

MATH 30-PRE-CALCULUS  
BRONX COMMUNITY COLLEGE, CUNY  
SECTION D11, FALL 2020  
M, W 10AM - 11:50AM, ONLINE (ZOOM)

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INSTRUCTOR: Mehdi Lejmi                      OFFICE: CP 319  
EMAIL: mehdi.lejmi@bcc.cuny.edu        OFFICE HOURS: Monday-Wednesday: 4pm-5pm or by appointment (ZOOM)  
OFFICE PHONE NUMBER: 718-289-5415

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COURSE DESCRIPTION/OBJECTIVE: Successful students will become proficient in understanding basic concepts of functions and in definitions and properties of polynomials, rational functions, exponential and logarithmic functions and trigonometric functions.

PREREQUISITES: MATH 06 or equivalent.

TEXT: *Precalculus (Fifth edition)*, by Robert E. Blitzer

CLASSES: We will have meetings at the assigned time online on ZOOM. To join the class please enter the following URL in your browser address:

<https://zoom.us/my/math.bcc.lejmi>

or

<https://zoom.us/j/8479544062>

Both are the same room meeting. The meeting ID is 847 954 4062. You can also dial 646-558-8656 and then enter the meeting ID 847 954 4062 to join the class. To access your CUNY ZOOM account, please enter the following URL in your browser address: <https://cuny.zoom.us> and then login using your CUNYFirst Credentials. If you need any help with ZOOM please email me.

BOARD: As a board we will use <https://awwapp.com>. I can always invite you to write on the board.

WEBSITE (CUNY BLACKBOARD): <http://bbhosted.cuny.edu>

CALCULATORS: Calculators are NOT permitted for tests, exams and quizzes.

GRADING: Homework will be assigned and to be turned in approximately weekly.

Please regularly check CUNY Blackboard for announcements regarding Exams/Homework/Quizzes. Homework will be given at the instructor's discretion. Your lowest Homework/quizz will be dropped. Homework assignments will assist in understanding the material but will NOT be sufficient to learn this material well. You should be doing many more problems.

There will be two term tests. *No make-up tests will be given.* If you miss a test, you must contact me within 24 hours should you wish to have your absence excused. A doctor's note is needed to justify illness. Any student with a *justified* absence during a test will have his or her (*uncurved*) final exam grade count in place of the missed test. You are responsible for the material in the course readings in addition to any material and announcements made during lecture, regardless of whether or not you were in attendance.

|            |     |
|------------|-----|
| Homeworks  | 25% |
| Test 1     | 20% |
| Test 2     | 20% |
| Final Exam | 35% |

OFFICE HOURS: I will be available in our ZOOM meeting room:

<https://zoom.us/my/math.bcc.lejmi>

or

<https://zoom.us/j/8479544062>

during the office hours. You can also send me an email for an appointment.

**ACCOMMODATIONS/DISABILITIES:** BCC 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 DisAbility Services as soon as possible this semester. A Disability Services specialist will work with you to review the barriers you are experiencing and explain the eligibility process for establishing academic accommodations for this course. You can reach DisAbility Services by email at [disabilityservices@bcc.cuny.edu](mailto:disabilityservices@bcc.cuny.edu) or by phone at 718-289-5874. You may also reach DisAbility Services through Microsoft Teams. Download the Teams app, login using your CUNYfirst login, and join the DSO Student Service Center team using the following access code: neewu66.

**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.

**RECORDING OF REMOTE CLASSES:** Students who participate in this class with their camera on or use a profile image are agreeing to have their video or image recorded solely for the purpose of creating a record for students enrolled in the class to refer to, including those enrolled students who are unable to attend live. If you are unwilling to consent to have your profile or video image recorded, be sure to keep your camera off and do not use a profile image. Likewise, students who un-mute during class and participate orally are agreeing to have their voices recorded. If you are not willing to consent to have your voice recorded during class, you will need to keep your mute button activated and communicate exclusively using the "chat" feature, which allows students to type questions and comments live."

**RESOURCES:** Math Tutorial Lab Tutoring Support: Please visit this URL address for informations

<http://www.bcc.cuny.edu/academics/academic-departments/mathematics-and-computer-science-department/academic-advising-tutoring-support-services/>

## TENTATIVE SCHEDULE:

| WEEK | TOPIC   | SUGGESTED PROBLEMS  |
|------|---|---|
| 1    | <ul style="list-style-type: none"> <li>• Sec 1.2: Basics of Functions and their Graphs</li> <li>• Sec 1.3: More on Functions and their Graphs</li> </ul>                                | <ul style="list-style-type: none"> <li>• 1.2: 11-31 (odd), 45, 47, 53-57, 71, 72, 75, 76</li> <li>• 1.3: 11, 15, 17, 23, 69-76, 81</li> </ul>                 |
| 2    | <ul style="list-style-type: none"> <li>• Sec 1.6: Transformation of Functions</li> <li>• Sec 1.7: Combinations/Composition of Functions</li> <li>• Sec 1.8 Inverse Functions</li> </ul> | <ul style="list-style-type: none"> <li>• 1.6: 1-87 (odd)</li> <li>• 1.7: 5-11, 17-33, 81-88</li> <li>• 1.8: 1-5, 11-25, 29-37</li> </ul>                      |
| 3    | <ul style="list-style-type: none"> <li>• Sec 2.2: Quadratic Functions</li> <li>• Sec 2.3: Polynomials Functions</li> </ul>  | <ul style="list-style-type: none"> <li>• 2.2: 9-55 (odd)</li> <li>• 2.3: 3-7, 15-20, 21, 25, 27-33, 37, 39, 41-47</li> </ul>                                  |
| 4    | <ul style="list-style-type: none"> <li>• Sec 2.4: Dividing Polynomials; Remainder/Factor Theorems</li> <li>• Sec 2.5: Zeros of Polynomials</li> </ul>                                   | <ul style="list-style-type: none"> <li>• 2.4: 13, 15, 17-25, 33-41</li> <li>• 2.5: 1-17, 19, 21, 23, 25-31</li> </ul>   |
| 5    | <ul style="list-style-type: none"> <li>• Sec 2.6: Rational Functions</li> <li>• Sec 2.7: Polynomial and Rational Inequalities</li> </ul>  | <ul style="list-style-type: none"> <li>• 2.6: 1-7, 9-14, 21-35, 37, 41, 49, 55, 63</li> <li>• 2.7: 1-23 (odd) 43-45, 55-57, 69, 70</li> </ul>                 |
| 6    | <ul style="list-style-type: none"> <li>• Sec 3.1: Exponential Functions</li> <li>• Sec 3.2: Logarithmic Functions</li> </ul>  | <ul style="list-style-type: none"> <li>• 3.1: 11-17, 19-24, 25-31, 35-37, 41, 43</li> <li>• 3.2: 1-29, 43, 44, 47-53, 55, 59, 63, 71, 75-79, 81-89</li> </ul> |
| 7    | <ul style="list-style-type: none"> <li>• Sec 3.3: Properties of Logarithmic Functions</li> <li>• Sec 3.4: Exponential and Logarithmic Equations</li> </ul>                              | <ul style="list-style-type: none"> <li>• 3.3: 1-27, 35, 37, 41-57, 67, 71-77</li> <li>• 3.4: 1-21, 27-43, 49-57, 67-69, 85, 87</li> </ul>                     |

| <b>WEEK</b> | <b>TOPIC</b>   | <b>SUGGESTED PROBLEMS</b>  |
|-------------|--|--|
| 8           | <ul style="list-style-type: none"> <li>• Sec 4.1: Angles and Radian Measure</li> <li>• Sec 4.2: Trig Functions: Unit Circle</li> </ul>   | <ul style="list-style-type: none"> <li>• 4.1: 1-10, 13-28, 41-56, 60-63</li> <li>• 4.2: 1-55</li> </ul>              |
| 9           | <ul style="list-style-type: none"> <li>• Sec 4.3: Right triangle trigonometry</li> <li>• Sec 4.4: Trig functions of any angle</li> </ul> | <ul style="list-style-type: none"> <li>• 4.3: 3-15, 21-31</li> <li>• 4.4: 1-21, 23-17, 35-43, 61-73</li> </ul>       |
| 10          | <ul style="list-style-type: none"> <li>• Sec 4.5: Graphs of Sine and Cosine</li> <li>• Sec 4.7: Inverse Trig Functions</li> </ul>        | <ul style="list-style-type: none"> <li>• 4.5: 1-25 (odd), 43-49</li> <li>• 4.7: 1-11, 19-41, 47-53, 63-67</li> </ul> |
| 11          | <ul style="list-style-type: none"> <li>• Sec 5.1: Verifying Trig Identities</li> <li>• Sec 5.2: Sum Difference Formula</li> </ul>        | <ul style="list-style-type: none"> <li>• 5.1: 1-35</li> <li>• 5.2: 1, 3, 5, 13, 15, 21, 23, 33, 35</li> </ul>        |
| 12          | <ul style="list-style-type: none"> <li>• Sec 5.5: Trigonometric Equations</li> </ul>   | <ul style="list-style-type: none"> <li>• 5.5: 11, 15, 19, 25, 39, 41, 57, 59</li> </ul>                              |
| 13          | <ul style="list-style-type: none"> <li>• Review</li> </ul>   | <ul style="list-style-type: none"> <li>• Review</li> </ul>   |