

<p>Instructor: & Learning Assistants:</p>	<p>Instructor: Harry Bray hbray@gmu.edu he/him/his Learning assistants: Ally Trainor (she/her/hers) and Danielle Gazes Office hours by appointment.</p>
<p>Required Materials:</p>	<ol style="list-style-type: none"> 1. Custom bundle of Bennett’s <i>Mathematics for Elementary Teachers: A Conceptual Approach</i>, which includes a physical manipulative kit and an incorporated subscription to an online ebook and learning software, "Connect." Both parts of this are required components in this course. There is a way to purchase a physical loose leaf version of the text once you’ve payed for the online access. This will be posted. 2. Every Day Materials: colored pencils or pens, blank paper, lined paper, graph paper, glue stick and/or tape, ruler with cm and in, a small stapler, and scissors 3. Special Occasion Materials: a bunch of coins (~ 20 pennies, 10 nickels, 12 dimes and 10 quarters) many pencils and some rubberbands or small pony tail holders! 4. Technology: High Speed reliable internet and a computer capable of doing online synchronous video meetings as well as watching numerous prerecorded videos and using the online learning system from the text book publisher (Connect), access to a printer at least once a week, If you cannot access a quiet space for class, having a headset with a microphone reduces the background noise when you are speaking in class.
<p>Course Description:</p>	<p>Concepts and theories underlying elementary school mathematics, including sets, logic, systems of numeration, whole numbers, integers, fractions, decimals, measurement, operations with real numbers, equations, and inequalities. Intended for school educators; does not count toward a major in mathematics. All students will be required to do basic computations without the use of any calculator. THIS IS NOT A TEACHING METHODS COURSE!!! This is a MATH CONTENT course.</p>
<p>Preparedness / Collaboration:</p>	<p>In this course, we will spend almost all of our time exploring mathematical ideas in groups. In order to make this course function, I need everyone to come prepared for class each day, and think carefully about how to make your group a great place to work and learn. Being prepared means:</p> <ul style="list-style-type: none"> • Doing all assigned readings & watching all videos before class and bringing notes to class • Asking questions about homework and concepts before coming to class / on the discussion board • Bringing all necessary materials to class, as instructed <p>Collaborating in class means:</p> <ul style="list-style-type: none"> • Making thoughtful contributions to the group discussions and activities • Staying on task • Being an active listener • Being on time and staying engaged for the entire class • Turning in any collaborative work completed during class. <p>Your classwork grade will be based on my observations of you with your group members, along with self and peer evaluations, and assignments completed collaboratively in class.</p>
<p>Reading</p>	<p>Reading your conceptual textbook will be vital in this course. Some tips include:</p> <ul style="list-style-type: none"> • Reading should be active – read with a pencil, make notes, and answer the questions asked in the text. • Read each section we are to cover PRIOR to attending the class. Reading notes are checked as prep work sporadically throughout the term. We will use LearnSmart to facilitate this on many occasions. • Mark anything you have questions about with a sticky note and then come ask one of us about them. Be sure to write yourself notes about what we find together. • If it works for you, consider keeping a notebook of notes from your reading.
<p>In Class Work:</p>	<p>As noted above, we will be actively collaborating on mathematical tasks and activities during class. Many of these activities and tasks will have a final product that will be collected at the end of the class period. If you miss class, you miss the opportunity to turn these assignments in. Pop quizzes will be given randomly, to be counted as an in-class grade.</p>
<p>Out of Class Work: Homework and Prep work</p>	<p>There is prep work almost every day in this class, it is described on Blackboard. Homework will be assigned out of the book, online, or in handouts. Book homework will be collected the class after it is assigned and covered. Paper homework is not to be completed before the class that covers that topic, as there may be additional steps that are required to get full credit that will be clarified in class. Work on Connect will be a significant component.</p>

Exams & Final:	There are 3 exams in this course, and one comprehensive final exam.	
Requirements and Grading:	3 Unit Tests	10% EACH, so 30%
	Final	20%
	Paper/ Written Homework & Prepwork Average	10%
	Connect HW, LearnSmart & Connect Quizzes	20%
	Paper Quizzes Average	10%
	Classwork and Collaboration Average	10%
Scale:	100-90%	A
	89.9-80%	B
	79.9-70%	C
	69.9-60%	D
	59.9-0%	F
	+/- will be based on grade distribution	
Academic dishonesty and the GMU Honor Code:	<p>You are expected to follow the GMU Honor Code https://oai.gmu.edu/mason-honor-code/</p> <p>No collaboration is allowed on quizzes or tests. Any indication that you have worked together, used someone else's ideas, copied, or allowed fellow student to copy your work is a violation of the GMU Honor Code. Please make sure you are clear on which assignments can be done collaboratively. If it is not stated specifically, then collaboration is not allowed.</p> <p>Some of the behaviors that will be considered cheating are:</p> <ul style="list-style-type: none"> • Communicating with another person during an assessment • Copying material from another person from any assignment being graded • Allowing another person to copy from any assignment being graded • Use of unauthorized assistance on any assignment being graded • Use of unauthorized notes, books, calculators or cellphones during an assessment • Providing or receiving a copy of a quiz or exam used in the course 	
Learning Differences & Special Needs	If you have a learning or physical difference that may affect your academic work, please see me and contact the Office of Disability Services (ODS) at 993-2474, http://ods.gmu.edu . All academic accommodations must be arranged through the ODS.	
Counseling and Psychological Services	Counseling and Psychological Services are available for GMU students. http://caps.gmu.edu 703-993-2380	
Equity and Inclusion:	George Mason University is an intentionally inclusive community that promotes and maintains an equitable and just work and learning environment. We welcome and value individuals and their differences including race, economic status, gender expression and identity, sex, sexual orientation, ethnicity, national origin, first language, religion, age, and disability. Please email me if you have any concerns about any feeling of inequity in this course.	
University Policies	The University Catalog, http://catalog.gmu.edu , is the central resource for university policies affecting students, faculty and staff conduct in university academic affairs. Other policies are available at http://universitypolicy.gmu.edu/ . All members of the university community are responsible for knowing and following established policies.	

The homework assignments will be posted as we go. You are responsible for keeping up with any changes, so if you miss class you need to get the information from one of your group members or classmates well in advance of the next class. all work.

A tentative schedule is posted below.

Day	Date	TENTATIVE SCHEDULE	Topic/Section	Manipulatives Needed – Check Bb
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1	T	8/25	Hello, Zoom, Jamboard, Patterns and Sequences	Punch out Color tiles 
2	TR	8/27	1.2 – Patterns and Sequences	Color tiles 
3	T	9/1	1.1 – Problem Solving	Color tiles 
4	TR	9/3	2.1 – Sets and Venn Diagrams	Punch out attribute pieces
5	T	9/8	2.3 – Euler Diagrams and Logic	Quiz likely today on Sets and Venn
6	TR	9/10	3.1 – Numeration Systems and Place Value	The coins listed on your syllabus, all base blocks,  place value charts
7	T	9/15	Counting Quiz , measurement, dimensional analysis	Coins, ruler, measuring tape
8	TR	9/17	Combining and Review	The worked review posted on Bb and all listed above EXAM 1 Due: Likely Sunday
9	T	9/22	Addition Stations	Coins and base blocks
10	TR	9/24	Subtraction	Coins and base blocks
11	T	9/29	5.1 – Addition and Subtraction of Integers	Red and black tiles
12	TR	10/1	3.3, 5.1 – Multiplication of Natural Numbers & Integers	Base 10 blocks, two color counters
13	T	10/6	3.4, 5.1 – Division of Natural Numbers & Integers	Base 10 blocks and two-color counters
14	TR	10/8	Review	The worked review posted on Bb, all listed above EXAM 2 Likely Due on Sunday
	T	10/13	Mason Holiday (No Tuesday classes, Monday classes meet Tuesday)	Indigenous People's Day
15	TR	10/15	4.1 & 4.2–Factors, Multiples, Greatest Common Factor and Least Common Multiple	
16	T	10/20	5.2 – Rational Numbers GCF & LCM QUIZ	Fraction bars
17	TR	10/22	5.3 – Multiplication of Rational Numbers	Mixed Numbers video on Bb. Fraction bars
18	T	10/27	5.3 – Division of Rational Numbers	Fraction bars
19	TR	10/29	5.3 – Addition and Subtraction of Rational Numbers QUIZ LIKELY on 5.2 and 5.3	Fraction bars
20	T	11/3	Review	
21	TR	11/5	Test/ Exam 3	
22	T	11/10	6.1 – Decimals and Rational Numbers	Bring Base 10 Blocks and Fraction pieces
23	TR	11/12	6.2 – Decimal Operations	
24	T	11/17	6.3 – Percent	Base 10 blocks and fraction pieces.
25	TR	11/19	6.4 – Irrational Numbers	Geoboards/ dot paper
26	T	11/24	Quiz or project due	Thanksgiving 11/26
28	T	12/1	Final Review	
28	TR	12/3	Final Review	
			CUMULATIVE FINAL TBA	