



## Updates & News for Fall & Winter Quarter 2011

Welcome back Washington State Educators to fall quarter/semester 2011. While the summer passed quickly, and only now in September are we seeing hints of the sun, the Center of Excellence was busy working on and planning for you and your educational institution:

- Professional development training opportunities: [Building Your Web 2.0 Website with WordPress](#) (November 4<sup>th</sup> and 5<sup>th</sup>, 2011)
- [Degree/certificate reviews](#) (November/December 2011)
- The [Washington State ICT Community/Technical College Program Directory](#) (Publication: January 2012)
- The second annual [STEM Summit](#) (February 9<sup>th</sup> and 10<sup>th</sup>, 2012)
- [The Life of an IT Professional: A Five Minute Story](#) (an IT professional competition/video series)
- A new IT Programs of Study Template focusing potentially on Software Engineering (Applications/Systems)
- New informative and Web 2.0 upgrades to the [Center Website](#)

### Learn IT Technology Today for Tomorrow: A Series of IT & CS Professional Training Opportunities for WA State Educators



The Center is committed to continuing to provide high-quality, time-compressed, affordable hands-on information and computing technology professional training opportunities for Washington State Educators.



The first in this series is: ***Building Your Web 2.0 Website with WordPress***

Saturday/Sunday, November 4/5, 2011, 9:00 a.m.-3:30 p.m. (Friday) & 8:30 a.m.-1:00 p.m. (Saturday), Bellevue College, \$100

#### **What do you get for the \$100 registration fee?**

- Two-days of excellent instruction from [Juan Ulloa](#)
- Breakfast, lunch, and a p.m. snack
- Curricular materials as well as textbook(s)
- An exciting give-away opportunity

**Faculty Audience:** All disciplines

**Prerequisites:** 1) Ability to create and organize files and folders using Windows is essential; and, 2) Web Savvy: comfort with browsing the web and using web-based resources.

**Course Description:** Do you want to build a Website using Web 2.0 tools and technologies to better talk about the work you do and classes you teach? This workshop will teach how to quickly build a website that utilizes blogging and uses web-based video (YouTube/Vimeo), RSS feeds and integrates with your communications in Twitter, Facebook and Flickr. You'll also learn the basics of tracking the usage of your website to measure how your website is being used.

You will learn how to do this using WordPress, the most popular open source content management system. You will also learn how to tap into the WordPress community so you can do all of this with minimal knowledge of web development.

#### **Objectives:**

- Learn and build a website with WordPress
- Learn to use themes and plugins on your WordPress website to get your site to look and behave the way you need it to
- Understand and apply the aesthetic elements of user interface (UI) that create an appealing website.
- Understand and apply Web 2.0 tools to enhance a website
- Understand and apply Google Analytics to track and monitor your website's traffic and why people visit your website

[Register here!](#)

## Information and Computing Technology Degree/Certificate Reviews: Fall 2011



**Course Outline**  
Data Compression, COMP 423  
(Winter 2008 3:00P-12:35-1:25 N-210)

Instructor: Professor Robert Lang  
Office: Science Building 3011  
Tel: 206 444 2271  
Email: rlang@pu.edu  
Office Hours: By appointment

**Introduction**  
Data Compression is the computational problem of how to encode a data file (text, image, audio, video) so that the size of the file is as small as possible. Compression is possible when the original file contains redundancies, such as when certain symbols or sequences of symbols in the file occur more often than others. An example is the redundancy of English text: the letter "e" occurs more frequently than the symbol "z", the letter "n" is almost always followed by the letter "t", etc. The basic technique of data compression is to re-encode a data file using the most

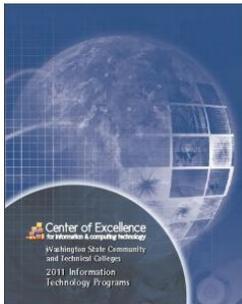
**The Center is accepting applications for a 2011 and a 2012 ICT review sessions.**

The Center works with its IT/CS industry professionals (from multiple career pathways – web programming, programming, development, engineers, networking, systems, database, hardware/software technicians, and gaming, etc.) to review up to twelve Washington state CTC IT/CS program degrees and certificates currently in place (one degree or certificate per college). This service will be offered at no charge to up to twelve participating state CTCs at any time during the 2011 and 2012 year. Once you make the request, the Center will schedule a review team and date for fall 2011 and spring 2012. Since 2010, the Center has performed 13 ICT degree/certificate reviews as a free service for the Washington State CTC system.

**Please submit your college degree or certificate to Maureen Majury at [maureen.majury@bellevuecollege.edu](mailto:maureen.majury@bellevuecollege.edu) by FRIDAY, NOVEMBER 4, 2011.**

[Find out more](#) about the process, the history, and access to the application online form.

## Submit Changes for Your Information or Computing Technology Program Now for the 2012 Washington State CTC ICT Program Directory



The Center has sent out a call to all 34 Washington State community and technical colleges for any changes they need to make to the annual ICT Program Directory for the 2012 edition.

This directory devotes one-page to each of the state's community and technical college ICT programs, if offered at the college, and details the title(s) of the program, a program overview, the technical knowledge and skills students will have gained by the time they graduate, degree and certificate options and who to contact for further information. This is an excellent resource for career counselors, academic advisors, students, parents and industry to review, compare and consider career pathways leading towards a career as an information and computing technology professional.

Look at or share the [link](#) to last year's edition. If you did not receive one of the email requests for an update, please contact [maureen.majury@bellevuecollege.edu](mailto:maureen.majury@bellevuecollege.edu).

## Register for the 2012 Second Annual STEM Summit



[Registration](#) is open for the second annual STEM Summit (Science, Technology, Engineering, and Math): Emerging & Innovative Trends for Tomorrow’s Classroom on Thursday, February 9th, and Friday, February 10th, 2012.

**About the [STEM Summit](#):** This two-day Summit will introduce you to K-20 best practices in education focusing on innovative teaching and learning in STEM. As attendees, you will be examining curriculum for incorporation of best practices in STEM teaching and learning.

This *free* event includes lunch and snacks, materials, and fun giveaways.

- Your educational colleagues will be sharing their strategies for incorporating STEM in the classroom
- Industry professionals from allied health, aerospace, construction, information and computing technology, and manufacturing will highlight emerging technology and workforce trends.

The STEM Summit will announce the keynote speaker after October 2011.

We are in the process of reserving the Hotel Sierra, a premier boutique hotel, a less than five minute walk from the N-Building at Bellevue College, for you at a great rate. Visit the [Hotel Sierra](#) to reserve your room now. After Friday, January 20, 2012, the room rate may no longer be available. Mention or use the code “STEM Summit” to get this rate. Contact us if you have any questions.

**Note:** The program is in development and will be updated as we recruit all of our great speakers, presenters, and panelists.

## “The Life of an IT Professional: A Five Minute Story” Video Competition 2012



We are again inviting Washington State community or technical college students who are studying information technology or computer science to enter 2012 *The Life of an IT Professional: A Five Minute Story* competition.

The Center now has a library featuring the [video profiles](#) of five IT professionals (IP support specialist, development/platform evangelist, systems administrator, senior test engineer, applications developer). These IT professionals discuss educational background, what they do in their job on a daily basis, the key skills needed to work as an IT professional, and what makes their jobs exciting and challenging.

**The competition is again open through April 2012.** This is a great opportunity for students to showcase their video skills, find out about a career in information and computing technology, add something substantive to their resumes, become comfortable in an interview situation, as well as having your video highlighted and featured on the Center's website.

Students are invited to submit their videos to the Center of Excellence.

**Details as follows:**

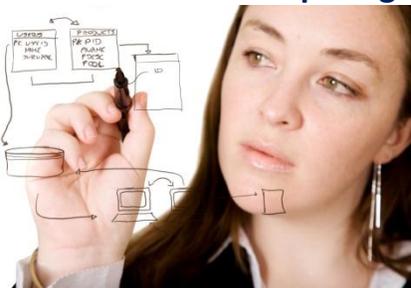
- \$1,000 for the student whose video is awarded the recognition award.
- The Center of Excellence for Information and Computing Technology's industry advisory board will be judging the videos.
- Four other IT industry professional profile videos will be produced by videography students and will be published on the Center's website.

**Submission Deadline is:** Friday, April 20, 2012

**Prize Announcement:** Friday, June 1, 2012

Email your video file to [maureen.majury@bellevuecollege](mailto:maureen.majury@bellevuecollege), or mail it to Center of Excellence for Information and Computing Technology, Bellevue College, 3000 Landerholm Circle S.E., N211, Bellevue, Washington 98007, Attention: Maureen Majury

## Information and Computing Technology Programs of Study Project



A brief overview has been provided of the project has been provided by Terri Colbert, WA Workforce Training Board.

Staff of the three agencies propose establishing workgroups to develop statewide Programs of Study that provide meaningful, useful pathways, linking secondary CTE with postsecondary career education and incorporating the required elements as defined by Perkins statute. The workgroups will use a sector/career cluster approach to develop statewide articulated Programs of Study models. Each program will include articulated dual credit, and must lead to a degree, diploma, certificate, or apprenticeship. (Attachment 2) During 2011-2012 the workgroups will focus on Programs of Study for four of our state’s high-demand occupational clusters:

- ✓ Advanced Manufacturing/Aerospace
- ✓ Healthcare
- ✓ Information Technology
- ✓ Agriculture

Over time, models will be available for all industry sectors where the state provides approved CTE programs. These models will be available for adoption by secondary and postsecondary partners throughout the state. Through this approach, we expect to establish statewide articulation agreements that provide greater dual credit opportunities for students.

## Center Website Upgrades



The Center is consistently striving to make improvements and upgrades to its website. The Center can now be followed via twitter [@coeforict](#) , on Facebook ([fan page](#)), on [Vimeo](#), and [YouTube](#). The Center website ([coeforict.org](#)) has updates on events, resources, research, services, and a community blog with great features on industry trends, things the Center can do for you, highlights that are pertinent to information and computing educators, students, as well as industry partners and professionals.

We recently added a “featured article” section which provides four new articles which are selected because of the relevance they bring to our community. [Check in](#) now and find out something you might not have known before.