

# Wyoming Community College Commission

## NEW PROGRAM REQUEST FORM

<b>College</b>	Laramie County Community College				
<b>Date</b>	May 10, 2021				
<b>Program Title</b>	Telecommunications Specialist				
<b>Type of Credential</b>	<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			
<b>Total Credit Hours</b>	17				
<b>CIP Code</b>	11.0901 / SOC: 49-9052				
Classification of Instructional Programs/CIP obtained from the National Center for Educational Statistics at <a href="https://nces.ed.gov/ipeds/cipcode/browse.aspx?y=55">https://nces.ed.gov/ipeds/cipcode/browse.aspx?y=55</a> . Double check your recommendation with the course coordinator and/or Student Records.					
<b>Title</b>	Fiber Optics Network Technician				

Rationale for request	
<b>Type of Program</b>	<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
<b>Certificate Questions</b> <i>More than one may apply</i>	<input checked="" type="checkbox"/> <b>Yes</b> <input type="checkbox"/> <b>No</b> local or state employer or industry specific <input type="checkbox"/> <b>Yes</b> <input checked="" type="checkbox"/> <b>No</b> nationally recognized <input checked="" type="checkbox"/> <b>Yes</b> <input type="checkbox"/> <b>No</b> examination or licensure preparation <input type="checkbox"/> <b>Yes</b> <input checked="" type="checkbox"/> <b>No</b> practicum <input checked="" type="checkbox"/> <b>Yes</b> <input type="checkbox"/> <b>No</b> stackable  <u>Title IV</u> Financial Aid Eligible <input type="checkbox"/> <b>Yes</b> <input type="checkbox"/> <b>No</b> (minimum of 16 semester hours) (Stafford Loans, Perkins Grants, Pell Grants and Federal Campus-based Grants)
<b>New program start</b>	<input type="checkbox"/> NA <b>OR</b> identify the semester the program will start: Fall 2022
<b>Taught by non-accredited vendors?</b>	<input type="checkbox"/> YES (see below) <input checked="" type="checkbox"/> NO  Click or tap to enter text.
<b>WCCC or State Priority</b>	<input checked="" type="checkbox"/> YES (see below) <input type="checkbox"/> NO (See the <a href="#">WCCC website</a> , there are several programs which have a state priority, such as the Governor's Economically Needed Diversity Options for Wyoming/ <a href="#">ENDOW</a> )  Information Technology – Telecommunications and Fiber Optics Specialists to support broadband expansion of ISPs.

Program Curriculum	
<b>Program Description</b>	The Telecommunications Specialist Credit Diploma is designed to prepare students with the industry-established skills necessary for a career in telecommunications deployment, maintenance, and repair. Students gain expertise in ethernet, copper, and fiber optic networking, as well as structural access and design, and workplace communications.
<b>New Curriculum</b>	<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	<sup>^</sup> 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	1925	Telecommunications Infrastructure Design and Access	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	CMAP	2515	Structured Cabling: Copper and Ethernet	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	2525	Structured Cabling: Fiber Optics	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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<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.
<b>TOTAL CREDITS</b>				<b>11</b>	

<sup>^</sup>Course Coordinator can provide.

<b>Similar programs in Wyoming?</b> <a href="#">(See WCCC Program List)</a>	<input type="checkbox"/> <b>Yes (list Colleges below)</b> <input checked="" type="checkbox"/> <b>No</b> Click or tap here to enter text.
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<b>Discussions with other Community Colleges</b>	<input type="checkbox"/> <b>Yes (see below)</b> <input checked="" type="checkbox"/> <b>No (see rationale below)</b> This is a new program for the state, and is not currently being pursued as for-credit courses 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. *WWCC expressed interest in Fiber-optics courses and telecommunications programs through Workforce Development non-credit paths during discussion panels with telecom providers.		
<b>Additional Resources (faculty, support services, equipment or supplies)</b>	<input type="checkbox"/> <b>Yes (see below)</b> <input checked="" type="checkbox"/> <b>No</b>  <b>STAFFING IMPACT:</b> Existing faculty and adjunct resources will be leveraged for support of this program. <b>BUDGET IMPACT:</b> Minimal impact associated with program implementation; eventual faculty positions in information technology discipline are anticipated as demand for this credential rises.		
<b>Primary Student Audience</b>	Industry professionals. Career changers, IT Pathway students seeking a career in fiber optics and telecommunications		
<b>Anticipated three-year unduplicated headcount</b>	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](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			
	Year 2020	+10 years	Percent Change	Job Openings
UNITED STATES	16,896	14,242	-15.4%	1903
	Employment			
WYOMING	331	532	+60.7%	38
	Employment			

### State and National Wages

Location	Pay Period	Year 2019				
		10%	25%	Median	75%	90%
UNITED STATES	Hourly	\$18.75	\$23.63	\$30.51	\$40.01	\$51.16
	Yearly	\$39,000	\$49,200	\$63,500	\$83,200	\$106,400
WYOMING	Hourly	\$17.27	\$21.64	\$28.11	\$36.90	\$45.74
	Yearly	\$35,900	\$45,000	\$58,500	\$76,800	\$95,100

**APPENDIX A- PROGRAM TERM BY TERM PLAN**

Provide the program’s term by term plan below

**WCCD PROPOSED PROGRAM OF STUDY FOR:** Telecommunication Specialist Credit Diploma

<b>RECOMMENDED CURRICULUM SEQUENCE: PROPOSED</b>			
<b>COURSE</b>			
<b>Prefix</b>	<b>Number</b>	<b>Title</b>	<b>Credits</b>
<i>Fall Semester 1<sup>st</sup> Year</i>			
CSCO	2000	Cisco: Internetworking I	3
HMDV	1510	Success in the Workplace: Soft Skills	3
CMAP	1925	Telecommunications Infrastructure Design and Access	3
CMAP	2515	Structured Cabling: Copper and Ethernet	4
CMAP	2525	Structured Cabling: Fiber Optics	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.
<b>TOTAL FALL SEMESTER</b>			<b>17</b>
<i>Spring Semester 1<sup>st</sup> Year</i>			
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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.
<b>TOTAL SPRING SEMESTER</b>			Click or tap here to enter text.
<b>TOTAL PROPOSED PROGRAM CREDITS</b>			<b>17</b>