

Mr. Asante

Office: Wagoner 151

Email: jgasante@bsu.edu

Telephone: 765-285-7401

Office Hours:

Tuesday: 10:00 am – 12:00 pm, 1:00 pm – 3:00 pm

Thursday: 10:00 am – 12:00 pm, 1:00 pm – 3:00 pm

**Also by appointment
If my door is open feel free to stop in!*

Text: *PRECALCULUS* (Tenth Edition); by Sullivan; Pearson.

Also required: Graphing calculator (TI-83+, TI-84, TI-Nspire, or similar preferred)

COURSE OVERVIEW:

This course provides a thorough, careful study of basic Precalculus topics. Topics include functions and their properties, polynomial equations, and their graphs, beginning with equations of degree one (linear functions) including rational functions, exponential and logarithmic functions, their graphs, and applications.

We will be covering chapter 1 through to section 5.4 of chapter 5, and sections 12.1 – 12.3 in this first semester of the course.

ATTENDANCE POLICY:

Attendance is mandatory. Students may receive excused absences at the professional discretion of the school nurse, the associate director of mental health services, the associate director of college counseling and student engagement, the director of academic affairs, and the executive director of the Indiana Academy. Unexcused absences occur when students miss class without prior approval from the aforementioned designated school officials. Continued absences (both excused and unexcused) from Academy classes increase the likelihood of unsuccessful completion.

Alongside steady attendance, students are expected to maintain consistent healthy habits of decorum, respect, and kindness towards their classmates, instructors, and teaching assistants. When students fail to meet these classroom behavioral standards and academic habits, it is the expectation faculty engage appropriately to bring quick and immediate resolution. When students consistently fail to meet these behavioral standards and academic habits in the classroom, administrative action will be taken involving, but not limited to, parent/guardian communication, removal of privileges, administrative withdrawal from the classroom, suspension, and expulsion.

You are required to attend every class session, in accordance with Indiana Academy attendance policies. I understand clocks can be a minute or two off, so I will grant leniency for the first one or two minutes of class, but **after 15 minutes you are officially “Absent.”** However, class time is very valuable, so I strongly encourage you to get to class no matter how late you may be. This will make your process of learning what was covered in class that day much easier. Sleeping in class will result in an unexcused absence without notice.

ABSENCE POLICY:

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. Four or more unexcused absences in my class will lead to academic and residential consequences to be determined by the Office of Academic Affairs and the Office of Residential Life that may include detention, residential groundings, parent/principal conference, among others.

EVALUATION:

In this course you will be given a homework assignment every section, frequent quizzes over the material covered the previous week, and an exam every chapter. The quizzes will be short, around 20 points each, and will be very similar to homework questions. The exams are not cumulative in the sense that you will not see questions directly from previous chapters, but math is a cumulative discipline so you may need to apply knowledge from previous chapters to help solve new problems. There will also be a final exam, it will be cumulative, and it will take place on the Final Exam Period, December 14 - 17, 2026. For dates of exams please refer to the most recent version of the course schedule.

GRADING SCHEME:

Your grade in this course will be determined by the following percentage values. Remember that you EARN your grade; I do not give them out. If you want a better grade, be proactive about getting more help, there are many resources available to you!

40% Exams
25% Quizzes
25% Final Exam
10% Homework

Letter grades are determined by:

93-100	A	80-82	B-
90-92	A-	77-79	C+
87-89	B+	73-76	C
83-86	B	70-72	C-
		69 and below	D*

MAKE-UP WORK POLICY:

NO LATE WORK WILL BE ACCEPTED. If you are absent (excused absence) one day, it is your responsibility to get the work due that day turned in to me as soon as possible **and** before the next class meeting. My office is in your dormitory building so it should be simple enough for those of you who live in the dorms to be able to bring that assignment to my office and leave it under my door. For Non-residential Early College Program (NECP) students, you can send it as an email. If you will be missing a quiz or an exam you must contact me as soon as you know you will be missing it and schedule a time for you to take the quiz or exam. **In the event of an unexcused absence or suspension, missed homework assignments, quizzes, exams, etc. will NOT be accepted for credit** (except when missed work would fail the suspended student). Make-up quizzes, exams, etc. generally are not taken during class time.

OTHER POLICIES:

Math requires notetaking. You cannot do that efficiently on your computer. So, your laptops, cell phones, and other internet-ready devices should be closed/turned off and put away during class time unless given permission by the instructor for a specific class period. You are expected to bring your graphing calculator to class EVERY DAY, it will be absolutely necessary. Any and all work on homework assignments, exams, and quizzes MUST be your own!

ACADEMIC INTEGRITY:

I support and abide by the academic integrity policy as set forth in the Student Handbook. While you are encouraged to work together in this course at times, here are a few examples of behavior subject to review under the Academic Integrity policy:

- **Copying someone's work and turning it in as one's own.**
- **The use of aids or other materials on quizzes and exams without expressed permission.**
- **The use of calculators when explicitly asked not to do so.**
- **Copying another person's work or answers on a quiz or exam.**
- **Giving information about the content of quizzes or exams to students yet to take the exam or solicitation of such information is a severe violation of academic honesty standards.**

ARTIFICIAL INTELLIGENCE 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.
- In quiz or exam situations, calculators or other materials should not be used unless the instructor expressly communicates that such aides are allowed on that section of a quiz or exam.

IA WIRELESS DEVICE POLICY:

Per Indiana Code 20-26-5-40.7, each school corporation must adopt and implement a wireless communication device policy that:

- Prohibits a student from using a wireless communication device unless directed by the classroom teacher for educational purposes only.

If required for participation in classroom instruction, a teacher may direct students to use only laptops or tablets. Cellphones, gaming devices, and smartwatches may not be used and must always be stored in a residential room, locker, backpack, or cellphone holders in the classroom. Students are prohibited from using any wireless communication device in the hallways, bathrooms, and all other locations inside the instructional building unless directly instructed to by a teacher. Students violating this policy may have their phone taken by a Burris or Indiana Academy school official for the remainder of the day. Phones can be picked up from the school office at the end of the instructional day. Repeated violations of this policy will result in further consequences as outlined in the Student Handbook. This policy does not apply to the residential hall (Wagoner/Elliott) except when a teacher temporarily holds a class session in a location other than the Burris Laboratory building. This policy does not apply to Ball State University courses or other Ball State University buildings.

BALL STATE UNIVERSITY BENEFICENCE PLEDGE:

Ball State University aspires to be a university that attracts and retains outstanding faculty, staff, and students. Ball State is committed to ensuring that all members of the campus community are welcome through our practice of valuing the varied experiences and worldviews of the people whom we serve. We promote a culture of respect and civil discourse as evident in our Beneficence Pledge. As a reflection of Ball State's commitment to respect, civil discourse, and the Beneficence Pledge, inclusiveness at the Indiana Academy emerges as one of the priorities of our living and learning community. We strive to exist together respectfully and compassionately, creating an environment where every member can thrive.

COURSE SCHEDULE FOR AP PRECALCULUS - SL (MAT 3101)

08/10	Syllabus Sec. 1.2	Sec. 1.2	Sec. 1.3
08/17	Sec. 1.3 Quiz 1	Sec. 2.1	Sec. 2.2
08/24	Sec. 2.3	Sec. 2.3 Quiz 2	Exam Review
08/31	Exam 1	Sec. 2.4	Sec. 3.1 Shadow Day
09/07	Labor Day	Sec. 3.3 Quiz 3	Sec. 3.3
09/14	Sec. 4.1	Sec. 4.1 Quiz 4	Exam Review
09/21	Exam 2	Sec. 4.5	Sec. 4.5 4.6
09/28	Sec. 4.6 Quiz 5	Sec. 4.2	Sec. 4.3
10/05	Sec. 4.3 Quiz 6	Sec. 4.4	Sec. 4.4 PTC's
10/12	Fall Break	Fall Break	Fall Break
10/19	Exam Review	Exam 3	Sec. 2.5
10/26	Sec. 2.6 Quiz 7	Sec. 3.2	Sec.3.4
11/02	Sec. 3.4 Quiz 8	Exam Review	Exam 4
11/09	Sec. 12.1	Sec. 12.2	Sec.12.3 Quiz 9
11/16	Sec. 5.1	Sec. 5.2 Quiz 10	Sec. 5.3
11/23	Sec. 5.3 Supplement	Thanksgiving Break	Thanksgiving Break
11/30	Sec. 5.4	Exam Review	Exam 5
12/07	Sec. 5.4	Final Exam Review	Final Exam Review
12/14	Final Exam	Final Exam	

The teacher reserves the right to change this syllabus as situations arise, or add to it as needed.

SECTION	TOPIC
Sec. 1.2	Graphs of Equations in Two Variables, Intercepts; Symmetry
Sec. 1.3	Lines
Sec. 2.1	Functions
Sec. 2.2	The Graph of a Function
Sec. 2.3	Properties of Functions
Sec. 2.4	Library of Functions; Piecewise-defined Functions
Sec. 2.5	Graphing Techniques: Transformations
Sec. 2.6	Mathematical Models: Building Functions
Sec. 3.1	Properties of Linear Functions and Linear Models
Sec. 3.2	Building Linear Models from Data
Sec. 3.3	Quadratic Functions and Their Properties
Sec. 3.4	Build Quadratic Models from Verbal Descriptions and Data
Sec. 4.1	Polynomial Functions and Models
Sec. 4.2	Properties of Rational Functions
Sec. 4.3	The Graph of a Rational Function
Sec. 4.4	Polynomial and Rational Inequalities
Sec. 4.5	The Real Zeros of a Polynomial Function
Sec. 4.6	Complex Zeros; Fundamental Theorem of Algebra
Sec. 5.1	Composite Functions
Sec. 5.2	One – to – One Functions; Inverse Functions
Sec. 5.3	Exponential Functions
Sec. 5.4	Logarithmic Functions
Sec. 12.1	Sequences
Sec. 12.2	Arithmetic Sequences
Sec. 12.3	Geometric Sequences; Geometric Series