

Wyoming Community College Commission

NEW PROGRAM REQUEST FORM

College	Laramie County Community College				
Date	May 10, 2021				
Program Title	Virtualization and Cloud Administrator				
Type of Credential	<input type="checkbox"/> AA	<input type="checkbox"/> AS	<input type="checkbox"/> AFA	<input type="checkbox"/> AAS	<input type="checkbox"/> Certificate
	<input checked="" type="checkbox"/> Other	Credit Diploma			
Total Credit Hours	16				
CIP Code	11.1002 / SOC: 15-1211				
Classification of Instructional Programs/CIP obtained from the National Center for Educational Statistics at https://nces.ed.gov/ipeds/cipcode/browse.aspx?y=55 . Double check your recommendation with the course coordinator and/or Student Records.					
Title	System, Networking, and LAN/WAN Management/Manager				

Rationale for request	
Type of Program	<input type="checkbox"/> Transfer preparation <input checked="" type="checkbox"/> Short term workforce placement <input type="checkbox"/> One-year workforce placement <input type="checkbox"/> Special need endorsement
Certificate Questions <i>More than one may apply</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No local or state employer or industry specific <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No nationally recognized <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No examination or licensure preparation <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No practicum <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No stackable <u>Title IV</u> Financial Aid Eligible <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (minimum of 16 semester hours) (Stafford Loans, Perkins Grants, Pell Grants and Federal Campus-based Grants)
New program start	<input type="checkbox"/> NA OR identify the semester the program will start: Spring 2023
Taught by non-accredited vendors?	<input type="checkbox"/> YES (see below) <input checked="" type="checkbox"/> NO Click or tap to enter text.
WCCC or State Priority	<input checked="" type="checkbox"/> YES (see below) <input type="checkbox"/> NO (See the WCCC website , there are several programs which have a state priority, such as the Governor's Economically Needed Diversity Options for Wyoming/ ENDOW Information Technology – Advanced Technologies Support

Program Curriculum	
Program Description	The Virtualization and Cloud Administrator Credit Diploma is designed to prepare students with the core skills set and experience to deploy, administer, and manage modern enterprise IT services on virtualized and cloud platforms. Students can earn four (4) industry certifications, and gain experience on the most prevalent platforms. 16
New Curriculum	<input checked="" type="checkbox"/> YES (see below) <input type="checkbox"/> NO

List the new courses **alphabetically**. Include prefix, course number, course title, credit hours. Check the [Wyoming Transfer Catalog](#) for possible courses and numbers. Additionally, WCCC has a statewide common course numbering system (CCNS). Colleges must ensure all new courses are aligned with the CCNS. Confirm this alignment with the course coordinator and/or Student Records. Note that CCNS alignment and/or new course title and number requests to the WCCC will take at least a week to process.

College Catalog Considerations (check all that apply)	Prefix	Number	Title	Credits	[^] LOI
<input checked="" type="checkbox"/> New course <input type="checkbox"/> New number <input type="checkbox"/> New prefix <input type="checkbox"/> New title <input type="checkbox"/> CCNS alignment	CMAP	2540	AWS Essentials	4	3
<input checked="" type="checkbox"/> New course <input type="checkbox"/> New number <input type="checkbox"/> New prefix <input type="checkbox"/> New title <input type="checkbox"/> CCNS alignment	CMAP	2535	Azure Fundamentals	4	3
<input checked="" type="checkbox"/> New course <input type="checkbox"/> New number <input type="checkbox"/> New prefix <input type="checkbox"/> New title <input type="checkbox"/> CCNS alignment	CMAP	2750	VMWare Virtualization I	4	3
<input checked="" type="checkbox"/> New course <input type="checkbox"/> New number <input type="checkbox"/> New prefix <input type="checkbox"/> New title <input type="checkbox"/> CCNS alignment	CMAP	2775	VMWare Virtualization II	4	3
<input type="checkbox"/> New course <input type="checkbox"/> New number <input type="checkbox"/> New prefix <input type="checkbox"/> New title <input type="checkbox"/> CCNS alignment	Click or tap here.	Click or tap here.	Click or tap here to enter text.	Click or tap here.	Click or tap here.
<input type="checkbox"/> New course <input type="checkbox"/> New number <input type="checkbox"/> New prefix <input type="checkbox"/> New title <input type="checkbox"/> CCNS alignment	Click or tap here.	Click or tap here.	Click or tap here to enter text.	Click or tap here.	Click or tap here.
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TOTAL CREDITS				16	

^Course Coordinator can provide.

Similar programs in Wyoming? (See WCCC Program List)	<input type="checkbox"/> Yes (list Colleges below) <input checked="" type="checkbox"/> No Click or tap here to enter text.		
Discussions with other Community Colleges	<input type="checkbox"/> Yes (see below) <input checked="" type="checkbox"/> No (see rationale below) This is a new program for the state, and is not currently being pursued by other colleges, as per conversations during course equivalency discussions in Spring 2021. These discussions included Jennifer Allen, WWCC; Troy Amick, LCCC; Nicole Anderson, WCCC; Leesa Lee, WWCC; Christina Rigdon, NWCCD; Stu Moore, WWCC; Krissy Wallage, CWC; Brandon Wilson, EWC; Matt Herr, CWC; Marjorie Anderson, CCC; and Lisa McClure, WWCC.		
Additional Resources (faculty, support services, equipment or supplies)	<input type="checkbox"/> Yes (see below) <input checked="" type="checkbox"/> No STAFFING IMPACT: Existing faculty can deliver this content. Impacts to instructional load will be mitigated by adjunct faculty in the near term; we anticipate full-time faculty needs in the future, but not for program implementation. BUDGET IMPACT: Minimal impact associated with program implementation; eventual faculty positions in information technology discipline are anticipated as demand for this credential rises.		
Primary Student Audience	Industry professionals, IT Pathway AAS students, graduates looking to expand skillsets		
Anticipated three-year unduplicated headcount	Year one: 12	Year two: 14	Year three: 15

Projected Demand in Wyoming and Nationally

(Labor market anticipated demand upon completion of the program and wages for this career field)

Suggested data sources for Occupational Outlook and Wages:

- Career One Stop- [US Department of Labor](#)
- Bureau of Labor Statistics (occupational outlook handbook) <https://www.bls.gov/ooh/>
- Wyoming Labor Market Information (WLMI) <http://doe.state.wy.us/lmi/>

Projected Demand

Location	Employment			
UNITED STATES	Year 2020	+10 years	Percent Change	Job Openings
	63,904	97,246	+52.2%	20,742
WYOMING	Employment			
	Year 2020	+10 years	Percent Change	Job Openings

	927	2,199	+137.2%	80
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State and National Wages

Location	Pay Period	Year 2019				
		10%	25%	Median	75%	90%
UNITED STATES	Hourly	\$26.68	\$34.08	\$44.48	\$57.36	\$71.89
	Yearly	\$55,500	\$70,900	\$92,500	\$119,300	\$149,500
WYOMING	Hourly	\$24.47	\$30.99	\$39.43	\$49.33	\$61.21
	Yearly	\$50,900	\$64,500	\$82,000	\$102,600	\$127,300

APPENDIX A- PROGRAM TERM BY TERM PLAN

Provide the program's term by term plan below

WCCD PROPOSED PROGRAM OF STUDY FOR: Virtualization and Cloud Administrator

RECOMMENDED CURRICULUM SEQUENCE: PROPOSED			
COURSE			
Prefix	Number	Title	Credits
<i>Fall Semester 1st Year</i>			
CMAF	2540	AWS Essentials	4
CMAF	2535	Azure Fundamentals	4
CMAF	2750	VMWare Virtualization I	4
CMAF	2775	VMWare Virtualization II	4
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Click or tap here to enter text.	Click or tap here to enter text.	Click or tap here to enter text.	Click or tap here to enter text.
TOTAL FALL SEMESTER			16
<i>Spring Semester 1st Year</i>			
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TOTAL SPRING SEMESTER			Click or tap here to enter text.
TOTAL PROPOSED PROGRAM CREDITS			16