



Course Syllabus

MATH 105 - College Mathematics/Applications

The session begins on the 1st day of the enrollment month and ends on the last day of the 6th month.

Instructor Information

Instructor Name: Jeremiah Yoder

UIU Faculty Email: yoderj@uiu.edu

Office Location: Online

Availability: Emails will be responded to as quickly as possible. Any virtual meetings will be set up by appointment.

Course Description

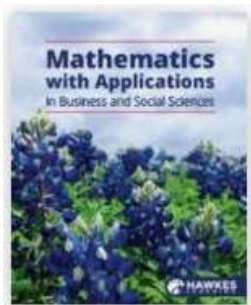
Semester Credits: 3

Catalog Course Description: Analysis of various mathematical applications of functions. This will include the fundamental concepts of algebra with respect to personal finance; algebraic equations and inequalities; functions and graphs; zeros of polynomial functions; exponential and logarithmic functions; systems of equations and inequalities. You will be able to create your own function using real world ideas that are of interest to you. Meets the quantitative reasoning requirement in The Peacock Professional Experience ("general education").

Prerequisites: Achieve an ALEKS placement score of 30 or greater, or pass MATH 101 or transfer course equivalent, or achieve an ACT Math score of 19 or greater, or an SAT Math score of 510 or greater.

Credit Hour Policy: As a requirement of HLC Accreditation, all UIU courses, regardless of meeting schedule or instructional mode, follow the Federal Credit Hour Definition. As such, each credit hour earned at UIU is equivalent to a minimum of 45 hours of student engagement.

For more information on how specific instructional modes meet this requirement, please see UIU's Policy Guidelines for Instructional Time Expectations: [UIU Policies](#).



REQUIRED TEXT AND ACCESS INFO

Mathematics with Applications in Business and Social Sciences (with Access), Hawkes Learning Systems

Format: Courseware (Software)

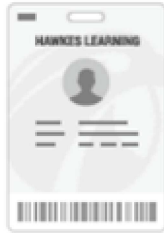
Note: Access code included and e-book is included within the courseware.

Hawkes Learning Access Code

When you first login to Hawkes Learning system you will be required to register for an account.

- If you have already purchased an access code or license number, you may enter that information prior to registering your account. Make sure the “I have an Access Code or License Number” box is selected and hit continue. You will then enter your access code or License number and select validate.

Please choose an option:


I have an Access Code or License Number


I want to Purchase Access

Continue

or

[Request Temporary Access](#)

- If you are waiting to receive your access code or license number you may request temporary access for 10 days. If you do not enter an access code or license number within 10 days, you will be locked out of your account.

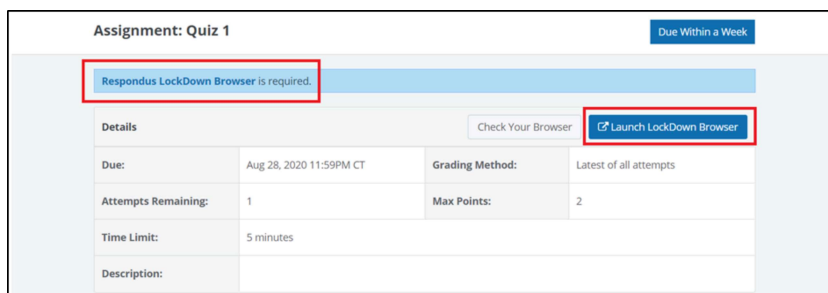
If you have any questions about your Hawkes Learning account, please contact Hawkes Technical Support Monday–Friday, 8:00am–10:00pm ET via phone (1-800-426-9538) or 24/7 via [LiveChat](#) (<http://chat.hawkeslearning.com>).

Respondus LockDown Browser

You will need to download and install the program, Respondus LockDown Browser to take the Chapter Tests and the Final Exam. This can be downloaded directly from Hawkes prior to taking the first test.

In order to use Respondus LockDown Browser you will need to have access to a reliable up-to-date Windows (10,

8 or 7) or Mac (macOS 10.12 to 10.15) operating system and a reliable internet connection.



The screenshot shows a quiz interface for "Assignment: Quiz 1". At the top right, it says "Due Within a Week". A blue banner at the top states "Respondus LockDown Browser is required." Below this, there are two buttons: "Check Your Browser" and "Launch LockDown Browser". The "Launch LockDown Browser" button is highlighted with a red box. Below the buttons is a table with quiz details.

Details			
Due:	Aug 28, 2020 11:59PM CT	Grading Method:	Latest of all attempts
Attempts Remaining:	1	Max Points:	2
Time Limit:	5 minutes		
Description:			

Recommended Resources

A scientific calculator can be used. An online calculator (such as Desmos scientific calculator) will not be allowed for tests or quizzes, and it is recommended that you familiarize yourself with a handheld calculator or the calculator in Respondus. A notebook for organizing your work and the ability to make copies of the work.

Prohibited Resources and Services

The use or attempted use of unauthorized services, materials, information or study aids in any academic exercise unless specifically authorized by the course instructor is strictly prohibited. Any violations of this policy will be prosecuted under the fullest extent of the UIU Academic Misconduct Policy and may result in expulsion from the university.

Course Outcomes

- Students will be able to apply mathematical concepts and terminology to analyze numerical data, interpret results, compare options, propose solutions and make effective decisions in situations requiring quantitative thinking skills.
- Students will be able to utilize logic, reasoning, critical thinking skills and problems solving strategies in the fields of mathematics, sciences, social

sciences and business.

- Students will be able to develop a mathematical model using a linear equation in either point-slope form or slope-intercept form.
- Students will be able to solve and evaluate application problems involving graphs, linear equations, linear inequalities and systems of linear equations.
- Students will be able to understand functional notation, and identify, compare, and contrast linear, quadratic, cubic, square root, and absolute value functions and their graphs.
- Students will be able to apply the properties of exponential and logarithmic functions to solve equations and their related application problems.
- Students will be able to compare and contrast exponential, logarithmic, and polynomial functions and use their properties to develop appropriate mathematical models.
- Students will be able to solve problems involving simple interest, compound interest, annuities, and amortizations of loans.
- General Education Outcome: Students will be able to apply mathematical concepts and skills to solve problems and communicate solutions.

General Education Assessment

Upper Iowa University is committed to ensuring that all undergraduate students participating in its general education program receive a broad education, while gaining essential professional skills across multiple disciplines. The Peacock Professional Experience provides nine learning outcomes, each of which articulates a specific skill students should gain, and are supported by knowledge provided by the courses students choose to take within the guidelines of the program. The outcome assessed in this course is the last outcome listed under Course Outcomes.

Course Requirements and Grading Criteria

Course Requirements

This course is comprised of 8 Units. It will consist of a Short Paper, 7 Unit Quizzes, 6 Unit Homework Assignments, 6 Chapter Tests and a Final Exam.

Learning Activities on uiuLearn

Student Introduction

Student Introduction is the first assignment in Unit 1. It is worth 10 points.

Since we may never have the opportunity to meet face to face, I would like to know a little bit about you. Please introduce yourselves to me.

Weekly Quizzes (uiuLearn)

There will be 7 Unit Quizzes. Each is worth 10 points.

General Education Task Assignment – Short Paper (uiuLearn)

A Short Paper is due in Unit 7. Please see the rubric in the content portion of uiuLearn.

Learning Activities on Hawkes Learning

Homework Assignments (Hawkes Learning)

Homework assignment are in Hawkes learning. All work must be organized and labeled with the number of problem and uploaded in the appropriate week homework folder.

Chapter Tests (Hawkes Learning)

Test will be taken in Hawkes Learning, be timed and you will have to download the Respondus program to lock down your browser.

Prior to taking your first Chapter Test, you will need to download and install the program, Respondus LockDown Browser, which can be downloaded directly from Hawkes. Instruction is provided in the course under General Course Content folder.

Final Comprehensive Examination (Hawkes Learning)

There will be a timed final comprehensive examination. The problems will cover material from all lessons studied during the course. The final exam will be administered through the Hawkes Learning System and will require the program, Respondus LockDown Browser.

Important Notes on Show Work Folders (Quizzes, Chapter Tests & Final Exam)

You must upload the handwritten work for the Quizzes, Chapter Tests & Final Exam in the Show Your Work folders in the course in uiuLearn.

It is crucial to make sure that the handwritten work or scanned file is legible prior to uploading the work. A handwritten work that cannot be read will not be graded.

If you do not have access to a scanner, you can use an application called CamScanner that works well with a smartphone or tablet.

Course Policies

Respect and honesty. All assignments will be turned in and completed by the individual student.

Grading Criteria

Note: Gradebook information can be found in your uiuLearn course, under the Grades tab. Be aware that the Hawkes gradebook does not reflect your grade.

The course letter grade will be based on the following grading criteria:

Activity	Percentage
Student Introduction	1
Unit Homework Assignments (Hawkes Learning) x 31	20
Unit Quizzes (uiuLearn) x 6 x 10 points each	10
Unit Chapter Tests (Hawkes Learning & Respondus) x 6	40
General Education Task Assignment (uiuLearn) (Short Paper)	6
Final Comprehensive Examination (Hawkes Learning & Respondus)	23
Total	100

Grading Scale

This course will use the following scale:

Letter Grade	Percent
A	93-100%
A-(minus)	90-92%
B+	87-89%
B	83-86%
B-(minus)	80-82%
C+	77-79%
C	73-76%
C-(minus)	70-72%
D+	67-69%
D	63-66%
D-(minus)	60-62%
F	0-59%

Grades and Feedback

All graded work available must be posted in the uiuLearn Gradebook by Sunday at 11:59pm (CT) one week prior to the course drop date, as well as posted by Sunday at 11:59 pm prior to the final week.

Turnitin

Turnitin is a tool for both teachers and students to ensure academic integrity by checking the originality of submitted papers to avoid issues of plagiarism and academic dishonesty.

Students should be aware that Turnitin scans submitted work and compares it to ALL other sources on file.

Extension Policy

Students will be allowed to request an extension and receive an 'X' (extension grade) at the end of their original six-month enrollment period if:

- A minimum of one assignment has been received for grading per guidelines AND
- All course units and exams are not completed and submitted OR
- A course withdrawal has not been initiated.

Note: The fee for a self-paced extension is \$99 per course. The request for an extension must be submitted no earlier than one month before the end of the course and no later than a week before the end of the course.

Extension grade details

- When the extension is granted and an “X” grade is issued, the student will receive a four-month enrollment period to complete the course.
- Students do not have the option to withdraw from a course after the initial six-month enrollment period.
- An ‘X’ grade posted to the student’s official record will be replaced with a final letter grade; however, the extension will remain on the official transcript as a notation.
- If the course is not completed by the end of the extension period, the instructor will assign a final grade (A-F) based on work completed in relation to the total course requirements.
- If credit is not earned by the end of the extension period, students can re-enroll and repeat the entire course for credit.

Note: Students are not reported as enrolled during the extension period and are not eligible for student loan deferment. No more than one extension will be granted.

Course Schedule

Course Schedule - Activities and Assessments

Note: The Learn, Practice & Certify sections are on Hawkes Learning. Student Introduction, Show Work Folders, Quizzes, and the Short Paper are on uiuLearn.

Units	Topics	Activities	Assessments
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Unit 1	Chapter 0 Fundamental Concepts of Algebra	Student introductions and Desmos calculator (uiuLearn) Read the Learn Section Work the Practice Problems Complete the Certify Homework	Unit Quiz (uiuLearn) Certify Homework Chapter 0 Test (Hawkes) Show work in the Quiz & Test folders.
Unit 2	Chapter 1: Linear Equations in Two Variables	Read Chapter 1 in Learn Section Work the Practice Problems Complete Chapter 1 Certify Homework	Unit Quiz (uiuLearn) Chapter 1 Test (Hawkes) Certify Homework Show work in the Quiz & Test folders.
Unit 3	Chapter 2: Equations and Inequalities in One Variable	Read Chapter 2 in Learn Section Work the Practice Problems Complete Chapter 2 Certify Homework	Unit Quiz (uiuLearn) Certify Homework Chapter 2 Test (Hawkes) Show work in the Quiz & Test folders.
Unit 4	Chapter 3: Functions and Their Graphs	Read Chapter 3 in Learn Section Work the Practice Problems Complete Chapter 3 Certify Homework	Unit Quiz (uiuLearn) Certify Homework Chapter 3 Test (Hawkes) Show work in the Quiz & Test folders.

Unit 5	Chapter 4: Exponential and Logarithmic Functions	Read Chapter 4 in Learn Section Work the Practice Problems Complete Chapter 4 Certify Homework	Unit Quiz (uiuLearn) Certify Homework Chapter 4 Test (Hawkes) Show work in the Quiz & Test folders.
Unit 6	Chapter 5: Mathematics of Finance	Read Chapter 5 in Learn Section Work the Practice Problems Complete Chapter 5 Certify Homework	Unit Quiz (uiuLearn) Certify Homework Chapter 5 Test (Hawkes) Show work in the Quiz & Test folders.
Unit 7	Making Connections	Short Paper Assignment: Making Connections to what was studied and real life	Unit Quiz (uiuLearn) Short Paper (uiuLearn) Show work in the Quiz folders.
Unit 8	Chapter 6.1: Systems of Linear Equations Final Activities and Assessments	Read Chapter 6.1 in Learn Section Work the Practice Problems (Hawkes) Study for the final. Complete the final practice. (optional)	Certify Homework

Course Expectations

Email

Upper Iowa University employees and students are issued a UIU email account (doej@uiu.edu). University email communications will only be sent to UIU email address. Faculty and staff are not obligated to respond to students using non-UIU email accounts.

Technology Requirements

Computer and Internet: Students and faculty should have access to reliable up-to-date computers, updated virus protection, and Internet connection to access course materials and complete course activities.

Professional Writing and Speaking Guidelines

Communications in class and online should follow the Student Conduct and Discipline, Respect for the University Environment, and Code of Student Responsibility in the [Student Handbook](#). Respect the opinions of others using appropriate language and communications.

University Policies

Withdrawal (W)

If a student decides to withdraw from a course before the end of an enrollment period, the student's charges, financial aid, tuition assistance, and/or veteran benefits could be affected. All students should consult with the Business Office and Financial Aid Office to understand the financial impact of withdrawing prior to initiating the withdrawal process.

Students who have registered for this course through our partnership are required to follow the withdrawal policy outlined on the partnership website. Please refer to the partnership site for official withdrawal procedures and deadlines.

Tuition adjustments are independent from academic and financial aid deadlines. Upon receiving a request for withdrawal, using the number of lessons submitted as compared to the total due, a refund of tuition is made according to the following guideline.

On or before the first day of the enrollment period* 100%

After the first lesson through 10% of the enrollment period 90%

After the first 10% through the first 25% of the enrollment period 50%

After the first 25% of the enrollment period 0%

*Enrollment is measured by the number of assignments to be submitted during a six-month period of time, as determined by the University, during which semester credits are earned toward graduation. The refund/repayments shall be calculated using the percentages noted above as determined using the number of assignments completed and the number of assignments yet to be submitted.

For example, if a student submitted 2 of 17 assignments, they completed 11.76% of the class assignments. The student would be refunded 50% of the tuition cost.

For students from Wisconsin, Maryland, Georgia, Oregon, or Arizona, state laws apply. For students enrolled through the cpacredits.com program, no refund is allowed after the first two weeks.

Students who withdraw from a course prior to submitting the first assignment, or who are administratively withdrawn for non-submission of assignments, will be charged an administrative fee of \$99.

Course withdrawal may impact financial aid eligibility. A financial aid counselor is available to discuss this decision.

Upper Iowa University is required to use a pro-rata schedule to determine the amount of Title IV aid the student has earned at the time of withdrawal. If financial aid funds have been released to the student because of a credit balance on the student's account at Upper Iowa University, the student may be required to repay some or all of the amount released to the student. This policy is subject to federal regulations. Contact the Financial Aid Office for details.

Withdrawing from a course in progress may result in significant student account charges. Consult with the Business Office before withdrawing. For more information on financial aid implications, go to uiu.edu/financialaid.

Administrative Withdrawal (AW)

A grade of AW (administrative withdrawal) is recorded for any course from which a student is administratively withdrawn. **At least one complete assignment/unit must be received and verified by the instructor within the first 60 days of the enrollment period or the student will be administratively withdrawn from the course.** Students who are administratively withdrawn for non-submission of assignments, will be charged an administrative fee of \$99. Non-Attendance (NA): Never attended grades are not applicable to the Self-Paced Degree Program.

Academic Accommodations

It is the policy of Upper Iowa University to ensure equal access to educational and co-curricular activities to students with disabilities as mandated by the Americans with Disabilities Act Amendments Act (ADAAA) and Section 504 of the Rehabilitation Act of 1973. A student seeking accommodations should contact the Director of Student Accessibility Services as early in the session as possible. In order to receive accommodations, students are required to disclose their disability to the Director by completing an application for services that can be found on the Student Accessibility Webpage. In addition to the application packet, the student is required to submit supporting documentation. Submit these to the Student Accessibility Services Office either in person or by email/Fax. A brief interview, in-person, by phone or virtually, with the Director will confirm or deny the accommodations requested. The Student Accessibility Services Office will email accommodation letters to the appropriate professor, the student, and the student's advisor. Additionally, students should work cooperatively with their instructors throughout the session to make sure that their accommodations are appropriate and effective.

Upper Iowa University (UIU) provides closed captioning/transcriptions in acknowledgment of the Americans Disability Act, Rehabilitation Act, and various state laws. The information displayed is computer generated and not reviewed before being published. UIU makes no representations or warranties and expressly disclaims any responsibility or liability with respect to any errors or omissions in, or

the accuracy, reliability, timeliness, or completeness of, any information that appears in a closed caption or transcript.

Contact the Director at (563) 425-5949, accessibility@uii.edu or stop by the office on the 2nd floor of the Student Center, Office of Student Life, Room 229.

Emergency Directives: (Fire, Natural Disaster, Threat on campus, etc.)

In accordance with Upper Iowa University's emergency management plan, any student that requires assistance in the event of an emergency (Fire, natural disaster, threat on campus) is responsible for notifying their instructor of the need for assistance. (Evacuation, and/or indoor safety protocols) This information will be held confidential and only needed in the unlikely event that there is an emergency.