COURSE TITLE: Short (<= 20 Char.): DSC 101

FULL TITLE (<= 35 Char.): Data Science

◉ **New Course**
◯ **Course Revision**

COURSE DESCRIPTION must be type written (For Catalog, 2-4 sentences):

This course will teach the foundations of data science and data-driven research. It is designed to serve as an optional elective course for mathematics majors, minors, and other STEM, business and social science majors who are interested in pursuing data-driven careers or graduate study programs. Students will acquire basic computational skills, basic knowledge of statistical analysis, error analysis, and the basics of Machine Learning. Students will also be familiarized with good practices for handling small and big data. After this class, students should be able to formulate a question, identify appropriate data to answer the question, prepare and analyze the data, extract knowledge and insights, make decisions and identify the confidence level of the decisions. The course will be organized in a modular fashion, with labs and projects assigned to students for group work. Prerequisites MAT-110, CSC-151

Course Number: (xxx-000)
Proposed: MAT-115
Existing: _____

◉ Undergraduate
◯ Graduate

Credit Hours: 3
Class (Hr/Wk): 2
Lab (Hr/Wk): 1
Other (Hr/Wk): _____

Grading System
■ Standard
□ Pass/Fail
□ Other: _____

Course is intended (Check all that apply):

□ Required for Majors: (list) _____

□ Required for Minors: (list) _____

□ Use in University Core Curriculum

■ Primarily as an Elective for Majors & Minors

■ Primarily as an Elective for Non-Majors

■ Can be taken by any Lincoln Student

First term in which new revised course will be offered:
Fall 2022

Expected Frequency:
◉ Every Semester
◯ Once per year
◯ Once every ____ Sem.

Pre-Requisites: MAT 110 and CSC 115

Co-Requisites:

Probable Initial Instructor(s): Joint Teaching

Approvals	Date	Signatures
Department	03/25/2022	Chair:
School	03/28/2022	Dean:
Curriculum Committee	03/29/22	Chair: A. Senichoevsky
Faculty		Verified by Registrar:

Refer to the Course Approvals Manual for complete instructions for the submission of proposals.