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Course Overview

Course Title	Modeling & Applications
Course and Section Number	MTH-108-ONL
Number of Credits	3 Semester Credits
Term	22/SUMM
Course/Section Dates	05/23/2022 – 07/23/2023
Meeting Time	Class meets online via Canvas
Instructor	Darla Berks
Doane Email Address	darla.berks@doane.edu
Textbook Information: (e.g. title, edition, publisher, ISBN)	Title: Excursions in Modern Mathematics Author: Peter Tannenbaum ISBN-13: 9780321825735 DIGITAL ISBN-13: 9780321913432 ISBN-10: 032182573X Link to Doane Bookstore: https://www.bkstr.com/doaneuniversitystore/shop/textbooks-and-course-materials
Additional Course Materials	A scientific calculator (with at least a square root key)
Course Description	This is an algebra-based course with an emphasis on practical applications. An examination of real-life models and their applications using algebra as a foundation. Students successfully completing this course will effectively use algebra and technology to analyze models of real-world phenomena;



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effectively read, interpret and analyze problems; and gain quantitative literacy and confidence.

Foundational Area of Knowledge

Mathematical Reasoning

Students will learn basic strategies of mathematical thought in order to analyze complex scenarios, make connections, solve problems, explain conclusions, and think more effectively.

Students will work to

- analyze and model mathematical situations using a variety of techniques to solve problems effectively
- communicate a clear understanding of conclusions
- apply mathematical systems of thinking

Course Learning Outcomes/Objectives

- Develop persistence in solving mathematical problems
- Make connections among ideas and mathematical representations
- Develop reasoning and sense making
- Communicate their thinking
- Apply mathematics to the real world situations

Technology Requirements

For the successful use of Canvas please refer to Doane University's [minimum computer requirements](#). This may also include:

- Reliable computer and internet connection
- A web browser (Chrome or Mozilla Firefox)
- Adobe Acrobat Reader (free)
- Word processing software -Microsoft or Google Docs
- Webcam and mic

Syllabus Addendum

[Addendum](#) includes information regarding:

- Academic Support
- Military Friendliness & Services
- Study Time
- Credit Hour Definition
- Catalog and Policies

Technological Support

If you are in need of technical assistance, please contact the service center at 402-826-8411 or by email at help@doane.edu.

Learning Management System

Canvas: <https://doane.instructure.com>



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**Campus Network or Canvas
Outage**

When access to Canvas is not available for an extended period of time (greater than one entire evening - 6pm till 11pm) you can reasonably expect that the due date for assignments will be changed to the next day (assignment still due by midnight).