

OCCC Fall 2020

Friday October 23, 2020

Attendees

- Doug Jones (PCC)
- Phil Howard (OIT)
- Tim Harrison (EOU)
- Troy Lanning (KCC)
- Wayne Machuca (MHCC)
- Mark Jones (PSU)
- Karla Fant (PSU)
- Fabrizzio Soares (SOU)
- Piper Lisseveld (SOCC/ SWOCC)
- Becka Morgan (WOU)
- Marc Goodman (PCC)
- Joe Sventek - MTM-CS rep
- Gayathri Iyer (PCC)
- Shawli Sengupta (PCC)
- Paul Wilkins (LCC)
- Andrew Scholer (Chemeketa)
- Kathleen Freeman (UO)
- Yong Bakos (OSU-C)
- Calvin Hughes (OSU)
- Tyler De Adder (OSU)

Notes

1. Date and time for next meeting (2:54:13): Friday April 23, 2021 8:00am - 12:00n
 1. Online component. Possibly some in-person to be determined later
2. Discussion of CS 161 A/B (2:56:23)
 1. OCCC Numbering? Does this fit into the common numbering system?
 1. Should we open up? Propose this in a more general way for Spring?
 2. Can we propose a general framework for breaking up classes?
 3. How does articulation work? how do credits work?
 2. Course outcomes vs Course Numbers
 1. CS 161 CS 162 outcome work fairly well progressed
 1. Robert Surtan's work.
 1. x Paul Wilkins
 2. x Andrew Scholer (Andrew will track down Robert's documents so we can post them on

wiki)

3. x Doug Jones
 4. x Gayathri Iyer
 5. x Karla Fant
 6. x Kathleen Freeman (wants to be involved but no time)
 7. Mark Jones
3. Restart afternoon workgroup meetings?
 4. Organize online workgroup meet before Spring and present ideas at Spring term.

ROUNDTABLE

1. Phil Howard (OIT)
 1. Lower Division in person, Upper Division remote, in general. Labs in person for the most part
 2. Open positions in Wilsonville and Klamath Falls
 3. Wilsonville down 10%, Klamath Falls up 5%
 4. Fewer transfers, more incoming freshman
 5. Some initiatives slowed down
 1. Cloud Computing degree planned, hope to align with MTM-CS and be transfer friendly
 2. Internal approval starts in Jan, possible Fall 2022 rollout
2. Tim Harrison (EOU) 5:16
 1. 2 FT, 2 PT faculty at EOU
 2. BA in Cybersecurity (transfer only), expected to go live Fall 2021. Need AA degree in Cybersecurity. Likely all online
 3. EOU offers CS degree online. Not all options as with on-campus, but students can complete an online degree
 4. 40 students freshman (slight increase).
 5. CS 1 A/B offered online (CS 161 split into two courses). Seems to be working well. Done in Python.
 6. Looking for Cybersecurity faculty, and also looking for adjunct faculty for online courses
3. Troy Lanning (KCC) 15:27
 1. Face to face and online courses
 2. Program Enrollment up about 22% over last year
 3. Improved transferability to OIT for the Software Engineering students with goal of 2 + 2 with OIT
4. Wayne Machuca (MHCC) 19:46
 1. College and program enrollments down, but program down less than college
 2. Developing new degree with working title "Emerging Technologies"
 3. Leading participant in SCC cybersecurity consortium grant proposal. Key item here is cooperative education among colleges to offer a degree
 1. Wayne may be asking for input from OCCC member colleges in next 6 - 10 months
5. Mark Jones (PSU) 25:13
 1. PSU is mostly remote

2. PSU is choosing to continue allowing students to choose P/NP for degree requirement courses
3. Some decline in transfers
4. Some changes to curriculum and admission to major procedures will be required for MTM-CS compliance
 1. Not yet sure what those changes might be
5. Developing online versions of course for CS minor
6. Successful hiring last year. Two new hires: one in natural language processing, one in quantum computing.
7. Beginning another hiring cycle this year to maintain faculty numbers
6. Karla Fant (PSU) 28:27
 1. Spring proficiency demos: 70% pass rate, Fall rate 65%
 2. Karla working on online course development
7. Fabrizzio Soares (SOU) 36:22
 1. First meeting with OCCC, started as Chair last year
 2. Teaching remote, through this year most likely
 3. Changes:
 1. Changing sequence CS 1-3 from Java to CS 1 (Python) CS 2 and CS 3 (C++).
 2. Changing pedagogy . CS 1 computational thinking and problem solving. CS 2 focused on imperative programming (no OO). CS 3 data structures only
 3. Retiring C and Unix, creating OO programming class.
 4. Creating cybersecurity certificate
 5. Pretty much all new department
 6. Wildfires impacted SOU a lot - staff and students, including Fabrizzio.
 7. CS 1 - basic introduction to programming using Python (similar to CS 160/CS 161 hybrid)
 8. CS 2 - Flow control and repeat of CS 1 but in C++ (imperative programming, CS 161/CS 162 hybrid)
 9. CS 3 - Matches CS 260
8. Piper Lisseveld (SOCC) 49:20
 1. Overall enrollment down 17%
 2. CTE up 3%
 3. Rolled out cybersecurity program (first set of classes in Fall term). Going well.
 4. Most classes are online, a few programs are in person
 5. 11 layoffs out of 51 faculty since last year
 6. CS 260 assessments: videotape students explaining and then running their code
 7. Cybersecurity degree is multi-disciplinary, been main focus for the last year
9. Becka Morgan (WOU) 56:47
 1. CS enrollment flat.
 2. Resignation last year, so down one tenure track faculty.
 3. Continuing to be transfer friendly
 1. CS 0 taught and is part of degree
 2. CS 161/ CS 162 in Python

3. CS 260 offered in both C++ and Python
 4. Transfer of student who took CS 161 in C++ and then try CS 162 in Python: can retake CS 161 or can do Python tutorial to pick up language
 5. Introduced two new courses starting Winter term: 366 (Languages and Tools) 367 (Design and Testing). Purpose of these two classes is to scaffold knowledge for senior project
 6. College is remote for everything except for science labs and absolutely "hands on" necessary
 7. CS is hybrid with remote sync and remote async components
10. Marc Goodman (PCC) 1:08:55
1. Will discuss CTE only
 2. PCC is remote through Winter term
 3. Some courses re-configured so that they could be online, and 100% of CIS program is offered online at this point
 4. Enrollment down a bit. Two weeks into the term, College down about 18%, CIS down about 5.5%
 5. CIS 122 (intro to programming) is Python.
 1. After completing this course students can take two-term sequence in Python, Java, Javascript, C#, PHP
 6. Offer Cybersecurity degree (AAS), certificate, and seeking ABET accreditation for Cybersecurity
 7. Microsoft is getting away from on-premises certification in favor of cloud-based certification. Unclear what that means for PCC curriculum
 8. Developing new curriculum in Web space: inheriting from now-defunct Computer Applications and Web Technology program.
 1. CAWT teach-out concluding soon - need to fill the gap
 2. Trying to create an AAS degree in web design and development
 3. Need to convince AAS degree is viable in Oregon (Oregon Dept. of Labor lists BA as entry-level degree for web design and development)
 9. Hired new faculty - Data Comm and Cybersecurity.
11. Joe Sventek (UO, MTM-CS Chair) 1:27:37
1. Update on MTM status, in preparation for MTM-CS meeting this afternoon.
 2. Slides on Wiki
12. Gayathri Iyer (PCC) 2:02:28
1. CS 160 changes: more inclusive, PCC Gen Ed class
 2. CS 161 being split into CS 161A and CS 161B
 1. Linux intro in CS 161B, so CS 140U no longer required for CS 162
 3. CS 162 no real changes (other than pre-reqs)
 4. Implement in Fall 2021 / Winter 2022
13. Shawli Sengupta (PCC) 2:08:22
1. Focusing on equitable grading and retention
 1. Implemented 4-pt grading scale
 2. Enrollment
 1. Fall RC +5.4%, SY flat. Overall up about 3.8% or so
14. Paul Wilkins (LCC) 2:10:41

1. Enrollment: College down 15% to 20%, CS down but less than that
 2. College pretty much all online except for critical CTE that must be hands on. About 90% of instruction college-wide is online
 3. CS mostly synch online
 4. Plan for remote delivery Winter and Spring term. Probably online-only for rest of year
 5. Game Development degree being phased out: not enough jobs for all of our graduates
 6. Game Arts track being handed off to Multi-Media Arts department - will continue
 7. One CS faculty retirement - probably not going to be replaced due to lower enrollments
15. Andrew Scholer (Chemeketa) 2:14:51
1. Mandy R. on Sabbatical this year - she does CIS
 2. Andrew CS only report
 3. Chemeketa mostly remote except for critical CTE hands-on
 4. Remote means 25%+ synchronous for these classes
 5. College down 11%. Satellite campuses (e.g. Woodburn) enrollment down more sharply
 6. CS up 23% from last fall: Robert Surtan is 2nd full-time faculty to address unmet demand
 7. No major curriculum changes. Talking with Math about expanding online offerings to include discrete math and some other courses , so that all of the essential CS transfer classes are available online
16. Kathleen Freeman (UO) 2:19:32
1. Meeting remotely like most.
 2. Modified grading policy in place
 3. Enrollment is pretty steady in both lower and upper divisions
 4. Transfer students need to learn Python and C (lower division languages) so they have a Python bootcamp for incoming transfers
 1. Not for credit - just extra office and help hours. Nice landing place for transfer students.
 2. Seems to be working and will try to keep it going
 5. Fall 2020 UO has Data Science major (program and major, but not part of CS department)
 1. Double major for CS students
17. Yong Bakos (OSU Cascades) 2:26:43
1. Enrollment
 1. Flat. Just under 100 students. 25% women. 100% job placement.
 2. Job Placement / Internships
 1. 100% job placement
 3. COVID operations
 1. "Remote first" strategy: minimize Zoomathons, keep classrooms available and scheduled on the books. Use as student space
 4. Current Focus
 1. Quality
 2. Culture
 3. Transfer Pathway COCC --> OSU-C. 95% of graduates are transfers, so transfer is important
 5. 2+2 Idea

- 6. ENGR
- 7. BS Software Engineering
 - 1. On hold since Spring due to time.
- 8. Curiosities
 - 1. Academic integrity is a problem: cheating at an all-time high
- 18. Calvin Hughes (OSU) 2:41:28
 - 1. Mostly working on MTM-CS
 - 2. Admission requirements changed for Masters of Engineering (coursework only admission. 3.0 GPA + B or better for admission).
- 19. Tyler De Adder (OSU) 2:43:13
 - 1. Most courses remote
 - 2. Increase in online course enrollment
 - 3. OnCampus CS 160 plus remote version.
 - 4. Remote in Winter
 - 5. CS up slightly enrollment.
 - 6. Offer stand-alone cybersecurity certificate. Technical - focused at those with CS degree. Significant pre-reqs
 - 7. ABET accreditation this year. Seems to be on track
 - 8. Restructuring curriculum: ENGR+ first-year experience
 - 1. Common first-year experience, then choose track
 - 2. CS 160 will be replaced with ENGR 100 course. Should not be a problem
 - 3. CS 161 will be absorbed into ENGR+, and still looking at how that feeds into CS 162
 - 4. Motivating comprehensive look at CS curriculum. Lots to figure out

ADDENDUM 1 - Notes Provided By PSU After The Meeting

PSU is continuing with remote instruction through at least Winter. CS (and the whole Maseeh College of Engineering and CS) is also continuing its policy of allowing students to choose P/NP grading for all courses in CS instead of letter grading, and to have those grades count towards degree requirements. (It appears that approximately 30% of our students chose that option in Spring 2020.) We are waiting for decisions on whether we will continue to be remote in Spring 2021.

We had good enrollments over summer, but we are seeing worrying drops in enrollment in Fall. The main CS program had modest growth in applications for freshmen, but there was a decline for transfers, and actual enrollments were down for both. International students, who were possibly unable to get visas due to the pandemic, accounted for close to half of the drop. Our Biomedical Informatics 3+2 program, joint with OHSU, received almost no applications this year.

Work on the MTM led to the conclusion that we would need to make some changes to our curriculum and/or our processes for admission to the major. We have yet to settle on exactly what those changes will be, but we will move forward with decisions on that once the shape of the MTM has been decided, and we will be sure to communicate those changes to our partners. The options on the table range from relatively small changes in one or two courses (including timing/position of the proficiency demo), to exploring the possibility of eliminating our admissions processes completely, inspired in part by the steps that OSU has taken to eliminate its Pro School.

We are now developing online versions of the courses for our CS minor. Resulting courses may be of interest to students at smaller CCs who don't have access to all of the courses required for the MTM.

We had a successful hiring process last year, with two new colleagues (one in natural language processing, one in quantum), but we also had a retirement (following another retirement and a faculty departure the previous year), so we are beginning another hiring cycle this year, hoping at least to maintain faculty numbers.

Addendum 2 - MTM-CS Slides Provided by Joe Sventek

 20201023OCCC-MTM-CS.pdf

250 kB

MTM-CS

Joe Sventek, UO

23 October 2020

Current members

- Peter Hernberg/Blue Mountain
- Ken Swartwout/Central Oregon
- Andrew Scholer/Chemeketa
- Jen Miller/Clackamas
- Paul Wilkins/Lane
- Joseph Jess/Linn-Benton
- Pamela Wiese/Mt Hood
- Doug Jones/Portland
- Jeremy Taylor/Rogue
- Ron Dodge/ODE
- Tim Harrison/EOU
- Phil Howard/OIT
- Calvin Hughes/OSU
- Mark Jones/PSU
- Barbara Sabbath/PSU
- Fabrizzio ... Soares/SOU
- Joe Sventek/UO
- Kathleen Freeman/UO
- Becka Morgan/WOU
- Brittany Miles/HECC

General Principles for this effort

- Meet MTM requirements
 - no wasted CC credits; each course must
 - meet university gen ed requirements, or
 - meet CS major requirements, or
 - be applicable as university electives
 - after transfer to target university, the student is able to graduate with a BS CS degree after 12 academic quarters, counting those at CC and those at target university
- Require minimal changes to university degree programs
- Require minimal additional courses that a CC must deliver for the MTM
- Minimize the number of required credits that must be applied as university electives

Background - university clusters

- Computer Science, ABET accredited:
 - OSU
 - PSU
- Computer Science, not accredited:
 - EOU
 - SOU
 - UO
 - WOU











