

Typical Courses for the First Year Engineering Student

A student that desires a major in engineering should take the courses prescribed below.

Freshman Year

Fall Semester			Spring Semester		
Hrs	Course #	Course Name	Hrs	Course #	Course Name
3	ENGN 101	Engineering Design I ¹	3	ENGN 102	Engineering Design II ¹
4	CHEM 103	General Chemistry I ²	3	ENGN 170	Logic and Computer Engn. ¹
4	MATH 147	Calculus I ¹	5	PHYS 201	General Physics I ¹
3	THEO 101	Christian Formation ²	4	MATH 148	Calculus II ¹
3	ENGL 109	College Writing I ²	1	FINA 101	Intro to Fine Arts
17	Total Hours		18	Total Hours	

¹ The student is required to take this course during the Freshman semester indicated. Failure to take this course may result in a delayed graduation date.

² It is strongly recommended that the student take this course during the Freshman semester indicated.

Alternate Freshman Year

The **Alternate Freshman Year** is for the student who is not ready to take Calculus I in the Fall semester. This student must take **Calculus II** either in the Summer after the Freshman year or in the Fall of their Sophomore year (the second option is not preferred because it still puts the student behind). *Calculus II is not usually offered at ONU in the summer, but many community colleges offer it.* The **Alternate Freshman Year** schedule is not ideal and will be a challenge, but it is “do-able.”

Fall Semester			Spring Semester		
Hrs	Course #	Course Name	Hrs	Course #	Course Name
3	ENGN 101	Engineering Design I ¹	1	ENGN 102	Engineering Design II ¹
4	CHEM 103	General Chemistry I ²	3	ENGN 170	Logic and Computer Engn. ¹
4	MATH 131	Algebra and Trigonometry ¹	5	PHYS 201	General Physics I ¹
1	THEO 101	Christian Formation ²	4	MATH 147	Calculus I ¹
3	ENGL 109	College Writing I ²	3	FINA 101	Intro to Fine Arts ²
15.5	Total Hours		17	Total Hours	

¹ The student is required to take this course during the Freshman semester indicated. Failure to take this course may result in a delayed graduation date.

² It is strongly recommended that the student take this course during the Freshman semester indicated.