

Wyoming Community College Commission

NEW PROGRAM REQUEST FORM

College	Laramie County Community College				
Date	May 10, 2021				
Program Title	Data Analytics				
Type of Credential	<input type="checkbox"/> AA	<input type="checkbox"/> AS	<input type="checkbox"/> AFA	<input checked="" type="checkbox"/> AAS	<input type="checkbox"/> Certificate
	<input type="checkbox"/> Other	Click or tap to enter text.			
Total Credit Hours	66				
CIP Code	11.0401				
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	Data Analyst/Data Warehouse Specialist				

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 type="checkbox"/> Yes <input checked="" 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: Fall 2022
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 – Data Warehousing and Business Data Intelligence

Program Curriculum	
Program Description	The Data Analytics Associate of Applied Science program is specifically designed to prepare students for entry-level positions in fields related to data analysis, presentation, and warehousing. Students can earn various credit diplomas and stackable industry certifications while concurrently earning this A.A.S. Students complete the Datacenter Specialist credit diploma during their first two semesters and then complete the Data Analytics Systems credit diploma during their third and fourth semesters.

New Curriculum	<input checked="" type="checkbox"/> YES (see below) <input type="checkbox"/> NO				
<p>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.</p>					
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	2551	Scripting and Automation for IT Professionals	3	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	MSFT	2825	Microsoft Power Platform Fundamentals	3	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	MSFT	2830	Analyzing Data with Microsoft Power BI	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	2620	Data Governance – Policy and Ethics	3	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	MSFT	2925	Microsoft Dynamics 365 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	MSFT	2950	Introduction to Azure Machine Learning	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.
<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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<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.
TOTAL CREDITS				21	

[^]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 checked="" type="checkbox"/> Yes (see below) <input type="checkbox"/> No STAFFING IMPACT: Faculty training requirements, adjunct faculty identification and employment, full-time faculty to assist with additional instructional load. 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	Data science professionals, industry professionals, students seeking careers in business intelligence and data warehousing		
Anticipated three-year unduplicated headcount	Year one: 12	Year two: 14	Year three: 17

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](https://www.dol.gov)
- 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
	50,042	96,544	+92.9%	46,502
WYOMING	Employment			
	Year 2020	+10 years	Percent Change	Job Openings
	1100	3085	+180.5%	1,985

State and National Wages

Location	Pay Period	Year 2019				
		10%	25%	Median	75%	90%
UNITED STATES	Hourly	\$25.86	\$33.39	\$44.04	\$57.28	\$70.80
	Yearly	\$53,800	\$69,500	\$91,600	\$119,100	\$147,300
WYOMING	Hourly	\$23.96	\$31.19	\$40.14	\$51.50	\$63.36
	Yearly	\$49,800	\$64,900	\$83,500	\$107,100	\$131,800

APPENDIX A- PROGRAM TERM BY TERM PLAN

Provide the program's term by term plan below

WCCD PROPOSED PROGRAM OF STUDY FOR: Data Analytics Associate of Applied Science

RECOMMENDED CURRICULUM SEQUENCE: PROPOSED			
COURSE			
Prefix	Number	Title	Credits
<i>Fall Semester 1st Year</i>			
CMAP	1615	Operating Systems	3
CMAP	1920	Computer Hardware Maintenance	4
MATH	1400	College Algebra	3
STRT	1000	Strategies for Success	3
ENGL	1010	English 1: Composition	3
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TOTAL FALL SEMESTER			16
<i>Spring Semester 1st Year</i>			
CSCO	2000	Cisco: Internetworking I	3
CMAP	1960	Server Installation and Administration	3
CMAP	2551	Scripting and Automation for IT Professionals	3
HMDV	1510	Success in the Workplace: Soft Skills	3
COMM	2010	Public Speaking	3
HIST	1251	Wyoming History or	3
ECON	1200	Economics, Law, and Government or	
HIST	1211	US to 1865 or	
HIST	1221	US from 1865 or	
POLS	1000	American and Wyoming Government	
TOTAL SPRING SEMESTER			18
<i>Summer Semester 1st Year</i>			
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TOTAL SUMMER SEMESTER			0
<i>Fall Semester 2nd Year</i>			
STAT	2010	Statistical Concepts - Business	4
MSFT	2825	Microsoft Power Platform Fundamentals	3
MSFT	2830	Analyzing Data with Microsoft PowerBI	4
CMAP	1815	Database Applications	3
CMAP	1200	Computer Information Systems	3
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TOTAL FALL SEMESTER			17
<i>Spring Semester 2nd Year</i>			

MATH	2355	Mathematical Applications for Business	4
CMAP	2620	Data Governance – Policy and Ethics	3
MSFT	2925	Microsoft Dynamics 365 Fundamentals	4
MSFT	2950	Introduction to Azure Machine Learning	4
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.
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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 SPRING SEMESTER			15
TOTAL PROPOSED PROGRAM CREDITS			66