# Saxon Advanced Mathematics

# Course Syllabus

## HERO

## Fall 2012

### Instructor Information

Instructor: Cecilia Coulter

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Tutoring hours: by appointment

### Course Identification

Course Name: Saxon Advanced Mathematics

Course Location: HERO, Forest Lake

Class Times: Mondays 11:30 am-1:00 pm

Prerequisites: Saxon Algebra 2 or equivalent

### Course Description/Overview

This course is the third of three math courses designed to prepare the student for the study of calculus. Class hours for the semester add up to 70 hours, 24 hours of class time and 46 hours of homework time. This translates to about 3 hours of homework PER WEEK each semester. Plan to spend this amount of time for successful completion of this course. This is a three-semester course for students in 10th grade; a two-semester course for those in 11th and 12th grades. Class time will be appropriated accordingly.

### Course Resources

#### Required Course Text

* Advanced Mathematics, An Incremental Development, Second Edition, Saxon
* TAKE-HOME TEST booklet

**Course Syllabus and web site**

* www.SaxonMathTutorHERO.weebly.com

#### Course Fees

$102 + $5 TAKE-HOME TEST booklet

#### Course Supplies

Spiral notebook, pencils, 3-ring binder for TAKE-HOME TESTs, ruled loose-leaf paper (50 pieces), mechanical pencils, extra lead and eraser

#### Grading Policy

Parents will receive a mid-semester and an end-of-semester student evaluation with a percentage grade. No letter grades will be given.

#### Assignments

1. Students **are required to complete the assignments in their Saxon textbook** on a daily basis. All homework must be checked at home prior to class time. Please indicate the # of correct responses over the total # of problems. Homework will be collected at each class time.
2. Students are **required to complete assignments in Khan Academy**

**TAKE-HOME TESTs**

TAKE-HOME TESTs will be assigned as per course schedule. All TAKE-HOME TESTs must be checked at home prior to class time. Please, indicate # of correct responses over # of total problems. TAKE-HOME TESTs will be collected at class time.

### Course Policies

See HERO Student Handout.

### Course Schedule (2 semester track)

##### Week 1

*M 9/10 In class: Lessons 1-3, 5*

***Homework****: 1. Problem sets 1-4, odd-numbered problems*

**Week 2**

*M 9/17 In class: Lessons 4, 6, 8, and part of 10*

***Homework****:*

1. *Problem sets 4, 6, 8, odd-numbered problems*

##### Week 3

*M 9/24 In class: Lessons 10, 11, 12, 13*

***Homework****:*

1. *Problem sets 9-12, odd-numbered problems*

##### Week 4

*M 10/01 In class: Lessons 13-16*

***Homework****:*

1. *Problem sets 13-16, odd-numbered problems*
2. ***TAKE-HOME TEST****: 4, all problems (covers lessons 9-16)*

##### Week 5

*M 10/08 In class: Lessons 17-20*

***Homework****:*

1. *Problem sets 17-20, odd-numbered problems*

##### Week 6

*M 10/15 In class: Lessons 21-24*

***Homework****:*

1. *Problem sets 21-24, odd-numbered problems*
2. ***TAKE-HOME TEST****: 6, all problems (covers lessons 17-24)*

##### Week 7

*M 10/22 In class: Lessons 25-28*

***Homework****:*

1. *Problem sets 25-28, odd-numbered problems*
2. *Mid-semester Evaluations*

##### Week 8

*M 10/29 In class: Lessons 29-32*

***Homework****:*

1. *Problem sets 29-32, odd-numbered problems*

##### Week 9

*M 11/05 In class: Lessons 33-36*

***Homework****:*

1. *Problem sets 33-36, odd-numbered problems*
2. ***TAKE HOME TEST 8****, all problems (covers lessons 25-32) SHOW ALL STEPS TO YOUR ANSWERS.*

##### Week 10

*M 11/12 In class: Lessons 37-40*

***Homework****:*

1. *Problem sets 37-40, odd-numbered problems*
2. ***TAKE-HOME TEST****: 10, all problems (covers lessons 33-40)*

##### Week 11

*M 11/19 In class: Lessons 41-44*

***Homework****:*

1. *Problem sets 41-44, odd-numbered problems*

##### Week 12

*M 11/26 In class: Lessons 45-48*

***Homework****:*

1. *Problem sets 45-48, odd-numbered problems*
2. ***TAKE-HOME TEST****: 12, all problems (covers lessons 41-48)*

##### Week 13

*M 12/03 In class: Lessons 49-52*

***Homework****:*

1. *Study for exam*

**Week 14**

*M 12/10 In class: Lessons 53-56, EXAM*

***Homework****:*

1. *Problem sets 53-56, odd-numbered problems*

##### Christmas Break

*12/17-12/31*

*Classes resume January 07, 2013*

##### Week 15

*M 01/07 In class: Lessons 57-60*

***Homework****:*

1. *Problem sets 57-60*
2. ***Substitute tutor****: Mrs. Donell Frank*

##### Week 16

*M 01/14 In class:*

1. *Lessons 61-64*

***Homework****:*

1. *Review lessons 61-64*
2. ***Substitute tutor****: Mrs. Donell Frank*
3. *END-OF-SEMESTER EVALUATIONS (emailed)*

***END OF FIRST SEMESTER***

***Second semester starts January 21, 2012***

##### Week 1

*M 01/21 In class:*

1. *Lessons 65-68*

***Homework****:*

1. *Review lessons 65-68*
2. ***Substitute tutor****: Mrs. Donell Frank*

**Week 2**

*M 01/28 In class:*

1. *Lessons 69-72*

***Homework****:*

1. ***Substitute tutor****: Mrs. Donell Frank*
2. ***Problem sets 69****-72*

##### Week 3

*M 02/04 In class: Lessons 73-76*

***Homework****:*

1. *Problem sets 73-76, odd-numbered problems*

##### Week 4

*M 02/11 In class: Lessons 77-80*

***Homework****:*

1. *Problem sets 77-80, odd-numbered problems*
2. ***TAKE-HOME TEST****: 20, all problems (covers lessons 73-80)*

##### Week 5

*M 02/18 In class: Lessons 81-84*

***Homework****:*

1. *Problem sets 81-84, odd-numbered problems*

##### Week 6

*M 02/25 In class: Lessons 85-88*

***Homework****:*

1. *Problem sets 85-88, odd-numbered problems*
2. ***TAKE-HOME TEST****: 22, all problems (covers lessons 81-88)*

##### Week 7

*M 03/04 In class: Lessons 89-92*

***Homework****:*

1. *Problem sets 89-92, odd-numbered problems*

***NO CLASS MARCH 11 and MARCH 12, 2013***

##### Week 8

*M 03/18 In class: Lessons 93-96*

***Homework****:*

1. *Problem sets 93-96, odd-numbered problems*
2. ***TAKE-HOME TEST****: 24, all problems (covers lessons 89-96)*

##### Week 9

*M 03/25 In class: Lessons 97-100*

***Homework****:*

1. *Problem sets 97-100, odd-numbered problems*

##### Week 10

*M 04/01 In class: Lessons 101-104*

***Homework****:*

1. *Problem sets 101-104, odd-numbered problems*
2. ***TAKE-HOME TEST****: 26, all problems (covers lessons 97-104)*

##### Week 11

*M 04/08 In class: Lessons 105-108*

***Homework****:*

1. *Problem sets 105-108, odd-numbered problems*

##### Week 12

*M 04/15 In class: Lessons 109-112*

***Homework****:*

1. *Problem sets 109-112, odd-numbered problems*
2. ***TAKE-HOME TEST****: 28, all problems (covers lessons 105-112)*

##### Week 13

*M 04/22 In class: Lessons 113-116*

***Homework****:*

1. *Problem sets 113-116, odd-numbered problems*

**Week 14**

*M 04/29 In class: Lessons 117-120*

***Homework****:*

1. *Problem sets 117-120, odd-numbered problems*
2. ***TAKE-HOME TEST****: 30, all problems (covers lessons 113-120)*

##### Week 15

*M 05/06 In class: Lessons 121-125 (NOTE extra lesson covered)*

***Homework****:*

1. *Problem sets 121-125, odd-numbered problems*
2. *Review for in-class final exam*

##### Week 16

*M 01/14 In class:*

1. *no new material covered, review*
2. ***FINAL EXAM***
3. ***End of semester evaluations (emailed)***