

Math 110: College Algebra

Fall 2025 – Section 2

Class meeting: M, W, F: 12 - 12:50 PM at SCB 304

Instructor: Dr. Tuan Pham

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Office: SCB 316, telephone: 808-675-3044

Office hours: M, F 2:00 - 3:30 PM or by appointment

Canvas: <https://byuh.instructure.com/courses/1482037>

Course website: <https://web.engr.oregonstate.edu/~phamt3/Courses/F25-Math-110>

Prerequisite: intermediate algebra background.

Credit hours: This 3-credit hour course approximates one hour of classroom or direct faculty instruction and a minimum of two hours of out-of-class student work each week for approximately 14 weeks.

Textbook: “*Precalculus: Mathematics for Calculus*”, 7th Edition by Stewart, Redlin and Watson. Cengage’s WebAssign access is required. You can sign up through Canvas.

This class will be participating in Inclusive Access this semester. “Inclusive Access” is the course content solution that is giving you access to the eBook and/or course materials on the first day of school at a lower price. To access the eBook and/or course materials, go to Canvas, click on VitalSource Bookshelf. From there you are able to access the eBook and/or coursework. If you have already purchased your book and don’t need access to the eBook and/or coursework, please be sure to opt out. The deadline to opt-out and avoid your student account being charged is 14 days after the first day of school, after which refunds will not be provided. This charge will be listed on your student account as a “digital fee” with the course name. The price of your course materials will sent to you directly in a separate email. If you have any questions or concerns, regarding Inclusive Access, please contact the textbook manager at textbooks@byuh.edu.

Course description: You will explore fundamental algebraic concepts, including functions, graphs, equations, inequalities, polynomials, exponential and logarithmic functions, and matrix operations.

Learning Outcomes: Upon successful completion of this class, a student will be able to:

1. Solve various types of equations and inequalities, and apply these techniques to real-world problems;
2. Analyze and interpret functions and their graphs, including the relationship between domain, range, and function behavior;
3. Understand and work with polynomial and rational functions, including their properties, graphs, and applications;
4. Master the concepts and applications of exponential and logarithmic functions, and use them to solve problems in various contexts;
5. Solve systems of equations using different methods, such as substitution, elimination, and matrices;
6. Perform matrix operations, including addition, subtraction, multiplication, and finding determinants, and apply these techniques to real-world problems.

Course goals: The course goal is to help students achieve the following learning outcomes. The table below indicates which outcomes will be addressed in Math 110.

Math Program L.O.	Emphasis in course	Notes
Demonstrates proficiency in Algebra and Trigonometry necessary for success in Advanced mathematical studies.	High	This is the main course that provides the prerequisite Algebra background for calculus.
Apply major definitions, theorems and algorithms in problem solving.	High	Most of the course consists of learning and then applying algorithms to solve problems.
Use appropriate technological tools while solving mathematical problems.	Medium	WebAssign, Canvas and calculator use are examples of technology that will be used.
Communicate mathematical ideas effectively in both written and oral context.	Low	Answers to math problems are a form of communication.
Other Mathematics Program L.O.'s are NOT relevant	Minimal	These are mainly for math majors that are further along.

Institutional L.O. (GE)	Emphasis in course	Notes
Analysis	High	Mathematics courses are typically exceptional at helping students to learn analytical and problem-solving skills.
Knowledge	Low	This course should be mostly review, but students will probably learn a few new things.
Communication	Low	Answers to math problems are a form of communication.
Inquiry	Low	
Stewardship	Minimal	
Service	Minimal	

Grading components:

Homework: 30%

Attendance: 10%

In-class quizzes: 15%

Midterm 1 and 2: 15% each

Final exam: 15%

There will be opportunities for extra credit during the course.

Evaluation:

- **Homework:** all homework assignments are given and automatically graded through WebAssign. They are to be finished by the posted dates on WebAssign.
- **Attendance:** after the Add deadline, the instructor will check attendance every day of class.
- **In-class quizzes:** quizzes will be given in class each Friday. These quizzes are to test students' understanding of recent topics.

- **Exams:** there will be two midterm exams and one final exam. Each exam will be done in class through WebAssign. You must bring a laptop. See the class schedule for the dates of those exams. Links to access each exam can be found on the home page of the course on Canvas.

Use of Artificial Intelligence (AI): in this course, the use of AI tools for learning is permitted. It is a good practice that you ask AI for the general procedure to solve a problem, for example: “How do I factor a polynomial?” In most cases, it is a bad practice to have AI solve a homework problem for you before you have spent an intensive effort. You must not have AI solve the entire homework set for you. Such a practice is considered as cheating and you may receive a score of zero. Keep in mind that you are not allowed to use AI in any proctored test (in-class quizzes and exams).

Make-up work and due-date extension: make-up exams will be given only in exceptional circumstances, with appropriate documentation, such as illness or family emergency. If possible, notify the professor as soon as you are aware of the issue. Extension of due dates for assignments may be considered under similar conditions.

Grade lines: the course grade lines will not be harder than the standard grade lines: A 100-93%, A- 92.99-90%, B+ 89.99-87%, B 86.99-83%, B- 82.99-80%, C+ 79.99 - 77%, C 76.99-73%, C- 72.99-70%, D+ 69.99-67%, D 66.99-63%, D- 62.99 - 60% and F < 60%.

Other Learning Resources:

- The instructor has office hours dedicated to help you. Don't hesitate to make an appointment if the office hours conflict with your schedule.
- Your fellow classmates are also a good resource. Form a study group and you will find it helpful.
- You can find peer tutors at the Math Lab, located in SCB 302. Online tutoring is also available. Check out their hours here: <https://mc.byuh.edu/math-lab>.

Student Academic Grievance policy:

Students, who feel that their work has been unfairly or inadequately evaluated by an instructor, are encouraged to pursue the matter as an Academic Grievance by following the steps found in the Academic Grievance policy at <https://catalog.byuh.edu/policies-procedures/grievances>.

Final Exam Schedules: Final exams are to be offered on the specific day and time as determined by the official final exam schedule. Students must plan travel, family visits, etc., in a way that will not interfere with their final exams. Less expensive air fares, more convenient travel arrangements, family events or activities, and any other non-emergency reasons are not considered justification for early or late final exams.

Honor Code: The Honor Code exists to provide an education in an atmosphere consistent with the ideals and principles of the Church of Jesus Christ of Latter-day Saints. Students, faculty and staff are expected to maintain the highest standards of honor, integrity, morality, and consideration of others in personal behavior. Academic honesty and dress and grooming standards are to be maintained at all times on and off campus. For specific information see <http://honorcode.byuh.edu>.

Discrimination: The University is committed to a policy of nondiscrimination on the basis of race, color, sex, pregnancy, religion, national origin, age, disability, genetic information or veteran status in admissions, employment or in any of its educational programs or activities. For specific information

see the non-discrimination policy at <https://policies.byuh.edu>.

Title IX and Sexual Misconduct: The University will not tolerate any actions proscribed under Title IX legislation, specifically sexual harassment, sexual violence, domestic or dating violence or stalking perpetrated by or against any university students, university employees or participants in university programs. For specific information see <https://titleix.byuh.edu>. All faculty and staff are deemed responsible reporting parties and as such mandated to report incidents of sexual misconduct including sexual assault to the Title IX.

Title IX Office
Lorenzo Snow Administrative Building
55-220 Kulanui St.
Laie, HI 96762
Office Phone: (808) 675-4585
E-Mail: titleix@byuh.edu

Accommodating Students with Disabilities: Disability Services is dedicated to assisting students with disabilities by providing opportunities for success and equal access at Brigham Young University-Hawaii. We are committed to coordinating reasonable accommodations as outlined by Federal and State law. To learn more about available supports, go to <https://disability.byuh.edu>, call (808) 675-3518 or go to McKay Building 181 across from the Cafeteria. You may also email disabilityservices@byuh.edu with questions. For Canvas Accessibility Issues, please fill out this online form https://titanium.byuh.edu/Titanium_Disability_Intake.

Mental Health Resources: As a college student, there may be times when personal stressors interfere with your academic performance and/or negatively impact your daily life. If you or someone you know is experiencing mental health challenges at BYUH, please contact Counseling Services at (808) 675-3518. Services are free and confidential. For more information, visit <https://counseling.byuh.edu/>. Free mental health self-help resources are available through TAO Connect. To access them, simply go to <https://us.taoconnect.org/register> and sign in using your BYUH email address. In a crisis situation, or after hours, please contact BYUH Campus Safety at (808) 675-3911 or call 911 if you are off campus. You can also call the 24-hour crisis hotline at 1-800-753-6879 or contact the Crisis Text Line at 741-741.

Report a Concern: If you have a concern to report go to <http://about.byuh.edu/reportaconcern>. If you have reason to believe a student or dependent of a student is a danger to self or others please do one of the following depending on the urgency of the situation:

- a. Call 911,
- b. Call BYU-H Public Safety (675-3911),
- c. Report a concern to the Behavior Intervention Team.