

Course Title and Number: Math 155 Trigonometry and Elementary Functions

Department: Mathematical Sciences

Semester Hours: 3

Course Description and Objectives: This pre-calculus course deals with the two main subjects which are needed to successfully prepare not only for the calculus sequence but also for the courses in other disciplines.

- 1) The exponential and logarithmic functions and their applications.
- 2) The trigonometric functions and their applications.

These functions are defined and their properties are carefully studied. In this course, students should learn to perform algebraic and trigonometric calculations quickly and accurately. Students will also learn how these functions are applied in practical real world problems. Additionally, some topics in polar coordinates are studied as well.

If you are taking this course as a prerequisite for Math 229 or to satisfy the University's core competency requirement in Mathematics you must earn a grade of C or better.

Prerequisites: Math 110 (with at least a C) or satisfactory performance on the Mathematics Placement Test.

Course Design: Class meets once a week for fifty minutes at the schedule time. Students are required to spend a minimum of three flexible hours each week in the NIU Math Lab in Graham Hall 235.

Text: Algebra & Trigonometry Guided Notebook by Trigsted; 3rd edition (Pearson, 2015). **NOTE:** you must have an access code for MyMathLab and you must register for MyMathLab by February 4th.

Calculator: A scientific, non-graphing, non-texting calculator is permitted and recommended for the Final Exam only. All other calculators are not allowed. It is the student's responsibility to supply an appropriate calculator. The TI-30XIIS (solar) or the TI-30XIIB (battery) is preferred. Calculators with symbolic notation or natural display capabilities, such as the TI-36XPro and any of the TI Multiview series, Casio Natural Display series or ClassWiz series, HP SmartCalc series and Sharp WriteView series are NOT allowed. Calculators are not allowed to be used in the Math Lab. The scientific calculator will be available on the computer and on MyMathLab.

Academic Misconduct: Academic honesty and mutual respect (student with student and instructor with student) are expected in this course. Mutual respect means being on time for class and not leaving early, being prepared to give full attention to class work, not reading newspapers or other material in class, not using cell phones, pagers or laptops during class time, and not looking at another student's work during exams or quizzes. The use of third party websites to complete work is academic misconduct. Academic misconduct, as defined by the Student Code of Conduct, will not be treated lightly.

Accessibility Statement: If you need an accommodation for this class, please contact the Disability Resource Center as soon as possible. The DRC coordinates accommodations for students with disabilities. It is located on the 4th floor of the Health Services Building, and can be reached at 815-753-1303 (V) or drc@niu.edu. Also, please contact me privately as soon as possible so we can discuss your accommodations. The sooner you let us know your needs, the sooner we can assist you in achieving your learning goals in this course.

Preferred Gender Pronoun Statement: This course affirms people of all gender expressions and gender identities. If you prefer to be called a different name than what is on the class roster, please let me know. Please also inform me and feel free to correct me and your classmates on your preferred gender pronouns. If you have any questions or concerns, please do not hesitate to speak with me in person, or email me. The Gender and Sexuality Resource Center also has a webpage designed to help support people of all genders as they navigate NIU's system: <http://niu.edu/gsrc/audience/trans.shtml>.

Student Sexual Misconduct Policy: Title IX prohibits sex discrimination to include sexual misconduct: harassment, domestic and dating violence, sexual assault, and stalking. If you or someone you know has been harassed or assaulted, you can receive confidential support and advocacy at the Counseling & Consultation Service's Advocacy Services, which can be contacted at 815-753-1206, or in Campus Life Building – room 200. Alleged violations can be reported non-confidentially to the Affirmative Action & Equity Compliance Office in Lowden Hall – room 101, at 815-753-1118, or online at <http://www.niu.edu/sexualmisconduct/help/form.shtml>. Reports to law enforcement can be made to NIU Police & Public Safety at 815-753-1212. For an emergency, call 911. For more information about Sexual Misconduct Prevention & Resources, visit <http://niu.edu/sexualmisconduct/index.shtml>. Note: As an instructor, one of my responsibilities is to help create a safe learning environment on our campus. I also have a mandatory reporting responsibility related to my role as an instructor and a faculty advisor to a student organization. I am required to share information regarding sexual misconduct or information about a crime that may have occurred on NIU's campus with the University. Students may speak to someone confidentially by contacting Counseling & Consultation Service's Advocacy Services at 815 – 753 – 1206, or in Campus life Building – room 200.