

MAT 3002 Advanced Algebra/Trigonometry 2 (Directed Study)

Spring 2024

Ms. Jessica Edrington

SCHEDULE: Weekly meetings on Mondays at 3pm and as needed

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Office Hours:

Mondays: 10am – 11:45am; 2pm – 5pm

Wednesdays: 10am – 11:45am; 2pm – 5pm

Thursdays: 9:30am – 11:45am

Fridays: 10am – 11:45am; 1pm – 2pm

and by appointment

I will also be available by email until 10pm most evenings.

Any changes to these hours will be posted outside my office door and/or as a Canvas announcement.

DESCRIPTION: This course is the second of a two-semester sequence which covers topics that include solutions of systems of equations and inequalities, simplifying algebraic expressions, radicals, polynomial, exponential and logarithmic functions, circular and trigonometric functions including trigonometric identities and the trigonometry of right triangles. As part of the study of these topics, we will also consider how different cultures have contributed to and approached many of these topics.

COURSE CONTENT:

Chapter 4	(Rational Functions and)Conics	4.3-4.4
Chapter 5	Exponential and Logarithmic Functions	5.1-5.5
Chapter 9	Systems of Equations and Inequalities	9.1-9.3, 9.5-9.6
Chapter 6	Trigonometry	6.1-6.7
Chapter 7	Analytic Trigonometry	7.1-7.2

TEXT: Larson, *Algebra & Trig*, 2018, Cengage Learning, ISBN 978-1-337-27117-2.

CALCULATOR: The TI-84 Plus calculator will be used extensively in this course. The TI-83 and TI-83 Plus calculators are similar. Use of TI-89, TI-92 and other symbolic algebra calculators will not be allowed for exams and quizzes in this course.

LAPTOPS: The use of technology is limited to that which will enhance the learning process. Use of laptops is permitted as long as it is not distracting from what is transpiring in the classroom. Use of a laptop or other device may be necessary for online-learning days.

METHOD OF INSTRUCTION as a DIRECTED STUDY:

The student will be provided with video lessons and outlines of notes for each section. It is up to the student to review these videos and fill in notes before attempting practice assignments. Assignment dates are set in Canvas, as well as proposed dates for tests and quizzes. The student will be responsible for confirming times to take assessments. In addition to weekly meetings at 3pm on Mondays, the student can use office hours to ask questions and clarify any questions.

METHODS OF STUDENT EVALUATION:

Exams: At the end of each chapter or couple of chapters, there will be an exam covering that material. Dates will be announced at least one week in advance. Exams *may* have calculator and no-calculator sections.

Quizzes: Expect quizzes on a near weekly basis that will cover material discussed the previous two weeks in class. Depending on the number of quizzes, I will drop up to the lowest three scores from consideration for the overall quiz grade.

Projects: The projects will require students to apply concepts from the semester. Rubrics for the projects will be provided so that expectations are clearly defined.

Homework: For nearly every section, there will be a homework assignment. For each section,

students will be expected to either submit a digital scan of this assignment or complete a short homework quiz over that assignment on Canvas. Due dates for these assignment quizzes will be listed in Canvas.

Late Homework: One late homework quiz will be accepted with no penalty up to class time the next day. (Saturday and Sunday don't count; *Tuesday and Thursday do!*) Subsequent late assignments will be accepted for up to 70% credit. (Excused absences are not subject to late penalty – see your student handbook for school policy.).

Final Exam: A comprehensive final exam will be given. As the final exam is cumulative, its score will replace any lower midterm exam scores throughout the semester.

Grading: Course grade will be determined on A through D* scale with these weights:

Exams	50%
Quizzes	10%
Projects	10%
Homework	10%
Final Exam	20%

Grade scale: Will be given on each exam. Quiz and homework scales will be established at midterm and end of semester. Approximate final scale:

90 A, 86 A-, 82 B+, 78 B, 74 B-, 70 C+, 66 C, 62 C-, below 62 D*.

The final scale may be lower, but not higher. For example, a final average of 74% will result in a grade of at least B-.

ACADEMIC INTEGRITY POLICY: As a firm believer that grades should reflect learning, academic integrity is paramount to the academic experience. Please review the Academy's Academic Integrity policy as it will be strictly adhered to in my class.

Examples of behavior subject to review under the Academic Integrity policy include, but are not limited to:

- 1, Copying someone's work and turning it in as one's own
- 2, Use of aids and/or other materials on quizzes and exams without expressed permission.
- 3, Use of calculators when explicitly forbidden to do so.
- 4, Copying another person's work or answers on a quiz or exam.
5. Giving information about the content of quizzes or exams to students yet to take the test.

I encourage you to work in groups when doing the homework assignments as much can be learned from your peers that you may not always pick up in class. However, each individual is required to turn in work in their own handwriting accompanied by the requisite work shown to receive full credit. If you have any questions about what constitutes cheating, please come to see me. In order to preserve the credibility of all students' grades, I encourage you to tell me if you observe violations of the integrity policy.

Artificial intelligence (AI) provides exciting new tools for academic work. It is appropriate to use AI to explore solutions and to discover methods of approaching problems in homework situations. In such cases, AI should be a learning tool that increases and supports understanding. AI also poses significant dangers for academic integrity. Passing off as your own any research, words, ideas, work, or solutions which you did not create is plagiarism. Whether the source is print, internet content, or generated by AI, copying work from outside resources, and presenting it as your original work is not allowed. Use of AI should be documented.

(CLASS ATTENDANCE POLICY: Students are expected to attend every class and be on time. Academy policies on attendance and tardiness will be followed. Sleeping in class constitutes an unexcused absence. Being late more than 10 minutes is recorded as Absent. In the event of unexcused absences, make-up homework, quizzes, or exams will not be allowed. For an excused absence, assignments due that day are expected by class time the next day (not the next class day). Absence from a prior class will not allow the student to defer a scheduled quiz or exam.)

“It is the policy of the Indiana Academy that any absence from class is unexcused, except for illness, death in the family, college or school-related activities, and extenuating circumstances. When a student is absent from a class, the instructor reports the student absence to the Faculty Attendance Coordinator in the Office of Academic Affairs. Unless the absence is excused by a school official, it is considered unexcused. The decision as to whether an absence is excused is not determined by the instructor.

*You are expected to attend every class. You are allowed one unexcused absence without penalty. Each additional unexcused absence will be penalized as follows: Unexcused absence (1) = 1-point subtraction from final grade. Unexcused absence (2) = 3-point subtraction from final grade. Unexcused absence (3) = 5-point subtraction from final grade. (For example, if you have an 89 final average with (3) unexcused absences your final grade will be 84). Four (4) or more unexcused absences will lead to academic and residential consequences beyond the scope of this class determined by the Office of Academic Affairs (i.e., residential groundings, parent/principal conference, and/or detention).

**Any minor assignment/test/project/presentation missed due to an unexcused absence will be handled according to the late work policy of this class. You will be given an opportunity to retake any missed assignment/test/project/presentation worth more than 20% of the final grade but will be docked a full letter grade as a result.”

CELL PHONES: Cell phones and other mobile devices should not be accessed or visible in the classroom unless you are using it as a tool to take notes. Be sure to disable device so that it will not ring, buzz, shake, or otherwise interrupt class. Enjoy the text-free hour.

EATING IN CLASS: Eating, drinking, and chewing gum is not allowed in the classroom.

METHODS OF COURSE EVALUATION: Evaluation, including student evaluation of the course, will be conducted according to Academy policy.

If you need course adaptations or accommodations because of a disability, please contact the ***Office of Disability Services***. The ***Office of Disability Services*** coordinates services for students with disabilities; documentation of a disability needs to be on file in that office before any accommodations can be provided. Disability services can be contacted at 765-285-5293 or dsd@bsu.edu.

Ball State University aspires to be a university that attracts and retains a diverse faculty, staff, and student body. We are committed to ensuring that all members of the community are welcome, through valuing the various experiences and worldviews represented at Ball State and among those we serve. We promote a culture of respect and civil discourse as expressed in our Beneficence Pledge and through university resources found at <http://cms.bsu.edu/campuslife/multiculturalcenter>.