Data Visualization Fundamentals

TEDA 1050: 2 Credits / 60 Hours

Introduction

Welcome to Bridgerland Technical College. This course will be led with a group on a specific timeline. Specific requirements to successfully complete this course will be outlined in this syllabus.

Course Description

The Data Visualization Fundamentals course teaches key principles in analyzing data using visualizations and best practices in presenting data to stakeholders through a project-based curriculum. Students learn foundational principles of data visualization and how to tell a story using data as well as how visualizations fit into the data cycle. The students learn to use Tableau and Microsoft Power BI to produce multiple visualizations as well as best practices for clear and accurate visuals. Students who complete this course are able to apply data visualization principles using various software.

Course Objectives

Upon completion of this course, you will be able to:

- Install standard data visualization software.
- Demonstrate competency regarding when to use different graph types.
- Create and apply common graphics to data.
- Demonstrate competency in interpreting the output of a graphic and its applications to business.
- Demonstrate competency in understanding statistics concepts through visualizations.

Instructor Information

Sydney Dahl, Continuing Education Instructor

Office: Logan Campus Main building Room 628

Office Hours:

- o   By appointment

Phone: (435) 750 – 3252

Email: sydney.dahl@btech.edu

Hayden Hoopes, Department Head

Office: Logan West building 1833

Office Hours:

- o   Tuesdays from 4:30 - 6:00pm

- o   Thursdays from 4:30 - 6:00pm

Phone: (435) 750 – 3253

Email: hhoopes@btech.edu

Stephanie Nielson, High School Instructor

Office: Logan West building 1828

Office Hours:

- o   Tuesdays from 12:00 - 1:00pm

- o   Thursdays from 12:00 - 1:00pm

Contact: stephanie.nielson@btech.edu

In addition to regular satisfactory academic progress meetings, instructors are available in person and online according to the information below.

In-Person Office Hours: You may drop into your instructors office during their office hours. However, in order to assure that your instructor will not be attending to another student, please email them to schedule a time.

Online Office Hours: If you need to contact your instructor away from campus or outside regular in-person office hours, you may also schedule an appointment time for an online video chat or phone call. To schedule a time, email an instructor/s using your Canvas email.

Email: In order to make sure that your instructor can quickly respond to your emails, please only use Canvas email to communicate with your instructors.

Required Materials

The following texts and/or supplies are required for this course:

- Software: Microsoft Power BI

For an updated list of materials, please check your student portal.

Classroom Hours

Classroom hours begin at 12:00 p.m. and end at 8:00 p.m., Monday through Thursday and begin at 12:00 p.m. and end at 4:00 p.m. on Friday, except for school holidays and closures. Information for the school event calendar is located on the BTECH website.

Course Activities

Begin the course at the Modules page and work your way down to the bottom, in order. The activities listed can include videos, text, assignments, quizzes, projects, and exams. Read each assignment description carefully. Follow the individual instructions on each graded assignment to know how to submit them. Unless instructed otherwise by your instructor, you should submit activities through Canvas directly.

Course Grading

Grades will be tracked through Canvas so that students can assess their process and mastery. Below is a breakdown of what each letter grade and numerical rating means and how they will be awarded.

This will be replaced by a table populated with the course Grading Scheme.

Your overall grade will be weighted as follows:

This will be replaced by a table populated with the course Assignment Groups.

Students need to earn a percentage of 80% or higher to consider mastery of content a success. If a student earns a 0 - 79% percentage for any course, they should consider assessing what material can be redone to increase mastery. The student is encouraged to routinely check their rating in Canvas for their current percentage in the course.

Student Standards & Conduct

Expectations of students includes a high level of academic integrity as well as appropriate motivation to understand course material. Cheating, plagiarizing, infringing on copyright laws, and giving, selling, or receiving unauthorized course or test information is unacceptable.

Technical Support

If you have technical difficulties with the Canvas course, first contact your instructor and make them aware of the issue. If the problem persists or your instructor(s) is unavailable, you can chat with a Canvas representative by clicking here:

Canvas Live Chat

Americans with Disabilities Act

For more information on the ADA or how to contact the College's ADA coordinator, see the Student Guide section on the Americans with Disabilities Act.