

UPDATES & NEWS FOR FALL & WINTER QUARTER 2011-2012

As we prepare for finals and winter break the Center wants to share with you updates about Center activities as well as professional development opportunities, upcoming resources, and services for 2012.

News

- Register for the second annual [STEM Summit](#) (February 9th and 10th, 2012). Keynote presenter announced.
- [The Life of an IT Professional: A Five Minute Story](#) (an IT professional competition/video series). Check out two new videos on IT professionals here.

Updates

- Seven IT degrees/certificates submitted by six colleges will be reviewed by industry professionals on December 8th and 9th. The [next session](#) will be spring 2012.
- 26 Washington State educators completed the *Building Your Web 2.0 Website with WordPress*. See evaluative and ROI data here.
- The [Washington State ICT Community/Technical College Program Directory](#) (Publication: January 2012)

News:

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 is proud to announce the keynote for the second Summit is [Dr. Bradley Layton](#). Dr. Layton is an Assistant Professor for the Department of Applied Computing and Electronics at The University of Montana College of Technology. The presentation will concentrate on **Energy Technology Education in Efficiency To Engender Energy Independence: Science & Math Lay the Foundation for the Next Generation of Energy Technology Leaders**.

We have arranged a special hotel rate for you at the [Hotel Sierra](#), a premier boutique hotel, and less than five minute walk from the N-Building at Bellevue College. Make your reservation before Friday, January 20, 2012, as 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 still 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's [video library](#) has two new additions. Find out what a Quality Assurance Engineer and a Webmaster do and share with your students. Also watch the other 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 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.edu, 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

Updates:

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 course on WordPress took place on November 4th and 5th and had 24 participants. Look at the evaluative data and ROI data [here](#).

The Center is hoping to schedule another professional development training opportunity focusing on mobile application development during 2012. Look for updates next year.

Information and Computing Technology Degree/Certificate Reviews: Fall 2011



Course Outline
Data Compression CS&MP 423
(Winter 2008 1:00P-12:35, 1:21 N-210)

Instructor: Professor Robert Lang
Office: Science Building, 6241
TEL: 206 444 2171
Email: rlang@cs.wa.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 less than the original file. Compression is possible when the original file contains redundant data, 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 "q" is almost always followed by the letter "u", etc. The basic technique of data compression is to re-encode a data file using shorter

UPDATE: Review of IT/CS CTC Programs by Industry Professionals: 2012

The Center has accepted seven degrees/certificates from six community and technical colleges for its 2012 ICT fall review sessions. The following colleges submitted a degree or certificate for an industry review:

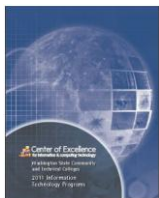
- Columbia Basin College
- Highline Community College
- Peninsula College
- Seattle Central Community College
- South Puget Sound Community College
- Yakima Valley College

The reviews will take place on December 8th and 9th, and reports will be issued to the colleges by January 2012. The reports summarize the recommendations made by the industry review team, as well as provide a high-level workforce trend scan, employment trends if applicable, and possibilities for emerging trends that might impact curricular changes or developments.

The next application submission deadline, as well as the next review session will take place during spring quarter 2012.

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

The 2012 Washington State CTC ICT Program Directory



The Center appreciates all of the colleges who responded with updates for the 2012 Washington State CTC Information and Computing Technology Program Directory. Look for the new edition to be published in January 2012. Each college will receive a hard copy and the PDF will be available on the Center's website. Look at or share the [link](#) to last year's edition.