**Marshall University**

**MTH 100 Syllabus**

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| **Course Title/Number** | Preparation for College Mathematics A MTH 100  |
| **Semester/Year** | Spring 2016 |
| **Section/CRN** | 210/3977 |
| **Days/Time** | MW 3:15 – 4:25 pm |
| **Location** | MOVC Resource Center |
| **Instructor** | Jean Daniels |
| **Office** | None. Call to arrange a meeting. |
| **Phone** | 740-645-3097 |
| **E-Mail** | danielsje@marshall.edu; mathemadam@yahoo.com |
| **Office Hours** | By arrangement |

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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](http://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/](http://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**

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| A mastery-based course that will prepare students for quantitative reasoning courses in their major. Prerequisite: Math ACT 18 or below, or SAT Math 450 or below. 3 credit hours.  |

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| 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**

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| 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.**

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| **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 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 75% on a module exam and take a comprehensive final exam.  |
| Students will convert numbers to different forms and determine 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 75% on a module exam and take a comprehensive final exam.  |
| Students will use measurements 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 75% 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 75% 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 75% on a module exam and take a comprehensive final exam.  |

**Required Texts, Additional Reading, and Other Materials**

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| (1) Textbook and computer software – Developmental Mathematics Software and e-book, ISBN 1935782517 or 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 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. (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 and discussed with the Instructor or Teaching Assistant as needed. |

**Course Requirements/Due Dates**

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| Students must complete all certifications, module tests (A, B, C, D, E, and F), and the final exam to earn a passing grade in this class.Students will complete the certifications with mastery 80% or higher, the 6 module tests with mastery 75% or higher, and the final exam. Students have unlimited attempts to master the certifications. Students have 3 attempts to master each of the 6 module tests. The final exam may only be attempted once.All certifications for a particular module must be mastered before attempting the module test, and each module test must be mastered before progressing to the next module. If mastery on the test is not achieved in 3 attempts, then all certifications for the module and the diagnostic test will be reset; the student will work through the module again until mastery is achieved.All module tests must be completed with a score of 75% or higher before taking the final exam. 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 who work at or faster than the provided pace will complete the course in one semester. Students are expected to work outside of class 3 – 6 hours each week.The final exam for this section is on Friday, May 6. 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**

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| 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%. On each of the 6 module exams, the best of your (up to) 3 module test grades are recorded in the gradebook. Each module test must be passed with a score of 75% 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 70 – 79.99 C Below 60 F 80 – 89.99 B 60 – 69.99 DAt the end of the semester, students who have not completed all of the course materials will be assigned a grade of F.Midterm GradesMidterm grades will be reported on Friday, March 4. Students through the Module C Test will be recorded as passing. Students through the Module B test will be assigned a midterm grade of a D. Students not through the Module B exam will be assigned a midterm grade of an F.  |

**Attendance Policy**

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| Students are required to attend each class. Unexcused absences from **three or more** classes will result in an F. Students with a University Excused Absence 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**

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| Students may work together on the Learn, Practice, and Certification of each lesson and on practice exams. Students may not work together, receive help, or use any resources (web, text, notes, etc) on Diagnostic Tests, 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; students caught cheating must still master the material of the assignment before moving on. A second cheating offense will result in an F for the course. Notice of any cheating offense will be sent to Academic Affairs.  |

**Tutoring**

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| Math Department Open Computer LabLocation: Smith Hall 620Hours: MTWR 5pm – 7pm Please remember to get your instructor’s permission before taking tests during open computer lab hours. Students will need to sign-in and show ID to the persons staffing the lab to be able to take tests. Math Department Tutoring Lab Location: Smith Music Hall 115Hours: MTWR 10am – 4pm and F 10am – 12noon 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 100 / 102 / 102B ClassesStudents 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, get instructor permission to use an open computer, and stay the entire class period. |

**Technical Assistance**

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| Students requiring technical assistance with the Hawkes software should contact Hawkes directly by phone at 800-426-9538 or 843-571-2825, Monday – Friday 8:30am – 10:00pm ET, or by live chat at www.hawkeslearning.com/chat, any time 24/7.  |

**Course Schedule**

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| **Module** | **Lessons and Tests** | **Complete on or before** | **✓** |
| **A****Whole Numbers** | Intro to technology and policies - how this course works | M 1/11 |  |
| Module A Pre Test (optional) | M 1/11 |  |
| Lesson 1.1 Learn, Practice, Certify | W 1/13 |  |
| Lesson 1.2 Learn, Practice, Certify | W 1/13 |  |
| Lesson 1.3 Learn, Practice, Certify | W 1/20 |  |
| Lesson 1.4 Learn, Practice, Certify | W 1/20 |  |
| Lesson 1.5 Learn, Practice, Certify | W 1/20 |  |
| Lesson 1.6 Learn, Practice, Certify | M 1/25 |  |
| Lesson 1.7 Learn, Practice, Certify | M 1/25 |  |
| Lesson 1.8 Learn, Practice, Certify | W 1/27 |  |
| Lesson 1.9 Learn, Practice, Certify | W 1/27 |  |
| Module A Practice Test |  |  |
| **Module A Test** | M 2/1 |  |
| **B****Fractions and Mixed Numbers** | Module B Pre Test (optional) | W 2/3 |  |
| Lesson 2.1 Learn, Practice, Certify | W 2/3 |  |
| Lesson 2.2 Learn, Practice, Certify | M 2/8 |  |
| Lesson 2.3 Learn, Practice, Certify | M 2/8 |  |
| Lesson 2.4 Learn, Practice, Certify | W 2/10 |  |
| Lesson 2.5 Learn, Practice, Certify | M 2/15 |  |
| Lesson 2.6 Learn, Practice, Certify | W 2/17 |  |
| Module B Practice Test |   |  |
| **Module B Test** | M 2/22 |  |
| **C****Decimals** | Module C Pre Test (optional) | W 2/24 |  |
| Lesson 3.1 Learn, Practice, Certify | W 2/24 |  |
| Lesson 3.2 Learn, Practice, Certify | M 2/29 |  |
| Lesson 3.3 Learn, Practice, Certify | M 2/29 |  |
| Lesson 3.4 Learn, Practice, Certify | M 2/29 |  |
| Lesson 3.5 Learn, Practice, Certify | W 3/2 |  |
| Module C Practice Test |  |  |
| **Module C Test** | W 3/2 |  |
| **D****Ratios, Rates, and Proportions** | Module D Pre Test (optional) | M 3/7 |  |
| Lesson 4.1 Learn, Practice, Certify | M 3/7 |  |
| Lesson 4.2 Learn, Practice, Certify | W 3/9 |  |
| Lesson 4.3 Learn, Practice, Certify | W 3/9 |  |
| Lesson 4.4 Learn, Practice, Certify | W 3/9 |  |
| Lesson 4.5 Learn, Practice, Certify | M 3/14 |  |
| Lesson 4.6 Learn, Practice, Certify | M 3/14 |  |
| Module D Practice Test |  |  |
| **Module D Test** | W 3/16 |  |

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| **E****Real Number Operations and Variable Expressions** | Module E Pre Test (optional) | M 3/28 |  |
| Lesson 7.1a Learn, Practice, Certify | M 3/28 |  |
| Lesson 7.2 Learn, Practice, Certify | M 3/28 |  |
| Lesson 7.3 Learn, Practice, Certify | W 3/30 |  |
| Lesson 7.4 Learn, Practice, Certify | W 3/30 |  |
| Lesson 7.5 Learn, Practice, Certify | M 4/4 |  |
| Lesson 7.7a Learn, Practice, Certify | M 4/4 |  |
| Lesson 7.7c Learn, Practice, Certify | W 4/6 |  |
| Module E Practice Test |  |  |
| **Module E Test** | M 4/11 |  |
| **F****Statistics and Measurement Conversion** | Module F Pre Test (optional) | W 4/13 |  |
| Lesson 6.1 Learn, Practice, Certify | W 4/13 |  |
| Lesson 6.2 Learn, Practice, Certify | M 4/18 |  |
| Lesson A.1 Learn, Practice, Certify | M 4/18 |  |
| Lesson A.2a Learn, Practice, Certify | W 4/20 |  |
| Lesson A.2b Learn, Practice, Certify | M 4/20 |  |
| Lesson A.3 Learn, Practice, Certify | M 4/25 |  |
| Module F Practice Test |  |  |
| **Module F Test** | W 4/27 |  |
|  | Final Practice Problems |  |  |
| Final Practice Test |  |  |
| **Final Test** | Final Exam time of your section. |  |
| **All course certification, module exams, and the final exam must be completed to finish the course.** |

