



EMPLOYABILITY PROFILE

Data Analytics

Industry-Based Skill Standards

Proficiency Definitions



NA = Not Applicable

1 = Developing

2 = Basic

3 = Proficient

4 = Mastery

| | 9th | 10th | 11th | 12th | | 9th | 10th | 11th | 12th |
|---|-----|------|------|------|--|-----|------|------|------|
| Data Science | | | | | Scala Program | | | | |
| Recognizes the applicability of Data Science to many real-world problems. Explains Data Science safety tools and how businesses use them for risk management. | | | | | Creates, modifies and add to Scala programs to produce new output. | | | | |
| Data Ethics and Privacy | | | | | C Program | | | | |
| Describes ethical and privacy considerations in the field of data science and explains the impact of computers on access to information and information exchange worldwide. | | | | | Creates, modifies and add to C programs to produce new output. | | | | |
| Data Analytics Workflow | | | | | C + + Program | | | | |
| Demonstrates Data Analytics workflow and how to use a spreadsheet to access, extract, filter, and sorts the data in a secure way. | | | | | Creates, modifies and add to C++ programs to produce new output. | | | | |
| Excel | | | | | Power BI Dashboard Platforms | | | | |
| Demonstrates foundational skills in Excel to include creating, navigating, formatting, and customizing worksheets and workbooks. | | | | | Creates, modifies and add to Power BI dashboard platforms to produce new output. | | | | |
| Python Program | | | | | Tableau Dashboard Platforms | | | | |
| Creates, modifies and adds to a Python program to produce new output. | | | | | Creates, modifies and add to Tableau dashboard platforms to produce new output. | | | | |
| R Program | | | | | SQL Program | | | | |
| Creates, modifies and adds to a R program to produce new output. | | | | | Creates, modifies and add to a SQL program to produce new output. | | | | |
| Design Skills | | | | | Statistical Methods for Analyzing Data | | | | |
| Creates a data visualization that presents data clearly and accurately. | | | | | Describes and give examples of the four levels of measurement in data and statistics: nominal scale, ordinal scale, interval scale, and ratio scale. | | | | |
| Presentation and Reporting Skills | | | | | Career Development Portfolio | | | | |
| Creates reports and dashboards that present findings with visual evidence and recommendations based on the initial data questions. | | | | | Creates a career development portfolio using appropriate writing skills to create cover letter, resumes, samples of work, and career plan to be used in the job seeking process. | | | | |

| WORK-BASED LEARNING | | | POSTSECONDARY CREDIT | | | | |
|------------------------|------|-------|--|--------------|----------|---|---|
| Type of WBL Experience | Year | Hours | College Course | Possible Cr. | Attained | | |
| | | | CFS 140 Computer Forensics | 3 | | Y | N |
| | | | CIS 170 Network Fundamentals | 3 | | Y | N |
| | | | CIS 270 Routing and Switching Essentials | 3 | | Y | N |
| | | | CIS 100 Information and Computer Literacy | 3 | | Y | N |
| | | | CMT 101 Introduction to Computers and Applications | 3 | | Y | N |
| | | | ENG 103 Freshman Composition and Literature I | 3 | | Y | N |
| | | | ENG 104 Freshman Composition and Literature II | 3 | | Y | N |

