Syllabus

**MATH-111, APPLIED PRECALCULUS**

FALL 2017

**Course:** MATH-111-11, Applied Precalculus

* Credits: 4.00
* Time: 5:30-7:10 pm
* Location: RI 120
* Book: Pathways Precalculus, Sixth Edition
* Website: <https://www.rationalreasoning.net/precalculus/#>  
    
  FOR ONLINE HOMEWORK:
* Course ID- 427
* Enrollment Key- HamdehMath111Fall2017

**Instructor:**

* Office: RI 102
* Email: hamdehm@montclair.edu
* Office Hours: 7:10-7:40 pm on Tuesdays and Thursdays

**Prerequisites:** MATH 100 or placement through the Montclair State University Placement Test (MSUPT) or a satisfactory score on department's Precalculus Readiness Test.

**Course Objectives:** The main objective of this course is to provide you with firm mathematical foundation for calculus. Part of that goal is to introduce you to the mathematical thinking and logic through challenging and real-world problems and homework. Topics include functions and their graphs, including polynomial, rational, exponential, logarithmic and trigonometric functions, as well as equations and their applications.

**Calculators:** The use of calculators is allowed, but only calculators that are NOT enabled with a CAS (computer algebra system) may be used. Examples of allowable calculators include the following: TI-83 series, TI-84 series, TI-Nspire (non-CAS), Casio 9860, HP-39G.

Examples of prohibited calculators include the following: TI-Nspire (CAS), TI-89 series, TI-92 series, HP Prime, HP 48GII, HP-40G, HP-49G, HP-50G, Casio fx-CP400 (ClassPad 400), Casio ClassPad 300, Casio ClassPad 330, Casio Algebra fx 2.0, Casio CFX-9970G series. Also prohibited are handheld, tablet, and laptop computers, and calculators built into cell phones.

**Precalculus Tutoring:** You have two options for tutoring beyond your instructor’s office hours.

Academic mentoring, tutoring, and disability resources are available to Montclair students. Please visit the [Academic Success Center (ASC)](https://www.montclair.edu/student-development-campus-life/academic-success-center/#https://www.montclair.edu/student-development-campus-life/academic-success-center/) for more information.

* Offices Location: Webster Hall, Rooms 301, 302, 303   
  Tutoring: Webster Hall, Room 300A  
  Telephone: (973) 655-5425  
  [asc@mail.montclair.edu](mailto:asc@mail.montclair.edu)
* Fall Hours: Mon & Thur 8:30AM to 6:00PM; Tues, Wed & Fri 8:30AM to 4:30PM

We also have tutoring available in the mathematics department. The Mathematics Support Center (MSC) is run by faculty and mathematics students, and this will be where the precalculus tutor(s) will be located.

* Location: RI-224A
* Schedule: Will be announced the second week of classes, but the plan is to have the support center running at least Monday through Thursday from 10 am to 5 pm.
* Tutors: There will be Supplemental Instruction (SI) leaders assigned to specific courses. They will attend their assigned courses to be able to help students. In addition to SI leaders, some faculty members will hold their office hours in the MSC.

**Attendance, in-class participation and teamwork:** Attendance is mandatory and your participation in class and teamwork is part of the final grade. You are encouraged to work together on homework assignments and to study for exams. However, when time comes to write up the solutions, you are expected to do it on your own. The best practice is to put aside the notes from the discussions with other classmates and to write up the solutions entirely from scratch.

**Homework:** Homework will be assigned on a weekly basis using IMathAS. Here is how to get access to the online homework system:

1. Buy a workbook, either from the bookstore or directly from <https://rationalreasoning.net/amember/signup.php>.
2. Your workbook will come with online access to [rationalreasoning.net](http://rationalreasoning.net/). Books coming from bookstores have instructions (and an activation code) inside the front cover. If you order the book directly from [rationalreasoning.net](http://rationalreasoning.net/), an online account will be created for you at the time of ordering the book for immediate access.
3. When you create an account at [rationalreasoning.net](http://rationalreasoning.net/), it will automatically create an account for you in IMathAS, and you will have the same username/password for both sites. At this time, you will have access to the online homework system.

**Exams:** There will be two exams and a final this semester. Each exam will occur after 4-5 weeks of instruction and cover 2-3 modules. The final is cumulative. Dates for the exams will be announced in class.

**Grading scale and policies:** The weight of each component within the course grade is as follows:

* Attendance, in-class participation and teamwork: 15%
* Homework: 25% (the lowest grade will be dropped)
* Exam 1: 15%
* Exam 2: 15%
* Final exam (cumulative): 30%

The final grade is based on the following criterion

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| --- | --- | --- | --- |
| A | 94 – 100% | C | 74 – 76% |
| A- | 90 – 93% | C- | 70 – 73% |
| B+ | 87 – 89% | D+ | 67 – 69% |
| B | 84 – 86% | D | 64 – 66% |
| B- | 80 – 83% | D- | 60 – 63% |
| C+ | 77 – 79% | F | 0 – 59% |

**Important dates:**

* September 4: Labor Day Holiday (No Classes)
* September 5: Opening Day (No Classes)
* September 6: Classes Begin
* November 23-26: Thanksgiving Holiday (No Classes)
* December 13: Wednesday Designated as a Friday (for Friday day classes only; Wednesday day and evening classes do not meet)
* December 14: Classes End
* December 15-21: Examination Period (Final Exam: Tuesday, Dec 19, 5:30-7:30pm)

**Note:** The instructor reserves the right to make adjustments or changes to this syllabus throughout the semester. Students are responsible to learn about these changes if they miss any class time.

**Academic Integrity:** In this course we will strictly adhere to MSU’s policy for academic integrity: <http://www.montclair.edu/dean-of-students/student-conduct/academic-integrity/>. Please review in particular a description of plagiarism, a common form of scholastic dishonesty. The penalty for plagiarism, whether it’s done intentionally or inadvertently, can be severe: <http://plagiarism.org/>.

**Special Needs:** Any student with a physical, sensory, learning, psychological, neurological, or chronic medical disability who requires accommodation should contact the Disability Resource Center at [973-655-5431](tel:973-655-5431). The Disability Resource Center is located in Webster Hall, Room 100. For information: <http://www.montclair.edu/disability-resource-center/>. Please let me know if you need specific accommodations for this class.