**General Education Curriculum Course Designation Proposal**

**Data Analysis**

**Department**: Click here to enter department name.

**Date**: Click here to enter a date.

**Proposed by**: Click here to enter department chair’s name

**Course Information**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Course prefix | | Course number | | | Course title | |
| Course catalog description | | | | | | |
| Current catalog course?  (Select Yes or No) | Yes | | How often will the course be offered? | Frequency of offerings | | |
| Number of credit hours\* | Credits | | Designation to be effective: | Effective Semester | | Effective Year |
| ***Inquiry:*** The purpose of Inquiry courses is to provide a diverse liberal arts experience. These courses will be offered at the 100-200 level and typically have no prerequisites. Each requirement draws from subdisciplines with recognized expertise in that area of study.  ***Policies:***   1. Inquiry courses will devote a majority of coursework to the designation. 2. Inquiry courses will be offered at the 100- or 200-level and typically have no prerequisites.  * *Describe briefly how this course will align with the policies for an Inquiry course:* Click or tap here to enter text.   ***Data Analysis:*** These courses apply quantitative and statistical concepts to solve real-world problems. | | | | | | |

**Definitions of Key Terms:**

* Data wrangling is the preparation of data for analysis using appropriate software (e.g., Excel, Tableau, SPSS, SQL, R) or other tools to organize and format data sets that are incomplete, redundant, irrelevant, unorganized, or otherwise not ready for analysis. Also known as data cleaning or data preprocessing.
* Statistical analysis refers to descriptive statistics and/or inferential statistics calculated by hand or software (e.g., Excel, Tableau, SPSS, R) intended to answer a specific question about the data or investigate properties of the data and relationships between variables.
* Communication is explaining, through appropriate visualizations or verbal communication, the results of a data analysis to the expected audience (e.g., general public, content experts).
* Real-world data refers to data sets that contain variables, either quantitative or qualitative, with measurements taken from a real population, rather than from a simulated or hypothetical population.

**Course Characteristics**: *Describe briefly how this course will meet the following course characteristics for Data Analysis.*

A Data Analysis course will…

|  |  |
| --- | --- |
| **Course Characteristics**: | Examples of class activities and/or assignments |
| 1. …offer explicit instruction on data analysis skills, including, but not limited to, data wrangling, statistical analysis, and communication. | Click or tap here to enter text. |
| 1. …include several opportunities for students to engage in data analysis with real-world data sets connected to authentic problems. | Click or tap here to enter text. |
| 1. …provide feedback that is designed to help students evaluate and improve data analysis skills. | Click or tap here to enter text. |

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Gen. Ed. Dir.: Click to enter Gen Ed Dir’s name Choose Approval. Choose date.

EPCC Chair: Click to enter EPCC Chair’s name Choose Approval. Choose date.