

EMMA Honors Advanced Math 2019-20

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Required Text: *Saxon Advanced Math, 2nd Ed., textbook* and *Solutions Manual, 2nd Ed.*, (required for checking homework only.) A compass, 6" ruler, and non-graphing scientific calculator (logs and trig functions) are also required. If student chooses to use a graphing calculator he/she is responsible for reading instruction manual. Mentor will provide tests.

Prerequisite: Algebra 2 (Saxon) or Algebra 2 and 1 semester of Geometry in a traditional math sequence (e.g. BJU or ABeka)

Saxon himself recommended 3 semesters for this book. We will thus cover the first 90 lessons in this 2-semester course. This fast-paced honors course will cover precalculus and trigonometry as well as complete the study of geometry begun in Saxon Algebra. Students will need to work hard between class sessions, reading the text and working all problem sets in order to master this material. Both take-home tests and in-class tests will track progress. This can go on a high school transcript as ½ credit Geometry (first ½ was earned in Saxon Algebra 2) and 1 credit Precalculus. Course satisfies the UNC system college entrance requirement of 1 course in math beyond Algebra 2.

Students are to work the problem sets assigned, then check them against the solutions manual, marking any questions to ask about in class. Only tests will be collected/graded by mentor. If homework is done and questions asked, tests should not be a problem. If homework is not done, tests will be difficult/impossible. There are no shortcuts.

Weekly class time will consist of answering homework questions, followed by introduction of new material. A take-home test will be given almost every week to be turned in for grading. Occasional timed in-class tests will be given as well. All tests will be cumulative, per Saxon's methodology, so no comprehensive final exam will be given.

Grading: 20% homework completion (I will just check for done/not done), **80% tests**

Fall Semester:

Before first class, do Lesson 1 Geometry Review, pp.2-19, problem set 1

Weeks 1-11: 4 lessons and 1 test per week, on average, through lesson 45

Weeks 12+: Allowance for harder lessons, inclement weather, in-class testing

Spring Semester:

Lessons 46 through 90