Biology (8 credits)  Advisor Approved Elective (with permission from faculty advisor).

Biochemistry (3/4 credits)  ORIE allows courses that have CHEM 2080 as a pre-requisite as Major Approved Elective (category A). The 3000 level BIOMG courses in the Biochemistry area all meet that requirement. NS 3200 can be an Advisor Approved Elective (with permission from faculty advisor).

Upper-level Biology (3/4 credits)  Upper-level Biology and NS courses could be used as advisor approved electives (with permission from faculty advisor).

General Chemistry (8 credits)  CHEM 2090- Engineering Core Curriculum CHEM 2080/CHEM 2150- Advisor Approved Elective (with permission from advisor) or can take in place of PHYS 2214 in Engineering Common Curriculum with petition.

Organic Chemistry (8 credits)  Organic Chemistry courses that have CHEM 2080 as a pre-requisite may be used as Major Approved Electives (category A).

English (6 credits)  Engineering Common Curriculum

Calculus: MATH 1910- Engineering Common Curriculum

Statistics: ENGRD 2700- Engineering Distribution Requirement

Math

General Physics (8 credits)  PHYS 1112, 2213, and 2214- Engineering Common Curriculum Students may petition PHYS 2208 to fulfill PHYS 2213.

Social Science  Liberal Studies Requirement or Advisor Approved Elective (with permission from faculty advisor)

---

Operations Research and Engineering Major (ORE)

Requirements for Major Affiliation: Operations Research and Engineering

At least C- in ENGRD 2700 and MATH 2940. GPA 2.2 in math, science, and engineering courses (both overall and in the term immediately before affiliation). At least C- in all completed ORIE courses. Good academic standing in the college.

![Diagram of course requirements]

Note: Liberal Studies Distribution and Physical Education requirements are not represented on this chart.