

## **OREGON COUNCIL OF COMPUTER CHAIRS**

Fall 2023 Meeting

Friday, October 13, 2023

**Presiding: Marc Goodman, Portland Community College**

**ATTENDEES:** Andrew Scholer, Becca Morgan, Brent Wilson , Brett Jeter, Danielle Safonte, Dustin Bassette , Gayathri Iyer, Gerry Long, Jamie Mason, Jennifer Goudreau, John Blackwood, Joseph Jess, Karla Fant, Kathleen Freeman, Maggie Vanderberg, Marc Goodman, Mark Jones, Mitch Priestley, Phil Howard, Robert Surton, Rocco Charamella, Shawli Sengupta, Tim Harrison, Troy Lanning, Tyler De Adder, Yong Bokos

### **NEWS FROM THE COLLEGES**

**Chemeketa Community College** – Andrew Scholer and Robert Surton

- Enrollment is basically stable from last year.
- Students are returning, but still there is strong demand for asynchronous online and zoom remote format. CS is moving away from synchronous remote - there is a small group of students who it works well for, but the majority of students seem to be better off either in-person or fully asynchronous.
- Math & CS both require proctored pen & paper midterm and final for online and remote classes. Some admins at the college are pushing back. If anyone has a remote proctoring system they actually like, please reach out to me.  
ascholer@chemeketa.edu
- No local curriculum updates in CS.

**Eastern Oregon University** - Tim Harrison

- The EOU CS Department offers three programs:
- Computer Science is offered online and on-campus.
- Cyber Security is offered online only.
- IT Management is offered online and on-campus.
- ITM is a combination of CS and Business courses.
- Computer Science increased 5% over Fall 2022
- Cyber Security increased 64% over Fall 2022.
- IT Management increased 83% over Fall 2022.
- CS courses include Computer Science and Cyber Security courses.
- CS course on-campus enrollment increased 32%.
- CS course online enrollment increased 16%.
- CS course on-campus is 38% of all CS course enrollment.
- CS course online is 62% of all CS course enrollment.
- The on-campus/online ratio changed from 54% to 61% from 2022 to 2023.
- EOU added one full-time faculty member to teach online courses.

- Total CS faculty is five full-time, two adjunct;
- Three full-time faculty are on-campus, other faculty online.

#### **Klamath Community College – Troy Lanning**

- Enrollment is up – Recruitment limited to Troy and his colleague.
- They have been on campus the entire time. They are flexible for students who want to zoom in to most classes.
- Degrees – Same as last year.
- Working to be Center of Academic / Cybersecurity designation
- Net-lab up and running. Hardware is installed but not turned on yet because of barriers. Hoping to have it running in Winter.
- Transition to hi-flex model for courses.

#### **Linn Benton Community College - Joseph Jess**

- Cutting programs. Enrollment is up. Full sections. Intro sequences are still up. CS transfer students are trying to get through the system.
- 1 year teach out.
- Return to campus but a lot of Faculty are still remote.
- School is up 10%.
- 250 active students in CS/CIS.
- Engineering department as well.
- Working with other departments to see what they are going to do without CS classes.
- Cutting all classes regardless of the fact that the classes are required to other degrees.

#### **Lane Community College – Jennifer Goudreau**

- Lane as a school enrollment is up 9% fall-fall, but the CIT department is up 30%
- Most of our 1<sup>st</sup> term sections were full and we even opened up new sections of a few of our courses and those filled as well.
- We changed the name of our Computer Programming degree to Software Development. A marketing campaign by our lead over the program went out over LinkedIn, Facebook and direct emails to any student who had registered for our program but hadn't yet taken a course. We attribute at least some of our upped enrollment to this campaign.
- The business department Bachelor of Applied Science Degree in Business is official and starting to take applications in November. The first upper division business courses will be offered in Winter 2024. The initial group is supposed to be limited to the number of students.

#### **Mount Hood – Mitch Priestley, Dustin Bassette**

- Pam retired. Mitch is replacing. Only on CS
- 4 other FTE - CIS
- 3 sections online or hybrid.
- Visits high schools cyber camp in the summer.

- BAS degree in Cybersecurity. Next fall. 180 credit. 2 CS courses are part of it
- BAS degree Fall 24 in Cybersecurity
  - Recruitment is needed in faculty. 15-20 in fall. Each year they are growing a bit.
  - Return campus big.
  - More students coming in person, but still coming.
  - Recruitment going to high schools.
- Enrollment steady but an up a tick from last year.

**Oregon State University** - Danielle Safonte, Brett Jeter, Yong Bokos, Tyler De Adder

- E-campus is not synchronous. It is fully online. New graduate program AI, CS as well. Better alignment of transfer programs. Maybe change 162 from python to C++.
- 4-year online program year: 3. 1000 students enrolled worldwide.
- Continues to grow. On-campus still doing well. Launched a new option in CS. Cybersecurity, Applied (MTM), Computer Systems (smallest). Started this fall and already have 100 students.
- Cybersecurity has 2 different options: Senior year they have a design they work on with 2 other students. Another option they can have in the on-campus cybersecurity center with live clients with mostly non-profits.
- Based off the applied option. One course difference between the applied option.
- Looking at CS 162 course – E-campus is in Python. On-campus is C++. Looking at standardizing. General education classes are changing for next fall.
- Looking at more programs going online for e-campus. CS on campus still currently more than e-campus.
- Looking at revisiting the certificate in Cybersecurity since they now have the degree option.

**Oregon Institute of Technology** – Phil Howard. Gerry Long

- University enrollment is down. CS is fairly flat. Retention issues from year 1 to year 2. Trying to encourage more women by having them in the same class. They are all in person. Portland there is more interest in remote because of the commute.
- Noticed: Senior class is weaker technically, and junior is maybe weaker yet. Thinking that it is the result of covid.
- Curriculum – Reduced general education requirements. Still, working on cloud computing. Master's in software engineering under discussion.
- Hiring – Portland hired 1 new FTE and 1 visiting.
- Klamath Falls – one new FTE and rehired visiting. New chair Stephen. Dean stepped down last year. Cloud computer – Approved a few months ago. In the Provost office, they are putting roadblocks on it. Need to offer a course and see how many enroll before they approve degree. Asking for suggestions.
- Recruitment – Cybersecurity - Didn't grow as much last year as anticipated but still growth.

- Revamped labs, trying to make on-campus a value-added experience.
- Invested in virtualization. Block chain technology, Data Analytics, and an AI track, Quantum computing.
- Hiring for a tenure track position in Portland. Cybersecurity club started again last year. Capture the flag type meetings to get together. Interested in a Hack-a-thon with other schools.

**Portland Community College** - Gayathri Iyer, Shawli Sengupta, Marc Goodman, Rocco Charamella

- Up 35%. Shut down computer apps program. Created a digital literacy system. Has a faculty position opened for the last 5 years. They have been having one come on then another retired. Still openings at PCC.
- Big push to go to campus. More of a push through the school to push. Starting to fill more online classes.
- Cyber is good. Web is still building it out. Creating a certificate in python certificate. GD is new dean.
- GD - Nick – CS – 2 new CS FTE. 10-12% school and CS. Lot more in person. Parking lots are full.

**Portland State University** – Mark Jones, Karla Fant

- Undergrad program – Enrollment is still falling off. Down 3 or 4%. The master's program is growing rapidly and up another 10% this year. Classes are packed. 146 on waitlist.
- Recruitment – need to get more people on board. Problem with space to put new faculty. 1 new person started this year, still working to get more.
- New President that started 1st of August. Asked the provost to step down, so there is a new interim provost. Need to rebuild that relationship. 2nd woman president, 11th president overall. Very interested in getting people on campus. No more synchronous courses. Authentic in person feel. More people on campus. Now have CS 205, which was CS 201. Renaming to match the MTM.
- Creating cohorts of the same group of students going through 162, 163, 260 – to build confidence. It is new and Same teacher. Includes a pizza party, hack-a-thon. Discord. Stephanie. They had to apply for cohort. Only wanted no prior experience with programming. 2 version of CS 161. Roughly 30 in cohort and 100+ in other class.
- Karla – Beginning winter, 162, 163 – Online lab. Not mixing online and in person lab. Next term they only have the option of in-person lab. They really don't have an online program at PSU. Still offering google meets/zoom if they are sick.
- Currently 162, 163, 302 – They have in person/online versions. Online should only be taken if they are not in person.

**Southwestern Oregon Community College** – Jamie Mason

- Enrollment – consistent. CS – gone up a lot. Suspended Information Systems because they lost the program lead and had a failed search. Rethinking how to approach that problem.

- 1 cohort per year of program but this year had to have a 2nd of 160.
- Still all online. Each course is only offered once per year. Trying to make online better. Upside-down (flipped) model where content is online and class time is for collaboration. Having students form teams and meeting together.
- Rolling out the MTM. Pushing through the transfer degree through the curriculum committee.

### **Southern Oregon University - Maggie Vanderberg**

- Enrollment – down as a campus, but freshman class is big.
- CS – Larger than it has been in a while.
- Recruitment is regularly a challenge. The university profiles page is encouraging.
- The school is putting together a new marketing department.
- Teaching pre-pandemic, mix online/in-person.
- Tutors are available and paid by the department.
- Decreasing general requirements.
- Web development, data analytic (math heavy, calc1, calc2, & stats), cybersecurity certificates for students who don't want the general education but want something.
- Fully staffed with 4 FTE. 50% female faculty.
- New president for a year and a half.
- Searching for a Provost
- They put on a hack-a-thon every year.

### **Umpqua Community College – John Blackwood**

- Enrollment up 22% have all AA – certificate in AI. 100 students between the programs. All courses are online and hybrid. Open lab all day on Friday and offers pizza. Big push to return to campus but Cyber and AI have students from all over. All degrees are current. Started with a cohort of 21. New President 3rd year.
- AI – Intro to AI. No calculus prerequisite. There is a lot of math classes. Next year machine learning, natural language processing, computer vision, data science (cisco has a new course), and a co-op. Calculus is recommended but not required. C++ and Python are the languages.

### **University Of Oregon – Kathleen Freeman**

- Enrollment is up in CS to pre-pandemic numbers. Seeing it in intro classes to CS, New Data Science and Cybersecurity. Looking at anything to encourage students. No remote sync. Labs are under the radar.
- Something they don't have, and they are interested in. The building has no classrooms in it. They used to be packed, but they are empty.
- Boardgame club
- Embedded tutors meet in that area.
- If you get a score below a certain amount you must meet with an embedded tutor.

- New ethics requirement for CS Majors in fall 24.
- There is a new accelerated bachelors to master's program degree in CS. Seamless transition to master's program.

### **Western Oregon University - Becca Morgan**

- Trending up in CS. Info systems is down a bit (recruiting). Data Analytic has new graduates this year. NC Whit group that does outreach to hs and community colleges. Working with a grant called Epic – Encouraging Partnerships for To Increase Capacity. Co-hort grant. Tech industry and the colleges partnership. From dance, bio-tech to computers.
- New President and Provost – returning to campus is strongly recommended. Requirement that all faculty has to be on campus at least 1 hour a week. 4 students graduating with Data Analytics. Cyber security focus in IS.
- 160 – Python and 161 162 C#.

### **OCCC Business**

#### **Breakout sessions / Discussions**

- **Non-Traditional CS and CIS Specializations**  
Not all of our students plan to become computer scientists. Some want to go into Cybersecurity, MIS, Data science, Data Engineering, etc.  
What “terminal” credentials do we offer for those students?  
Are there transfer opportunities for students to complete 2 + 2 programs?
- **Developing a Plan for Creating More Transfer Opportunities**  
What do we hope to accomplish?  
What tasks will we need to complete in order to satisfy those goals?  
Who will work on which parts

#### **Discussions**

##### **Transfer Pathways for CTE Students**

- Andrew, Marc and Maggie are telling us about the Centralized list of institutions that we can use to help direct students to transfer school.
- Add a section to each university to our git-hub that will record information and convert it to our website.
- Questions:
  1. Is it worth doing it? Will CC find it useful?
    - How to direct students to the page? How are advisors going to do that?
      - One person – Jamie said it is advising tool. A little less marketing, more directing what our students do. Transfer agreement.
      - Mount Hood would like it too and find it helpful.
      - MTM shouldn't have all this info. But this

- Brief description of all the colleges and what they have to offer.  
Not all students finish a transfer degree. More paths coming in that just transfer.
  - Maggie – What is unique about this school. So can show the differences between the schools.
  - Troy – Most transfer to OIT. A few go to other schools. Having a document that can help point them too. The MTM is the best thing to handle that.
  - Is this degree compatible? Have a link to the MTM that has articulation information. Trying to replicate it.
- Are we willing to set up and maintain this?
  - Send to marketing / counter point we want it to focus on our cit/cs students and not entire school.
  - One idea: Last Edited date. Anything that is over x days old is delisted.
  - Add it to the agenda to update it each month.
  - Do we have enough info to make a decision? Everyone seems to agree to launch it and see.

### **Tools & Platforms Survey, Summary - Mark Jones**

- Mark Jones – On Understanding of which schools use which programs and languages.
  - Mark provided a link to view all the data.
  - The CS were the main ones that provided info. No CIS
  - Few required things and a lot of flexibility on choices.
  - Python and C++ are prevalent across the board. No Java.
  - Only 10 schools responded. Survey is still open if they want to update it.
  - Goal to help students transfer to 4-year schools.

### **Other Old and New Business**

- Added 2 numbers to discuss at next meeting
  - CIS 134 UI/UX Design – Course proposal lists.
    - Design course tools and mocking up user interfaces.
  - CIS 182 Introduction to Cloud Computing
    - Network centric course
- Policies around admin access to school computers.
  - Special to CS staff and how that is managed.
    - Class room images have all the images
  - On going issue with Troy – they are revisiting.
    - It is frustrating.
  - 2<sup>nd</sup> account with admin.

- Organizational Unit and delegate control
  - For teaching hacking
- Add hyper v computers
- Marc got his unlocked by asking
- Bring your own device, not allowed on hard wired but can be on wifi
- Separate network from operational network
- A poll was almost everyone has the ability to admin on there work machines.
- Oregon State List Server is what we use to manage our mail accounts.
  - Rick – is the one in charge of it.
  - Idea to change to google groups.
  - One opposed to it for security.
  - Going to add to the next discussion.

### **1 pm meeting**

- Where do CTE Students go if they want a BS degree?
  - Is this an issue that only affects schools with split CTE/LDC?
    - Career Tech Ed and Lower Division Collegiate (transfer programs)
  - What are some existing opportunities?
    - 2+2 in Cybersecurity?
    - Data Science/Data Engineering?
    - MIS/CIS?
    - Anything in Databases, Systems Administration, networking, or Software Development?
  - What are the obstacles?
    - Articulation
    - CS 161/CS 162 vs CS 133/CIS 233
    - Math
  - LBCC sends to Western University.
  - Troy – PCC cs side transfer to osu. Cyber student the ones that graduate their best options is Western Governors to be successful. MT Hoods is now an option.
  - Southwestern – CTE and Dev classes aren't meant to be transferred so requirements aren't necessarily as high with FTE instructor qualifications.
  - CIS requires non-teaching and industrial experience for instructors, more so than CS faculty.
  - Becca says that they do local overrides for a programming language.
- What are the obstacles
- Registrars that decide/
    - CTE with OSU – professional technical credits can only take 12 credits.

**Curtesy of Karla Fant**



- OSU – There are great programs at the CC that are starting their programs in CT that may be aligned with Cyber security in the four year universities. The outcomes of the CIS courses would be different between the upper division cyber security classes.
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- Marc Goodman and OSU – Discussion took place between the transfer of the CIS courses on sequel and cyber security to the four year universities. The MTM was able to stabilize the outcomes between the courses. If the CTE could move towards the MTM agreement than this would lead to better articulation.
- 1:30 – Marc Goodman: Existing transfer opportunities. Cybersecurity makes sense. But Web development doesn't make sense for transferability. PSU has web development 4xx level courses so that won't help since the CC can't offer 3xx or 4xx level courses. This does not seem easily surmountable.
- Data Science. Mark Jones: At PSU it is in the Math department that the students take the CS Algorithms class where they do not have enough experience in software to take that class. Now there is a specific course just for the Math department in Algorithms. This one class may be a 2xx level course and so it may be able to transfer.
- Becka: Western has a Data Analytics degree that is part of its own department. They take 3xx and 4xx IS courses. There might be interesting crossover in the courses that are accepted in the lower division. But this is not Computer Science.

[https://occcwiki.org/courses/cs\\_outcomes.html](https://occcwiki.org/courses/cs_outcomes.html)

- What are the existing opportunities at 4 year schools
- What will prepare students for success in those programs?
- What curriculum do we have 2 years already?
- What additional curriculum do we need?
- What would be needed to transfer?
- MTM/CTM but for CTE pathways?
- What about GenEd?
- Who are the stakeholders and what kind of buy-in would be needed?