

OCCC Minutes April 30, 2009 Clackamas Community College

Presiding: Len Eaton, Clackamas Community College

Attendees: If you were there and not listed below or if you are listed below and were not there, please notify Ron Wallace (rwallace@bluecc.edu).

Mitch Fry - ChCC	Len Eaton - ClCC	Steffen Moller - ClCC	Lew Cousineau - COCC
Linda Loft - LCC	Dodi Coreson - LBCC	David Todd - MHCC	Wayne Machuca - MHCC
Paul Morris - MHCC	Colin Goble - PCC	Taylor Hanna - PCC	Bruce Schafer - OUS
Molly Shor - OSU	Paul Paulson - OSU	Mike Johnson - OSU	Diana Schab - SWOCC
Chris Williamson - SWOCC	Warren Harrison - PSU		

Minutes

I. Campus Reports

- **PCC:** Enrollment is up 35%. The curriculum is being re-worked to align with PSU changes.
- **Chemeketa:** The CIS programs are undergoing extensive re-alignment. The enrollment is up ~20%.
- **Linn-Benton:** The CUS curriculum is going away and the program is being morphed into a Web/Database Tech program because of low enrollment. Overall their enrollment is up 20% also.
- **OSU:** The ABET review just finished with 'flying colors'. Because of Discrete Math transfer problems (students are not getting the complete sequence at some of the CC's) Mth231 will be offered in the summer (making it a co-req. with CS162 and a pre-req. for CS260). Another section of Mth232 will be added in the Fall. A hand-held device will be used for all lab work. Students will be charged a \$160 lab fee to cover it, but will be used in classes from Operating Systems to Networking. This is their solution to the problem of maintaining lab machines. The machines were designed and built by the EEC students. The CS160-162 courses are moving from a 1hr lecture to a 2hr format.
- **OUS / ETIC:** The 2nd Annual Game Challenge will again be hosted @

Chemeketa in May. The theme this year is Water Resources. The Robot Challenge continues to draw many students - over 3000 this last year. Because of the number of (middle & high school) students, they are thinking of creating regional contests, culminating in a state finals contest.

- **LaneCC:** The CIS/CS enrollment is running 50% above a year ago. The programs have been particularly hard hit with many students on Trade Act funds. Since these students must be full-time including summer, it's been a scramble to adjust summer offerings.
- **COCC:** The enrollment across campus was so high, they closed registration before the term started because all classes were full.
- **MtHood(CIS):** The Web and Database classes have full enrollment. The IT degree is adding a Forensics certificate with grant funding from Homeland Security. They are also trying to lock in some stimulus funds with a joint project with CISCO. There is \$6 billion earmarked for Health Informatics in Oregon. They currently offer the A.S. articulating to OIT, and are working on an A.A.S. which will have a slightly different emphasis than the one being developed by PCC & Umpqua.
- **PSU:** CS161 is no longer required if students have previous programming experience in any language. CS162 has become a course to teach the syntax of C++. It is presumed that all students know algorithm development, etc. before they come into the course. This facilitates both C.C. transfers and folks coming into joint MS- Health Informatics program with OHSU.
- **PCC:** CIS has not had as dramatic increases, at ~13%. The big concern is not having Computer Literacy as part of the AAOT. The Forensics offerings are being increased and a specialized DB security course is being added to the database sequence. A new program in Electronic Archiving Systems for Radiology is being developed along with a Project Management certificate (jointly with the Business division). They have a Web Design/Multimedia program but not much happening with it currently.
- **MtHood(CS):** Adjustments are being made to the curriculum to support PSU's changes but CS160 and CS161 will continue to be offered. The enrollment is stable.
- **SWOCC:** Enrollment is up. A major overhaul of all programs is being undertaken. Currently they are leaning towards creating a CIS core with several certificates. CS120 has been dropped as a program requirement and replaced with CS160. In Networking, the revised CISCO curriculum was adopted which is much tougher. CS179 is being revived as a gateway into the CCNA sequence.

TOPICS: It was agreed that topics of interest to the 4yr schools would be covered first, due to time constraints requested by some.

II. OSU's courses:

CS271, ECE275, & ECE276 (Computer Arch./Organization /Assembly Lang.)

OSU has the Assembly language labs in CS271. Chemeketa is trying to combine the courses with the other Pre-engineering classes so there are enough students to offer them. PCC has ECE171 which equates to OSU's 271. For lab work, C is used to generate Assembly code which students then step through. PSU's 202 called "Systems Programming" covers the architecture without the Assembly language.

III. CS275 course:

OSU brought a revised course outline for discussion. It included a section on Web-based database access (CGI and server-side PHP). This segment was being used for a term (team-based) group projects. The general consensus from other colleges was the material was already covered in the CS295/296 courses and should not be covered in CS275. There was already too much to cover. Mt Hood offers 133SQL which leads to an Oracle Certification. Chemeketa is doing a similar thing. PCC is planning on splitting the CS276 into two versions, one with Oracle, and one with MS/SQL.

IV. NFS ATE Grants

David Todd recently spent time as a NSF Grant reviewer and gave his overview of things to do/not to do (below). He said proposals are sorted into topic areas so they can be evaluated against each other. NSF has a large amount of funding, so now is a good time to apply for CS grants.

1. Assessment & Evaluation: many apps. Are too short on this. There needs to be solid methodology, and an external evaluation is a "must".
2. Support both internal (up through the President) and external (industry advisory groups)
3. Co-partnerships with either high schools or university which demonstrates pathways is important. However, the University connection cannot be in the primary position. Watch out for that!
4. Include professional development for CC faculty and down into high school teachers if that's part of the grant proposal.
5. It's important to have your own IRB for human factors research.

However only one CC in Oregon currently has that, so most proposals are linked to one of the Universities IRB.

6. Completeness of the project tends to be where proposals break down.
7. A dissemination of information plan is very important.

V. OIT Summer Gaming program

It will still be targeting the XBOX technology. It will have a high school teacher workshop for professional development alongside the high school student program.

VI. Health Informatics

PCC talked about the work on the state-wide AAS saying the CCWD research shows many workers in the field don't have BS degrees, but there are not industry standard job titles to track. The 2yr. course work is mainly in Database and MIS systems with a subset of health area courses. The old Health records courses are moving into more technology based curriculum. Currently only a subset of the 2yr. AAS curriculum will transfer to OIT's BS degree. Umpqua's AAS degree will start F09. MtHood commented that there really is not concrete model yet for Health Informatics. They have an I.T. Health Informatics A.S. degree that started in F08. PSU has a 3+2 yr degree program with OHSU where students get both the BS and the MS at the end of 5 years. The two options are Health Informatics and Bio Informatics.

VII. PSU's Curriculum Changes.

CS162 will contain just the specifics about the C++ language, so students must already know how to program. They have increased the number of transfer electives so students coming in with CS161 from the CC's can still transfer their credit. The Mth231/232 at PSU was not 'compliant' with CS so they have developed a separate CS250/251 sequence that covers Discrete Math for CS. OSU is also moving the curriculum that direction, but will keep the old numbers, since they have control over how those classes are taught, even though they have a Math prefix.

VIII. OUS/TechStart Foundation

CSTA has renamed the organization Oregon Computer Science Teachers Association. Current goals are to increase the amount of Computer Science literacy by extending Discrete Math with CS

concepts into the high schools. This is part of the State Board's efforts to embed engineering design into K-12. The Ore. Dept. of Ed. is taking it to the State Board under the concept of Engineering Design or Scientific Inquiry now required in the high schools.

IX. OSU Labs with handheld computers

OSU is moving away from providing labs with equipment and having students buy their own equipment. OSWALD is their Linux-based handheld computer. Since it's bundled as a class fee, Financial Aid will pay for it. See BeaverSource.oregonstate.edu/Projects/CSPFL (URL to be emailed)

X. Web Programming:

MtHood said they are using CS195 for Web 'Concepts, and CS197 for Client-side Web Authoring. They are offering a wide variety of subject under CS197 from XHTML, to Photoshop and JavaScript. They are using the 295 course number for PHP/MySQL. They are looking at bringing these courses online soon.

XI. CS120,121,122 Sequence

PCC requested to have the CS121 number reinstated and preferred to make the CS120, 121,122 as science credit. That 25-35% of all PCC graduates take one of those courses, and the college is now telling him they can't be offered since they are not listed as Science on the OCCC list, plus CS121 is currently removed from the list. Given the past decisions by the OCCC, he agreed to bring back his proposal with more information (course objectives, etc.) at the Fall meeting for consideration. There was more discussion about the need to clearly define the "science" in computer science. Mitch Fry recommended a definitive ACM speech by Peter Freeman. (http://www.youtube.com/watch?v=5a_pO3NYJl0)

XII. Next Meeting

PCC @ Sylvania offered to host the Fall 2009 meeting. It was agreed to be held on Oct. 16th. The David Swenson award will also be announced at that time.

Meeting notes submitted by Len Eaton
