**FOUNDATIONS OF ELEMENTARY SCHOOL MATHEMATICS**  
MATH 201 Course Schedule, All Sections, Spring 2015

Week 1, Week of January 12

Introduction of course syllabus and course materials  
In the textbook, mark Selected Answers for Learning Exercises on pages A-1 to A-39

**The Computational Assessment will be given on the first class session of Week 3.**  
In preparation for the Computational Assessment, **review and work through Appendix F**, “A Review of Some Rules” which is found on the course web page (http://www.math.niu.edu/courses/math201).  
Download a copy of the **Practice Computational Assessment (and answers)** from the course web page. Complete the practice assessment after working through Appendix F.

**Assignment to be ready for Week 2:** Read pages 373–378 and pages 387–389. In Chapter 16, study the definitions for all terms. To study, you may use the Gradable Vocabulary Flashcards for Chapter 16 at http://www.whfreeman.com/reconceptmath2e

**Assignment to be ready for Week 3:** In Section 17.2, complete Activity 3 Fold Them Up (preliminary homework activity). Find the nets in Masters section at the back of the textbook. Make one copy of the nets labeled A through G, I, N, and O. Cut out the copies and construct the polyhedra. These polyhedra and a container to hold them are for use with Section 17.2 **Note: This is a class requirement. (It is not optional.)**

**Section 12.3 (Numerical Patterns and Algebra)**

- Assignment: Read “Message to Prospective and Practicing Teachers” at the beginning of your textbook
- Assignment: Learning Exercises for Section 12.3 #1, 2, 3 (parts a and b)

**Section 12.4 (Functions and Algebra) through Example 20 and Learning Exercises for Section 12.4 #3, 4, 7, 9, 20**

- Assignment: Learning Exercises for Section 12.4 #1, 2, 5, 6, 8, 10
- Assignment: Section 12.7 Check Yourself #5-8

**Section 13.2 (Slope)**

- Assignment: Learning Exercises for Section 13.2 #1, 3, 4, 5, 10
- Assignment: Section 13.6 Check Yourself #4-8

**Reminder: Assignment to be ready for Week 2:** Read pages 373–378 and pages 387–389. In Chapter 16, study the definitions for all terms. To study, you may use the Gradable Vocabulary Flashcards for Chapter 16 at http://www.whfreeman.com/reconceptmath2e

**Reminder: Assignment to be ready for Week 3:** In Section 17.2, complete Activity 3 Fold Them Up (preliminary homework activity). Find the nets in Masters section at the back of the textbook. Make one copy of the nets labeled A through G, I, N, and O. Cut out the copies and construct the polyhedra. These polyhedra and a container to hold them are for use with Section 17.2 **Note: This is a class requirement. (It is not optional.)**

**Quiz 1**

Week 2, Week of January 20:

**Monday January 19, Martin Luther King Jr. Day, NIU is closed**

**Section 16.1 (Review of Polygon Vocabulary) and Learning Exercises for Section 16.1 #11**

- Assignment: Learning Exercises for Section 16.1 #1, 2, 5 (part a), 6, 10, 14, 15, 20, 21

**Section 16.2 (Organizing Shapes)**

- Assignment: Learning Exercises for Section 16.2 #1, 2, 4

(Week 2 Continued on next page)
Week 2 (Continued)

Section 16.3 (Triangles and Quadrilaterals) and Learning Exercises for Section 16.3 #1, 2
Assignment: Learning Exercises for Section 16.3 #6
Assignment: Section 16.5 Check Yourself, all items

Reminder: The Computational Assessment will be given during the first class session next week
Reminder: Assignment to be ready for Week 3: In Section 17.2, complete Activity 3 Fold Them Up (preliminary homework activity). Find the nets in Masters section at the back of the textbook. Make one copy of the nets labeled A through G, I, N, and O. Cut out the copies and construct the polyhedra. These polyhedra and a container to hold them are for use with Section 17.2 Note: This is a class requirement. (It is not optional.)

Quiz 2

Week 3, Week of January 26

Computational Assessment (1/2 hour maximum)

Section 17.1 (Faces and Nets)
Assignment: Learning Exercises for Section 17.1 #1, 3, 5, 6

Section 17.2 (Introduction to Polyhedra)
Assignment: Learning Exercises for Section 17.2 #1, 7, 9, 13
Assignment: Section 17.7 Check Yourself, all items
Assignment: Bring a protractor to class next week.

Section 23.1 (Key Ideas of Measurement) and Learning Exercises for Section 23.1 #2, 6, 7, 12, 16
Assignment: Learning Exercises for Section 23.1 #5, 18, 22
Assignment: Read pages 525-529
Assignment: Read Appendix G “Using a Protractor to Measure Angle Size” which is found on the course web page (http://www.math.niu.edu/courses/math201)
Reminder: Bring a protractor to the next class session.
Assignment to be ready for Week 6: At the back of your textbook, look for the base pieces. Make a copy of the base four materials, cut them out, and put them in a zip lock bag. Label the bag “Base four.” Do the same for base five and base ten pieces. These materials will be used in Section 2.4. Note: This is a class requirement. (It is not optional.)
Reminder: Exam 1 will be given during your last class session next week.

Quiz 3

Week 4, Week of February 2

Section 23.2 (Length and Angle Size) and Learning Exercises for Section 23.2 #1, 5, 9, 21, 22, 24 (first diagram)
Assignment: Learning Exercises for Section 23.2 #12 (parts a, b, c, d), 14, 25 (parts b, c, e, f), 30, 35
Assignment: Section 23.4 Check Yourself, all items
Reminder: Study for Exam 1.

Section 24.1 (Area and Surface Area; Exclude Discussion 4 and Example 2) and Learning Exercises for Section 24.1 #11 (parts a and c), 12 (parts a, b), 14 (part a)
Assignment: Learning Exercises for Section 24.1 #12 (parts c, d, e, f, g), 17, 26, 28

Exam 1
Week 5, Week of February 9

<table>
<thead>
<tr>
<th>Section 24.2 (Volume; End with Discussion 7) and Learning Exercises for Section 24.2 #14 (part a)</th>
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<tbody>
<tr>
<td>Assignment: Learning Exercises for Section 24.2 #1, 2, 13, 14 (parts b and c)</td>
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<tr>
<td>Assignment: Section 24.4 Check Yourself, #1-3, 5-7</td>
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<tr>
<th>Section 25.1 (Circumference, Area, and Surface Area Formulas; Exclude sphere) and Learning Exercises for Section 25.1 #2 (parts c and d), 5, 16 (part a), 18 (parts a, c, g, iii for c, g)</th>
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</thead>
<tbody>
<tr>
<td>Assignment: Learning Exercises for Section 25.1 #1, 2 (parts a and b), 13, 14, 18 (parts b, d, h)</td>
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<table>
<thead>
<tr>
<th>Section 25.2 (Volume Formulas; Exclude sphere and Example 3)</th>
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<tbody>
<tr>
<td>Assignment: Learning Exercises for Section 25.2 #1, 2, 5 (parts a, c)</td>
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<tr>
<td>Assignment: 25.4 Check Yourself, all items</td>
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Reminder: Assignment to be ready for Week 6: At the back of your textbook, look for the base pieces. Make a copy of the base four materials, cut them out, and put them in a zip lock bag. Label the bag “Base four.” Do the same for base five and base ten pieces. These materials will be used in Section 2.4. Note: This is a class requirement. (It is not optional.)

Quiz 4

Week 6, Week of February 16

<table>
<thead>
<tr>
<th>Section 26.1 (Pythagorean Theorem; Exclude Examples 2 and 3 and Activity 2) and Learning Exercises for Section 26.1 #1, 2, 14</th>
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<tbody>
<tr>
<td>Assignment: Learning Exercises for Section 26.1 #3, 10, 18</td>
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<tr>
<td>Assignment: Section 26.3 Check Yourself, #1</td>
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<tr>
<th>Section 2.2 (Place Value), and Learning Exercises for Section 2.2 #1</th>
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<tr>
<td>Assignment: Learning Exercises for Section 2.2 #2, 5, 8</td>
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<tr>
<th>Section 2.3 (Bases Other than Ten; Exclude Activity 4)</th>
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<tbody>
<tr>
<td>Learning Exercises for Section 2.3 #2, 3 (parts a, b, c), 5 (parts a, b), 9, 17 (part b), 18 (part a)</td>
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Quiz 5

Week 7, Week of February 23

<table>
<thead>
<tr>
<th>Section 2.4 (Operations in Different Bases)</th>
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<tbody>
<tr>
<td>Learning Exercises for Section 2.4 #2 (parts a, c), 4 (part a), 5 (part c)</td>
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<tr>
<td>Assignment: Section 2.6 Check Yourself #1-5, 7-8.</td>
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<tr>
<th>Section 3.4 (Thinking about Multiplication) Exclude Activity 9, but include the discussion of the commutative, associative, and distributive properties</th>
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<tbody>
<tr>
<td>Assignment: Learning Exercises for Section 3.4 #1 (parts a and b), 3, 9 (part a), 10 (part a)</td>
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<tr>
<th>Section 3.5 (Thinking about Division)</th>
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<tr>
<td>Assignment: Learning Exercises for Section 3.5 #4, 6, 8 (parts a, b, c, and d)</td>
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<tr>
<th>Section 4.1 (Operating on Whole Numbers and Decimals) and Learning Exercises for Section 4.1 #1 (parts a and c)</th>
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<tr>
<td>Assignment: Section 3.8 Check Yourself #4, 7</td>
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<tr>
<td>Assignment: Section 4.3 Check Yourself #1, 2, 3</td>
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Reminder: Exam 2 will be given during next week.

Quiz 6
Week 8, Week of March 2

Chapter 6 Introduction, Section 6.1 (Understanding the Meaning of a/b), and Learning Exercises for Section 6.1 #22 (parts a, b, c, d)

Assignment: Learning Exercises for Section 6.1 #2, 3 (part b), 10 (part a), 11, 21

Section 6.2 (Equivalent Fractions)
Assignment: Learning Exercises for Section 6.2 #5 (parts a, b, c, and d), 6 (parts a, b, and c)

Section 6.3 Relating Fractions, Decimals and Percents
Assignment: Learning Exercises for Section 6.3 #1, 2 (parts a-e), 3, 4 (parts a-b), 8, 9, 10 (parts a, b).

Section 6.4 (Estimating Fractional Values), and Learning Exercises for Section 6.4 #5, 6, 12, 17
Assignment: Learning Exercises for Section 6.4 #1, 3, 4, 11 (parts a-d), 16
Assignment: Section 6.6 Check Yourself, all items

Exam 2
Note: The last day to withdraw from this course without penalty is Friday March 6, 2015.


Week 9, Week of March 16

Section 7.1 (Adding and Subtracting Fractions)
Assignment: Learning Exercises for Section 7.1 #2, 3, 8, 10, 15
Assignment: Learning Exercises for Section 7.2 #1, 2, 5, 6, 12 (parts a, b), 15 (parts a, b), 18

Section 7.2 (Multiplying Fractions), and Learning Exercises for Section 7.2 #8, 9
Assignment: Learning Exercises for Section 7.2 #1, 2, 5, 6, 12 (parts a, b), 15 (parts a, b), 18

Quiz 7

Week 10, Week of March 23

Section 9.2 (Comparing Ratios; Exclude Activity 3) and Learning Exercises for Section 9.2 #18, 19
Assignment: Learning Exercises for Section 9.2 #1 (parts a, b), 2 (parts a, b), 5, 8, 9, 11, 12, 13

Section 9.3 (Percents in Comparisons and Changes) and Learning Exercises for Section 9.3 #5, 6, 8, 11, 15
Assignment: Learning Exercises for Section 9.3 #1, 2, 4 (parts a, b, c), 9, 14, 16, 20, 21
Assignment: Section 9.6 Check Yourself #3-9

Quiz 8

Week 11, Week of March 30

Section 27.2 (Assigning Probabilities) and Learning Exercises for Section 27.2 #4, 5, 6, 12, 13
Assignment: Learning Exercises for Section 27.2 #7, 9, 14, 16, 19

Section 27.3 (Simulating Probabilistic Situations) and Learning Exercises for Section 27.3 #1, 2
Assignment: Learning Exercises for Section 27.3 #5
Assignment: Section 27.5 Check Yourself #2-8, 10

Section 28.1 (Tree diagrams and Lists for Multistep Experiments) and Learning Exercises for Section 28.1 #2, 3
Assignment: Learning Exercises for Section 28.1 #7, 8

Quiz 9
Week 12, Week of April 6

Section 29.1 (What Are Statistics)

Assignment: Learning Exercises for Section 29.1 #2, 3

Section 29.2 (Sampling: The Why and the How Through Random Sample p. 662)

Assignment: Learning Exercises for Section 29.2 #9

Section 30.1 (Representing Categorical Data), and Learning Exercises for Section 30.1 #1, 7

Assignment: Learning Exercises for Section 30.1 #6, 8

Section 30.3 (Examining the Spread of Data), and Learning Exercises for Section 30.3 #2, 3, 7

Assignment: Learning Exercises for Section 30.3 #6, 16, 17

Reminder: Exam 3 will be given next week

Quiz 10

Week 13, Week of April 13

Section 30.4 (Measures of Center), and Learning Exercises for Section 30.4 #4, 15, 16

Assignment: Learning Exercises for Section 30.4 #7, 8, 9

Section 30.6 (Examining Distributions) Exclude Discussion 12

Assignment: Learning Exercises for Section 30.6 #4, 11, 14, 16

Assignment: Section 30.8 Check Yourself, all

Exam 3

Week 14, Week of April 20

Section 31.1 (Dealing with Multiple Data Sets or with Multiple Variables) p. 725 after Activity 1 through p. 729

Warning

Assignment: Learning Exercises for Section 31.1 #8

Quiz 11

Week 15, Week of April 27

Section 31.2 (Lines of Best Fit and Correlation)

Assignment: Learning Exercises for Section 31.2 #2, 3, 5

Assignment: Section 31.4 Check Yourself, all

Section 32.1 (Having Confidence in a Test Statistic) pp. 749-750 and pp. 755-756

Assignment: Learning Exercises for Section 32.1 #6, 7

Assignment: Section 32.4 Check Yourself #1, 2

Section 33.1 (Expected Value)

Assignment: Supplementary Learning Exercises for Section 33.1 #3

In preparation for the final exam review, review all quizzes and exams and bring them to class.

Review for Final Exam

Final Exam is on Thursday May 7, from 8:00 – 9:50 AM.

Location to be announced.