Viewing Life Mathematically

M135 ONLINE (SECTION XX) – 3 CREDITS

Semester:
Day(s):
Time(s):
Classroom:
Instructor:
Office Hours:
Office Location:
Phone Number:
Email:

INSERT Professional Headshot Here

Prerequisite/Co-Requisites: Placement Evaluation

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

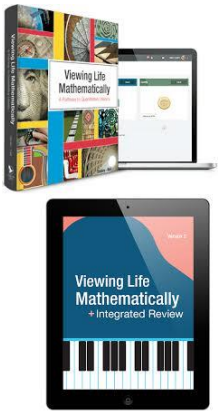
This course is a survey of a wide range of topics that gives students the opportunity to apply mathematics to the solution of everyday problems. Students become proficient at arithmetic, algebra, converting measurements using dimensional analysis, graphing and solving linear equations in two variables, working with formulas, collecting and interpreting data, measures of central tendency, and translating real world situations into math to make decisions. A scientific calculator is required for this course.

Course Goal

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

REQUIRED LEARNING TOOLS

Hawkes Learning Access Code for
Denley, K. & Hall, M. (2015) *Viewing life mathematically: A pathway to Quantitive Literacy*, Hawkes Learning.



- Viewing Life Mathematically Software and EBook. Hawkes Learning.(2015) ISBN: 978-1-941552-99-5.
- Viewing Life Mathematically Software + EBook + Guided Notebook. Hawkes Learning.(2015) ISBN: 978-1-64277-126-8

Calculator

Texas Instrument's TI-30XIIS which costs approximately $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. Apply formulas containing percentages, fractions, and decimals to calculate solutions to consumer mathematics	Pre-Certification Certification Quiz Exam
2. Demonstrate the use of perimeter, area, volume, and surface area to compare rates, pricing comparisons, and project planning	Pre-Certification Certification Quiz Exam
3. Illustrate, label, and solve conversions within the metric and/or household measurement systems using Dimensional Analysis	Pre-Certification Certification Quiz Exam
4. Collect, Display, Describe, and Analyze Data	Pre-Certification Certification Quiz Exam
5. Solve, construct, and interpret graphs of linear equations and exponential growth in two variables	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%
Integrated Review	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 the assessment methods for this course. 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. You must have a full access code by Class 2 to continue in the course.

Homework + Integrated Review (30%): Your homework will be done online using Hawkes Learning software. Complete the homework assignments for the sections that we completed in class before the **next** class. **You must complete the homework online on Hawkes Learning and earn at least an 80% on the Certify portion of each assignment to receive credit.** If you do not earn above an 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.

To earn full credit, be sure to be actively engaged in using Hawkes Software (a)Full Access Code by week 2 of course, (b) logging in for 30-45 minutes daily at minimum, (c) complete Learn and Pre-Certify sections, (d) demonstrate mastery of topic(s) in Certify mode in Hawkes Learning majority of assignments are 80% for mastery , (e) complete assigned quizzes, and (f) use online "Send To Instructor" button for questions in Practice (Pre-Certify) mode.

Integrated Review Homework Assignments
Most chapters have a corresponding integrated review that goes over fundamental math topics for the upcoming content. Students without a strong math background are **strongly encouraged** to purchase and use the corresponding Guided Notebook to help them with the integrate review homework assignments.

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 formulas sheet given if applicable. ***Each quiz must be completed on or before the due dates at 11:59 pm, which are typically every Sunday and Wednesday.***

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. That is cheating and academic fraud. You will need to be able to perform the math in this class as you move through your program at Goodwin, so cheating will only hurt you and potentially waste a lot of your money.*

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 Sunday at 11:59 PM in HAWKES LEARNING (except Final exam due on last Friday of Course at 11:59 pm)*
1 (add dates here)	**Integrated Review:** Introduction to Fractions & Mixed Numbers, Introduction to Decimal Number, US Measurements, and US and Metric Equivalents **Homework:** Rates and Unit Rates; Ratios	• PRETEST • **Integrated Review Homework + Guided Notebook:** 4.R.1 – 4.R.2, 12.R.4, and 12. R.6 • **Certification (Mastery) – Homework:** 4.1 – 4.2 • **Quiz:** 4.1 – 4.2
2 (add dates here)	**Integrated Review:** Decimals & Percents, Fractions & Percents, and Solving Percent Problems Using Proportions **Homework:** Proportions & Percentages, and Using Percentages	• **Integrated Review Homework + Guided Notebook:** 4.R.3 – 4.R.5 • **Certification (Mastery)-Homework:** 4.3 – 4.4 • **Quiz:** 4.3 – 4.4
3 (add dates here)	**Integrated Review:** The Cartesian Coordinate System, Exponents & Order of Operations, Translating English Phrases and Algebraic Expressions, and Solving Linear Equations: ax + b = c **Homework:** The Language of Linear Growth	• **Integrated Review Homework + Guided Notebook:** 5.R.1, 1.R.3, 1.R.5, and 1.R.6 • **Certification (Mastery)-Homework:** 5.1 • **Quiz:** 5.1
4 (add dates here)	**Integrated Review:** Graphing Linear Equations in Two Variables **Homework:** Linear Growth	• **Integrated Review Homework + Guided Notebook:** 5.R.2 • **Certification (Mastery)-Homework:** 5.2 • **Quiz:** 5.2
5 (add dates here)	**Integrated Review:** Rules for Exponents **Homework:** Exponential Growth	• **Integrated Review Homework + Guided Notebook:** 5.R.3 • **Certification (Mastery)-Homework:** 5.4 • **Quiz:** 5.4
6 (add dates here)	Rates & Unit Rates; Ratios, Proportions & Percentages; Using Percentages; The Language of Linear Growth; Linear Growth; and Exponential Growth	• **EXAM 1 – 4.1 – 4.3, 5.1 – 5.2, and 5.4**
7 (add dates here)	**Integrated Review:** Angles & Triangles, Square Roots & Pythagorean Theorem, and Simplifying Algebraic Expressions **Homework:** Angles, Circles & Polygons	• **Integrated Review Homework + Guided Notebook:** 11.R.3, and 6.R.2 – 6.R.3 • **Certification (Mastery)-Homework:** 6.1 • **Quiz:** 6.1
8 (add dates here)	**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 (add dates here)	**Integrated Review:** Evaluating Algebraic Expressions, Working with Formulas, and The Metric System: Length & Area **Homework:** Perimeter & Area; Volume & Surface Area	• **Integrated Review Homework + Guided Notebook:** 6.R.4 – 6.R.5, and 12.R.5 • **Certification (Mastery)-Homework:** 6.2 – 6.3 • **Quiz:** 6.2 – 6.3

Module / Date(s)	Topic(s) To be Covered Each Week	Assignments, Quizzes, and Readings to be Completed *on or Before Sunday at 11:59 PM in HAWKES LEARNING (except Final exam due on last Friday of Course at 11:59 pm)*
10 (add dates here)	Angles; Circles & Polygons; Perimeter & Area; and Volume and Surface Area	• **EXAM 2: 6.1 – 6.3**
11 (add dates here)	**Integrated Review:** Decimals and Percent's **Homework:** Collecting Data	• **Integrated Review Homework + Guided Notebook:** 8.R.1 • **Certification (Mastery)-Homework:** 8.1 • **Quiz:** 8.1
12 (add dates here)	**Integrated Review:** Working with formulas, The Cartesian Coordinate System, and Graphing Linear Equations in Two Variables **Homework:** Displaying Data	• **Integrated Review Homework + Guided Notebook:** 8.R.3, 8.R.4, 8.R.5 • **Certification (Mastery)-Homework:** 8.2 • **Quiz:** 8.2
13 (add dates here)	**Integrated Review:** Slope-Intercept form and Evaluating Radicals **Homework:** Describing and Analyzing Data	• **Integrated Review Homework + Guided Notebook:** 8.R.6 and 8.R.7 • **Certification (Mastery)-Homework:** 8.3 • **Quiz:** 8.3
14 (add dates here)		**EXAM 3: 8.1-8.3**
15 (add dates here)	All Topics Covered Weeks 1 – 14	• CUMULATIVE FINAL EXAM **DUE ON FRIDAY**

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

CLASS POLICIES

Academic Integrity

Goodwin University values the principles of academic integrity. This means that our class expects students to think critically, to share original ideas, and to be honest with respect to their intellectual efforts. Submission of work for academic credit must be original to this class, and it must be the student's own work. Goodwin University courses document sources in accordance with APA 7th ed. 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 is 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 via Goodwin Email Only**. At bare minimum you should spend 30-45 minutes per day in 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 important information. ***All assignments are completed in Hawkes Learning. Once instructor has reviewed assignments, they will import grades into Canvas.***

Timely Submission of Assignments: Balancing workload and meeting deadlines are an integral of the university experience and professional careers. ***All work in this course is due by [TBD day of week] at 11:59 pm, except for work in the last week of the semester or mod***. Assignment due dates are listed in the Teaching and Learning Outline and syllabus, so be sure to make note of them and create a schedule of 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 gradebook. This practice provides you with real-time information on your grade for the course and maintains the integrity of the gradebook. Because due dates are listed in this syllabus, the need for extensions should be extremely rare. Should you have a need to request an extension, email me ***by [TBD day of week] at 11:59 pm*** 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 XX [TBD] to complete this work. In addition, please note that [X] extension[s] [is/are] possible in this course.***

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 below or email me for appointments at other times. 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.
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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: Students are expected to communicate in a professional manner (i.e., verbal, written, and electronic).Remember to use your Goodwin Email account for all course

communications I will send course updates and announcements through Canvas so please ***check your Goodwin e-mail account regularly***.

Goodwin University Policies and Services

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

General academic policies of Goodwin University may be found on the University web site at and in the University catalog at http://www.goodwin.edu/academics/catalogs.asp.

Student services information may be found on the Goodwin University website at https://www.goodwin.edu/student-affairs/ and http://www.goodwin.edu/library/.