is multifold:</p> <ul style="list-style-type: none"> • English paper piecing is portable. Students will learn the technique and it can be applied and taken anywhere to do; • hand-stitching is found to help lesson anxiety where it provides a therapeutic sense of well-being and calm when students get into the “Zen” moments while being creative and having autonomy of creating their own projects. | <p>Cynthia Dyer is a Foods & Fashions teacher who is passionate about creating, learning, and teaching and brings this passion into her classroom where she loves to share and show new ideas. A life-long learner and artist, Cynthia brings a creative, entrepreneurial spirit to everything she does, always keen on empowering those around her and creating memorable experiences rich with learning opportunities.</p> |

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| <p>Additionally, fellowship, sharing and community are key as students can get away from technology and embark in story-telling and communicate with each other as they are stitching.</p> | |
| <p>As well, this art helps improve hand-eye coordination by piecing with a running stitch. Many athletes (male and female) are taking up hand-stitching to help improve hand-eye coordination.</p> | |

MORNING SESSIONS: 9:45 A.M. – 12:00 P.M.

| Session Description | Presenter Biography |
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| <p>Bread with a Twist or 6</p> <p>You will experience a locally designed lesson involving two CTS courses: Foods and Cosmetology. Combining these two courses allows students to teach skills that they have developed to their peers, producing a unique and delicious result. This session will have three parts utilizing both the Foods lab and the Cosmetology lab. Students from the Harry Ainlay Foods and Cosmetology classes will be involved in the presentation and delivery of this session.</p> <p>Part One: You will begin the session by making a bread dough recipe in the Foods lab that will then be left to rest and rise.</p> <p>Part Two: To be conducted in the Cosmetology lab where you will be given instruction and time to practice braiding long hair using 3, 4, 5 and 6 strands of hair.</p> <p>Part Three: Returning to the Foods lab to punch down the dough, scale it and then shape it. You will use the skills learned in Cosmetology to braid your bread using a desired number of strands. After shaping, proofing and baking, you will take your own loaf of braided bread with you.</p> | <p>Sandi Halliwell is a U of A Graduate and is a Teacher with Edmonton public since 1986. She taught at J. Percy Page, McKernan, Highlands, Bonnie Doon, Eastglen and currently at Harry Ainlay.</p> <p>Shirley Rainbow has 20+ years of teaching experience. She currently teaches at Harry Ainlay School.</p> |
| <p>Bullying: A Relationship Problem</p> <p>This session comes from an understanding of bullying as a relationship problem, and that healthy societies, communities and schools depend on the healthy relationships within them. Bullying prevention, then, should be based on modelling and encouraging healthy interactions, as well as responding appropriately to anti-social, aggressive behaviour. This session will teach you the building blocks to create a positive social climate, as well as how to help students understand the role of power in instigating, responding and preventing bullying, and the differences between bullying and conflict. Resources will be shared as well as activity ideas that can be used in the classrooms. Topic adapted from the Red Cross bullying and harassment prevention program, Beyond the Hurt.</p> | <p>Sarah Jensen (BEd) is a Trainer with the Canadian Red Cross Respect Education program. She brings energy and enthusiasm to her workshops and, using hands-on activities and engaging conversation, ensures that participants walk away feeling empowered to make a difference with their students in their schools.</p> |

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| <p>Career Pathways in a High School</p> <p>We will provide teachers with different self-discovery and career exploration resources and learning opportunities. We will do a deep dive with one tool, myBlueprint, and how it can be used to support success for all students in preparation for life after high school. This program can be used for all students through grades 7-12.</p> <p>Edmonton Public Schools' Career Pathways is an opportunity for teachers to continue making their lessons purposeful and relevant while complementing current classroom teaching practices. Students learn to set goals and further develop the skills, knowledge and attitudes that increase their readiness to successfully transition beyond high school to whichever pathway they choose. Some examples of Career Pathways tools in action in for your core classes in high school: myBlueprint, Campus EPSB, Curricular resources, Inquiring Minds, Dragons' Nest, Marketplace, HCS3000."</p> | <p>Lisa Beebe is a Consultant for EPSB with Research and Innovation for Student Learning, Career Pathways. She is a Teacher with EPSB High School (10-12), Technology Lead, Post-Secondary Career Counsellor, Web Design and CTS.</p> <p>Lindsay Adrian is Consultant for EPSB with Research and Innovation for Student Learning, Career Pathways. She is a Teacher with EPSB Junior High, Work Experience, RAP and CTF Lead.</p> |
| <p>Core Mobility and Strengthening</p> <p>This class will guide you through how to increase range of motion throughout your hips and back and how to strengthen your abdominals, obliques, low back, and glutes.</p> | <p>Jessica Letourneau has been a personal trainer since 2010 and loves watching her clients progress and achieve their goals. She started off this journey at the U of A with a degree in Kinesiology and has never looked back.</p> <p>She is constantly looking for courses to expand her knowledge base to continue delivering the best quality of training to her clients. She works with clients from beginner and athlete and has a drive for helping her clients be the best version of themselves.</p> |
| <p>Creating Accessories: Simple Backpack</p> <p>Looking for a great sewing project to keep students engaged while teaching FAS1060 or Advanced CTF students? The simple backpack is a classroom test project that both males and females will have success in making.</p> <p>Strategies and patterns for completing this project will be shared.</p> <p><i>You will need to bring 1 meter of woven fabric with you to the session to complete the project.</i></p> <p>We will complete the project together, so you will have a sample to share with your students on Monday morning.</p> | <p>Terri-Lynn Hyland graduated from the University of Alberta with a major in Clothing and Textiles. She worked in the fashion industry for several years before returning to University to get her Bachelors of Education. She has been teaching teenagers to design and sew for over 25 years. She is well versed in Sewing techniques and has sewn and designed many garments. She loves sharing her love of sewing, reading, spending time with her family and travelling.</p> |
| <p>CTF and FLEX - Blending Teacher Passion with Student Interest</p> <p>FLEX programming is new to Ecole Leduc Junior High School. Once a month, teachers pitch ideas of sessions to facilitate that are of interest to them - something they are passionate about and would love to teach and share with the students. Staff are given the opportunity to connect with kids (through mixed groups of Grade 7, 8 and 9) on a level much more engaging than regular programming. Through 21st century skills like collaboration, communication, creativity and play, ELJHS teachers are</p> | <p>Janine Woronuk is in her 13th year of teaching and her current timetable includes Language Arts 8, Social 9, Social Media/Website coordinator, Lead Tech teacher, and CTF/FLEX administrator. Seeing a lack of passion among both teachers and as a result, many students, Janine was excited about Alberta's CTF curriculum implementation and has spent the past three years building Ecole Leduc Junior High's CTF complementary course offerings, along with creating materials to help support CTF teachers plan, teach, and assess CTF outcomes.</p> |

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| <p>able to offer educational programming that ignites them, to kids who are eager to participate in something new!</p> <p>École Leduc Junior High School's FLEX Day saw some amazing sessions including Harry Potter Wand Making, Science Olympics, Wooden Letter Creation, Halloween Costume Design, Mindful Meditation, Salsa Dancing, Sports Injury Taping, Senegalese Wrestling, a Nature Walk, School Yard Clean Up and a COED Volleyball tournament. The school was buzzing with the sounds of engagement as everyone had a blast learning something new!</p> <p>Through this session, you will see the basics of how FLEX Days are organized at ELJHS, including teacher session input and student sign-up, along with how the day is organized to run as smoothly as possible. Many of the engaging activities that take place during ELJHS's FLEX Days would make great CTF courses, so planning materials will also be shared. Be prepared to see how teacher passion greatly impacts student engagement and makes learning an adventure for everyone!</p> | |
| <p>Four Wheel and All Wheel Drive Systems</p> <p>This session will describe various design manufacturers use in four wheel and all-wheel drive systems and will illustrate causes of driveline failures.</p> <p>Real-life experiences to driving, diagnosing, repairing, and instruction of four wheel and all-wheel drive systems will be shared.</p> | <p>Russell Belik has been a Journeyman Auto Service Technician for over 25 years, 10 years as foreman and technician at a Jeep dealership. He has 10 years' experience as instructor of Apprenticeship Automotive Service Technician Program at NAIT. Currently, he is the Academic Chair of NAIT AST Program.</p> |
| <p>French Macarons: Mastering Those Tricky Little Hamburger Cookies!</p> <p>Looking for an advanced recipe to teach your Food Studies students? Needing some tricks and tips to master an advanced Skills Alberta baking competency? Or maybe you just always wanted to know how to make those pretty colored French treats. French Macarons are tricky little meringue based cookies with a variety of fillings from pistachio buttercream to salted caramel.</p> <p>In this session, you will be making the cookie shells and a caramel filling. You will also learn how to make French buttercream and how to fix some common problems associated with this icing. You will leave the session with tested recipes, a troubleshooting sheet, ideas on how this can fit in your curriculum and an assortment of delicious macarons.</p> | <p>Deanna Miller is a Culinary Arts and Fashion Studies teacher at Vegreville Composite High where she works with grade 7-12 students in classes, the cafeteria, Edmonton High School Culinary Competition, Skills Alberta and catering. Deanna has been a teacher for over 15 years, 10 of those with Edmonton Catholic Schools where she taught Food and Fashion Studies at Louis St. Laurent High. Currently, she is pursuing her own fashion line and has been volunteering with Western Canadian Fashion Week and Fashion with Compassion for Sorrentino's Compassion House. She loves to create and is enjoying country life with her husband, 3 children, 8 birds, 6 cats and dog.</p> |
| <p>Learn to Code with iPad</p> <p>Coding is essential to help students thrive in a future driven by technology. When you teach coding, you inspire creativity and teach skills like critical thinking, problem solving and teamwork. Learn how you can engage middle school and junior high students in the world of coding with Swift Playgrounds and Everyone Can Code resources designed for teachers. So, whether your students are first-</p> | <p>This session will be facilitated by Apple Education.</p> |

time coders or interested in programming robots and drones, you'll have all the tools you need to teach coding in your classroom.

In this workshop you will:

- Experience coding in Swift Playgrounds, a revolutionary app for iPad that makes getting started with code fun and interactive.
- Explore lesson plans and teacher guides designed to bring coding into grades 6-9 classrooms.
- Engage student minds using Swift Playgrounds to interact and control robots and connected devices with code.

Learning by Teaching: Students Can Teach More than You Ever Know

Grade 9/10 Computer Science and computer-related courses, such as Video Game Programming, Design Studies, Computer Technology & Communications, Photographic Arts, and Robotics has one common component in which there is a computer and the course-related software. Some of the material is a bit hard to "digest" especially in a single session so the novel idea of students leading the teaching came about.

Each week, a different student will be "operating" the teacher station; where the teacher provides the instruction and the student proceeds to perform the action for the class to see. This engages the student at the console and as each takes his/her turn, learning becomes more fun and is taken more seriously. And most importantly, the lesson proceeds at a student-led pace.

There are opportunities for the student to provide input and make his/her own choices whenever there are options; so, each lesson actually takes on a different "outlook and flavor", if you will. The student take pride and "ownership" of the lesson this way.

John Chan has been teaching at the high school level for 17 years for Sciences and anything technology-related. Prior to this career, he was a research assistant in pediatric leukemia research at the Cross Cancer Institute for 10 years.

There are so many stories he can share from his experiences and what he has done so his classes. These "tall tales" provide a suitable break in an otherwise long session.

Python Coding in Math for Grades 5 to 9

Moving beyond "drag and drop" coding introductions, we can have students writing in languages that are used by professional programmers. Python is ideally suited to introducing students to writing code, and how they can use Python to solve problems in math as well as other disciplines. We'll look at how to introduce concepts such as variables and functions, as well as fun stuff like turtles, easy-to-use graphing, and putting it all together in Jupyter notebooks (through Cybera's free web-based data science platform). With a Google account and a Chromebook or computer we can have you ready for Monday.

David Hay taught high school science and technology courses for ten years, was a consultant for seven years in the areas of technology and innovation, and is currently teaching grade six. He can be found online under the name MisterHay.

Rethink Robotics

This session will deliver the perspective from both the teacher and that of students in robotics. It will be a hands-

Neil Mazur has been teaching career and technologies studies courses at Harry Ainlay for over a decade. Rethink Robotics is Neil's latest session to be offered to both CTF and CTS teachers. He has hosted many sessions over the

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| <p>on experience with all necessary hardware and software provided for the session. Each teacher will be provided with a full Lego Mindstorms kit for the session as well as a student tutor. The session is designed to cater to both CTF and CTS teachers. Lego Mindstorms can be utilized from elementary all the way through high school. This opportunity is for both beginner and advanced robotics teachers and learners. We will explore the basics of programming and operating of robots to advanced trouble shooting techniques.</p> <p>**Session limited to 15 teachers ** there will be 15 student tutors</p> | <p>years and continues to share his passion for teaching and learning through a session on robotics through the use of Lego Mindstorms.</p> |
| <p>Storytelling with Photography & Adobe Lightroom Creations</p> <p>We all know a great image when we see one. It creates a response – a feeling, a connection, a greater understanding or perhaps simply a good laugh. Using the right images, a school can encourage participation at events, raise awareness of activities or programs, and increase school spirit. Whether in a newsletter, an online post, or a yearbook, the right images tell a story more effectively than a thousand words.</p> <p>The skills required to capture great storytelling images can be learned even by a novice photographer. We'll cover some of the skills and techniques that can strengthen your images including the elements of an image that make it work, how to anticipate and capture the right moments at an event, and how to use photography to bring people together throughout your school.</p> <p>In addition, we will showcase a student's perspective on the value of CTS Photography curriculum and how it inspires students to engage others within their community and a student-led Lightroom tutorial.</p> <p>Teachers will be using Adobe Lightroom to get the full benefits of image management and workflow.</p> | <p>Michael Leenheer has loved photography since childhood. In one of his earliest portraits, he is holding his dad's light meter (and probably recommending a compositional adjustment) as dad lined up the shot. Taking every available opportunity to use a camera through his school years, he studied photography at the Northern Alberta Institute of Technology before launching his professional career.</p> <p>Now with more than 20 years of experience, awards, and happy clients, Michael is still excited to learn new techniques and study his art. Michael works full time as a photographer capturing weddings and families, and he owns a photo studio on campus at the University of Alberta. He teaches and mentors enthusiasts at all skill levels.</p> <p>Michael Urbizondo is a grade 11 Louis St. Laurent student and has a professional interest in photography.</p> <p>Evan Chalupiak currently teaches Photography at Louis St. Laurent and has been using Adobe products for nearly 20 years.</p> |
| <p>Technology in Cosmetology</p> <p>Put yourself in your students' shoes. Come and participate in a cosmo project that will incorporate Google classroom with practical work.</p> <p>We will connect every aspect of the class to course outcomes.</p> | <p>Carrie Patterson is currently a teacher with Edmonton Public School Board. She started as licensed hairstylist before moving into education. Carrie is passionate about engaging students and making cosmetology relevant to them.</p> <p>Robyn Nicoll is a Journeyman hairstylist. She has spent years in the industry working in salons and doing hair and wigs for film, Operas and Broadway productions. She has worked with students for the past 6 years and is currently employed by Edmonton Public, Black Gold and Elk Island. Robyn has a great ability to connect with students which makes her able to teach a diverse group of students.</p> |

AFTERNOON BREAKOUT SESSIONS: 1:00 P.M. – 3:15 P.M.

| Session Description | Presenter Biography |
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| <p>Abstract Student Engagement, Four Different Takes</p> <p>Our presentation presents ideas around physical space as well as readily available resources that help promote interaction and engagement with our students.</p> <p>The four different unique strategies we focus on are:</p> <ul style="list-style-type: none"> • The Classroom as Theatre • The Classroom as Movie • The Classroom as Chautauqua • The Classroom as Spa <p>Our unique presentation takes a different look on how to function in a new or different space. How to engage the student using different principles that are a little bit avant-garde can make the classroom experience memorable and helps in dealing with the ever-evolving universal design for education.</p> <p>Although this is a super quick snippet, we are very excited to present our unique take on student engagement.</p> | <p>Nathin Bye is a brand new teacher for 1.5 years, a red seal chef by trade, and is currently at St. Joseph Catholic School and sessional at NAIT. He taught full time at NAIT for the 2016-2017 year in the School of Hospitality dealing with Menu Engineering and development, Purchasing Controls and Inventory.</p> <p>Stephen Ashworth has been an educator for over 20 years in drama and currently at NAIT. He is an avid film director and creator and is highly involved in the Edmonton Arts Scene. He is currently working on restructuring and developing/expanding the business curriculum at NAIT.</p> |
| <p>Basic Pattern Drafting: Skirt</p> <p>Learn basic drafting techniques to help you teach FAS2060 - Pattern Drafting. Using your body measurements, you will draft a basic skirt and learn techniques to finish the pattern and create a mock.</p> <p>This is a great project to engage students in learning the basics of pattern making.</p> <p>You will need to bring 1 meter of lining fabric to create the mock.</p> | <p>Terri-Lynn Hyland graduated from the University of Alberta with a major in Clothing and Textiles. She worked in the fashion industry for several years before returning to University to get her Bachelors of Education. She has been teaching teenagers to design and sew for over 25 years. She is well versed in Sewing techniques and has sewn and designed many garments. She loves sharing her love of sewing, reading, spending time with her family and travelling.</p> |
| <p>Come Play in the Computer Lab</p> <p>At this session, a variety of technologies and practical applications of these technologies for the classroom will be explored. The technologies that we will play with include Screencast-O-Matic, Google Classroom, Google Forms, Quizlet, Prezi, and Computer Programming. There will also be time for you to work with the technologies and build materials for your classrooms the next day.</p> | <p>Colin Veldkamp is an educator who tries to inspire his students to learn to the utmost of their ability. He has taught a wide range of grade levels and subjects at a variety of schools. Most recently, Colin has been teaching Computing Science at Harry Ainlay High School. He has benefited from the wisdom and direction of many others and would like to pass along the lessons he has learned.</p> |
| <p>Engaging Students through Choice: The Challenge and the Opportunity</p> <p>The CTS philosophy says that we should allow students to personalize their learning, identify and explore their interests, manage transitions and build partnerships while developing basic competencies. Edmonton Public School's Career Pathways initiative encourages us to help students to learn to set goals and further develop the skills,</p> | <p>Gord Balbar has 32 years of teaching experience, has taught CTS since its inception, was the CTS Consultant for Edmonton Public Schools for four years, and is currently the CTS Department Head at Eastglen School.</p> <p>In his current assignment, he is the school's co-lead in Career Pathways, the school sponsor for the Robotics and Broadcasting Clubs, and a Provincial Technical Committee volunteer for the 2D/3D Skills Canada Competition. His</p> |

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| <p>knowledge and attitudes that increase their readiness to successfully transition beyond high school. Alberta Education’s High School Redesign encourages flexible timetabling and learning experiences.</p> <p>It is the speaker's opinion that choice facilitates engagement, that CTS is designed to allow that choice, and that allowing students to practice real choice in the selection and direction of their courses better prepares them to make similar career pathways decisions throughout their lives.</p> <p>By sharing stories, discussing strategies, and exploring scenarios specific to your CTS employment area, we will challenge you to consider—and perhaps try—an expansion of the degree of choice that you offer the students in your program.</p> | <p>hobbies include motorcycling, video, photography, and the outdoors.</p> |
| <p>Engaging Students through Project Based Learning (PBL) in Your CTF and CTS Programs</p> <p>Most CTF and CTS teachers use ‘projects’ in their programs but the theory and practice of Project Based Learning (PBL) goes far beyond the completion of practical tasks assigned by instructors.</p> <p>In this session, Don will share ideas from his experience with project-based learning as an instructional strategy in CTF and CTS settings. This will include not only a brief discussion of the theory of PBL, but examples of projects that have been successfully used in middle schools, high schools and university teacher education programs.</p> <p>You will have a chance to examine and discuss some of the projects you currently use and see how they can be made into more effective and engaging project-based learning plans that address the rationale and outcomes of both CTF and CTS programs of study.</p> | <p>Donald McPherson taught Industrial Education, CTS and CTF for more than 30 years. He was involved with the implementation committees of both the Construction Technology strand of CTS and the new CTF program. After working in Urban, rural and suburban K-12 education, Don has become an instructor in the CTS teacher education program at the U of A.</p> <p>As a retired “shop” teacher, he prefers teaching classes in a room full of tools, where he can engage the minds and hands of students through challenging projects. However, from time to time he takes off his shop coat and tries to challenge teachers to think differently about how technology education is delivered to students of all ages.</p> |
| <p>HIIT Class (High Intensity Interval Training)</p> <p>This high intensity interval training class will take you through a total body workout using a variety of different timed sets. Expect to get sweaty as your instructor takes you through a series of intense anaerobic exercises and lower intensity recovery intervals. This class offers modifications and levels to accommodate a range of fitness levels.</p> | <p>Jessica Letourneau has been a personal trainer since 2010 and loves watching her clients progress and achieve their goals. She started off this journey at the U of A with a degree in Kinesiology and has never looked back.</p> <p>She is constantly looking for courses to expand her knowledge base to continue delivering the best quality of training to her clients. She works with clients from beginner and athlete and has a drive for helping her clients be the best version of themselves.</p> |
| <p>Live Video Production by Students</p> <p>Live video produced and anchored by elementary or junior high students? Yes, we can. Some possible projects include live video announcements, speech competitions, sports events, game shows, or alternatives to whole-school assemblies.</p> <p>We'll look at a few different ways to do this, technical as well as logistical considerations to get you up and running. This will include some quick, easy, and free ways and</p> | <p>David Hay taught high school science and technology courses for ten years, was a consultant for seven years in the areas of technology and innovation, and is currently teaching grade six. He can be found online under the name MisterHay.</p> |

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| <p>perhaps building up to professional-looking (and expensive) methods.</p> | |
| <p>Long Hair with a Twist</p> <p>This hands-on session will have you teaching familiar long hair styling techniques that engage students, is highly motivating, and has them achieving immediate personal satisfaction. Students can enjoy the progression of learning as they move from practice to mastery with a few simple twists. Students will experience greater success when they are engaged and are enjoying their practice.</p> | <p>Shirley Rainbow has 20+ years of teaching experience. She currently teaches at Harry Ainlay School.</p> |
| <p>Rajun' Cajun and Creole Cooking</p> <p>This student-led course will be taught by a Registered Apprenticeship Program Student who has completed Harry Ainlay's Culinary Arts program, Olivia de Visser, along with Chefs Jaryd Murray and Garnet Madson.</p> <p>The focus of the session will be on foods that can be replicated in a foods lab or culinary program. The recipes for the class include Iced Mint Orange Honey Tea, Seafood Cajun Spice, Shrimp Etouffee, and a Half-Baked Chocolate Soufflé. As well, there will be a quick lesson on the history and fusion of Cajun and Creole food.</p> <p>Participants enrolled in the class should come prepared to cook and engage in group work.</p> | <p>Olivia de Visser is a grade 12 student who has been hired as a RAP student in the Harry Ainlay Culinary Arts program and Cafeteria. She is in the process of completing her first period apprenticeship as a cook.</p> <p>Garnet Madson is a young Chef with a Journeyman Certification. Garnet has worked in some of the top restaurants in Edmonton and has Competed on Team Alberta for Culinary Arts. Garnet is in charge of the Cafeteria production.</p> <p>Jaryd Murray has a NAIT Cooking Diploma, a Journeyman Cook Certification, and a Master's Degree in Education. He has been teaching Culinary Arts with ESPB for 9 years and is the RAP coordinator in the afternoons. Jaryd has been cooking professionally for 20 years in multiple countries.</p> |
| <p>Student-centered Approach to CTS: Empowering Students with the Confidence and Skills to Lead Their Learning</p> <p>Feeling like there is never enough hours in your day to accomplish all you'd hoped for your CTS classes? Come see how student engagement is maximized by implementing an inquiry-based learning model in a very busy Commercial Foods setting. Personal experiences along with student testimonials will be shared in the hope to inspire you to approach CTS where students lead, and the teacher facilitates.</p> <p>You will leave this session with tools and strategies to apply in your classrooms the next day. The tools can be quickly and easily adapted to other CTS areas. How creating a safe space where students can be creative, demonstrate leadership and take ownership of their experience will not only change the dynamics of your daily work load but will result in increased student engagement through meaningful hands on learning.</p> <p>As well, tips and tricks for planning some of the most memorable field trips one can imagine will be explored! Our field trips are curriculum based, engaging and create a learning frenzy! Like us professionals, students need to be exposed to practical application and return to school feeling excited and inspired to try new things.</p> | <p>High energy, contagious smile and positive disposition are just a few of Mary Newman-do Rosario's attributes. While she is laughable and loveable, she is packing the heat when it comes to being a CTS: Commercial Foods Teacher for the last 12 years with Elk Island Public Schools. She enjoys participating in everything from Fan Bus to being the schools Health Champion.</p> <p>Mary grew up in Leduc, Alberta and her earliest memory is of her Grandmother, teaching her how to make peanut butter cookies at 4 years old. Now Mary is able to share her love and passion of cooking with students every day, just as her Grandmother did with her as a child. She completed her Bachelor of Education at the University of Alberta with a major in Human Ecology in May 2005.</p> <p>Today she works with Brittney Adams, a former student and now, a Red Seal Chef. Brittney completed her Red Seal as a NAIT graduate. At the early age of 20, Brittney had competed on the international culinary circuit, worked as a Professional Chef and experienced a level of success that many in her field only dream of. Eager and driven with a passion to give back, she now chooses to work at Fort Saskatchewan High School where she is instrumental in providing students with a meaningful and enriching experience. She is currently a student at the University of Alberta where she is working on her Bachelor of Education. She has experienced the evolution of the CTS program</p> |

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| | <p>from the student to instructor and will share her unique perspective with attendees.</p> |
| <p>Teaching App Development with Swift</p> <p>Learning to develop apps can help your students solve problems, work together in creative ways, and bring their ideas to life. Join us at this half-day workshop to explore Intro to App Development with Swift, a free one-semester course designed to teach students with little or no programming experience how to build their first iOS apps.</p> <p>In this workshop you will:</p> <ul style="list-style-type: none"> • Learn why Swift—a powerful programming language—is great for both professional developers and students who are just learning to code. • Explore course materials that can give students practical experience with app development concepts, tools, and techniques. • Review the companion teacher guide with lesson plans, discussion prompts, and curriculum standards alignments. • Get hands-on experience using Mac and Xcode project files included in the learning materials. • Discuss how you could use these resources at your school with other educators in your area. <p>Don't miss this opportunity to see how to get started teaching app development at your school.</p> | <p>This session will be facilitated by Apple Education.</p> |
| <p>Vinyl Decals for CTS Design! Dress Up Your Water Bottles</p> <p>Student engagement is often lost in design classes when no tangible products are created. By using relatively cheap equipment, you can provide students with products that they can design, make, and keep for years to come. This not only adds to student engagement, but also allows teachers to further develop students' knowledge of the design cycle.</p> <p>Skills that will be taught are:</p> <ul style="list-style-type: none"> • Using Adobe Illustrator to create vector graphics • Using a vinyl cutter to create decals | <p>Mark Klopoushak is a CTS/CTF teacher at Louis St. Laurent School, Edmonton Catholic Schools.</p> |
| <p>Youth and Technology</p> <p>Youth have online friends, online interests, belong to online communities, and there are parts of their relationships that also take place online. As adults, then, how can we empower youth to keep themselves and their friends safe – especially when it comes to dating? Topics covered include online communication, what aspects of digital relationships are healthy and unhealthy, keeping our youth “media smart,” and sexting and the law. You will walk away with the confidence to help youth navigate their technological world in a safe, healthy, and respectful way. Resources will be shared as well as activity ideas that can be used in the</p> | <p>Sarah Jensen (BEd) is a Trainer with the Canadian Red Cross Respect Education program. She brings energy and enthusiasm to her workshops and, using hands-on activities and engaging conversation, ensures that participants walk away feeling empowered to make a difference with their students in their schools.</p> |

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| classrooms. Topic adapted from the Red Cross Healthy Youth Relationships program. | |
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