

MTH 111 (Fall 2017) – Calendar and Syllabus

The following calendar gives a timetable for the course. Your class may be slightly behind or ahead at any given time. These problems may be done in class or assigned as homework. You should work out all of the problems given below and others if possible. A marking of (*) indicates that only part of that section will be covered in the course. A notation of “1-20” indicates that you should attempt *all* problems between 1 and 20 (inclusive).

	Week	Sections/Events/Exams	Homework Problems
0	Sept. 4 Sept. 8	First Day of Classes Wed. Sept. 6 Introduction and Algebra Assessment (1.2) Linear and Absolute Value Inequalities (PCA 1)	(1.2) 1-25, 32, 33, 35, 36, 45-57 odd, 67-72
1	Sept. 11 Sept. 15	(1.3) Equations and Graphs in Two Variables* (PCAs 2, 3) (1.4) Linear Equations in Two Variables (PCAs 2, 3)	(1.3) 1-14, 53-74 (1.4) 1-45 odd, 53-66
2	Sept. 18 Sept. 22	(1.5) Functions (PCA 4) (1.6) Graphs of Relations and Functions (PCAs 2,4)	(1.5) 11-18, 20, 24-30 even, 31, 33, 35, 37-68, 74-88 (1.6) 1-42, 47, 48, 55-67
3	Sept. 25 Sept. 29	(1.7) Families of Functions, Transformations, and Symmetry (PCAs 1, 2, 4) (1.8) Operations with Functions (PCA 4) Pretest 1 Sept. 28 (TTH classes) or Sept. 29 (MWF classes) Last day to drop without “W” on Transcript Wed. Sept. 27	(1.7) 1-17 odd, 18-24, 35-67 odd, 68-74, 79, 81, 85 (1.8) 1, 4, 7, 13, 15, 19, 21, 23, 27, 29-75
4	Oct. 2 Oct. 6	(1.9) Inverse Functions (PCAs 2,4) (2.1) Quadratic functions and Inequalities (PCAs 1, 2, 4, 5) Exam 1 Wed Oct. 4: Chafee 271 6:00-7:30pm	(1.9) 1-21, 45-52, 61-66 (2.1) 1-15, 21-26, 33, 37, 41, 45-55, 75, 76
5	Oct. 9 Oct. 13	(2.2) Complex Numbers (PCA 5) (2.3) Zeros of Polynomial Functions (PCA 5) No Class Mon. Oct. 9	(2.2) 9-20, 41-43, 51, 54, 73-88 (2.3) 1-6, 35-40, 51-72
6	Oct. 16 Oct. 20	(2.4) The Theory of Equations (PCA 5) (2.6) Graphs of Polynomial Functions (PCAs 1, 2, 5) Last day to drop a class Wed. Oct. 18	(2.4) 1-63 odd (2.6) 3-8, 13-20, 27-36, 41-50, 53-68, 81-92, 95
7	Oct. 23 Oct. 27	(2.7) Rational Functions and Inequalities* (PCAs 1, 2, 4) Pretest 2 Oct. 26 (TTH classes) or Oct. 27 (MWF classes)	(2.7) 1-12, 29-47, 49-56, 81-96
8	Oct. 30 Nov. 3	(3.1) Angles and Their Measurements (PCA 8) (3.2) The Sine and Cosine Functions (PCAs 4, 8) Exam 2 Wed. Nov. 1: Beaupre 100 or Pastore 124 (determined by instructor) 6:00-7:30pm	(3.1) 1-16, 23-28, 41-48, 55-60, 67-74 (3.2) 3-28
9	Nov. 6 Nov. 10	(3.3) The Graphs of Sine and Cosine Functions (PCAs 2, 8) (3.4) The Other Trig Functions and Their Graphs (PCAs 2, 4, 8)	(3.3) 1-39 odd, 51, 55, 65, 69, 70 (3.4) 3-28, 51, 55, 67, 71
10	Nov. 13 Nov. 17	(3.5) The Inverse Trigonometric Functions (PCAs 4, 8) (3.6) Right Triangle Trigonometry (PCA 8) No Class Mon. Nov. 13	(3.5) 1-12, 17-28, 33-39, 47, 67, 69, 71 (3.6) 1-14, 23-26, 34-36
11	Nov. 20 Nov. 24	(3.7) Identities* Pretest 3 Nov. 20 (MWF classes) or Nov. 21 (TTH classes) No classes Thanksgiving Break Nov. 23 – Nov. 24	(3.7) 1-31 odd
12	Nov. 27 Dec. 1	(4.1) Exponential Functions and Their Applications (PCA 6) (4.2) Logarithmic Functions and Their Applications (PCA 9) Exam 3 Wed. Nov. 29: Beaupre 100 or Pastore 124 (determined by instructor) 6:00-7:30pm	(4.1) 1-17, 19-28, 43-52, 59-64, 81, 83, 91 (4.2) 1-24, 29, 31, 39, 40, 59, 63, 65, 69-83, 93, 97, 98
13	Dec. 4 Dec. 8	(4.3) Rules of Logarithms (PCA 9) (4.4) More Equations and Applications* (PCA 9)	(4.3) 1-20, 33-50 (4.4) 1-20
14	Dec. 11	Review Last Day of Classes Mon. Dec. 11	

Precalculus Competency Areas (PCAs) (See MTH111 website for details)

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| 1.) Inequalities | 6.) Radicals and Exponents |
| 2.) Graphs and Graphing | 7.) Algebra |
| 3.) Lines | 8.) Trigonometric Functions |
| 4.) Functions | 9.) Logarithms |
| 5.) Factoring and Expanding | |

