

COURSE SELECTION as of Jan. '12

Sophomore Choices in MATH

Note course prerequisites at bottom of page

A. *Regular Path* (Algebra 1 as a Freshman)

Sophomore - Algebra 2 OR Sophomore - Geometry
Junior - Geometry Junior - Algebra 2

Possible Senior year - Trigonometry/PreCalculus or Trigonometry or Statistics
(at least B in Algebra 2.) (At least C- in Algebra 2.) (At least C+ in Algebra 2.)

B. If you are *strong in Math* and intend *on taking 5-6 courses of Math*

Summer before Sophomore Year (Last Summer) - Geometry

Sophomore - currently in Algebra 2 or currently in two courses 1. Algebra 2
Summer before Junior year...at least A- in Alg 2 for Summer Geometry ** 2. Geometry
Junior - (Honors) Trigonometry/PreCalculus
Senior - Calculus or AP Calculus and/or Statistics or AP Statistics

C. *Accelerated Path*

By end of Sophomore year, have completed Algebra 1, Algebra 2, and Geometry

Junior - (Honors) Trig/ PreCalculus
Senior - Calculus or AP Calculus and/or Statistics or AP Statistics

Prerequisites: Trig/PreCalculus - at least a B in Algebra 2 Calculus - at least a B in Trig/PreCalc
Trigonometry - at least a C- in Algebra 2 AP Calculus - A- in Trig/PreCalc**
Honors Trig/PreCalculus - at least a A- in Algebra 2** Statistics - C+ in Trig/PreCalc **

** Teacher recommendation also needed (All Honors and AP courses require A- as Final Grade in appropriate prerequisite)

***** Penn State MAIN CAMPUS requires Trigonometry class in high school.*****

COURSE SELECTION as of Jan '12

Junior Choices in MATH

If you choose to take a 4th or 5th Math course, please be aware of the prerequisites for each course

1. Trigonometry at least C- in Algebra 2
2. Trigonometry/PreCalculus at least B in Algebra 2
3. Calculus at least B in Trig/PreCalculus
4. AP Calculus at least A- in Trig/PreCalc, teacher recommendation
5. Statistics at least C+ in Algebra 2
6. AP Statistics at least A- in Algebra 2, teacher recommendation

(Minimum Math Requirement is three courses... Algebra 1, Algebra 2, and Geometry)

Trigonometry does not involve as high a level of Mathematics as Trig/PreCalc
(Both are challenging courses, requiring abstract thinking, work and effort.)

It is intended for those who would like a 4th Math course (colleges like a 4th Math course) and do not necessarily wish to take Calculus in college.

Statistics is a basic high school statistics course (good preparation for nursing majors)

Trig/PreCalculus is a preparation for College Calculus.

***** Penn State MAIN CAMPUS requires Trigonometry class in high school.*****

Current Freshman

Freshman Algebra 2 “A” or “A-“ can go to Honors Geometry

Freshman Algebra 2 “B+ or below“ must go to Regular Geometry

Freshman Algebra 1 “A-” can choose to

1. double Algebra 2 and Regular Geometry
2. take only Algebra 2
3. take only Regular Geometry
4. take Summer Geometry and roster for Algebra 2 in sophomore year

Current Sophomore

Sophomore Algebra 2 (entering Junior year)

1. take Regular Geometry in Junior year
2. may take Summer Geometry (between Sophomore and Junior year)
and roster for
 - Honors TrigPreCalc (*in Junior year*)if **at least A- in Algebra 2**
(this is the “Junior” class designed toward taking (AP)Calc
 - Regular Trig PreCalc (*in Junior year*) if **at least A- in Algebra 2**
(this is the “Junior” class designed toward taking (AP)Calc