# MATH 4080, Section 1  — Spring, 2020

**M W F  9:10 - 10:05 a.m.,   Dunn Hall 203 (or Zoom)**

**Instructor:**   Dr. Ben McCarty

| | |
|---|---|
| Office: | DH 345 |
| Email: | bmmccrt1@memphis.edu |
| Office hours: | Held by appointment, via zoom |

**Prerequisites:** MATH 4082 with a minimum grade of C-, with a Corequisite of ICL 4080.

**Goals:** This course focuses on the content knowledge needed to teach high school mathematics. As part 1 of 2, this course will focus on the real number system, the system of complex numbers, algebraic expressions, equations, and inequalities. In particular, since Tennessee has adopted the Common Core State Standards for Mathematics (and despite the name change, still uses them), we will spend time studying the first curriculum written based upon those standards, the Eureka Mathematics Curriculum (a.k.a. the EngageNY Curriculum).

**Texts:** Eureka Math (various). While you can purchase hardcopies of these materials if you wish, I recommend that instead you go to www.GreatMinds.org, register for a free account, and download the modules in PDF format. It is free to do so, and the PDFs will contain all of the requisite material. We may also reference the Common Core State Standards and the associated progressions. These materials are available free online, and links will be provided as needed.

**Expectations:** This course depends on interaction. As such, attendance (in-person or via zoom) is mandatory (though some accommodations are possible on a case-by-case basis). Most of our classes will consist of problem solving, presentations of solutions, and general discussion. While I will present new concepts and lead discussions, my goal is for you to spend much of the class time working together to solve problems. There will also be homework sets in which you spend time studying the Eureka Mathematics curriculum and solving problems. These will be assigned roughly once a week, and may be discussed in class, or eCourseWare as time allows.

**Grading Policy:** Grades will be based on your in-class and online presentations and participation, graded homework, and 2 exams.

| **Grade Breakdown:** | | |
|---|---|---|
| | 25 % | Final Exam |
| | 40 % | Homework |
| | 10 % | In-Class Presentations |
| | 25 % | Midterm Exam |

The grading scale (rounded to the nearest whole number) is straightforward:

$$90\% - 100\% \ : \ A \qquad 80\% - 89\% \ : \ B$$
$$70\% - 79\% \ : \ C \qquad 60\% - 69\% \ : \ D$$
$$0\% - 59\% \ : \ F$$

**Other Miscellany:**   I will send out email emails from time to time with announcements and/or supplemental materials. Be sure that you check your Memphis email daily (or have it forwarded to your preferred email address) and to regularly check eCourseware.

**Make-up Policy:**   At the discretion of the professor.

**Written Assignments and Academic Misconduct:**   All written work submitted must be the student's original work. This means that any substantive ideas, phrases, sentences, and/or any published ideas must be properly referenced to avoid even the appearance of plagiarism. It is the student's responsibility to know all relevant university policies concerning plagiarism.

Student's written work may be submitted to Turnitin.com, or a similar electronic detection method, for an evaluation of the originality of ideas and proper use and attribution of sources. As part of this process, students may be required to submit electronic as well as hard copies of their written work, or be given other instructions to follow. Students taking this course agree that all assignments may undergo this review process and that the assignment may be included as a source document in Turnitin.com's restricted access database solely for the purpose of detecting plagiarism in such documents. Any assignment not submitted according to the procedures given by the instructor may be penalized or may not be accepted at all.

Any documented cases of plagiarism can and will result in dismissal from the course with a failing grade, and may result in other more serious sanctions by the College of Arts and Sciences.

**Important dates:**

- For holidays/university closures, see
  http://www.memphis.edu/registrar/calendars/academic/ay2021.php