

# Course Syllabus for Pre-Calculus (MAT 3101)

## Dual Credit with Ivy Tech MATH136

### General:

Instructor: Joshua Ruark

Office: Wagoner 150

Day/ Time: MWF 8 AM

Office Hours: MWF 1PM-4PM; R 10-11AM; 2-3PM

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Text: *PRECALCULUS* Enhanced with Graphing Utilities (Tenth Edition); by Sullivan and Sullivan; Pearson.

### Content:

Topics covered in this course 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

### Grading:

Grades for the course and assignments are assigned by the following percentages:

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

The final grade in the course will be determined by the following factors:

Homework:	10 %
Quizzes:	10 %
Midterm exams:	60%
Final Exam:	20%

### Assignments:

For nearly every section, there will be a homework assignment. Homework will be collected on a regular basis and checked for both completeness and accuracy. Generally, it will be collected two class periods after it is assigned. 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. At the end of each chapter or couple of chapters, there will be a midterm exam covering that material. Finally, at the end of the course, you

will have a final exam that will encompass all the material presented during the semester. As the final exam is cumulative, its score will replace any lower midterm exam scores throughout the semester.

Furthermore, I will post a lesson plan for each section covered on the Canvas page for this course. I highly recommend reviewing and printing off the page before you come to each lecture. Additionally, you will find the homework assignment for each section at the bottom of the posted lesson plan.

Warning: these lesson plans are meant as a guide to help you in your note taking, and should not be considered a substitute for coming to class.

### Academic Integrity:

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.

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.

### Technology:

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. Calculators, though not required, are welcome to be used for the majority of homework, quiz, and exam assignments. However, there will be instances where calculators are NOT allowed, but you will be informed in advance when these times occur.

### Attendance:

Attendance will be taken at the beginning of the hour. You are responsible to be on time for each class period. Arrival within the first 10 minutes of class will constitute a tardy, otherwise you will be marked absent. Failure to attend class will result in disciplinary action as set forth by Academy policy regarding absences and tardies.

### Late Work/ Make-up policy:

It is my policy not to accept late work/ allow make-up work unless there is an excused absence the day an assignment was due. If you can't be in class the day an assignment is due, please bring it by my office. If you miss a quiz or exam due to an excused absence, it is up to you to schedule a time with me

(office hours or other) during which you can take the exam or quiz. You must contact me within a week of the missed assignment and complete the assignment within two weeks of missing it.

### Institutional Diversity:

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>.

### 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.

# Schedule

Week of	M	W	F
16-Aug	Syllabus/ Sec. 1.1	Sec. 1.2	Sec. 1.3-Q
23-Aug	Sec. 1.4	Super Quiz Review	Super Quiz
30-Aug	Sec. 2.1	Sec. 2.2	Sec. 2.3-Q
6-Sep	No class	Sec. 2.4	Sec. 2.5-Q
13-Sep	Sec. 2.6	Exam Review	Exam 1
20-Sep	Sec. 3.1	Sec. 3.2	Sec. 3.3-Q
27-Sep	Sec. 3.4	Sec. 3.4	Sec. 3.5
4-Oct	Topics in Quadratic Fxn-Q	Exam Review	Exam 2
11-Oct	No class	No class	Sec. 4.1
18-Oct	Sec. 4.2	Sec. 4.3	Sec. 4.3-Q
25-Oct	Sec. 4.4	Sec. 4.5	Sec. 4.5-Q
1-Nov	Sec. 4.6	Exam Review	Exam 3
8-Nov	Sec. 5.1	Sec. 5.2	Sec. 5.3-Q
15-Nov	Sec. 5.4	Sec. 5.4	Sec. 5.5
29-Nov	Sec. 5.5-Q	Exam Review	Exam 4
6-Dec	Final Exam Review	Final Exam Review	Final Exam Review