

# Pre-Optometry with any major

## Freshman Year

Fall		Credits
BIOL 150 & 150L	General Biology I and General Biology I Laboratory	4
CHEM 121 & 121L	General Chemistry I and General Chemistry I Laboratory	4
MATH 103	College Algebra	3
Major/Essential Studies/Group 1** courses		4
<b>Credits</b>		<b>15</b>

## Spring

BIOL 151 & 151L	General Biology II and General Biology II Laboratory	4
CHEM 122 & 122L	General Chemistry II and General Chemistry II Laboratory	4
Major/Essential Studies/Group 1** courses		7
<b>Credits</b>		<b>15</b>

## Sophomore Year

Fall		Credits
CHEM 341 & 341L	Organic Chemistry I and Organic Chemistry I Laboratory ***	4
BIOL 315	Genetics	3
BIMD 220 & 220L	Human Anatomy Physiology I and Human Anatomy Physiology I Lab	4
Major/Essential Studies/Group 1 or 2** courses		5
<b>Credits</b>		<b>16</b>

## Spring

CHEM 342 & 342L	Organic Chemistry II and Organic Chemistry II Laboratory ***	4
BIOL 341	Cell Biology	3
BIMD 221 & 221L	Human Anatomy Physiology II and Human Anatomy Physiology II Lab	4
Major/Essential Studies/Group 1 or 2** courses		5
<b>Credits</b>		<b>16</b>

## Junior Year

Fall		Credits
PHYS 211	College Physics I	4
Major/Essential Studies/Group 1, 2 or 3** courses		12
<b>Credits</b>		<b>16</b>

## Spring

PHYS 212	College Physics II	4
BIMD 301	Biochemistry	3
Major/Essential Studies/Group 1, 2 or 3** courses		5-6
<b>Credits</b>		<b>12-13</b>

## Senior Year

Fall		Credits
Major/Essential Studies/Group 2 or 3** courses		15
<b>Credits</b>		<b>15</b>

## Spring

BIMD 302 & 302L	General Microbiology Lecture and General Microbiology Laboratory	4
Major/Essential Studies/Group 2 or 3** courses		11
<b>Credits</b>		<b>15</b>

**Total Credits 120-121**

and Disorders major is an exception). The combination of the Pre-Optometry program with a major outside of the College of Arts and Sciences, such as most majors within the John D. Odegard School of Aerospace Sciences, the College of Engineering and Mines, the Nistler College of Business and Public Administration, the College of Nursing and Professional Disciplines, the College of Education and Human Development, and the School of Medicine and Health Sciences, may take longer. All students must earn at least 120 credits (36 of which must be 300-400 level), fulfill Essential Studies requirements, and complete all major requirements in order to graduate with a bachelor's degree from UND. Students should meet with their Health Sciences advisor and major advisor regularly to ensure all requirements are met by the time of graduation.

\*\*Courses for Groups 1, 2, and 3:

Group 1 courses are required: COMM 110, ENGL 110, ENGL 130, MATH 146, PSYC 111, a Statistics class

Group 2 courses are good electives: ENTR 101, ECON 201, MGMT 300, COMM 212, COMM 380, MED 205, SOC 110, N&D 240, PHE 101, PHE 102, PHE 103, PHIL 120, PHIL 245

Group 3 courses are upper level science electives:

Fall courses: BIMD 328, BIOL 378, BIOL 364/L, BIOL 390, BIOL 420, BIOL 442, PPT 315

Spring courses: BIOL 369/L, PPT 315

\*\*\*Level of Organic Chemistry needed will vary based on UND major and optometry school. Depending on UND major and optometry schools on interest, CHEM 340: Survey of Organic Chemistry & CHEM 340L (spring only) may be taken in place of CHEM 341 and CHEM 342 (with labs).

Students are recommended to take a lighter credit load (12-13) the semester of their OAT exam.

\*The combination of the Pre-Optometry Program with a major in the College of Arts and Sciences can usually be finished in 4 years if both major and Pre-Optometry classes are started the first year (the Communication Sciences