

Oregon Council of Computer Chairs

Spring 2024 Meeting

Friday, April 26, 2024

Presiding: Marc Goodman, Portland Community College

Attendees:

Andrew Scholer, Becca Morgan, Brett Jeter, Christopher, Christopher Nagel, Dustin Bassette, Gary Parker, Gayathri Iyer, Jamie Mason, Jenn Goudreau, Jodie, Joseph Jess, Karla Fant, Kathleen Freeman, Maggie Vanderberg, Marc Goodman, Mark Jones, Mitch Priestley, Phil Howard, Tad Shannon, Troy Lanning, Tyler De Adder, Wayne Machuca

Agenda:

1. Mockup profile for the College-specific sites: occcwiki.org/institution
2. Review of two classes proposed by Marc at the end of the last meeting:
 - CIS134: Approved. Motion carries.
 - CIS182: Revisit in six months (note that Mt. Hood uses a different course number).
3. CIS123: Added to a six-month watch list.
4. Discussion on the future of CS and ENGR common course numbers:
 - These are not in HECC's 3-5 year plan.

Institutional Updates:

Jamie Mason – Southwestern Oregon CC

- Flat with enrollment
- 1 section of each course per year
- Growth in 160.
- Not currently recruiting faculty. Looking at ways to reintroduce CS program that was discontinued a few years ago.
- Their online course * look up * how to make online engaging.
- Just got MTM CS degree approved.
- Code Space main IDE for his courses and would like to collaborate with people on how it works.
- Started and AI Task force, talking about policy and how they can leverage it to improve things at the college.

Jodi Stiegemeier From Portland State University

- From an advising perspective seeing a lot of students. Fully staffed. Good partnership with PCC advisors.
- Leadership changes in advising.

Maggie Vanderberg – Southern Oregon University

- Enrollment is pretty flat but good in computer science.
- Fully staffed with faculty
- Some leadership changes. New Provost.
- All classes in person, a couple things that are general education that are offered online but all CS are in person with no push back with it.
- Certificates – data analytics, web programming, software development, and cybersecurity. Pathways for students who have issues with math requirements.
- Code Spaces has been used in classes, but they've had some issues with it freezing up.
- They have an AI Task Force.
- Helping students see the benefits and challenges of AI.

Tyler De Adder – Oregon State University

- Currently, OSU has a cybersecurity certificate but might sunset because not seeing students utilizing it. Now that they have a degree.
- Curriculum for applied in Cybersecurity – Stats is no longer required for it. They can use it for an elective.
- Changing CS 162 – language to Python – On campus is in C++ and the E-Campus were in Python – now both will be in Python next year possibly winter.
- Introducing CS 274 which is going to be a C++ class that is an elective for the students. From Electric and Computer Engineering students.
- Revamping Data Analytics sequence to hopefully see more interest in that area.
- Enrollment is strong. E-campus strong and same with on campus.
- 260 is C++ it is split e-campus in python and on campus is C++.
- They will be removing CS 261 (260) will be removed from the EEC program.

Brett Jeter – Oregon State University

- Online 2500 students 2000 Corvallis through CS program. Which is also going to be going through an online program in the fall 25.
- OSU is changing everything in summer of 2025. Moving away from Bachelor core and common core. Currently the 45 credits that align with the rest of the universities.
 - 30 credit common core. 15 -18 credits signature cores seeking solutions.
 - Sciences will only need classes with labs.
- College Engineering – a new calculus ready they are not able to admit directly into the program until they can get into the calculus course.
- Dean Ashberg – moving to Faculty – so searching for a new Dean.

Christopher Nagel, Gary Parker & Dustin Bassette - Blue Mountain Community College

- Enrollment is up 4-5% from last year.
- Most classes are in person with Zoom
- ASOT CS 2 certificates CS 161-162 and another for Data Center training.

- 160 intro class – use scratch to get them warmed up
- 161-162 they use java and repl.it.
- Co-pilot problems tries to turn it off globally for the class or direct students to not use it.

Troy Lanning - Klamath Community College

- Enrollment slightly up but having issues with retention.
- Faculty is holding stable with Cybersecurity and 2 FTE. Each course once year.
- Online vs in person – always in person, converting to a model that is referred to hyflex where students can pick how they attend. Hard to do with hands on learning.
- Degrees are holding steady.
- Center for Academic Excellence in Cyber defense in November.
- Netlab solution is getting up and running this year.
- Why is retention a problem? – Seeing students that come in and are not ready

Gayathri Iyer Portland Community College

- MTM Hired a new instruct
- Nik
- Enrollment – up 5%
- Higher new faculty Quentin when GD went to GD.
- 50/50 with online vs in person. Online fills first and in person they fill up at the last minute when the students are forced to get in.

Karla Fonte – Portland State University

- Continuing 161-162-163 with a number of different models
- Remote went away, but online and in person. And hybrid.
- In person are successful.
- Code party where they come in and help.
- Discord and embedded tutors for online students.
- Embedded tutors funded by PSU not the department.
- Guided notes with leading questions for their attendance.
- Coding sprints at the end of class do group activities.
- In person students with labs the correspond to each of the class. In person lab. They can mismatch in person and online labs.
- They still have 299 practice labs 1 credit lab for practice for data structures.
- Proficiencies demos are still required for 162 they have to live code.
- They require linux for 162 and C++ and python and an IDE for 161.
- Cohort where they are with the same instructor and group through the year. Smaller group. They do the same proficiency demos.
- They have fliers for the cohorts. Targeting students who've never done any programming prior and advisors are helping direct students. They have to have a

special code to register for the class. They require them to dedicate to go into the cohort. 30 people in the cohort and they don't recall an over demand.

- Stephanie Allen is the instructor and is passionate about the program.
- Code sprint – on a page a problem and then break it down to the steps you might do to solve the problem by asking them questions. The students answer the questions with code they right on the right side they end up with the solution.
- 80 In person 1 in person and 1 online section. 40 online. \$22 fee for online

Kathleen Freeman - University of Oregon

- CS / Math and Computer Science, Data Science, Cybersecurity new degree. Driving up numbers in 1st year computer science. All majors increasing in numbers. Wondering if folks have an idea why and if AI will change what is need.
- Trouble getting internships for some of their best students.
 - LinkedIn is saying that 97% students say they are having a hard time finding internships.
 - Enrollment is going up and employment is going down.
 - Multiple Engineering Coop – They had a lot of students who tried to apply but they had to cut off. Participating schools are OIT, PSU, OSU, UP. There is an increase of applicants and not enough internships to go a long with it. <https://www.mecopinc.org/>
 - School of Data Science and maybe getting a new Director soon.
 - In person leading to in person.
 - CS 161 and CS 162 are both in Python and their CS 260 is in C not C++.
 - Asked if they had considered Rust and stated that is a challenge because of Linked List.

Mark Jones Portland State University

- Enrollment drop overall for the college 2-3% and but is an increase in CS and Electrical Engineering.
- Intensive English language classes are cutting that program which will affect the international students. They have 56 students who needed the program.
- International graduate applications are down which is before the announcement of the program cut. Possibly a problem where the international students are finding internships and jobs.
- Need a new non-tenure track faculty
- 284 – Algorithmic thinking. For data analytic because their other class was too math for their students. (PSU)
- CS 418 culture Race and Ethics class
- They have a whole year worth of classes in Rust.
- Swing back to in person. They can't offer an online degree.
- First inclusive workshop for the college.
- Looking at an upper division cohort possibly for transfer students.
- Webenar on Inclusivity -- Math and Science pre-req and how they harm enrollment

- HBEC - New rule they don't require a year of science it is course work in Science.
- Explicitly requires statistics and problematics and only mentions that they have a equivalent course to calculus.
- Looking at updating the MTM from a change that was requested last year and possibly go into May this year. Lee.

Becca Morgan - Western University

- Enrollment is flat up slightly which is different than the university as a whole.
- 100% online in campus 2-3% for CS.
- Search for Tenure Track but it is kind in a holding pattern hopefully next year.
- New leadership means things are challenging.
- They have people from industry coming in to teach some classes.
- Scott in going on sabbatical and then retiring.
- New policy – they have to be on campus 3 days a week, which is problematic for the established program that is online. CS, IS and data analytics.
- Certificates in Information Technology and Computational Linguistics.
- New guidelines on society ethics in all of our cs classes. Not ment to be a heavy load talking about where we need to be ethical and professional. They have a stand a lone class in this but working on adding this language to the other curriculum.

Mitch Priestley & Wayne Machuca – Mt Hood

- Enrollment up 14% across the board. After years of being low it is great news.
- Hiring – Mitch and Dustin are new. They are have an offer out. And two more spot. They doubled the size of the faculty. They are all working 1.75+ FTE right now so grateful to have the opportunity to get new folks.
- Grateful to have more perspectives for the students.
- They have a fund for helping students to pay for cybersecurity certificates. They said they can give to others CC. They have to spend it by Summer 25.
- 50% of students online and 10% of bots.
- New tech delivery modality using the DTEN.
- They are going to hyflex.
- Average student 30-38 years old so they already have jobs/families so trying to make coursework available to them.
- Making it so the Adjuncts don't have to be oncampus.
- Curriculum development has been on lock down.
- Up for 3rd year for CAE and with the BA their degrees are locked down.
- AI Committee first few months it was sky was falling.

Phil Howard - Oregon Institute of Technology

- Numbers were good in the fall. Seeing big drop off.
- Sophomore numbers and up. The Juniors are the smallest and weakest.

- Currently 2 open positions and looking for a 3rd. Dean says if they don't fill by summer they won't be able to next year. For the Wilsonville campus.
- Klamath falls has been in person all along.
- Wilsonville – in person for the most part because of traffic they are having retention issues.
- Hiring students to be tutors and Casey's Dungeon where they can get tutors and help for their classes.
- Fall term 22, had a number of students in the intro class and didn't have the grade to go on, but they made a deal to take an extra lab class to go along with their 2nd class. That is working well and they are continuing it. This an acad class that is less cost for the class \$50. They had a few students who still didn't make the next class but it did help some of the students.
- Since it is scheduled students are more likely to show up. It is 2 1 ½ hour classes.
- Some minor changes to support courses 300 level writing classes adding a class. Now added a non-calculus stats class as well.
- They are going through a pre-approval process for a new cloud computing class it was approved but the Provost declined it on the approval process. Hoping to get it resurrected.
- Data Science degree in the math department. They'd like the DS and the Cloud the same. Working to get the Provost to move forward with it.
- Provost suggested creating certificates instead of the degree with no explanation.
- New dean declined renaming degrees to engineering degrees they declined.
- AI Task force. They talked about it as a department trying to try to stop cheating. Telling some students how AI can be useful but you can go down a rabbit hole if you don't know what you're doing. "why should I hire you instead of using chatgpt?"

Tad Shannon - Western Oregon University

- Data Analytics (GIS, Business, Social Science and Policy) and Information Systems
 - Enrollment is up. Graduating 5 students in Data Analytics. 100% online asynchronous program. Difficult at a university that doesn't have an online program.
 - There are 2 classes that are required in person.
 - 75-80% transfer students, the rest are computer science students who switch.
- 2 sequence capstone that is asynchronous online and they use scrum process to build a project and complete it.
- Partnering with people from the advisory board.
- Transfer council hat. MTM process is still being held up. A fight about how HEC lets the University implementing. Thinks it is getting resolved.
- Exempting from the open meeting has been approved at the short session.
- Common course number for CS classes not going to happen in the next few years. The current issue is credits over classes 5 credit course vs 4 credit for some of the

math classes (example 251). Will also be an issue with labs and that will take a few years to solve.

- Discussed how Transfer Council evolved and is on its 3rd year.

Andrew Scholer – Chemeketa Community College

- Up 3% overall for the college.
- A new position has happened and they are expecting pressure to offer new degrees.
- Math – had a data science 101 that was articulated to westerns only had 5 students.
- CIS enrollment 10-15%.
- CS enrollment is steady depending on when they are offering sections compared to last term.
- Online fills sooner but there is an initial push on both.
- A definite cohort that goes in person. More first year students seem to be trending to go in person.
- Board approved retiring the ASOT. AST CS which is based on the MTM.
- Hiring a 1 year full time position.
- Going on sabbatical next year.
- AI one benefit is that it is showing that there needs to be more frequent look at process of how they code. They implemented a git repository in the project template they are given. With gitdoc that every time they hit save it saves the log when they save. So you can see when they make line changes. They have to code interview. Catching them earlier. Helping shine a light on how students are coding and how they need to break down how they do their code process.
- Using it as a work log to track the students habits.

Jenn Goudreau - Lane Community College

- School enrollment spring to spring enrollment is UP 8%, 9% for winter and 8% for fall. CIT is actually down 1% for spring but was up 17% for winter and 24% for fall.
- Joseph Colton came back full time so now we have 6 full-time faculty and 11 part-time faculty which includes 3 new hires.
- We've started a new AI class, refreshed our Mobile App certificate, and brought back a game development course.
- The school has decided to implement a Year-Round Registration. Starting with Summer and Fall both available starting next week and then winter and spring will be available in October. Beginning May 25, we will open an entire year of registration.
- The business department Bachelor of Applied Science Degree in Business is starting in Fall 24 and currently has a full cohort of 35 students.
- Lane is having an Open House on May 4 and a Trades Expo on May 10th that the CIT department is participating in to hopefully attract students.
- Contemplating removing C# from Software Engineering degree.

- From Marc - Python has more job opening than C#. He agreed removing C# is better to remove.

Joseph Jess – Lin Benton

- School is removing computer related program. Didn't mention data, or metrics, minutes about the discussions on it was no meetings where it was discussed.
- Enrollment has been up but this term is down.
- Have a 160 and 161 class this term.
- Normally 6 faculty and 2 withdrew a few weeks before term.
- Another faculty member is going on medical leave.
- Joseph is meeting with 9 sections of students because of the issue.
- Joseph going to ramp up at OSU.
- They used a year long section. Blind listing a section in case it went over numbers.

Marc Goodman – Portland Community College

- Up 40% last year numbers. They had a quick recovery.
- This year up 6%.
- Everyone is teaching at capacity.
- 2 block hire this year. One failed search. 1 more retirement this year and next year.
- Online vs remote – changing remote to online synchronous sections. Spent a year making that decision.
- Online sections fill rapidly. In person languish.
- Online capacity is 24-25 and they can take 4 more before they have to pay.
- Python certificate through HECC. Going for creditor for final approval.
- A reaccreditation coming up for Cybersecurity.

Discussion

- Next meeting. October 18th at PCC again.
- AI – using AI in our programming classes.
 - Question is how you use AI in our course.
 - UoO doesn't have an AI Task force.
 - With the assumption that core students will still need to know how to program.
 - How do non-majors and students just wanting to take a programming class what should we be doing for them.
 - Young students are given calculators early and they can't think for themselves without it. We can't stop students from cheating.
 - Use AI to generate lots of data.
 - AI can't do the thinking.
 - Using AI as a tutor.
 - AI is not replacing a programmer right now.
 - Using AI to explain what the code is doing.
 - Making students turn in what prompts they are using.

- We all agree we can't prevent our students from using AI to cheat. What the world is going to be like for our students for the future.
 - Going back to the calculator issue, you can use a calculator and not know the order of operations and get the wrong answer. There will be an issue with needing to know context. The same thing is going to come about with AI, knowing the context and order that things need to happen to work correctly.
 - There are certain things that AI is good for right now.
 - Dump transcripts into h5p to generate multiple choice questions from the lecture.
 - Getting a piece of art that with no scale.
 - Getting topics for projects
 - Demo use it to create examples and make them program relevant to a specific topic.
 - Using a generative AI to make responses to questions that were being asked.
 - Starting point for projects and papers.
 - Should OCCC make policy recommendations on this area.
 - See what is happening on the different topics.
 - Is it too early? Is it ever too early? I will constantly change.
 - Is this more a part of Digital Literacy? Add it to 160. Introduced to using and using it safely.
- Mt. Hood – Make a degree a replacement for one that is happening at the bachelor.
 - <https://catalog.mhcc.edu/programs-majors/cybersecurity-bachelor-of-applied-science/>
 - AAS doesn't transfer anywhere to be able to get a bachelor degree.
 - No class was moved from 200 to a 300, 400 level.
 - Mhcc.edu You have to have an AAS in cybersecurity. ISTM ethical hacking class.
 - Technical report writing is required.
 - Reach out about a block transfer from CTE.
 - One of their way they agreed to get the bachelor's degree is to then share it. They are trying to work out the bugs in their own system in the next 3 years.
 - No need to create document per school transfer program but having it transparent on how to transfer degree.
 - Lessons – Need jobs at the end of the degree. Have a value add.
 - Ways you can Enroll people into your vision to get them to help you find solutions instead of telling people what you want done.
 - Wayne wants people to give feedback on the certificates.