Viewing Life Mathematically
M135 ONLINE (SECTION O1) – 3 CREDITS

Semester:
Instructor:
Office Hours (by appointment only):
Office Location:
Phone Number:
Email:

Insert Photo Here

Prerequisite/Co-Requisites: none

Goodwin University works towards an inclusive learning environment where all members of the Goodwin community are treated with respect and dignity. We strive towards universally designed learning environments that are equitable and inclusive. We work to denounce discrimination of any form and maintain a collaborative community with an awareness of global perspectives on social justice.

Course Description

This course provides students fundamental mathematical skills designed for practical application in everyday scenarios. Emphasizing real-world relevance, students will use percentages, decimals, and proportions to address authentic challenges. Additionally, the course delves into basic statistical computations like mean, median, and standard deviation, enabling students to gain insights from data sets. Students will also explore personal finance topics, including interest and investments, and perform calculations for making well-informed financial decisions. By the end of the course, the students will demonstrate the skills necessary to navigate various everyday mathematical situations confidently.

Course Goal

Students will learn a variety of mathematical tools that can be used to solve everyday problems.

REQUIRED LEARNING TOOLS

All required course materials (textbook, learning resources, etc.) for this course are available to you on Canvas and have been financially covered by the course fee. No additional purchases are necessary.

Denley, K. (2023) *Viewing life mathematically: A pathway to Quantitive Literacy*, Hawkes Learning.

Calculator

Texas Instrument's TI-30XIIS which costs $10 - $15. If you already have a TI-83 or TI-84 calculator, you can use it for this course.

Hawkes Respondus Lockdown Browser

Free download once you open your first Exam.

**STUDENT LEARNING OUTCOMES
AND ASSESSMENT METHODS**

By the end of this course students should be able to**:**

Learning Outcomes	Assessment Methods

1. Solve consumer math problems involving percentages, fractions, and decimals	Pre-Certification Certification Quiz Exam	
• Calculate unit conversions across various measurement systems	Pre-Certification Certification Quiz Exam	
• Compute key statistical measures such as the mean, median, and standard deviation of a data set	Pre-Certification Certification Quiz Exam	
• Evaluate the appropriate uses of different types of charts and graphs	Pre-Certification Certification Quiz Exam	
• Determine how interest on savings, investments, and loans inform financial decisions	Pre-Certification Certification Quiz Exam	

Grading Policy

Your performance in this course is assessed using multiple, varied methods in the areas listed below and based on the expectations as described in the syllabus. If you do not understand the expectations, it is your responsibility to ask the instructor questions.

Exams 3 @ 10% each	30%
Quizzes	15%
Discussions	10%
Lessons/Homework/Certification	20%
Cumulative Final Exam	25%
Total:	**100%**

Late Penalty
Only applies to Homework Assignments and Integrated Review Homework. There will be a graduated late penalty when Homework and Integrated Review is completed late**.**

Up to 1 Day Late	2%

Up to 2 Days Late	4%
Up to 3 Days Late	6%
Up to 4 Days Late	8%
Up to 5 Days Late	10%
Up to 6 Days Late	20%
Greater than 6 Days Late	50%

COURSEWORK EXPECTATIONS

Hawkes Learning Software:
Learn: Learn is a multimedia presentation that includes the information you will need to successfully answer each question in your assignment(s). Each lesson includes definitions, rules, properties, and examples, along with instructional videos. **This is the section that goes with the Guided Notebook.**

Practice (Pre-Certify): Practice gives you unlimited opportunities to practice the types of problems you will receive in Certify. In Practice, you have access to learning aids through the Interactive Tutor. Step-By-Step breaks a problem down into smaller steps; Solution offers guided solutions to every problem; and Explain Error gives targeted feedback specific to your mistake.

Certify: This is the credit component of your homework! You will answer your problem set by using your knowledge and the foundation you built in Learn and Practice. You will have the opportunity to try again with no penalty if you do not demonstrate Mastery in your initial attempt(s). Pay close attention to any due dates assigned by your instructor.

ASSESSMENT METHODS
This section of the syllabus contains a listing with brief descriptions of this course's assessment methods. They are designed to align with the student-learning outcomes and provide you with varied ways to demonstrate mastery of the course content. *Additional instructions, course materials and grades are posted to Canvas*. **All work must be completed in HAWKES LEARNING.**

Homework + Integrated Review (20%): Your homework will be done online using Hawkes Learning software. Complete the homework assignments for the sections we completed in class before the next class. **You must complete the homework online on Hawkes Learning and earn at least 80% on the Certify portion of each assignment to receive credit.** If you do not earn above 80% on the Certify portion of any

assignment, you will be directed to practice problems that must be completed correctly before you can reattempt to Certify. Any grade of 80% or higher in Certify will receive full credit.

Discussions (10%)

These discussion questions are reflective in nature and are meant to drive engagement and student-to-student interactions. All the discussion questions will be combined to account for 10% of your final grade. See the discussion question rubric on Canvas for details and grading. The discussion question responses will be submitted via Canvas.

Quizzes (15%): The purpose of the quizzes is to confirm mastery to see what you are learning and where you need more focus. You will complete quizzes that are based on assigned Homework and Integrated Lessons. The quizzes are to be done with formula sheets given if applicable. ***Each quiz must be completed on or before the due dates at 11:59 pm.***

Exams and Cumulative Final Exam (55% total = 3 Exams @ 10% = 30%, 1 Cumulative Final Exam @25% = 25%): The purpose of this assignment is confirming mastery of a unit or body of work spanning multiple topics or concepts. Exams and the Cumulative final exam will assess for mastery of the integration of concepts and real-world applications.

No exams can be retaken and there is no "extra credit." No exam grade is "dropped." You must be prepared and make your best effort on each exam. *You are encouraged to take them early in the week they are assigned because if you do not finish it before the due date, it will not be accepted, and extensions will not be given. Exams are not to be open notes or book.*

Course Outline / Class Schedule M135 15 WEEKS

Module / Date(s)	Topic(s) To be Covered Each Week	Assignments, Quizzes, and Readings to be Completed *on or Before* <mark>Sunday at 11:59 PM</mark> in HAWKES LEARNING (except **Final exam due** *on last Friday of Course at 11:59 pm*)
1	**Whole Number Arithmetic**	• **Discussion 1** – Your Math-135 Goal • **Homework**: 1.R.1, 1.R.2, 1.R.3, 1.R.4 • **Quiz:** Module 1
2	**Fraction and Decimal Arithmetic**	• **Discussion 2** – Your Math Experiences • **Homework**: 4.R.1, 4.R.2, 4.R.3, 4.R.4 • **Quiz:** Module 2
3	**Percents, Proportions, and Ratios**	• **Homework**: 4.1, 4.2, 4.3, 4.4, 4.5 • **Quiz:** Module 3
4	**Unit Conversions**	• **Discussion 3** – Everything is Numbers • **Homework**: 7.4, 7.5 • **Quiz:** Module 4
5	• Whole Number Arithmetic • Fraction and Decimal Arithmetic • Percents, Proportions, and Ratios • Unit Conversion	• **EXAM 1**
6	**Problem Solving Techniques**	• **Discussion 4 –** Positive & Negative Math Experiences • **Homework**: 1.1, 1.2, 1.3 • **Quiz:** Module 6
7	**Problem Solving**	• **Homework**: 5.R.7, 5.1 • **Quiz:** Module 7
8	**Catch-up Week – No class** *This week provides an opportunity for you to integrate upcoming materials, complete projects, and meet with instructors without the pressure of new or additional assignments. There are no written assignments or class sessions.*	
9	**Finance**	• **Discussion 5** – Math in Your Major • **Homework**: 6.1, 6.2, 6.3, 6.5 • **Quiz:** Module 9
10	• Problem Solving Techniques • Problem Solving • Finance	• **EXAM 2**
11	**Probability**	• **Homework**: 10.1, 10.2, 10.3, 10.4 • **Quiz:** Module 11
12	**Graphs in Statistics**	• **Discussion 6** – Applying Math to Real Life • **Homework**: 11.R.1, 11.R.2, 11.2 • **Quiz:** Module 12
13	**Analyzing Data**	• **Homework**: 11.3 • **Quiz:** Module 13
14	• Probability • Graphs in Statistics	• **EXAM 3**

Module / Date(s)	Topic(s) To be Covered Each Week	Assignments, Quizzes, and Readings to be Completed *on or Before* <mark>Sunday at 11:59 PM</mark> *in HAWKES LEARNING (except* <mark>Final exam due on last Friday of Course at 11:59 pm</mark>*)*
	• Analyzing Data	
15	All Topics Covered Weeks 1 – 14	• CUMULATIVE FINAL EXAM **DUE ON FRIDAY (<mark>Fill in Due Date</mark>)**

*This syllabus is subject to change at the discretion of the instructor.

Course Policies

Academic Integrity

Goodwin University values the principles of academic integrity. This means our class expects students to think critically, share their ideas, and be honest about their intellectual efforts. Submission of work for academic credit must be original to this class, and it must be the student's own work. It is the responsibility of each student to become familiar with what constitutes academic dishonesty and to avoid all forms of cheating and plagiarism. If you have questions about the university's Academic Integrity Policy or about what constitutes academic dishonesty, ask your instructor.

Hawkes Learning

Instructions for setting up your Hawkes Learning account are in Canvas. **You must use your Goodwin Email account to setup Hawkes Learning. Please follow instructions**. **If you have any questions or need assistance with setting up your account, please contact your instructor**. At bare minimum you should spend 30-45 minutes per day on Hawkes Learning. **Hawkes is like Canvas therefore it contains an accurate reflection of your current grade at that point in time**.

Canvas

Canvas contains class materials such as login to Hawkes Learning, Hawkes TV, formula sheets, and additional course materials. Be sure to **check Canvas often** to stay up to date on announcements, new course materials, and other valuable information. ***All assignments are completed in Hawkes Learning. Once the instructor has reviewed assignments, they will import grades into Canvas.***

Timely Submission of Assignments

Balancing workload and meeting deadlines are an integral part of all professional careers. ***All work in this course is due by Sunday at 11:59, except for work in the last week***. Assignment due dates are listed in the ***Learning Schedule Outline***. Note them so you can create calendar reminders to ensure assignments are submitted on time.

Any assignments not submitted by the specified due date will result in a grade of "0" (zero) for that assignment, and a grade of "0" will be entered in the

Canvas gradebook. This practice provides you with real-time information on your grade for the course and maintains the integrity of the gradebook. Since due dates are listed in this syllabus, the need for extensions should be extremely rare.

Should you need to **request an extension**, email me Saturday, the week the assignment is due. Write *Request for an Extension* in the subject line of your email and explain to me your plan for completing your work. There is no need to share the reason for your request. ***You will have one week to complete this work.***

Laptops and Computers

Laptops or computers with Google Chrome or Firefox are required for the course.

Office Hours

Your success in my class is my main mission. I invite you to stop in during the office hours posted on the first page of this syllabus. You can also email me to schedule an appointment for another time. My office hours are an extension of class. They provide you with one-on-one time to meet with me to talk about and explore course topics, ask questions about assignments, or get guidance on how to be successful in the course.
.

Course Decorum

We will create a positive learning environment in this course. There is an expectation of respect and professionalism. The professional conduct policy includes, but is not limited to:

1. Abiding by Goodwin's academic integrity policy
2. Actively working on assignments in Hawkes Learning.
3. Planning outside activities to avoid conflicts with the due dates outlined in the syllabus.
4. Demonstrating respect for instructor through appropriate communications (see below)

Communication and E-mail

Please check your Goodwin e-mail account regularly as this is the email address that will be used for all course

communications. Please consult the syllabus before e-mailing with broad questions about assessment-tasks / deliverables, expectations, and course logistics. I will read and respond to e-mails regarding course content or logistics, excluding personal time, sick time, weekends, and holidays. I will not ordinarily respond to e-mails that are sent late at night, over the weekend, or on holidays. I will send course updates and announcements to your Goodwin email through Canvas.

Goodwin University Academic Policies, Resources, and Support Services

This course adheres to all policies outlined in the Goodwin University catalog.

Academic Policies

Goodwin University academic policies may be found in the academic catalogs.

http://www.goodwin.edu/academics/catalogs

Student Affairs

Services, resources, and programs available to support Goodwin University students may be found on Student Affairs webpages.

https://www.goodwin.edu/student-affairs/

Academic Support Services

The Goodwin University Hoffman Family Library webpages is where you can schedule tutoring sessions, access library databases, and find Academic Writer, an APA resource for drafting academic papers.

https://www.goodwin.edu/library/