

Virginia Western CS/IT Curriculum Advisory Meeting
January 30, 2023
6:30 PM Zoom

1. Welcome and introduction
In Attendance: B Bagby, Diane Wolff, Jeff Scott, Art Carter, Doug Anderson, Rob Schadey, Rob Garbee, Darrell Agee.
2. Discussion of enrollment
summer, fall, spring numbers
3. Update of our programs
 - a. Specializations are going away.
 - b. One version of Computer Science will become a standalone major
 - c. The second version will be under Engineering
 - d. No major changes to AAS and CSC programs
4. SLOs and SAACS visit – October 2023 It's coming
5. Update from John Conrthwait – art: full stack not web development. Not seeing those students at Radford. Diane: not seeing a lot of students. Art probably not growing. Just need enough to script a page then it's up to them.
- 6.
7. CS Scholars
Need two more folks. Moved into a conversation about chatGPT and how it is impacting classes. Radford (Art) discussed how do we test; pencil and paper? B allows in some classes but not others.
8. Certification Exams - Diane
 - a. 2022 – we paid for 42 certifications. See thank you emails from a few of the students at the bottom
 - b. We are also giving IT Specialist (Certiport) in house – Jeff: good entry point for students to build confidence. Working with Testing Center to offer some Certiport testing. Some tests are challenging. Good introduction for students.

We have two people that are donating the money for the exams for students.
Diane to Rob Schadey: would these certs mean anything to you. Rob: yes. Sec+ required for many roles. Diane: even lower level? Rob: not so much on DOD. Doug: Yes. Helps get the foot in the door on a first job at the help desk or similar. CompTIA tests meet baseline requirements for several jobs. Rob Garbee: yes, as long as the applicant can “unpack the certificate coherently” that will go pretty far.

Jeff: got an email to train for proctor for in house cisco testing.
9. Transfer VA changes and portal transferva.org
Diane: TVA was good to CS. It works well. Transferva website is impressive. Student can put in their resume and transcript and it will show them what courses transfer into which schools.
10. New lab equipment – Rob S: Can you leverage interfaces for the lab on AWS.
11. CAE2Y redesignation – B. in progress and continuing. Diane: it shows on their transcript which is awesome.
12. STAT 2023 - STEM Academy for Teachers
Jeff: second year of this. Geared to HS teachers to give CS training to folks that might not get it otherwise. “From Code to the Road”. Do some python, and a build a buggy. Rob S,: have you talked to tweeks?

13. BEEs project – four days of kids for the project. VWCC is becoming a Bee campus.

Open Discussion:

Rob G: B-Sides coming up in May. Call for papers is out now, and we’re looking for sponsors. Working with RBTC to promote.

Diane: can we come together before summer and see what we’re doing, what we should change/update? Do we need all these CSCs? Are there things we are missing? Can we just send you our programs and then gather at some point to talk about it? We’ll set up a follow up in April?

Curriculum Open Discussion Topics:

Trending topics in web right now are [accessibility](#) (we do one module on this in ITD110) and [headless content management](#). Accessibility is about to be “the” thing and Google is already [adding it as a criteria](#) in its evaluation tools (and don’t get me started with the accessibility issues on the VWCC website 😊). If I had to speculate, this will become as influential in search performance as speed.

Rob: Ties in with the cloud classes. Do we need to look at more advanced classes?

Headless dovetails into something I’ve heard from a few students at the end of last semester and already from a few this semester. They are wanting to see a web project through from start to finish, where they build the front end, configure a content management system, and connect it server-side.

I realize enrollment in web is limited, so this would be tough to do as a class (though it could certainly fill a semester), but maybe as a capstone project or independent study?

John: Finding skilled full stack is tough. Can VWCC expand on those skills?

From a capacity and investment standpoint, it took us [almost a year](#) to get Beck up to speed on accessibility and content management, so there is definitely a gap between the classroom and production.

Date	HD CNT.	HD CNT.	HD CNT.	HD CNT.	FTES	FTES	FTES	FTES
	Spr '22	Spr '23	Change	% Change	Spr '22	Spr '23	Change	% Change
Mon, Jan 30	4444	4844	400	9.0%	2510	2628	118	4.7%

Science: Computer Science

Program Enrollment	2017-18	2018-19	2019-20	2020-21	2021-22	3-Year Average
Enrollments	548	670	753	727	716	732
Students	75	100	112	118	117	116

FTE Generated	51.9	70.6	79.0	75.6	72.2	75.6
% of VWCC's total FTE	1.3%	1.9%	2.2%	2.2%	2.2%	2.2%

Engineering Computer Science

Program Enrollment	2017-18	2018-19	2019-20	2020-21	2021-22	3-Year Average
Enrollments	459	439	372	360	232	321
Students	70	65	59	52	36	49
FTE Generated	48.7	48.4	41.0	39.7	26.1	35.6
% of VWCC's total FTE	1.2%	1.3%	1.2%	1.2%	0.8%	1.1%

Cybersecurity and Networking degrees and certificates

Program Enrollment	2017-18	2018-19	2019-20	2020-21	2021-22	3-Year Average
IST: Cyber Security and Network Administration AAS (299-11)						
Enrollments	498	417	514	572	519	535
Students	76	75	92	97	97	95
FTE Generated	48.9	42.9	54.3	58.3	51.9	54.8
IT: CISCO CCNA Networking CSC (221-732-12)						
Enrollments	129	264	362	478	383	4
Students	18	43	62	78	69	70
FTE Generated	13.8	28.5	38.9	49.4	38.3	42.2
IT: Cyber Security CSC (221-732-09)						
Enrollments	221	267	544	707	496	582
Students	38	49	99	122	98	106
FTE Generated	22.7	28.0	58.2	73.2	50.9	60.8
IT: Network and Security Administration CSC (221-732-02)						
Enrollments	348	330	482	578	359	473
Students	52	55	83	97	72	84
FTE Generated	34.7	34.5	50.9	59.5	36.4	48.9
Cyber Security and Network Administration Programs Overall (Unduplicated**)						
Enrollments	627	545	754	885	694	778
Students	106	112	139	161	143	148
FTE Generated	61.4	57.2	80.8	91.8	70.5	81.0
% of VWCC's total FTE	1.5%	1.5%	2.3%	2.7%	2.2%	2.4%

Database and Program Developer Degree and certificate

Program Enrollment	2017-18	2018-19	2019-20	2020-21	2021-22	3-Year Average
IST: Database and Program Developer AAS (299-10)						
Enrollments	306	239	301	368	342	337
Students	62	48	55	64	58	59
FTE Generated	30.3	24.7	31.8	36.8	35.3	34.6
IT: Database and Program Developer CSC (221-299-12)						

Enrollments	239	205	325	392	371	363
Students	47	47	64	73	64	67
FTE Generated	23.6	21.6	34.6	40.4	38.4	37.8
Database and Program Developer Programs Overall (Unduplicated**)						
Enrollments	406	284	375	453	452	427
Students	84	67	75	84	80	80
FTE Generated	40.3	29.8	39.6	46.2	46.6	44.1
% of VWCC's total FTE	1.0%	0.8%	1.1%	1.4%	1.4%	1.3%

Information Technology Degree and certificates

Program Enrollment	2017-18	2018-19	2019-20	2020-21	2021-22	3-Year Average
Information Systems Technology AAS (299)						
Enrollments	334	237	178	174	167	173
Students	64	51	41	41	38	40
FTE Generated	31.4	23.6	18.7	17.1	17.2	17.7
IT: Information Technology Support Analyst CSC (221-299-23)						
Enrollments	-	-	33	497	400	310
Students	-	-	6	85	79	57
FTE Generated	-	-	3.5	49.9	41.1	31.5
IT: Web Programmer CSC (221-352-03)						
Enrollments	144	133	122	224	253	200
Students	23	23	26	43	45	38
FTE Generated	13.8	11.2	12.7	22.3	25.8	20.3
IST Overall (Unduplicated**)						
Enrollments	468	350	323	758	713	598
Students	85	74	71	145	138	118
FTE Generated	44.2	34.9	33.9	76.2	72.7	61.0
% of VWCC's total FTE	1.1%	0.9%	0.9%	2.3%	2.3%	1.8%

Students write thank you letters.

Some excerpts

- “I decided a little later in life to go back to school and earn a degree. I am in my late 30's, and a mother to 3 boys, one of which is very special needs. Without this scholarship, I would not be able to take a very critical exam for my career.”
- “I had lost my job and was planning on starting my schooling in the summer of 2020. This posed a challenge to my finances at home due to now being a single income family. This scholarship has specifically helped me obtain the Certified Associate Project Manager certification! This certification has also helped me in securing a new job in the area of study that I have pursued at VWCC! “
- “I wanted to personally thank you for the opportunity to take the CompTia Sec+ certification. I worked at a company for 19 years and unfortunately, my job was sent overseas. I never imagined myself having to start over and in a field that I knew nothing about. Taking classes has been a huge adjustment to me and my family but I don't regret any moment of it. Thank you for helping to make my new journey a reality.”