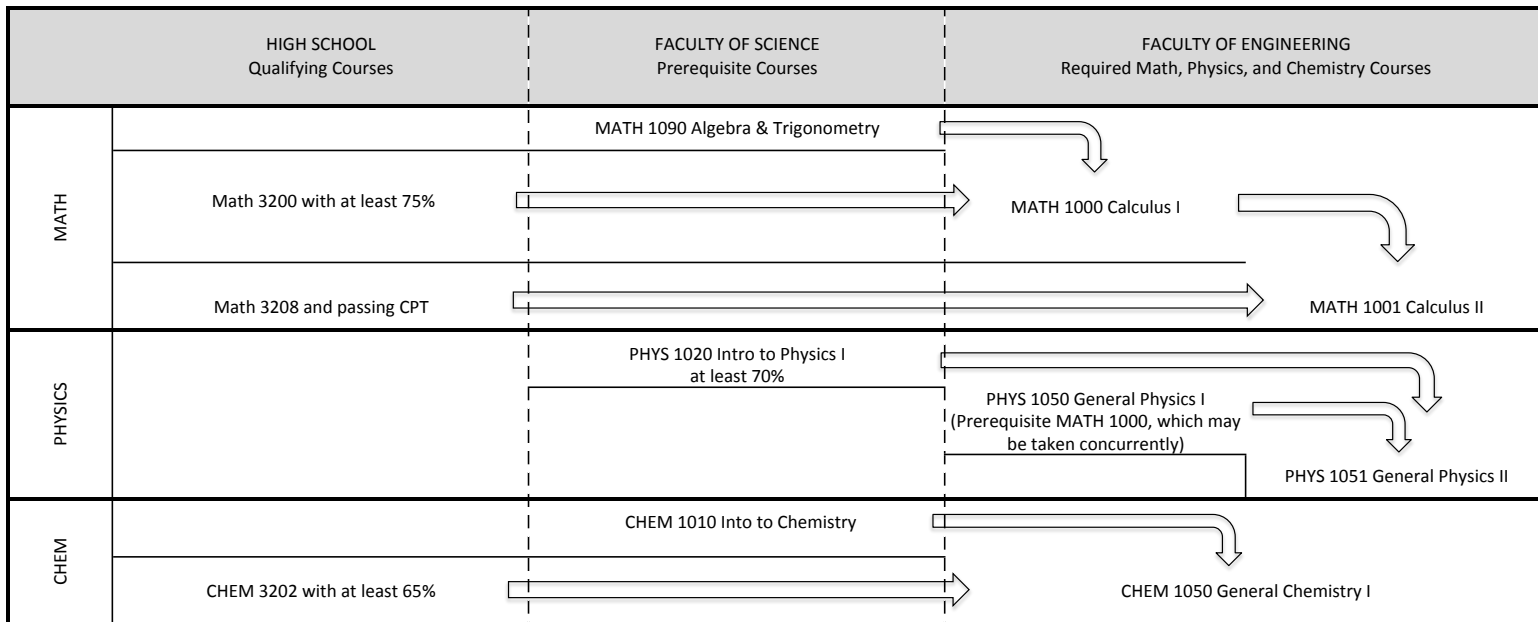


## Engineering One - Planning Sequence for Math, Physics, and Chemistry Requirements

This diagram illustrates math, physics and chemistry course sequences required for Engineering One. Careful consideration for these dependencies can prevent the need for extra courses that could increase the amount of time needed to earn a bachelor of engineering. These sequences are defined by the Faculty of Science, not the Faculty of Engineering & Applied Science. In the event of conflicting information, the Faculty of Science criteria will apply.



**MATH 1000** is the first in the Engineering One math sequence. Eligibility for MATH 1000 is required for admission to Engineering. Students may register for MATH 1000 if they meet one of the following.

- Successful completion of Math 3200 in high school with a score of 75 or greater
  - Successful completion of MATH 1090 Algebra & Trigonometry
- Students can obtain credit for MATH 1000 and go directly to **MATH 1001** with successful completion for Math 3208 and a passing grade in the CPT.

**CHEM 1050** is the only required chemistry course in the Engineering One. Students may register for CHEM 1050 if they meet one of the following.

- Successful completion of high school chemistry with grade  $\geq 65$
- Successful completion of CHEM 1010

**PHYS 1050** is normally the first physics course taken by engineering students. This course is designed for those who successfully completed high school physics or for those with a strong background in math if they haven't previously taken high school physics. PHYS 1050 requires MATH 1000, which may be taken concurrently.\*

**PHYS 1051** is normally the second in the Engineering One physics sequence. Students may proceed directly to PHYS 1051 if they meet one of the following.

- Successful completion of PHYS 1050 (strongly recommended)
  - Successful completion of PHYS 1020 with grade  $\geq 70$  and MATH 1000
- PHYS 1051 requires MATH 1001, which may be taken concurrently.\*

\* During registration, students should select the associated Math course first if it is to be taken concurrently.

If your specific situation is not represented, contact the Office of Undergraduate Studies in the Faculty of Engineering and Applied Science for advice