

Organic Chemistry

Notes:

- Jr. Sr. Honors Class
- Intense course
- Exposure to College level course would be an advantage
- Doctors, veterinarians, dentists, pharmacologists, chemical engineers, and chemists use Organic Chemistry
 - **Considerations:**
 - Could affect other courses (i.e. AP Physics)
 - Staffing is tight in the Science Department
 - Estimated enrollment: 25 students
 - Cost, as outlined below

Essential Organic Chemistry (2nd ed.)

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Item **AP1546** Organic Chemistry Glassware Set \$604.75/set

3 set total \$1814.25

\$6,641.00

Linear Algebra

Notes:

- College level course
- Practical applications
- After Pre-Calc
- Target audience would be the Advanced students
- Advanced Pre-Calc integrates some of the linear algebra concepts
- The Department believes they can integrate the concepts throughout other courses. Advanced students get a bit of it in Advanced Pre Calc. and the basics in Algebra 2
 - **Considerations**
 - We have 5 College level course currently
 - AP Calc 1 & 2, AP Stats, Stats and Business Calc through Pitt
 - Students who would most likely be interested in Linear Algebra would come from the 5 College level courses.

Typical Advanced Track includes the following:

- A. 9th Grade Advanced Geometry (small number double up with advanced alg 2)
- B. 10th, Algebra 2 Advanced
- C. 11th Pre Calc Advanced
- D. 12th AP Calc (if they doubled up they could take Calc 2) (9 kids in Calc 2)

New Course: Applications of Mathematics

- A. Lower level of Linear Algebra Concepts
- B. Probability and Statistics
- C. Systems of Equations
- D. Target audience: mid to low level math student
- E. Could take the place of Algebra 2 for those students who aren't ready for it.