
Math 110: PRECALCULUS PLUS

INSTRUCTOR: Dr. Sambandam Ekambaram (Dr. Sam Ekambaram)

LENGTH OF COURSE: One semester (14 weeks)

CONTACT INFORMATION:

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[CAMS student's portal](#)
(check DOCUMENTS)

CLASSROOM HOURS/WEEK: Mondays, Tuesdays, Thursdays and Fridays from 8:00 AM to 9:55 AM
in room #450

OFFICE HOURS: Monday, Tuesday and Thursday: 12: 15 to 2:00 PM

Important DAYS: Important days of this semester:

September 12, 2016: Last Day to change/add/drop courses

October 10, 2016: Thanksgiving Day

October 21, 2016: Midterm Test

November 11, 2016: Remembrance Day

December 5 to 9: Final Examinations

CALENDAR DESCRIPTION: This is a required course in Mathematics, intended for students who wish to upgrade their Mathematics skills in order to take a first year University Calculus Course.

AUDIENCE: Students who haven't done well in Grade 12 high school Mathematics course or students who have not done any Mathematics course beyond Grade 10 Mathematics may be eligible to take this course. Students are assigned this course based on their score in Math Placement Test. In this course, students learn to comprehend and apply higher algebra skills. This course is a stepping stone from high school Mathematics to University Mathematics courses.

COURSE OUTLINE:

Number line, Integers, Rational Numbers and Irrational Numbers

Arithmetic operations on real numbers
 Absolute value, Inequalities
 Binomials and trinomials in one or two variables
 Factoring/solving polynomial equations of degree one in one variable.
 Functions, Domain, Graph and Range
 Composition of functions, Inverse functions
 Linear functions, quadratic functions, Polynomial functions, Rational functions
 Logarithmic and exponential functions
 Trigonometric functions, inverse trigonometric functions

TEXTBOOK: Precalculus by Sheldon Axler, available in bookstore.

CALCULATOR: A scientific calculator is required. Students must come to my office to show and get help in using calculator on or before Sept 12, 2016. Cell phone should not be used for calculator.

ATTENDANCE: Students must discuss/communicate all late arrivals, early departures and absences with the instructor. Arriving late by more than 5 minutes is defined as Late Attendance. The penalty is described below:

Late attendance for more than three days: 0.20 percent for every class from the fourth day.

Absence for more than three days: 0.25 for every class from the fourth day.

BONUS MARKS: For punctuality, attendance, asking questions, answering questions, attending office hours for guidance in studying, learning to use calculator only when it is necessary, learning when not to use calculator, observing good code of ethics as a student and keeping up the deadlines for assignments will be given bonus marks of up to 10% at the discretion of the instructor.

EVALUATION SCHEME: No makeup quiz/test/exam will be given if you are absent. Medical note may not be acceptable.

QUIZZES	EVERY LECTURE	30%
MIDTERM TEST	DURING 7 TH WEEK	25%
Final Examination	3 hours final exam in the fourteenth week	45%

Electronic Devices: iPads, tablets, laptops or any other electronic device can not be used in class. A Cell phone is allowed but it has to be SWITCHED OFF (not in vibration mode) and kept inside your bag. In-class usage, like calling or texting is restricted to emergency situations only. Cell phones are not allowed to be used as a calculator in class or in the tests.

Code of conduct for students:

BUILDING RULES

The college expects everyone to treat this facility with respect:

1. Nothing – absolutely nothing – should be taped to walls in classrooms and corridors. The paint will come off with the tape, so no matter how important you think the message is, use a bulletin board! Taping things to and writing on windows is not recommended either.
2. This one applies to students really, but it is something we should all enforce right from the start. We will not allow students to sit on the main staircase. We will also not allow students to sit in groups in corridors – this tends to block traffic.
3. The entire College campus is a non-smoking area.

CLASSROOM RULES

Students at Columbia College are expected to show respect for the rights of other students, in particular the right to study and learn. Any behaviour in a classroom that interferes with the instructor's ability to conduct the class will be treated as disruptive; the penalties for disruptive behaviour are set out in the College Calendar, and include suspension and even expulsion from the College. In general students are expected to be attentive and courteous during class and lab time, to complete assigned work and to accept responsibility for their own achievement. In particular:

1. Students will aim to arrive at all classes early so as to be ready when the class begins – this means taking a seat and getting out paper, pens, necessary texts and so on before the class starts.
2. Students will not expect to leave the class before the instructor has finished. On those rare occasions when a student must leave a class early he/she should seek the permission of the instructor before the class starts. If a student must excuse himself/herself during a class the student should request permission and leave as quietly as possible.
3. **Cellphones (and similar electronic devices) will be turned off during classes**, not simply switched to “vibrate” mode. Students should never consult their phones during the class. The only electronic devices that may be used during a class are electronic calculators, electronic dictionaries, and laptops/tablets that are being used to source course material such as e-texts, and these devices may only be used in class **if the instructor gives his/her explicit permission**.
4. Students will not talk while the instructor is talking.
5. Students will speak respectfully when asking a question or answering a question posed by the instructor.
6. Students may not eat* or drink during classes unless the instructor indicates that this is acceptable in his/her class.

Any student found not following any of the rules will be asked to leave the class immediately.

CHEATING AND PLAGIARISM POLICY:

Columbia College expects all students to uphold the principle of academic honesty. Cheating and plagiarism (presenting another person's words or ideas as one's own) are not acceptable

behaviour at any educational institution. Depending on the severity of the offense such acts can result in a grade of zero on the test or assignment, a failing grade (F) in the course or expulsion from the college. In all cases, the circumstances and the penalty are recorded in the student's file.