

MAT 3001 Advanced Algebra/Trigonometry 1

Fall 2021

Ms. Jessica Edrington

SCHEDULE: Period 9-10 12:00-12:50 MWF

Burris 219

Or Period 11-12 1:00 - 1:50 MWF

Burris 219

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E-mail: jaedrington@bsu.edu

Office Hours: MWF 10am – 11:45am; 2pm – 3pm

T *Hours will vary*

R 10am – 1pm

and by appointment (these may be in person or on Zoom as appropriate)

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 first 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 P	Prerequisites	P.1-P.6
Chapter 1	Equations, Inequalities, and Mathematical Modeling	1.1-1.8
Chapter 2	Functions and Their Graphs	2.1-2.7
Chapter 3	Polynomial Functions	3.1-3.5
Chapter 4	Rational Functions (and Conics)	4.1-4.2

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.

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: Students will be given several options to choose from to in completing end of semester projects. The projects will require students to apply concepts from the semester, and students may choose one project to work on in a group. 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. These assignments or quizzes will usually be due at the beginning of the second class after the homework set is assigned.

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 during the week of December 13-17. 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.

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.

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.

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>.

Indiana Academy Mask Policy

The Indiana Academy will follow [Ball State University's mask policy](#) (see Section IV). Based on current CDC guidance recommending the wearing of face masks for all people—regardless of vaccination status—in public indoor settings in communities where the rate of coronavirus transmission is high or substantial, all employees, students, and campus visitors are required to wear a mask while inside any University building. This requirement is effective on August 9, 2021. Fully vaccinated people are not required to wear masks outdoors.

Individuals who are not fully vaccinated for COVID-19 are required to wear face masks while inside campus buildings and outside when physical distancing cannot be maintained.

If a student declines to wear a face mask as required, the student will be referred to the Director of Academic Affairs or the Director of Residential Affairs. If the situation occurs in a classroom or other academic setting, it is considered a classroom management issue, and the teacher will remind the student of the requirement and give the student a chance to comply with it prior to referring the matter to the Director of Academic Affairs or the Director of Residential Affairs. Wearing masks is crucial to preventing the spread of COVID-19 to others.