Marshall University
MTH 100 Syllabus

Course Title/Number	Preparation for College Mathematics A MTH 100
Semester/Year	Fall 2015
Section/CRN	100-108/2982
Days/Time	TR 11:00am-12:15pm
Location	CH 332
Instructor	Melinda Bierhals
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University Policies	By enrolling in this course, you agree to the University Policies listed below. Please read the full text of each policy by going to www.marshall.edu/academic-affairs and clicking on "Marshall University Policies." Or, you can access the policies directly by going to www.marshall.edu/academic-affairs/policies/. Academic Dishonesty/Excused Absence Policy for Undergraduates/Computing Services Acceptable Use/Inclement Weather/Dead Week/Students with Disabilities/Academic Forgiveness/Academic Probation and Suspension/Academic Rights and Responsibilities of Students/Affirmative Action/Sexual Harassment

Course Description: From Catalog

A mastery-based course that will prepare non-STEM students for college mathematics courses required in their major. Math ACT 18 or below.

This course is intended to prepare students for MTH 121 or MTH 125. It will not prepare students for courses that use algebra, MTH 127, MTH 130, or MTH 160. Students who have Math ACT 17 or 18 may go directly to MTH 121B. After completing MTH100, students who need MTH 127, MTH 130, or MTH 160 should enroll in MTH 102B.

The Modified Math Emporium Format

The format of this course is known as a modified math emporium. Math emporia have been shown to be more effective than traditional lecture-based courses in a number of colleges and universities across the country in the last decade. Studies have shown that when students actively engage with course material, on average they have higher rates of achievement of intended learning outcomes as well as higher course completion rates. The emporium model is based on mastery learning, promotes active learning, and provides flexibility in the pace at which students move through content, allowing students to cover familiar material quickly so that they can spend more time on topics that are more challenging for them. The format features timely personal assistance from the instructor, coupled

with interactive computer technology for instruction, and assessment with immediate feedback. The interactive computer technology provides a nearly unlimited variety of practice examples, step-by-step guidance, and customized review support.

Note: Although this course involves computer-assisted instruction, it is not a distance learning or online course, nor is it an independent study.

The table below shows the following relationships: How each student learning outcome will be practiced and assessed in the course.

Course Student Learning Outcomes	How students will practice each outcome in this Course	How student achievement of each outcome will be assessed in this Course
Students will be able to identify different sets of numbers, recognize the properties of these sets, and compute results using elements of these sets.	Both outside and inside the classroom, students will practice to master these concepts. These ideas are covered in Modules A, B, C, and E.	Students must certify in each lesson at the mastery level with a minimum grade of 80%. Students must demonstrate mastery of 80% on a module exam and take a comprehensive final exam.
Students will convert numbers to different forms after determining the most appropriate form for an application.	Both outside and inside the classroom, students will practice to master these concepts. These ideas are covered in Module B, C, D, and E.	Students must certify in each lesson at the mastery level with a minimum grade of 80%. Students must demonstrate mastery of 80% on a module exam and take a comprehensive final exam.
Students will develop a facility in using measurements used in real-world applications.	Both outside and inside the classroom, students will practice to master these concepts. These ideas are covered in Module D and F.	Students must certify in each lesson at the mastery level with a minimum grade of 80%. Students must demonstrate mastery of 80% on a module exam and take a comprehensive final exam.
Students will apply the properties of algebra to solve simple problems.	Both outside and inside the classroom, students will practice to master these concepts. These ideas are covered in Module E.	Students must certify in each lesson at the mastery level with a minimum grade of 80%. Students must demonstrate mastery of 80% on a module exam and take a comprehensive final exam.
Students will learn the basics of statistics and interpretation of graphs.	Both outside and inside the classroom, students will practice to master these concepts. These ideas are covered in Module F.	Students must certify in each lesson at the mastery level with a minimum grade of 80%. Students must demonstrate mastery of 80% on a module exam and take a comprehensive final exam.

Required Texts, Additional Reading, and Other Materials

(1) Textbook and computer software – Developmental Mathematics Software and e-book, ISBN 1935782517 9781935782513, Hawkes Learning Systems. A software license can be purchased at the student bookstore or on-line at http://www.hawkeslearning.com/.

Students who have not purchased a software license code within three weeks of the start of the semester will be automatically unenrolled. If a license is purchased within one additional week, the student will be re-enrolled.

(2) Calculator – A calculator is allowed on all assignments and exams. No internet enabled devices may be used as a calculator during exams.

(3) Headphones – Students who want to watch the HawkesTV instructional videos during class, as part of learning the course material, must use headphones.

(4) Notebook – Although this course involves computer-assisted instruction, students should have and use note taking materials in every class. Notes should be taken on each lesson. Problems should be worked out neatly in your notebook.

Course Requirements/Due Dates

Students will complete the certifications with mastery 80% or higher, the module exams with mastery 80%, and the final exam. Students have unlimited attempts to master the certifications. Students have 5 attempts to master the module exams.

A complete suggested pace is provided in this syllabus. Students may complete certifications or exams before the suggested dates, if they have completed the appropriate prerequisites. Students who work at or faster than the provided pace will complete the course in one semester.

The final exam for this section is on [Thursday December 10, 10:15am-12:15pm   ]. The last day to take the final exam is the final exam date for this section. All modules and module exams must be completed by the last day of classes; no modules or module exams can be completed during finals week.

Grading Policy

Students must achieve a mastery of 80% or higher in each lesson certification in a particular module before taking the module exam. Each mastered lesson certification is recorded in the gradebook as a 100%. The best of your (up to) 5 module test grades are recorded in the gradebook. Each module test must be passed with a score of 80% or higher. The final exam can be taken only once.

Semester grades will be based on module test grades, certifications, the final exam, and attendance. Module tests (10% each for a total of 60%), certification (20%), final exam (20%).
Grading scale: 90 – 100   A
                80 – 89.99   B
                70 – 79.99   C
                60 – 69.99   D
                Below 60   F

At the end of the semester, students who have completed 75% of the course material, according to the schedule in this syllabus, will be assigned a grade of incomplete I. Students are required to finish the course during the next semester. Students who have not completed 75% of the course material, will have earned at most 43% of the course grade and will be assigned a grade of F.

Attendance Policy

Students are required to attend each class. Unexcused absences from **three or more** classes will result in an F. Students must provide evidence to justify a University Excused Absence on the first day you return to class. Students do not need to attend class after successful completion of all modules, module tests, and the final exam.

Academic Integrity Policy

Students may work together on the Learn and Practice of each lesson and on practice exams. Students may not work together, receive help, or use any resources (web, text, etc) on Pre Tests, Certifications, Module Test, or the Final Test. Any students who are discovered cheating will be given a 0 on the assignment, which will count towards your final course grade; the material will still need to be mastered.

Tutoring

Math computer lab hours: MTWR 4pm – 6pm in Smith Hall 620. Please remember to get your instructor's permission before taking tests during open computer lab hours. You will need to show your ID to the instructors and students staffing the lab when taking tests.

The 620 lab is also open Mon 10am – 11am, 1pm – 2pm, 3pm – 4pm; Tues 3pm – 4pm; Wed 8am – 10am; Thurs 10am – 11am, 1:30pm – 2:30pm; Fri 10am – 11am.

Math Department Tutoring lab hours: MTWR 10am – 4pm and F 10am – 12noon in Smith Music 115. There are no computers in the math tutoring lab. Please bring your questions on paper or bring your own laptop. No tests can be taken in the math tutoring lab.

Students may attend class periods of other MTH 100 or MTH 102 sections on a first come first served basis, if the classroom has an open computer. Students must arrive on time, stay the entire class period, and get instructor permission to use an open computer.

Course Schedule

Fall 2015 MTH 100 Schedule for Sections Meeting TR			
Module	**Lessons and Tests**	**Complete on or before**	**✔**
A	Intro to technology and policies - how this course works	T 8/25	
	Module A Pre Test (optional)	R 8/27	
Whole Numbers	Lesson 1.1 Learn, Practice, Certify	R 8/27	
	Lesson 1.2 Learn, Practice, Certify	T 9/1	
	Lesson 1.3 Learn, Practice, Certify	T 9/1	
	Lesson 1.4 Learn, Practice, Certify	T 9/1	

	Lesson 1.5 Learn, Practice, Certify	R 9/3	
	Lesson 1.6 Learn, Practice, Certify	R 9/3	
	Lesson 1.7 Learn, Practice, Certify	R 9/3	
	Lesson 1.8 Learn, Practice, Certify	T 9/8	
	Lesson 1.9 Learn, Practice, Certify	T 9/8	
	Module A Practice Test		
	Module A Test	R 9/10	
B **Fractions and Mixed Numbers**	Module B Pre Test (optional)	T 9/15	
	Lesson 2.1 Learn, Practice, Certify	T 9/15	
	Lesson 2.2 Learn, Practice, Certify	R 9/17	
	Lesson 2.3 Learn, Practice, Certify	R 9/17	
	Lesson 2.4 Learn, Practice, Certify	T 9/22	
	Lesson 2.5 Learn, Practice, Certify	T 9/22	
	Lesson 2.6 Learn, Practice, Certify	R 9/24	
	Module B Practice Test		
	Module B Test	T 9/29	
C **Decimals**	Module C Pre Test (optional)	R 10/1	
	Lesson 3.1 Learn, Practice, Certify	R 10/1	
	Lesson 3.2 Learn, Practice, Certify	T 10/6	
	Lesson 3.3 Learn, Practice, Certify	T 10/6	
	Lesson 3.4 Learn, Practice, Certify	R 10/8	
	Lesson 3.5 Learn, Practice, Certify	R 10/8	
	Module C Practice Test		
	Module C Test	T 10/13	
D **Ratios, Rates, and Proportions**	Module D Pre Test (optional)	R 10/15	
	Lesson 4.1 Learn, Practice, Certify	R 10/15	
	Lesson 4.2 Learn, Practice, Certify	T 10/20	
	Lesson 4.3 Learn, Practice, Certify	T 10/20	
	Lesson 4.4 Learn, Practice, Certify	T 10/20	
	Lesson 4.5 Learn, Practice, Certify	R 10/22	
	Lesson 4.6 Learn, Practice, Certify	R 10/22	
	Module D Practice Test		
	Module D Test	T 10/27	
75% of the course material is complete after finishing Module D.			
E **Real Number Operations and Variable Expressions**	Module E Pre Test (optional)	R 10/29	
	Lesson 7.1a Learn, Practice, Certify	R 10/29	
	Lesson 7.2 Learn, Practice, Certify	T 11/3	
	Lesson 7.3 Learn, Practice, Certify	T 11/3	
	Lesson 7.4 Learn, Practice, Certify	R 11/5	
	Lesson 7.5 Learn, Practice, Certify	R 11/5	
	Lesson 7.7a Learn, Practice, Certify	T 11/10	
	Lesson 7.7c Learn, Practice, Certify	T 11/10	
	Module E Practice Test		

	Module E Test	R 11/12	
F	Module F Pre Test (optional)	T 11/17	
	Lesson 6.1 Learn, Practice, Certify	T 11/17	
	Lesson 6.2 Learn, Practice, Certify	R 11/19	
Statistics and Measurement Conversion	Lesson A.1 Learn, Practice, Certify	R 11/19	
	Lesson A.2a Learn, Practice, Certify	R 11/19	
	Lesson A.2b Learn, Practice, Certify	T 12/1	
	Lesson A.3 Learn, Practice, Certify	T 12/1	
	Module F Practice Test		
	Module F Test	R 12/3	
	Final Practice Problems		
	Final Practice Test		
	Final Test	Final Exam time of your section.	
100% of the course is complete after taking the final exam.			