

Intermediate Algebra and Trigonometry - MTH 06, Sec. D01 (44552)

Professor: Dr. Luis Fernández

Class times and room: Mo, Tu, We, 8:00 to 10:00, CP 309.

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Office hours: Mo 10:00–11:00, We. 10:00–11:00.

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Some resources for learning

- **Classes:** Attendance is mandatory, and essential to succeed in the class. In class you will have time to learn new material, practice, and ask questions.
- **Free tutoring:** In the Learning Commons (ME Room SB-05) there are permanent tutors for all Developmental Math courses. Opens 10am to 8pm Monday to Friday, 10am to 3pm weekends.
- **Meetings with the instructor:** If you need help with any part of the course, or for any other matters, please come to my office during office hours (above) or write me an email to set up an appointment.
- **Emailing the instructor:** If you have questions while doing homework and need help quickly, please email me anytime (address above).

Textbook

- *Intermediate Algebra 2e*, by Lynn Marecek and Andrea Honeycutt Mathis. Free download at OpenStax: <https://openstax.org/details/books/intermediate-algebra-2e>
- *Precalculus* by Jay Abramson. Free download at OpenStax: <https://openstax.org/details/books/prec calculus>

Students' obligations and responsibilities

- Obtain all the material necessary for the class in the first week.
- Study and learn the material, using any resource to achieve this goal.
- Attend, be on time, be involved, and have an active participation in every class.
- Do and submit all the homework assignments in time.
- Treat peers and instructor in a respectful manner.

Instructor's obligations and responsibilities

- Act as *facilitator* of the learning process of the students, and assist with any question that students may have.
- Give tests and exams of appropriate difficulty. Grade tests and exams promptly and explain the students the meaning of their grades.
- Treat the students respectfully and impartially.

Classroom Rules

- **Students with 6 absences or more will automatically receive an F (Fail) in the course.** Lateness of 30 minutes or more will count as an absence.
- Cell phones and earphones are not allowed during class time or tests unless required by the instructor. **Each time a student is found using the cell phone during class will count as a cell phone violation. After 6 cell phone violations, students will receive an F (Fail) in the class.**
- There will be a break in the middle of each class. Students will be allowed to use cell phones during breaks.
- **In-class tests will not be repeated.** The only **exception** is if the instructor receives **notice** of the absence (via e-mail, telephone, message, a friend,...) **on or before the day of the test or quiz.**

Exams and homework

- **Four tests:** Each counts a **15%** of the final grade. Only the best three will count, totalling **45%** of the final grade.
- **Homework:** It will be assigned each day. It is your obligation to **do the homework online via WebWork**, plus the exercises assigned in class. It will count **20%** of the final grade.
- **Final exam:** It will count **35%** of the final grade.

Academic Integrity:

Academic dishonesty (such as plagiarism and cheating) is prohibited at Bronx Community College and is punishable by penalties, including failing grades, dismissal and expulsion. For additional information and the full policy on Academic Integrity, please consult the BCC College Catalog.

Accommodations/Disabilities:

Bronx Community College respects and welcomes students of all backgrounds and abilities. In the event you encounter any barrier(s) to full participation in this course due to the impact of a disability, please contact the disAbility Services Office as soon as possible this semester. The disAbility Services specialists will meet with you to discuss the barriers you are experiencing and explain the eligibility process for establishing academic accommodations for this course. You can reach the disAbility Services Office at: disability.services@bcc.cuny.edu, Loew Hall, Room 211, (718) 289-5874.

Class plan and assigned exercises. MTH 06. Professor Luis Fernández

Use this as a guide to find out what is done in each class and what is the homework assigned each day.

You will have **one week** for each Webwork assignment.

| Date | Section number from text AND WebWork assignment | Assignment from text |
|----------|--|---|
| | INTERMEDIATE ALGEBRA 2E TEXT | |
| | Chapter 1 Foundations | |
| We 8/25 | 1.2 Integers | p.39: 63-66, 71-110, 119-126 |
| Mo 8/30 | 1.3 Fractions | p. 54: 143-166, 173-182, 209-224,229-234 |
| Tu 8/31 | Chapter 2 Solving Linear Equations | |
| We 9/1 | 2.1 Use a General Strategy to Solve Linear Equations | p. 113: 5-26 |
| | 2.3 Solve a Formula for a Specific Variable | p. 147: 165-194 |
| Mo 9/6 | NO CLASS (LABOR DAY) | |
| Tu 9/7 | NO CLASSES SCHEDULED | |
| We 9/8 | NO CLASSES SCHEDULED | |
| Mo 9/13 | 2.5 Solve Linear Inequalities | p. 186: 296-317 |
| Tu 9/14 | 2.7 Solve Absolute Value Inequalities | p. 211: 434-489 |
| We 9/15 | NO CLASSES SCHEDULED | |
| Mo 9/20 | TEST 1. Chapters 1 and 2. | |
| | Chapter 3 Graphs and Functions | |
| Tu 9/21 | 3.1 Graph Linear Equations in Two Variables | p. 252: 9-28, 33-68 |
| We 9/22 | 3.5 Relations and Functions | p. 328: 299-302, 307-332 |
| Mo 9/27 | Chapter 4 Systems of Linear Equations | |
| | 4.1 Solve Systems of Linear Equations with Two Variables | p. 390: 30-35, 46-55 |
| | Chapter 5 Polynomials and Polynomial Functions | |
| Tu 9/28 | 5.1 Add and Subtract Polynomials | p. 503: 1-28, 33-46, 53-68 |
| We 9/29 | 5.2 Properties of Exponents and Scientific Notation | p. 528: 81-126, 131-155, 162-173 |
| Mo 10/4 | 5.3 Multiply Polynomials | p. 545: 178-271 |
| Tu 10/5 | Review. Extra time for chapters 3, 4 and 5. | |
| We 10/6 | TEST 2. Chapters 3, 4, 5 | |
| Mo 10/11 | NO CLASS (COLUMBUS DAY) | |
| | Chapter 6 Factoring | |
| Tu 10/12 | 6.1 Greatest Common Factor and Factor by Grouping | p. 582: 9-50 |
| We 10/13 | 6.2 Factor Trinomials | p. 600: 61-130, 135-152 |
| Mo 10/18 | 6.3 Factor Special Products | p. 615: 159-190, 213-220 |
| Tu 10/19 | 6.4 General Strategy for Factoring Polynomials | p. 625: 233-246, 249-256 |
| We 10/20 | 6.5 Polynomial Equations | p. 641: 277-326 |
| Mo 10/25 | Chapter 7 Rational Expressions and Functions | |
| | 7.1 Multiply and Divide Rational Expression | p. 666: 1-24, 29-44, 49, 50 |
| Tu 10/26 | 7.2 Add and Subtract Rational Expressions | p. 682: 75-142 |
| We 10/27 | 7.3 Simplify Complex Rational Expressions | p. 695: 151-194 |
| Mo 11/1 | 7.4 Solve Rational Equations | p. 709: 197-230 |
| Tu 11/2 | Review. Extra time for chapters 6 and 7. | |
| We 11/3 | TEST 3. Chapters 6, 7 | |
| Mo 11/8 | Chapter 8 Roots and Radicals | |
| | 8.1 Simplify Expressions with Roots | p. 771: 1-15, 19-22 |
| Tu 11/9 | 8.2 Simplify Radical Expressions | p. 789: 55-65 |
| We 11/10 | 8.3 Simplify Rational Exponents | p. 805: 119-162 |
| Mo 11/15 | 8.4 Add, Subtract, and Multiply Radical Expressions | p. 818: 165-168, 183-186, 191-214(a) |
| Tu 11/16 | 8.5 Divide Radical Expressions | p. 832: 245, 246, 259-262, 271-282 |
| We 11/17 | 8.6 Solve Radical Equations | p. 846: 287-304, 315-326 |
| Mo 11/22 | 8.8 Use the Complex Number System | p. 868: 409-412 |
| | Chapter 9 Quadratic Equations and Functions | |
| Tu 11/23 | 9.1 Solve Quadratic Equations Using the Square Root Property | p. 893: 1-30 |
| We 11/24 | 9.2 Solve Quadratic Equations by Completing the Square | p. 909: 75-101 |
| Mo 11/29 | 9.3 Solve Quadratic Equations Using the Quadratic Formula | p. 923: 113-136 |
| Tu 11/30 | Review. Extra time for chapters 8 and 9. | |
| We 12/1 | TEST 4. Chapters 8, 9 | |
| | PRECALCULUS TEXT | |
| | Chapter 5 Trigonometric Functions | |
| Mo 12/6 | 5.1 Angle | p. 455: 26-42 |
| Tu 12/7 | 5.4 Right Triangle Trigonometry | p. 495: 10-41, 52-56 |
| We 12/8 | Review. Extra time for chapter 5. | |
| Mo 12/13 | Review for the final | |