

Marshall University

College of Science

School of Mathematics and Informatics

MTH 127 Syllabus

# Course

MTH 127 College Algebra Expanded – Section 121 CRN 2997

## Course Description

A brief but careful review of the main techniques of algebra. Polynomial, rational, exponential, and logarithmic functions. Graphs, equations and inequalities, sequences.

## Credits

 5 credit hours.

## Prerequisites

ACT Math 17 or SAT Math 440 or above.

# Courses that have MTH 127/130 as a prerequisite:

* Graduation Requirement for College of Business
* MTH 122 - Trigonometry, MTH 132 - Precalculus, MTH 140 - Applied calculus
* CHM 111, CS 110, CI 248, ENGR 221, IST 420/421, PS 109, PHY 101, PHY 201

## Term/Year

 Fall 2018

## Class Meeting Days/Times

 This is an online course. There are not specified meeting days/times.

## Location

 This is an online course. All course materials are located on MUOnline/Blackboard.

## Academic Calendar

 For beginning, ending, and add/drop dates, see the Marshall University Academic

 Calendar (URL: <http://www.marshall.edu/calendar/academic> ).

# Instructor

Mary Crytzer

## Contact Information

 Office: SH 741A

 Office Hours: MTWR 11:00 am – 12:00 pm (subject to change), & by appointment.

 Office Phone: (304) 696-7245

 Email: mary.crytzer@marshall.edu, mail tool in BlackBoard

## Required Texts, Additional Reading, and Other Materials

1. Access to Knewton Alta homework management system.
2. Free student account for Desmos website.
3. TI-84 or equivalent graphing utility (Cell phone, smart device, or internet calculators are not permitted during exams.)
4. Computer with internet access to MUOnline, Knewton Alta, and Desmos.

# Course Student Learning Outcomes

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 identify and implement appropriate solution methods for single-variable equations | Knewton Alta lessons, Desmos activities, Project Drafts | Knewton Alta Assignments, Desmos Submissions, Module Tests, Final Exam, and Project Submissions |
| Students will identify and graph standard algebraic functions | Knewton Alta lessons, Desmos activities, Project Drafts | Knewton Alta Assignments, Desmos Submissions, Module Tests, Final Exam, and Project Submissions |
| Students will interpret graphs of functions | Knewton Alta lessons, Desmos activities, Project Drafts | Knewton Alta Assignments, Desmos Submissions, Module Tests, Final Exam, and Project Submissions |
| Students will construct functions to model applications | Knewton Alta lessons, Desmos activities, Project Drafts | Knewton Alta Assignments, Desmos Submissions, Module Tests, Final Exam, and Project Submissions |
| Students will communicate written mathematics using appropriate notation and explanation in English | Knewton Alta lessons, Desmos activities, Project Drafts | Knewton Alta Assignments, Desmos Submissions, Module Tests, Final Exam, and Project Submissions |

# Course Requirements

Students will utilize an MUOnline/Blackboard course ([www.muonline.marshall.edu)](http://www.muonline.marshall.edu)) to participate in **Discussion Forums** and access the course learning materials including **Knewton Alta Assignments** and **Desmos Activities**. Students will be assessed in MUOnline/Blackboard by taking **Tests** and the **Final Exam.** (see Due Dates in Course Schedule on this syllabus).

The course learning materials, **Knewton Alta Assignments and Desmos Activities**, will be rolled out one week at a time as the semester progresses and are open book/open note assignments. A course schedule, including hard and soft due dates, is provided in the **Summary Due Dates** document and embedded in the **MUOnline Course** to provide a steady pacing through the material. **Tests** and the **Final Exam** are closed book/closed notes assessments, and to help preserve the integrity of the course, will be taken in one of two ways 1) using Respondus Lockdown Monitor with webcam or 2) setting up a proctoring session at your school or on campus. (see Proctoring Information link in MUOnline).

# Grading Policy

**Desmos Activities** and **Knewton Assignments** (all worth 10 points each) make-up 15% of the semester grade and are learning assignments. Students should resubmit until they earn full credit, up to three total attempts. These assignments are open book, open notes assignments and may be completed collaboratively until mastery is achieved. Each **Module** **Test** (five tests) will be worth 10% each (total of 50%) and the **Comprehensive Final Exam** (one exam) will be worth 15% of the semester grade. Students have one attempt on Unit Tests and one attempt for the Final Exam. The **Facilitator Points** and **Instructors Points** both make up 10% of the course grade and shall be used to support, extend, and deepen student learning.

**Grade Categories Grade Scale**

A = 90 – 100%

B = 80 – 89%

C = 70 – 79%

D = 60 – 69%

F = Below 60%

|  |  |
| --- | --- |
| Facilitator Points | 10% |
| Instructor Points | 10% |
| Desmos Activities and Knewton Assignments | 15% |
| Module Tests (5 total) | 50% |
| Comprehensive Final Exam | 15% |
| **Total** | **100%** |

# Attendance Policy

 There is no attendance policy for this online course. However, all assignments, activities, and tests have strict due dates that must be met.

# University Policies

By enrolling in this course, you agree to the University Policies. Please read the full text of each policy (listed below) by going to [Academic Affairs: Marshall University Policies](http://www.marshall.edu/academic-affairs/policies/). (URL: http://www.marshall.edu/academic-affairs/policies/ )

* Academic Dishonesty Policy
* Academic Dismissal Policy
* Academic Forgiveness Policy
* Academic Probation and Suspension Policy
* Affirmative Action Policy
* Dead Week Policy
* D/F Repeat Rule
* Excused Absence Policy for Undergraduates
* Inclement Weather Policy
* Sexual Harassment Policy
* Students with Disabilities (Policies and Procedures)
* University Computing Services Acceptable Use Policy