INFORMATION TECHNOLOGY
New Program Proposals, FALL 2022

2021 MICROSOFT DCA INNOVATIONS WINNER

- With your support, our efforts in elevating Information Technology education through creative solutions was recognized July 14th during the Microsoft Datacenter Academy Summit. During this virtual session, Troy Amick was recognized as the recipient of the inaugural Innovations in IT Education award.

- Formal Recognition for:

  - CyberCity

  - Mobile Datacenter Trainers

Fall 2022 New Programs

- Data Analytics AAS
- Data Analytics Systems Administrator CD
- Telecommunications Specialist CD
- Virtualization and Cloud Administration CD

Data Analytics AAS

- Expansion of Data Analytics Systems CD
  - Datacenter Specialist CD – Foundational IT knowledge and experience
  - General Education Requirements – Focused on practical skillsets for enterprise data careers
  - Data Analytics CD – Practical Application of modern data management systems
- Graduates will sit for 7 industry certifications in the course of the program
- Employers are generally looking for an Associates degree at a minimum for external candidates in these roles.

"We've looked nationwide and can't find programs that are driven towards business data analytics application. Everything is theory and no ability to use the systems."

- Carey Ryerson, Executive Vice President of Manufacturing Operations, Magpul Industries

Data Analytics AAS

- Where are Data Analytics AAS graduates employed?
  - Any organization that consumes, analyzes, leverages, and disseminates business data
- Data Analytics AAS graduate titles:
  - Business Data Analyst / Manager / Director
  - ERP Analyst / Manager / Director
  - Market Research Analyst / Manager / Director
  - Enterprise Research Analyst / Manager / Director
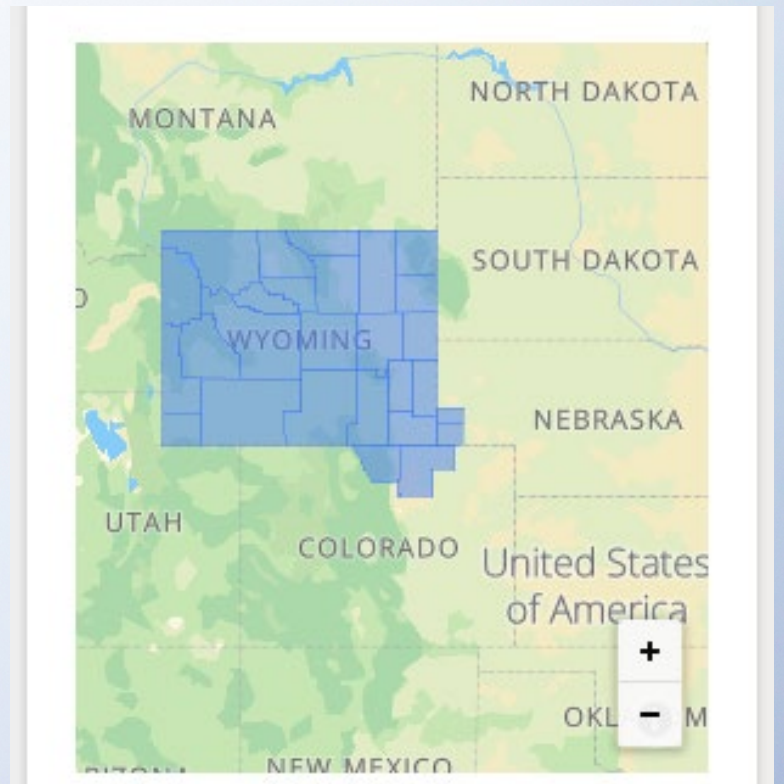 - Business Intelligence Analyst / Manager / Director

Data Analytics AAS

- Growth and Median pay for the career
  - JobsEQ Growth Forecast
    - Nationally – Exceptional
    - Wyoming +75 miles – Exceptional
  - O*Net Wage Analysis
    - National Median – $91,600
    - WY Median – $83,500

Data Analytics AAS

Regional Outlook by role per Career Coach
- Market Research Analysts and Specialists
  - Median Salary – $60,595
  - Annual Job Openings – 279
- Business Intelligence Analysts and Specialists
  - Median Salary – $87, 695
  - Annual Job Openings – 80
- Computer and Information Research Analysts and Specialists
  - Median Salary – $107,096
  - Annual Job Openings – 5

Data Analytics, AAS

Post-graduation Student Options

- Enter the workforce
  - Any organization with Enterprise data consumption and analysis
    - Finance
    - Marketing
    - Manufacturing
    - Public-sector
- Pursue additional education in Data Science or Data Analytics Application

Data Analytics Systems Administrator CD

- Business Data Analytics
  - Approached from an *Application* perspective as opposed to the traditional Data Science track
  - Focused on practical usage of business market and performance data
  - Built on the fastest growing platforms
    - PowerBI
    - Azure Machine Learning
    - Dynamics 365
- 32-week program, designed for industry professionals or those with foundational IT education such as the Datacenter Specialist CD
  - Industry certification of skills
  - Practical demonstration of application
- Students will sit for 4 industry certifications in the course of the program
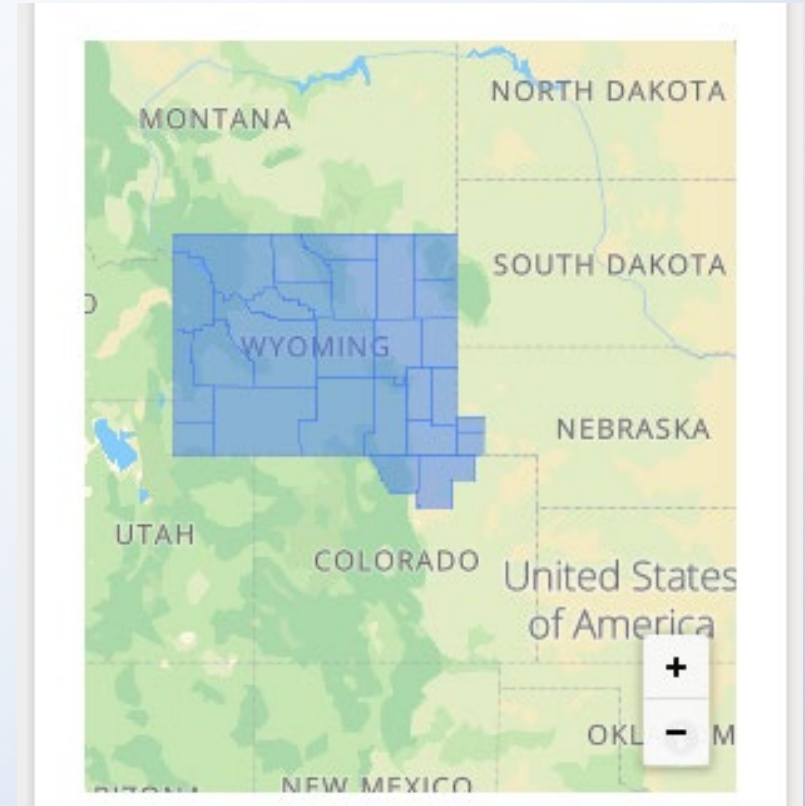
Data Analytics Systems Administrator CD

- Where are Data Analytics Systems Administrators employed?
  - Any organization that consumes, analyzes, leverages, and disseminates business data
- Data Analytics Systems titles:
  - Business Data Analyst / Specialist / Manager
  - ERP Analyst / Specialist / Manager
  - Market Research Analyst / Specialist / Manager
  - Enterprise Research Analyst / Specialist / Manager
  - Business Intelligence Analyst / Specialist / Manager

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Data Analytics Systems Administrator CD

Post-graduation Student Options

- Continue as full-time students to complete the Information Technology AAS

- Enter the workforce
  - Any organization with Enterprise data consumption and analysis
    - Finance
    - Marketing
    - Manufacturing
    - Public-sector

- Enter the workforce, while completing the AAS as a part-time student

Telecommunications Specialist CD

- 16-week program, culminating in a Credit Diploma

- Microsoft has offered to partner us with BICSI to pilot our telecommunications program as an expansion of the Datacenter Academy. BICSI is the industry leader in telecommunications training, with highly respected and valued certifications. This partnership would see LCCC become a BICSI Authorized Training Facility, leading to income potential in a multitude of delivery formats.

- Students sit for 3 valuable industry certifications in the course of this program

- High demand positions, focusing on fiber optic and Ethernet data communications systems, advanced network management, and infrastructure access.

"Qualified and reliable fiber technicians are a choke point for our industry and organization. Finding and retaining these skilled individuals continues to be a limiting factor in our expansion."

-Brian Worthen, CEO Visionary Broadband

Telecommunications Specialist CD

- Where are Telecommunications Specialists employed?
  - Datacenters, such as Microsoft, Lunavi, NCAR, etc.
  - Internet Service Providers, such as Visionary, CenturyLink, Union Wireless, Verizon, etc.
  - Major employers such as Holly Frontier, Echostar, ANB, etc.

- Telecommunications Specialist titles:
  - Telecommunications Specialist / Administrator / Engineer
  - Network Infrastructure Specialist / Administrator / Engineer
  - Fiber Optic Technician
  - Network Services Technician
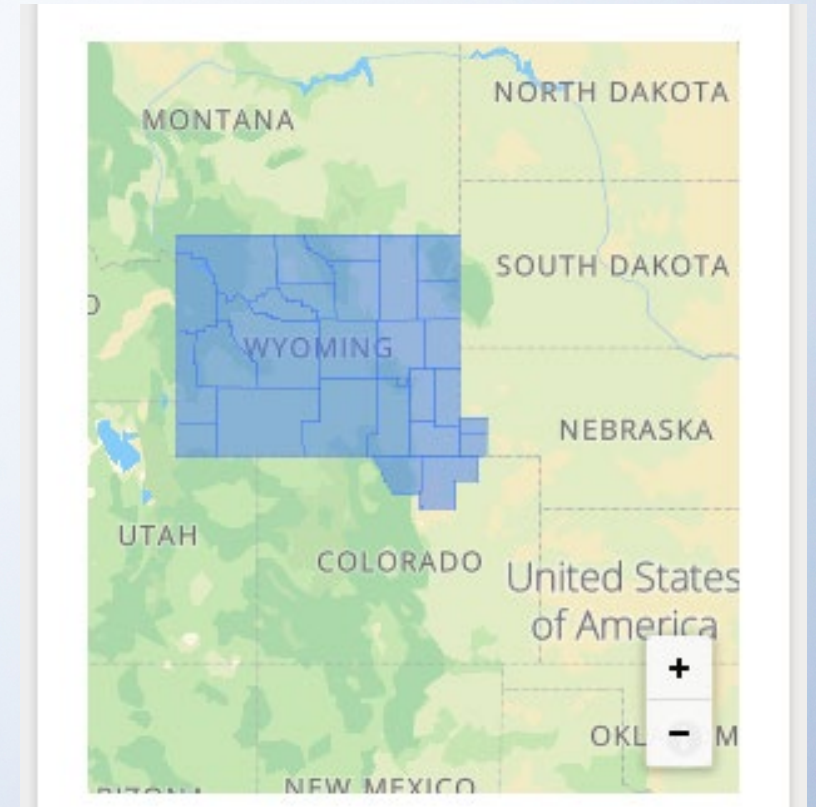 - IT Communications Specialist

Telecommunications Specialist CD

- Growth and Median pay for the career
  - JobsEQ Growth Forecast
    - Nationally – Slow
    - Wyoming +75 miles – Exceptional
  - O*Net Wage Analysis
    - In Western states, the broadband expansion combined with a lack of trained and reliable workforce is leading to immediate employment in the 50-75% range

Telecommunications Specialist CD

Regional Outlooks by role per Career Coach

- Telecommunications Equipment Installers and Repairers
    - Median Salary – $51,852
    - Annual Job Openings – 53

- Telecommunications Equipment Installers and Repairers
    - Median Salary – $58,362
    - Annual Job Openings – 68

- Telecommunications Infrastructure Specialists
    - Median Salary – $102,416
    - Annual Job Openings - 26

- Network Infrastructure Administrator
    - Median Salary – $71,143
    - Annual Job Openings – 102

Telecommunications Specialist CD

Post-graduation Student Options

- Continue as full-time students to complete the Information Technology AAS
- Enter the workforce
  - Microsoft
  - Lunavi
  - Echostar
  - Centurylink
  - Visionary
  - Union Wireless
- Enter the workforce, while completing the AAS as a part-time student

Virtualization and Cloud Administration CD

- 16-week program, culminating in a Credit Diploma
- Modernization of Systems Infrastructure deployment and management education
- Replaces the Systems Administrator CD
  - SysAdmin skillsets at 4-year degree programs
    - 3000 – 4000 level coursework
    - Student success in the 2-year model reflects the advanced nature
- Focuses on the 2 leading cloud service providers
  - Azure
  - Amazon Web Services
- Focuses on the leading (and highest demand) Virtualization Platform, VMWare
- Students sit for 4 valuable industry certifications in the course of the program

Virtualization and Cloud Administration CD

- Where are V&C Administrators employed?
  - Any organization that requires modern infrastructure and cloud service systems administrators
- Virtualization and Cloud Administration titles:
  - Systems Infrastructure Specialist / Administrator / Engineer
  - Virtualization Specialist / Administrator / Engineer
  - Cloud Services Specialist / Administrator / Engineer
  - Managed Services Administrator / Architect
  - Systems Administrator / Engineer / Architect

Virtualization and Cloud Administration CD

- Growth and Median pay for the career
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    - Nationally – Exceptional
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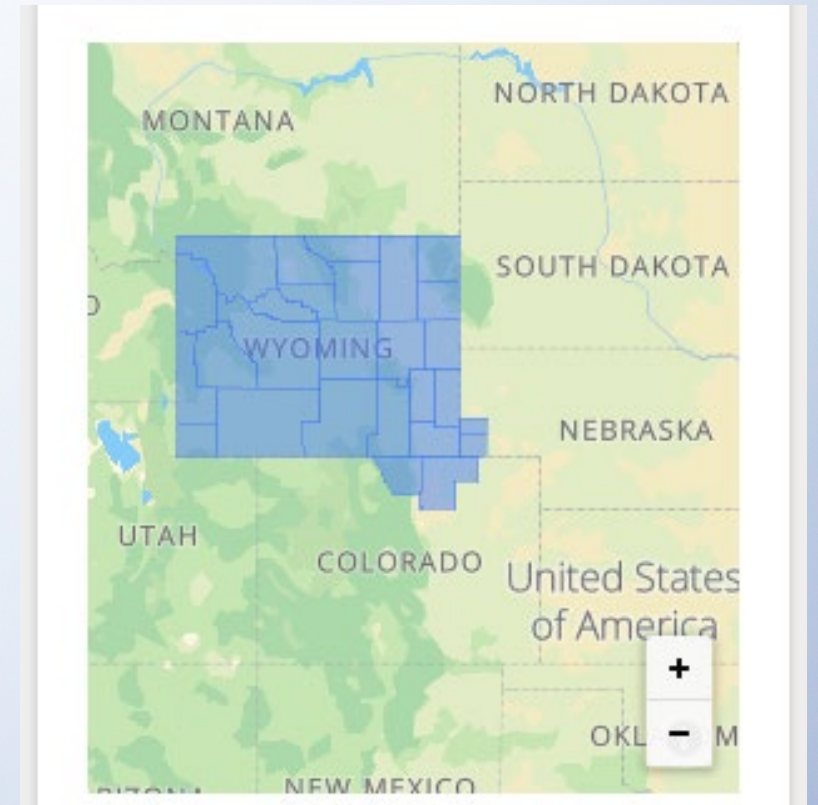 - O*Net Wage Analysis
    - National Median – $92,500
    - WY Median – $82,000*

  *2019 data does not reflect the rapid growth in market demand and the resulting wage increases post-pandemic.

Virtualization and Cloud Administration CD

Regional Outlooks by role per Career Coach

- Computer Support Specialists
  - Median Salary – $67,759
  - Annual Job Openings – 55
- Computer Systems Engineers / Architects
  - Median Salary – $87,695
  - Annual Job Openings – 80
- Computer Network Architects
  - Median Salary – $102,416
  - Annual Job Openings – 26
- Network and Computer Systems Administrator
  - Median Salary - $71,143
  - Annual Job Openings – 102

Virtualization and Cloud Administration CD

Post-graduation Student Options

- Continue as full-time students to complete the Information Technology AAS
- Enter the workforce
  - Any organization with in-house IT support
- Enter the workforce, while completing the AAS as a part-time student

Questions?