The applied physics track is designed to provide broad foundational exposure to physics principles in the context of technological applications. Strong students in this program have been accepted to graduate programs in Physics and related disciplines as well as graduate programs such as law, business, medicine, teaching, and applications engineering.

The following chart lists the required classes for the applied physics major, with prerequisites and co-requisites indicated by arrows. Students are encouraged to plan their own schedule, taking into account: total course load, type of class work, type of class, level of rigor, time constraints (homework/study time, family time, work time, recreation time, etc.) and planned date of graduation. Remember, many classes are only offered once a year, and most classes have prerequisites. Students should plan on meeting with an advisor at least once a year to plan out the following year's course of study. All students are encouraged to pursue undergraduate research.

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**Notes:**

1. Phys 3210 and 3220 is the preferred sequence, 2210 and 2220 are allowed.
2. Students select one calculus sequence.
3. The honors chemistry sequence is allowed.
4. Math 2270 and 2280 is a more rigorous sequence, but requires two semesters and cannot be taken concurrently with Math 2210.
5. Math 3140 is preferred, however it includes part of 2210, so there is redundancy.

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**Diagram Details:**

- **Math 1210:** Calculus I (4 cr, F, S, U)
- **Math 1220:** Calculus II (4 cr, F, S, U)
- **Math 1250:** Calculus I AP (4 cr, F)
- **Math 1260:** Calculus II AP (4 cr, F, S)
- **Phys 2220:** Physics for Scien & Eng I (4 cr, F, S, U)
- **Phys 2222:** Modern Optics (4 cr, F)
- **Phys 2223:** Electronics Sci Instr (3 cr, F)
- **Phys 2224:** Intro Compt in Phys (4 cr, F)
- **Phys 3210:** Gen Chem I (4 cr, F, S, U)
- **Phys 3220:** Gen Chem II (4 cr, F, S, U)
- **Chem 1210:** General Chemistry I (4 cr, F, S, U)
- **Chem 1215:** General Chemistry Lab I (1 cr, F, S, U)
- **Chem 1220:** General Chemistry II (4 cr, F, S, U)
- **Chem 1225:** General Chemistry Lab II (1 cr, F, S, U)
- **Phys 2215:** Physics Lab for S & E (1 cr, F, S)
- **Phys 2225:** Physics Lab II for S & E (1 cr, F, S)
- **Phys 3220:** Physics for Scien & Eng II (4 cr, F, S, U)
- **Phys 3410:** Modern Optics (4 cr, F)
- **Phys 3411:** Thermo & Stat Mech (3 cr, F, S)
- **Phys 3610:** Electronics Sci Instr (3 cr, F)
- **Phys 3740:** Intro Quantum & Rel (3 cr, F, S)
- **Phys 3760:** Thermo & Stat Mech (3 cr, F, S)
- **Phys 3770:** Undergrad Lab (4 cr, F, S)
- **Phys 3773:** Intro Particle Phys (3 cr, F)
- **Phys 3774:** Intro Particle Phys (3 cr, S)
- **Phys 5010:** Ther Mech & Q M (3 cr, F)
- **Phys 5020:** Ther E&M & Stat Mech (3 cr, S)
- **Phys 5021:** Ther E&M & Stat Mech (3 cr, S)
- **Phys 5022:** Ther E&M & Stat Mech (3 cr, S)
- **Phys 5110:** Intro Particle Phys (3 cr, S)}