Marshall University – MTH 102B – Syllabus highlights

1. Attendance is mandatory.
   a. Each class missed will affect your final grade. Unexcused absences will directly affect your grade.
   b. Students who complete all of the course materials early, including the final exam, are exempt from further class attendance.
2. Every other exam date is firm.
   a. For example, the first attempt of the Module K and Module L tests must both be completed on or before the date of the Module L test listed in the syllabus.
   b. All lesson certifications should be done before taking a module test.
   c. Students who have mastered all lesson certifications of a module, may take a module test early.
   d. Students who have completed their first attempts on all of the module tests, may take the final exam early.
3. Module exams may be taken twice (not the final exam); the highest of the two test grades is recorded.
   a. The last day to take any module exam, including second attempts, is the last day of this class.
4. Students are expected to work outside of class 2 – 4 hours for each hour of class time every week.
5. Students may not work together, receive help, or use any resources (notes, web, cell phone, textbook, etc) on Diagnostic Tests, Module Tests, and the Final Test.
   a. Students will be monitored during exams and cheating will not be tolerated.
6. The course is designed to give you timely personal assistance. This means you should not struggle through the material by yourself. Your instructor and TA will be constantly circulating throughout the classroom in order to help, however, they may not realize that you have questions. Do not hesitate to ask for help. Your job in the class is to learn the material and the job of your instructor and TA is to help you learn it.

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Marshall University
MTH 102B Syllabus

Course Title/Number	Abbreviated Preparation for College Mathematics B - MTH 102B
Semester/Year	Fall 2017
Section/CRN	102 / 3077
Days/Time	TR, 3-3:50pm
Location	SH 621
Instructor	Eyoel Berhane
Office	SH 740A
Phone	304 696 6482
E-Mail	berhane1@marshall.edu
Office Hours	Wednesdays, 9-10am; Thursdays, 4-5pm

Teaching Assistant	Bindu Kothapalli
TA Office	TBA
TA Phone	304 696 6482
TA E-Mail	kothapalli2@marshall.edu

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

An abridged mastery-based course that will prepare students for College Algebra. Prerequisite: MTH 098 or MTH 100 or MTH 121 or MTH 121B and major requiring completion of MTH 127 or 160. 1 credit hour.

This course is intended to prepare students for MTH 127 or MTH 160. It will prepare students for courses that use algebra.

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 develop a facility in solving algebraic equations, evaluating geometric formulas, and graphing points in the plane.	Both outside and inside the classroom, students will practice to master these concepts. These ideas are covered in Module K.	Students must certify in each lesson at the mastery level with a minimum grade of 80%. Students must demonstrate mastery on a module exam and take a comprehensive final exam.
Students will learn the properties of exponents, scientific notation, and operations on polynomial expressions.	Both outside and inside the classroom, students will practice to master these concepts. These ideas are covered in Module L.	Students must certify in each lesson at the mastery level with a minimum grade of 80%. Students must demonstrate mastery on a module exam and take a comprehensive final exam.
Students will factor polynomials using multiple techniques.	Both outside and inside the classroom, students will practice to master these concepts. These ideas are covered in Module M.	Students must certify in each lesson at the mastery level with a minimum grade of 80%. Students must demonstrate mastery on a module exam and take a comprehensive final exam.
Students will evaluate, simplify, and perform algebraic operations on rational and radical expressions.	Both outside and inside the classroom, students will practice to master these concepts. These ideas are covered in Module N.	Students must certify in each lesson at the mastery level with a minimum grade of 80%. Students must demonstrate mastery 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 9781941552353, 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 tests. No internet-enabled devices may be used as a calculator during tests.

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

(4) Notebook – Students should take notes on each lesson during the Learn and the Practice. Examples and explanations for different types of problems should be worked out neatly in your notebook and discussed with the Instructor or Teaching Assistant as needed.

Course Requirements/Due Dates

Students must complete certifications with mastery 80% or higher to receive credit for completion of the lesson. Students have unlimited attempts to master the certifications. We recommend students complete the Learn and Practice before attempting a certification. Students can attempt a certification once without completing the Practice problems. Students who do not master the lesson in one attempt will be required to attempt the Practice problems before repeating the certification problems. The last day of classes is the last day that lesson certifications can be completed.

Each module exam should be taken on or before the date listed in the syllabus. Students should complete the Learn, Practice, and Certification for each lesson of a module and take the Module Practice Test before attempting the module exam. Students will be allowed to take a module exam before the date listed in the syllabus, if all of the corresponding module certifications are completed.

The first attempt of Module K and Module L tests must both be completed on or before the date of the Module L test listed in the syllabus.

The first attempt of Module M and Module N tests must both be completed on or before the date of the Module N test listed in the syllabus.

Students who do not complete their first attempt at any module exam by the firm deadline will receive a 0 for one of their two attempts.

Students can take each module test twice. Students wishing to retake a module exam should review their first attempt with their instructor before taking the test for the second time. All module exams, including second attempts, must be completed by the last day of classes. Note that students who take the Module N exam for the first time on the last day of classes have only one attempt for that exam.

The final exam must be taken on or before the final exam date and time for this section. The final exam can be taken before the date listed in the syllabus, if all of the module exams have been taken. The final exam may only be attempted *only* once.

The **final examination** for the class will be scheduled for <u>Tuesday, December 12th</u> from3-5pm. Students must work **only** on the final exam. If other circumstances arise that may prevent you from taking the final at this time, reach the instructor or the math department <u>before</u> finals week.

A complete suggested pace is provided in the Course Schedule in this syllabus. Students may complete certifications or exams before the suggested dates, if they have completed the appropriate prerequisites.

Students are expected to work outside of class 2 – 4 hours for each hour of class time (2 – 4 hours each week), or more as needed.

Grading Policy

Students have unlimited attempts to achieve mastery of 80% or higher in each lesson certification. Once mastery is achieved, the lesson is recorded in the gradebook as 100%. There is no penalty on your certifications grade for completing certifications late. Your certifications grade will be calculated as (number of mastered certifications)/(total number of certifications).

Students have 2 attempts on each of the 4 module tests. The highest of the 2 attempts is recorded in the gradebook. Students have 1 attempt to take the final exam and the score earned is recorded in the gradebook.

Semester grades will be based on certifications (15%), module tests (15% each for a total of 60%), the final exam (20%), and attendance (5%; 5%; <u>note</u>: for each unexcused absence, you will lose 1% point).
Grading scale: 90 – 100   A
                        80 – 89.99   B
                        70 – 79.99   C
                        60 – 69.99   D
                        Below 60   F

Students who earn a 75% or higher on every Module Test and the Final Exam, complete all of the lessons, and attend all classes, will earn an 80%, B, in this course.

Students who earn an 88% or higher on every Module Test and the Final Exam, complete all of the lessons, and attend all classes, will earn a 90%, A, in this course.

<u>Midterm Grades</u>
Midterm grades will be reported by Monday, October 9. Your midterm grade will be calculated as follows. Mod K 80%, Certifications 15%, Attendance 5%.

Attendance Policy

Students are required to attend each class. Students with a University Excused Absence must provide evidence to justify a University Excused Absence on the first day they return to class. Each unexcused absence will result in a decrease of your final grade. Students do not need to attend class after successful completion of all lesson certifications, module tests, and the final exam.

Academic Integrity Policy

Students may work together on the Learn, Practice, and Certification of each lesson and on Practice Tests. Students may not work together, receive help, or use any resources (web, notes, cell phones, textbook) on Diagnostic Tests, Module Tests, and the Final Examination. Any students who are discovered cheating will be given a 0 on the assignment, which will count toward their final course grade. Receiving a 0 on a module exam supersedes the two attempts policy. A second cheating offense will result in an F for the course. Notice of any cheating offense will be sent to Academic Affairs.

For best test preparation, students should attempt lesson Certifications without assistance.

Tutoring

Math Department Tutoring Lab
Location: Smith Hall 325
Hours: Mon – Thurs: 10:00 am – 4:00 pm and 5:00 pm – 6:30 pm
        Fri: 10:00 am - Noon
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.

Other MTH 102 / 102B Classes
Students may attend class periods of other MTH 102 or MTH 102B sections on a first come first served basis, if the classroom has an open computer. Students must arrive on time, get instructor permission to use an open computer, and stay the entire class period. Do remember that attending any 102/102B outside of this one, unless under accepted circumstances, does **not** substitute for attendance for this one. It is advised you use this opportunity to catch up or take exams.

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Module	Fall 2017 MTH 102B Course Schedule for Sections Meeting TR	Complete on or before	✔
	Intro to technology and policies – how this course works	T 8/22	

K	Module K Diagnostic Test (optional) for students who are confident solving linear equations, geometry, and the Cartesian coordinate system	R 8/24	
Solving linear equations	Lesson 8.1a Learn, Practice, and Certify	R 8/24	
	Lessons 8.1b and 8.2 Learn, Practice, and Certify	T 8/29	
Area and volume	Lesson 8.3 Learn, Practice, and Certify	R 8/31	
	Lessons 8.4 and 8.5 Learn, Practice, and Certify	T 9/5	
Cartesian coordinates	Lessons 5.2 and 5.3 Learn, Practice, and Certify	R 9/7	
	Lessons 5.4, and 9.1 Learn, Practice, and Certify	T 9/12	
	Module K Practice Test		
	Module K Test	**R 9/14**	

L	Module L Diagnostic Test (optional) for students who are confident with exponents, scientific notation, and polynomials	T 9/19	
Exponents	Lesson 11.1 Learn, Practice, and Certify	T 9/19	
	Lessons 11.2a, and 11.2b Learn, Practice, and Certify	R 9/21	
Scientific notation	Lesson 11.3 and 11.4 Learn, Practice, and Certify	T 9/26	
	Lessons 11.5 and 11.6a Learn, Practice, and Certify	R 9/28	
Polynomials	Lessons 11.6b Learn, Practice, and Certify	T 10/3	
	Lessons 11.7a Learn, Practice, and Certify	R 10/5	
	Module L Practice Test		
	Module L Test	**T 10/10**	

M	Module M Diagnostic Test (optional) for students who are confident factoring polynomials and solving quadratic equations	R 10/12	
	Lessons 12.1a Learn, Practice, and Certify	R 10/12	
Factoring polynomials	Lessons 12.1b and 12.1c Learn, Practice, and Certify	T 10/17	
	Lessons 12.2 Learn, Practice, and Certify	R 10/19	
Solving quadratic equations	Lesson 12.3a Learn, Practice, and Certify	T 10/24	
	Lesson 12.3b Learn, Practice, Certify	R 10/26	
	Lesson 12.4a Learn, Practice, and Certify	T 10/31	
	Lessons 12.6 Learn, Practice, and Certify	R 11/2	
	Module M Practice Test		
	Module M Test	**T 11/7**	

N	Module N Diagnostic Test (optional) for students who are confident adding, subtracting, multiplying, and dividing rational expressions and radicals	R 11/9	
Rational expressions	Lesson 13.1a Learn, Practice, and Certify	R 11/9	

Radicals Rational exponents	Lessons 13.1b and 13.2 Learn, Practice, and Certify	T 11/14	
	Lessons 14.1 and 14.2 Learn, Practice, and Certify	R 11/16	
	Lesson 14.3a Learn, Practice, and Certify	T 11/28	
	Lesson 14.3b Learn, Practice, and Certify	R 11/30	
	Lessons 14.4 and 14.6 Learn, Practice, and Certify	T 12/5	
	Module N Practice Test		
	Module N Test	**R 12/7**	

Final Exam All Topics	Final Exam Practice Problems		
	Final Exam Practice Test		
	Final Examination	T 12/12	

MARSHALL UNIVERSITY FALL 2017 EXAM SCHEDULE

EXAM HOUR	MONDAY DEC 11	TUESDAY DEC 12	THURSDAY DEC 14	FRIDAY DEC 15
8:00 A.M. UNTIL 10:00 A.M.	CLASSES MEETING AT 8:00 MWF	CLASSES MEETING AT 9:30 TR	CLASSES MEETING AT 8:00 TR	CLASSES MEETING AT 9:00 MWF
10:15 A.M. UNTIL 12:15 P.M.	CLASSES MEETING AT 10:00 MWF	CLASSES MEETING AT 11:00 MWF	CLASSES MEETING AT 11:00 TR	CLASSES MEETING AT 12:00 MWF
12:45 P.M. UNTIL 2:45 P.M.	CLASSES MEETING AT 2:00 MWF	CLASSES MEETING AT 12:30 TR	CLASSES MEETING AT 2:00 TR	CLASSES MEETING AT 1:00 MWF

NOTE: All classes meeting at 3:00 p.m. and after will be examined in two-hour time blocks at the first regularly scheduled class meeting during the above examination period. If the two-hour time allowance results in a conflict in exam times, it is the student's responsibility to notify the professor of the later course and to reschedule the later exam. Rescheduled exams must be concluded by Friday, December 15, at 6:00 p.m.

All Wednesday (only) afternoon classes, those meeting at 3:00 p.m. and after, will be examined Wednesday, December 13.

Saturday classes will be examined December 9 at their regularly scheduled class period.

The common final exam time and date for all sections of CHM 111, 205, 211, 212, 355, and 356 will be 10:00 a.m. Saturday, December 9.

The common final exam time and date for all on campus sections of MTH 127 wil be 2:00 p.m. Saturday, December 9.

DEADLINE FOR ONLINE SUBMISSION OF GRADES MONDAY, DECEMBER 18, 12:00 NOON.