John Jay College of Criminal Justice/CUNY
The City University of New York
Mathematics & Computer Science Department
Spring 2025 MAT 141 Sec 02 Pre-Calculus Syllabus
Westport Room 108W
MW 10:50AM – 12:05PM

Professor: Dr. Danté A. Tawfeeq
Office: 6.65.21NB
Office Phone: (212) 237-1435
Email: dtawfeeq@jjay.cuny.edu

Zoom: On Line Recitations TBA
Platform: Brightspace: https://brightspace.cuny.edu for announcements, communication, course materials, and more
Office Hours: 1:40-2:40 on Wednesdays

Brief Outline of Course Content

The topics examined in the course include:

- **a)** Exponential and Logarithmic functions and applications.
- **b)** Trigonometric functions and their graphs.
- **c)** Trigonometric Identities.
- **d)** Matrices
- **e)** Polar Coordinates
- **f)** Conic Sections

Learning Outcomes

By the end of the term the successful student will be able to do the following:

- **a)** Use the unit circle to evaluate trigonometric functions.
- **b)** Show trigonometric identities are valid.
- **c)** Solve exponential, logarithmic and trigonometric equations.
- **d)** Use trigonometric methods in applications.
- **e)** Basic understanding of linear algebra, conics, and polar coordinates.

Major desire for you in this course is that you walk away with a deeper understanding of trig functions and the applications of the content covered in this class to the real world. It will better prepare you for the Calculus sequence following this course.

Textbook

We will be using the textbook, **Algebra and Trigonometry, 4th edition by Stewart, Redlin and Watson**. The publisher is Cengage Learning. You can either purchase the e-book or hard cover textbook from John Jay College Bookstore. You can also get the e-book or hard cover textbook directly from Cengage. Generally speaking, it tends to be cheaper purchasing directly from the publisher. It is up to you. Below is information on how to obtain the course material from Cengage. It will also guide you to register for WebAssign and get your 14-day free access.

How to Register for Your MAT 141 Spring 2025 Course:

1. Go to **GetEnrolled.com**
2. Enter this Course Key: [redacted] *(This is for Section 02).*
3. Follow the on-screen instructions to complete your *WebAssign* registration.
4. Visit the **Cengage Student Registration Page** for a step-by-step guide and short video on how to register for your course. We are using the "WebAssign" product and are "Not using an LMS"

PLEASE PAY ATTENTION TO PAGES 2-4. Seriously!

Homework

Homework will be assigned at the end of each week using the WebAssign online courseware. Homework opens on Sunday at 12:00am and is due on Saturday by 11:59pm. On occasions, HW open date or due date will be pushed back if there is a need too. Please be aware of due dates. I, at times, will modify the HW but I will not extend the due dates because you forgot to do it. Be mindful of the due dates!!!!!!

Quizzes

Quizzes are designed to determine your grasp on the material learned from the previous week and aligns with current week's HW. Quizzes will be given periodically. It will be given via WebAssign or on paper in class. I will inform you a week before when you will have a quiz and its formatting.

Grading Policy

There will be three (3) exams on the dates set forth in the reading outline on page 4-5 (Dates subject to change), as well as a two-hour final examination at the end of the semester. In addition, on-line (electronic) homework is assigned frequently. Your grade is based upon three exams, the final examination, the on-line homework, and any work that has been assigned out of the book for assessment. Make-ups for missed test might possibly be given in instances of medical emergencies that have documented according to university policy. In addition, there may be additional HW assignments from time to time that will be given in class as a hand out with a due date. I drop the lowest of the three test scores (this does not include the final exam.). If you score a 90% or higher on each of the three tests and have an 85% or higher on the HW by the end of the semester, along with not exceeding the number of unexcused absences allowed without appropriate paperwork explaining your absence, you will not need to take the final. Your final grade will be based on those scores. In all other circumstances, you will need to take the final.

Grading Rubric

Your grade will be determined by your performance on weekly online homework assignments, weekly computer lab sessions, three exams, and one final exam. The rubric appears below.

Component	Percentage
Three tests, weighted as 15% each	45%
Departmental Final Examination	30%
Online and Traditional Homework/Quizzes	25%
Total	100%

Letter Grade	Value	%	Explanation
A	4.0	93.0 - 100	Excellent
A-	3.7	90.0 - 92.9	Excellent

B+	3.3	87.1 - 89.9	Very Good
B	3.0	83.0 - 87.0	Very Good
B-	2.7	80.0 - 82.9	Good
C+	2.3	77.1 - 79.9	Satisfactory
C	2.0	73.0 - 77.0	Satisfactory
C-	1.7	70.0 - 72.9	Poor
D+	1.3	67.1 - 69.9	Poor
D	1.0	63.0 - 67.0	Very Poor
D-	0.7	60.0 - 62.9	Very Poor
F	0.0	00.0 - 59.9	Failure

Final Grade

The final grade is calculated based on scores from all class exams, homework assignments, labs, instructor's prerogative points based on extra credit, and the final exam. **Please be aware that if you receive a grade below 52% on the final exam you will receive a failing grade, regardless of other scoring indicators.** 52% is not passing but is our cut off score for course exit qualification. Also, passing the final exam does not mean that you automatically pass the class. Your grade must still average out to be passing, assuming all minimum requirements are met. If you are unclear about this, please speak with me. Please note, there is no retake final exam or grade improvement initiative for this course like there is for MAT 105!

Attendance, Lateness, and Decorum

Attendance is required. Students having more than four (4) unexcused absences may receive the grade of "F" for the course. Medical reasons and extenuating family circumstances are the only acceptable excuses for absence. You are also required to be punctual. Attendance can be taken 10 minutes after the start of the period.

There will be no make-up exams, except under extenuating circumstances.

Please note: MAT 141 is a three (3) credit course which means that you are expected to devote nine (9) hours per week to it; three hours are spent in class and the balance of six (6) hours is to be applied to homework and study outside of class time. *(These are minimum recommendations to fulfill New York State higher education requirements.)*

It is imperative that you plan your study time to allow for completion of the day's homework assignment before the subsequent class. If you have an unavoidably absent, you are still expected to do the assigned reading as per the course outline below.

Math & Science Resource Center (MSRC)

Tutoring is available free of charge for this course in the Mathematics & Science Resource Center (MSRC). The center also has a computer lab with internet access and a room for quiet study.

How do you get the most out of a tutoring session?

i. *Start right away*. Students who begin tutoring from the beginning of the semester typically do better than those who wait.
ii. *Book your appointments early*. During peak times, you may need to book at least a week in advance to get the times you want.
iii. *Come prepared*. Please bring your class notes and textbook. Look over the reading and try the problems. If you can, bring a list of specific questions. The more you prepare, the more you will get out of the session.
iv. If you miss a class, please get notes from a classmate *before* your session. Tutoring is not a substitute for attending class.
v. If you are repeating the course (previous grade of "F" or "W"), you are eligible to participate in the Math Advancement Program (MAP), which provides weekly one-on-one tutoring with an experienced tutor.

Contact Information:
Mathematics & Science Resource Center
Suite 1.94 New Building
646.557.4635
Email: msrc@jjay.cuny.edu
Website: https://www.jjay.cuny.edu/academics/academic-resources-services/tutoring-academic-support/math-science-resource-center

College Wide Policies for Undergraduate Courses

Incomplete Grade Policy: An Incomplete Grade may be given only to those students who would pass the course if they were able to satisfactorily complete the course requirements. It is within the discretion of the faculty member as to whether or not to give the grade of Incomplete.

Extra Work During the Semester: Any extra credit coursework opportunities during the semester for a student to improve his or her grade must be made available to students at the same time. Furthermore, there is no obligation on the part of any instructor to offer extra credit work in any course. The term "extra credit work" refers to optional work that may be assigned by the instructor to all students in addition to the required work for the course that the student must complete. It is distinguished from substitute assignments or substitute work that may be assigned by the instructor to individual students, such as make-up assignments to accommodate emergencies or to accommodate the special circumstances of individual students.

Americans with Disabilities Act (ADA) Polices: Qualified students with disabilities will be provided reasonable academic accommodations if determined eligible by the Office of Accessibility Services (OAS). Prior to granting disability accommodations in this course, the instructor must receive written verification of a student's eligibility from the OAS, which is located at L.66 in the New Building (212.237.8031). It is the student's responsibility to initiate contact with the office and to follow the established procedures for having the accommodation notice sent to the instructor. **Please inform me if you have accommodations ins the Office of Accessibility Services in a timely manner.**

Statement of the College Policy on Plagiarism: Plagiarism is the presentation of someone else's ideas, words, or artistic, scientific, or technical work as one's own creation. Using the ideas or work of another is permissible only when the original author is identified. Paraphrasing and summarizing, as well as direct quotations require citations to the original source.

Plagiarism may be intentional or unintentional. Lack of dishonest intent does not necessarily absolve a student of responsibility for plagiarism.

It is the student's responsibility to recognize the difference between statements that are common knowledge (which do not require documentation) and restatements of the ideas of others. Paraphrase, summary, and direct quotation are acceptable forms of restatement, as long as the source is cited.

Students who are unsure how and when to provide documentation are advised to consult with their instructors. The Library has free guides designed to help students with problems of documentation. (John Jay College of Criminal Justice Undergraduate Bulletin.

Tentative Pacing Schedule

Red indicates Mondays, test days, and review days, and days school is closed.

Meeting Dates	Topic(s)	Section(s)
1) 1/26	Introduction	
	No school on 1/29	
2) 2/3	Exponential and Natural Exponential Functions	**4.1, 4.2**
3) 2/5	Logarithmic Functions & Laws of Logarithms	**4.3, 4.4**
4) 2/10	Angle Measure and Trigonometry of Right Triangles	**5.1, 5.2**
	No school on 2/12 and 2/17	
5) 2/18*	Trigonometry of Right Triangles concluded	**5.2**
6) 2/19	Trigonometric functions of right triangles	**5.3**
7) 2/24	Trigonometric functions of right triangles concluded ***and Review for Exam 1***	
8) 2/26	***Exam 1 (Based on lectures/meetings 1-8)***	
9) 3/3	Inverse Trigonometric Functions	**5.4**
10) 3/5	The Law of Sines and the Law of Cosines	**5.5, 5.6**
11) 3/6*	The unit circle approach to trigonometry and introduction to trigonometric functions	**6.1, 6.2**
12) 3/10	Trigonometric Graphs	**6.3**
13) 3/12	More trigonometric graphs	**6.4**
14) 3/17	Introduction to trigonometric identities	**7.1**
15) 3/19	***Review for Exam 2***	**Review**
16) 3/24	***Exam 2 (Based on lectures/meetings 1-16)***	
17) 3/26	Addition and Subtraction Formulas (It will be taped for you to view at your leisure because I will be on a Middle States visit)	**7.2**
18) 4/2	Double Angle Formulas and Half Angle Formulas	**7.3**
19) 4/7	Basic Trigonometric Equations	**7.4**
20) 4/9	Polar Coordinates & Graphs of Polar Equations	**8.1, 8.2**
	Spring Break is 4/12-20/25	
21) 4/21	Matrices and System of Linear Equations	**11.1**
22) 4/23	The Algebra of Matrices	**11.2**
23) 4/28	Matrices and Matrix Equation	**11.3**
24 4/30	Determinates and Cramer's Rule	**11.4**
25) 5/5	***Review Exam 3 (Based on lectures 1-24)***	**Review**

26) 5/7	***Exam 3***	
27) 5/12	30 Minute Survey of Conic Sections if I deem time permits. This will not be on the final. The rest of class will be geared toward reviewing for final exam	**12.1. 12.2**
28) 5/14	Review for Final	
	FINAL EXAM WILL OCCUR ON A DAY DURING THIS TIME PERIOD 5/16-5/22	

NOTE:

1. Last day to withdraw with a grade of "W" is Wednesday, May 15th. It is your responsibly to verify that this date is correct.
2. The Registrar will determine the exact time and room for the departmental final exam.
3. * Are days that are on Tuesday and Thursday buy have Monday or Wednesday schedule.