Syllabus – MA 150 – Mathematics for the Elementary Teacher School I

Class Time and Location:
11:00 AM, Section 02: call #10391 M T W R; Room: West Science – 3806
1:00 PM, Section 01: call #10390 M T W R; Room: West Science – 3806

Instructor: Roger Contois (rcontois@nmu.edu)
Office & Phone: Office – Jamrich – 2227; Phone – 227-1885 or 227-2020 (math office)
Home Phone (Evenings) 228-8211
Office Hours: 12:00-12:50 PM – MTWR; or by appointment. Walk-ins welcome.

Prerequisites:
MA 100 passed with C or better, or satisfactory score on the math placement exam.

Course Description:
This course is designed to examine elementary school mathematics from an advanced standpoint. The emphasis is on the development of the system of real numbers and the language, models, concepts, and operations associated with them. Quantitative thinking skills are developed through applications and problem solving situations.

Course Goals:
1. Mathematical problem solving: You will become a more powerful and more confident problem-solver.
2. Mathematical reasoning and proof: Your ability to use reasoning – deductive, inductive, and intuitive – will grow, and you will be able to explain your solution paths.
3. Mathematical communication: You will appreciate the role of discussion in learning mathematics, and you will appreciate the value of vocabulary and notation as tools, which makes communication easier.
4. Mathematical connections: You will be more aware of connections between various mathematical topics and connections between mathematics and other areas.
5. Mathematical representation: You will increase your ability to represent problems in effective ways.

Required Materials:
Scientific Calculator: You MUST supply your own. You will not be able to use (share) with another classmate nor will you be allowed to use a cell phone.
An NMU email address; I will use your NMU e-mail address for correspondence. Check it regularly.
You must have access to https://educat.nmu.edu/ I will use it for course material as well as course instructions.

Attendance:
Attendance is required and will be taken daily. In case of an illness or other emergency that would result in class absence, you will be responsible for keeping up with assignments. Documentation will be required for excused absences. Use e-mail to let me know. If you call to explain the absence, it may be considered an ‘excused’ absence. Your final grade will partly reflect your attendance record.

Assignments:
Homework will be assigned daily and must be completed daily to get full benefit of the course. You should keep homework problems in one notebook and class notes in another. Show work whenever possible. Answers without work are usually not acceptable and may not receive full or even partial credit. Homework may be collected periodically and counted as a quiz. Assignments turned in late (if accepted) will receive point deductions and must be turned in by the beginning of the next class meeting in order to receive any credit.

Tests & Quizzes:
Quizzes will be given and not necessarily announced. There may be group-work problems and graded take-home assignments. Quiz questions will, most often, come directly from homework assignments and your homework notebook is the ONLY access you will have to those problems. (So, do your homework in a notebook separate from your book and class notes!) The graded homework and quiz grades will be combined to form a grade. It will be based on percent and therefore count as a total of 100 points.

Dates for tests will be announced in class. There will be 4 – 6 tests given during the semester. Tests will cover reading, homework, and concepts discussed in class and will be worth a total 100 points. You must take the tests at their scheduled times and no make-up is possible for any test unless you notify me before test time and you are
A documented excuse upon your return is necessary in order to take a make-up test. No test scores will be dropped. Grades on quizzes and tests are “not curved”.

Grading Scale:

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<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>A</td>
<td>93-100%</td>
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<tr>
<td>A-</td>
<td>90-92%</td>
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<tr>
<td>B+</td>
<td>87-89%</td>
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<tr>
<td>B</td>
<td>83-86%</td>
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<tr>
<td>B-</td>
<td>80-82%</td>
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<tr>
<td>C+</td>
<td>77-79%</td>
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<tr>
<td>C</td>
<td>73-76%</td>
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<tr>
<td>C-</td>
<td>70-72%</td>
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<tr>
<td>D+</td>
<td>67-69%</td>
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<tr>
<td>D</td>
<td>63-66%</td>
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<tr>
<td>D-</td>
<td>60-62%</td>
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<td>F</td>
<td>&lt;60%</td>
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Notes:
1. Most of the assessment is through written work. However, instructor observations of individuals in the group-work process and class participation play a role in evaluation.
2. Remember: By College of Education rules, you need a grade of C or better in MA 150 in order to take MA 151.

Material to be covered:

Chapters 1 – 6 of the text.

Final Exam:
Only students who have taken all major exams will be admitted to the final exam.
There will be a comprehensive final exam during the last week of class and will be equivalent to 2 tests or 200 points.

Final exam date:
- 11:00 AM Class – Thursday, April 30, 2015; 10:00 – 11:50 AM, Jamrich, Room 3806
- 1:00 PM Class – Wednesday, April 29, 2015; 12:00 – 1:50 PM, Jamrich, Room 3806

Extra Help:
Please let me know in advance when you need help. If I am not in my office during office hours, call me at home at 228-8211 (also check with the math department secretary) and I will come in to meet you. Tape recording is permitted and study-groups are strongly recommended.

The Math Lab will be open by the second week of the semester. The schedule will be posted on the door of the Math Lab as well as in the Math Office.

I prefer you see me before or after class (or during office hours) if you have questions or concerns about the material or the class in general. If you need to see me at other times, please get in touch with me to make an appointment. You do not need an appoint to come to my office during office hours. If you come at other times and I am there, I will be glad to meet with you.

Disability Statement
If you have a need for disability-related accommodations or services, please inform the Coordinator of Disability Services in the Disability Services Office at 2001 C. B. Hedgcock (227-1700). Reasonable and effective accommodations and services will be provided to students if requests are made in a timely manner, with appropriate documentation, in accordance with federal, state, and University guidelines.

Non-Discrimination Policy
Northern Michigan University does not unlawfully discriminate on the basis of ancestry, race, color, ethnicity, religion or creed, sex or gender, gender identity, gender expression, genetic information, national origin, age, height, weight, marital status, familial status, handicap/disability, sexual orientation, military or veteran status, or any other characteristic protected by federal or state law in employment or the provision of services. NMU provides, upon request, reasonable accommodation including auxiliary aids and services necessary to afford individuals with disabilities an equal opportunity to participate in all programs and activities.

Anyone having civil rights inquiries may contact the Equal Opportunity Office, 502 Cohodas Hall, telephone number 906-237-2420.