ARITHMETIC - MTH 01. Section D29 - 52796

Professor: Dr. Luis Fernández

Class times and room: Tu, Th, 16:00–17:50, NI 203.

Course page: http://fsw01.bcc.cuny.edu/luis.fernandez01/

Office & Tel.: CP 301. (718) 289-5100, Ext. 3209.

Office hours: Tu 13:00–14:00 pm, Th 9:00–10:00 am.

e-mail: luis.fernandez01@bcc.cuny.edu

Overview of the course.

This course will provide some basic tools that you will need to become college proficient in math. **It is important that you master these tools. You will need them in your next courses.**

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:

- *Arithmetic: a Textbook for Math 01,* 5th edition (2015), by Dr. Anthony Weaver. Available online **for free** at: http://fsw01.bcc.cuny.edu/mathdepartment/Courses/Math/MTH01/ArithBook5thEd.pdf
  There is also a link to the book in the course webpage above.

Students' obligations and responsibilities

- 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.
- Obtain all the material necessary for the class in the first week.

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 homeworks:

- **Three tests:** Each counts a **15%** of the final grade. Only the best two will count, totalling **30%** of the final grade.
- **A midterm:** It counts a **20%** 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 **15%** 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.

Tentative plan and assigned exercises. MTH 01. Professor Luis Fernández

Date	Section Number From Text	Assignment From Text	WebWork Assignment
Tu 8/27	1.1 Adding Whole Numbers 1.2 Subtracting Whole Numbers 1.3 Multiplying Whole Numbers	Sec. 1.0.1, Sec. 1.1.3 Sec. 1.2.5 Sec. 1.3.3	HW 1
Th 8/29	1.4 Powers of Whole Numbers 1.5 Division of Whole Numbers	Sec. 1.4.2, Sec. 1.4.4 Sec. 1.5.3	HW 2
Tu 9/3	1.6 Division and 0 1.7 Order of operations	Sec. 1.7.1	HW 3
Th 9/5	NO CLASS - MONDAY SCHEDULE.		
Tu 9/10	2.1 Absolute value 2.2 Inequalities and signed numbers 2.3 Adding signed numbers	Sec. 2.1.1 Sec. 2.2.1 Sec.s 2.3.1, 2.3.3, 2.3.5	HW 4
Th 9/12	2.4 Subtracting signed numbers	Sec. 2.4.1	HW 5
Tu 9/17	2.5 Multiplying signed numbers 2.6 Dividing signed numbers	Sec. 2.5.1 Sec. 2.6.1	HW 6
Th 9/19	**REVIEW. FIRST TEST.** Covers from 1.1 to 1.7		**TEST 1 REVIEW**
Tu 9/24	2.7 Powers of Signed Numbers 2.8 Square Roots of Signed Numbers	Sec. 2.7.1 Sec. 2.8.1	HW 6.5
Th 9/26	3.1 What positive fractions mean 3.2 Proper and Improper Fractions 3.3 Mixed Numbers	Sec. 3.2.2 Sec. 3.3.2, Sec. 3.3.4	HW 7
Tu 10/1	NO CLASS.		
Th 10/3	3.4 Multiplication of Fractions 3.5 Equivalent Fractions 3.10 Division of Fractions	Sec. 3.4.1 Sec. 3.5.2 Sec. 3.10.2, Sec. 3.10.4	HW 8 HW 9
Tu 10/8	NO CLASS.		
Th 10/10	3.6 Prime Factorization and the GCF 3.8 Adding and Subtracting Fractions	Sec. 3.6.1, 3.6.3, 3.6.5 Sec. 3.8.1, 3.8.4, 3.8.6	HW 10 HW 11
Tu 10/15	3.7 Pre-cancelling when Multiplying Fractions 3.9 Comparison of Fractions	Sec. 3.7.1 Sec. 3.9.1	
Th 10/17	**REVIEW FOR THE MIDTERM.**		**SAMPLE MIDTERM**
Tu 10/22	**MIDTERM EXAM Covers from 1.1 to 3.9**		
Th 10/24	3.12 Signed fractions 3.13 Operations with fractions and mixed numbers	Sec. 3.12.1 Sec. 3.13.1	HW 11.5
Tu 10/29	4.1 Decimal place values 4.2 Significant and Insignificant 0's 4.5 Adding and Subtracting Decimals	Sec. 4.1.1 Sec. 4.5.1	HW 12
Th 10/31	4.6 Multiplying and Dividing Decimals by Powers of 10 4.7 Multiplication of general decimals 4.8 Division of a decimal by a whole number	Sec. 4.6.1 Sec. 4.7.1 Sec. 4.8.1	HW 13 HW 14
Tu 11/5	4.9 Division of a decimal by a decimal 4.10 Order of magnitude, Scientific notation	Sec. 4.9.1 Sec. 4.10.1	HW 15 HW 16
Th 11/7	4.3 Comparing Decimals 4.4 Rounding-off 4.11 Percents, Conversions 4.12 Fractional parts of numbers	Sec. 4.3.1 Sec. 4.4.1 Sec. 4.11.1 Sec. 4.12.1	HW 17 HW 18
Tu 11/12	**REVIEW. SECOND TEST.** Covers from 1.1 to 4.12		**TEST 2 REVIEW**
Th 11/14	5.1 Ratio 5.2 Proportions	Sec. 5.1.1 Sec. 5.2.3	HW 19
Tu 11/19	5.3 Percent problems 5.4 Rates 5.5 Similar triangles	Sec. 5.3.1 Sec. 5.4.1 Sec. 5.5.1	HW 19 cont.
Th 11/21	6.1 Evaluating Expressions 6.2 Using Formulae	Sec. 6.1.1 Sec. 6.2.1	HW 20
Tu 11/26	6.3 Functions 6.4 Linear terms 6.5 Linear Equations in One Variable	Sec. 6.3.1 Sec. 6.4.1 Sec. 6.5.2	HW 22
Th 11/28	NO CLASS - THANKSGIVING.		
Tu 12/3	**REVIEW. THIRD TEST.** Covers from 1.1 to 6.5		**TEST 3 REVIEW**
Th 12/5	1.8 Average 1.9 Perimeter, Area and the Pythagorean Theorem	Sec. 1.8.1 Sec. 1.9.1	HW 21
Tu 12/10	REVIEW FOR THE FINAL	Prepare questions	**FINAL PRACTICE 1**
Th 12/12	REVIEW FOR THE FINAL	Prepare questions	**FINAL PRACTICE 2, 3**

REMEMBER: The exercises listed correspond to the material that will be covered on the date they are listed.