

OREGON COUNCIL OF COMPUTER CHAIRS

Fall 2022 Meeting

Friday, October 21, 2022

Presiding: Andrew Scholer, Chemeketa Community College

Attendees:

- Andrew Scholer (CCS)
- Brett Jeter (OSU)
- Danielle Safonte (OSU)
- Gayathi Iyer (PCC)
- Jennifer Goudreau (LCC)
- Karla Fant (PSU)
- Kathleen Freeman (UO)
- Luke Cordova (WOU)
- Marc Goodman (PCC)
- Mark Jones (PSU)
- Phil Howard (OIT)
- Rocco Charamella (PCC)
- Tim Harrison (EOU)
- Troy Lanning (KCC)
- Tyler De Adder (OSU)

NEWS FROM THE COLLEGES

Portland State University - Mark Jones and Karla Fant

- Enrollment down about 9% about 5% in credit hours.
- Computer Science – About the same, but an uptick in the Master's programs
- More in International Students.
- 6 new faculty
- Completed all the changes in curriculum.
- New process for getting into upper division. A form instead of requiring New form to switch from lower division to upper division
- Starting a process for registrar with articulations for each class.
- CS299 has programming intensive to make sure students are prepared for upper division. Course 299 course is offered year-round. There is an online and in person option. CS299 is a help class that is 1 credit that helps students get up to speed.

Eastern Oregon University - Tim Harrison

- Increase 20% in students from last year. Students and course credits. In all 3 programs ~2/3 are online as opposed to 3/4 last year.
- More students on campus.
- Doubled faculty 2 last year to 4 this year.
- Decreased number of adjuncts to 2.

- 161 classes are only in Python now. Added files to 161 since some students might not need 162 but need to know who to work with files.
- Phasing out Java classes. Everything will be in python.
- Upper division is going to transition to C++ or Python.

University of Oregon - Kathleen Freeman

- Inquired about how others had stats on attendance.
- New UoO position – A person to specifically help transfer students transition to UoO.

Oregon State University - Danielle Safonte, Tyler De Adder and Brett Jeter

- ECE Electrical and Computer Engineering for OSU – Hired 2 full time – still looking for multiple new instructors. Up last year to about 3000 students e-campus.
- Canvas resource to help students going into CS162 to help them get up to speed for Python.
- Online 4-year program started last fall 2021. 600 students enrolled. Expect growth to continue.
- Process of updating website. Everything is frozen so waiting for it to update.
- Launch CS Graduate Program online. Rolling admissions.
- Micro-credentials – programming fundamentals that include 161-162 and 261. Interested in 200 levels and such. Only require pass the class with C or better. 11000 students in the college of engineering. College grew 13%.
- Mixed modalities tutoring, classes, and support resources. Most is around programming language support needed.
- New Associate Dean of undergraduate students – David L. Blunck. Mechanical Engineer by training. Cora Dean of Graduate Students - Electrical and Computer Engineer background. 2/3-3/4 to applied smaller about do systems degree.

Western Oregon University – Luke Cordova

- New Data Analytic degree in catalog.
- Enrollment down 5%.
- 1 new tenure track.
- New President - Dr. Jesse Peters

Klamath Community College - Troy Lanning

- Overall numbers are up.
- Cybersecurity and Networking students are up.
- Standing room in some of the classes.

Portland Community College – Marc Goodman, Gayathi Iyer and Rocco Charamella

- Computer Information Systems – Up 14% last year.
- Up around 30% over the last 2 years.
- CIS120 redesigned and getting more support.
- Created new programs. Cybersecurity program is doing well. ABET accreditation.
- Web development and design degree is building as students are taking the courses. C# and Java, Javascript and new class in Python. 1st time in the capstone and Node AIS. SQL Server, Mongo DB. All programming languages.

- Networking is working on 3 new classes that mirror CCNA. Fall 2023. AI course development too. Block hire for the last 5 years.
- Hired one person but failed the other search.
- Modality mix: 70% were online and 30 on campus.
- New President. – Heavy push to get more oncampus. 15% on campus 25% zoom and the remaining 60% fully online. Few fully on line campus. Veteran students require oncampus for them to get financial aid.
- CS – Enrollment was up in the summer but Gone down 10-11% in the fall.
- Updating the articulations.
- Having a hard time to get students to go to advisors.
- Teach all in C++.
- Modality – 50% online.
- Success rate not as well in online class. Now all 1/3rd each.

Lane Community College – Jennifer Goudreau

- New President - Dr. Stephanie Bulger – New President
- New Interim Vice President for Academic Affairs – Grant Matthews
- 5 faculty left the last 2 years for retirement, industry and one for a doctorate program. Only able to replace 3 of the 5.

Southern Oregon University - Maggie Vanderberg

- CS smallest graduating class ever.
- Small uptick on freshman.
- Marketing for programs. Pushed to instructors. Outreach and recruiting.
- Another tenure track search. Failed last year and trying again this year.

Chemeketa Community College – Andrew Scholer

- CS College is up a couple % on enrollment.
- Next year will be awful with finances.
- 2021 was tough on student success:
 - 33% fewer students completed cs 260.
 - 50% fewer students completed calc track
- Finally got MTM through all the committees.

Oregon Tech – Phil Howard

- Freshman numbers are up and transfers are down.
- Freshman class about normal and Junior is down. Intro in C++.
- Old school language and the language has moved on.
- No chair, so Phil is interim chair.
- Six faculty searches but haven't heard if it will be approved.
- All about close relationship with students. Mostly in person.
- DFW – Ds Fs withdraws – hire students to help tutor students get through these classes. A few disasters last year, with students failing classes.
- Approve Cloud Software development – specifically designed MTM friendly.
- President said no to changing name from Engineering Technology to Engineering. Doesn't want to get rid of "tech" degree. Meets requirement for engineering degree but has the "tech" added on.

Question

DISCUSSIONS**Does anyone teach “Programming as a second language”.**

- Developing a course as programming as a 2nd language. There is a book called “Mathematics as a Second Language”. Use skills in teaching a foreign language in teaching programming.

Clarification on PSU process change for proceeding to upper division.

Fill out a form to proceed to upper division. They used to do proficiency demos to get to upper division. PSU you used to have to do a demo to and now in part of 302. Have to show proficiency at if and loops to be successful going on to topics. About 5 weeks to refresh and immerse in the class to proceed. Doesn't prohibit the ability to be admitted to the program and make forward progress. International students especially. Decoupling the demo so not a gate to admittance.

- **Articulation maintenance within the MTM-CS**

What is HECC responsibility handled by MTM maintenance group?

What is OCCC's role?

- Take the whole group of classes at the community college they transfer to the university. PSU wants to do individual classes. Common course outlines of those courses. A list of classes and keep them transferrable.
- No oversight to say the classes are preparing the students ensure that they are meeting the outcomes.
- Language piece a challenge.
- A version of 302 for different languages. Having multiple classes.
- Have some kind of form or affidavit that the classes do certain outcomes.
- Formal in HECC about maintaining MTM – Official articulation.
- We can be an informal at OCCC about each individual class.
- Techniques.
- PCC – teaches 161 over 2 terms. 161B is what is considered at PCC that transfers at 161.
- Learning outcomes being abstract – needed languages.
- FTC – We don't decide articulation. Registrar makes that decision.
- Not all schools participate in OCCC and OCCC doesn't get info on the change so we shouldn't be – Tim
- Kathleen – Wants to know how to articulate the class cross listing.
- Andrew – muddies waters between formal listing.
- MTM CS equivalent.
- Numbers are primary in MTM and no outcomes are primary.
- Degree has outcomes but classes.
- **Idea is a draft of a spreadsheet that cross lists the classes with idealized courses with the MTM listing at the different community colleges. Mark Jones and Andrew Scholer are going to make this spreadsheet.**
- Math prereqs for lower level CS courses
 - What prereqs are schools using?*

- MTM – pain points. Different pre-reqs with Math.
- UoO Math112 Math 111 Math 232
- Is the filtering with requiring math getting academic maturity, thought processes and such to succeed in programming class? Antidotally it is more about filtering out the students.
- Marc - We shouldn't be asking if our students are ready for college we should be asking that our programs are ready for students.
- Jodi – from PSU. Ability to think critically and problem solve. That is the application of the math.
- CIS not as high math requirement vs CS that need more math.
- Kathleen – 2 fold - Pre-Req to content needed to be successful in course. Keeping on contract to graduate. – How do students get those classes so they can graduate.
- Track students success as they move on.

OCCC Business

Next meeting

3-4th week of spring Ap 21st

Hosting – Brett at OSU again in the spring

– Electrical Engineer

BREAKOUT SESSION

Tech Apprenticeship - Presentation by R. Taylor, Chemeketa Dean of Business and Technology, Early Childhood Education and Chemeketa Center for Business and Industry

Two of Oregon community college's are exploring the option of an apprenticeship program for students in CIS. This program would include the development of an industry committee to oversee the program and the alignment of training hours to community college coursework. We will provide a brief overview of apprenticeship and the work done so far, but this session will primarily be an opportunity for you to weigh in on the Tech Apprenticeship concept.

- Slide show presentation.
- Potential Apprentice ships: 2-3k work hours and ~100 credits
- Steps to getting an apprenticeship program going to think of curriculum piece and see what would be required in the development in the outcomes. Align our outcomes to what would be interesting to industry.
- Going forward come up with a proposal of course work going forward on what an employer would require for the apprentices.

Discussions part 2

Tracking students success after transfer

- OSU – transfer students with a 1 term difference from full time class

- Proschool termination in 2019 after that more success rates.
- Transition to community transition to
- A 0.3 lower gpa threshold. Drop in OSU verse what they had in the community college.
- Having students stolen before they graduate.
- Oregon is doing better with transfer to California and Washington
- OSU has a dashboard with every Oregon high school and community college and how they transition. Partner helio campus.
- Less than 15 electives is the difference.

Pre-req –

- Most schools have a requirement of MTH111 to get into CS161.
- Discussed that the requirement can be for a variety of reasons
 - o Filter for students because they can't manage the class they won't be able to manage programming.
 - o Need the logic and
- OSU – systems doesn't have it. 45 credits of math and science. Has to be calculus or above.
- UoO – has anything that is required for the General Science to relax the requirement.
- ABEC just requires a Lab Science requirement.

Mark Jones is going to put together a google form that covers how their degree.

- OS that requires
- IDE vs command line
- Programming language

Others are teaching Data Structures in

- OSU – C++ on campus Python – Online
- WOU – Only Python
- Question to Luke about how he brings students on with Python into Data Structures. Summer coding camp to help bring transfer students and existing students that isn't charged. Set of Tutors to get python.
- OSU – start formalized supplemental instructions next year for CS. It is a not for credit but organized group study sessions. If students attend at least 4 classes, their grades improve. It is currently in chemistry and science and going to try and do in cs. Have to register it for but no credit, no tuition charge. Goes through supplemental instruction (undergrade students).

Marketing

- Oregon Tech – Materials. Department that takes care of swag and fliers.
 - o Strategic Enrollment Management planning group wasn't as successful.
 - o Have a faculty who enjoys going around to high school and community colleges
 - o Non-instructional workload. Is how they get "credit" that they are doing it.
 - o They do have travel expense budget

- Have to have someone that enjoys and has the personality that enjoys that sort with them.
- Flooding the zone
 - Hiring slowed down?
 - Not specialized in the area.
 - OSU - Completion survey that they have to do in their capstone and then a survey 6 months after graduate that gets a low response rate. The majority of survey goes through alumni association.
 - OIT they also send out survey and they get more response rate. They send out their own.
- Perkins Funds
 - Governments funds for tech