

## Pre-Professional Health Optometry Programs

The following list will take you to the curriculum maps for each potential pre-professional health major for the optometry field:

- [B.S. Biology/Pre-Optometry](#)
- [B.S. Chemistry/Pre-Optometry](#)
- [B.S. Molecular Biology and Biotechnology / Pre-Optometry](#)
- [B.A. Psychology/Pre-Optometry](#)
- [B.S. Psychology/Pre-Optometry](#)

## Tentative Four-Year Plan: BS Biology / Pre-Optometry

The below is a tentative schedule and assumes the incoming student with the following placements; Pre-Calculus (Math 171) and College Writing II (ENGL 111). It is highly recommended that you consult a pre-professional faculty advisor to adapt the schedule to your particular circumstances.

Please check with specific Optometry programs for pre-requisites not included below. Some possible recommended courses may include: Microeconomics or Macroeconomics, and Medical Terminology

<b>Tentative Four-Year Plan: BS Biology / Pre-Optometry</b>		
<b>Class</b>	<b>Fall Term</b>	<b>Spring Term</b>
Freshman	BIOL 105: Freshman Biology Seminar BIOL 155: Principles of Biology I BIOL 165: Principles of Biology I Laboratory CHEM 153: General Chemistry I CHEM 163: General Chemistry I Laboratory INQ 1XX Freshman Inquiry Seminar ENG 111: College Writing <div style="text-align: right;">Credits: 15</div>	BIOL 156: Principles of Biology II BIOL 166: Principles of Biology II Laboratory CHEM 154: General Chemistry II CHEM 164: General Chemistry II Laboratory MATH 171: Precalculus PSY 211: General Psychology <div style="text-align: right;">Credits: 15</div>

**Summer: Job Shadow**

Sophomore	BIOL 201: Genetics BIOL 203: Cell Biology CHEM 251: Organic Chemistry I CHEM 261: Organic Chemistry I Laboratory MATH 270: Calculus I Gen Ed: NFSS 1XX <div style="text-align: right;">Credits: 15</div>	BIOL 202: Principles of Ecology BIOL 341: General Microbiology CHEM 252: Organic Chemistry II CHEM 262: Organic Chemistry II Laboratory SOC 211: Principles of Sociology <div style="text-align: right;">Credits: 14</div>
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**Summer: Job Shadow and OAT Prep**

Junior	BIOL 251: Human Anatomy & Physiology I BIOL 261: Human Anatomy & Physiology I Lab PH 251: General Physics I BCHM 453: Biochemistry Gen Ed: Elective (as needed) NFSS 111: Health Education <div style="text-align: right;">Credits: 16</div>	BIOL 252: Human Anatomy & Physiology II BIOL 262: Human Anatomy & Physiology II Lab PH 252: General Physics II BIOL Elective (BIOL 300+) MATH 221: Elem. Applied Stats Gen Ed: English <div style="text-align: right;">Credits: 17</div>
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**Summer: Take OAT and Submit Application**

Senior	BIOL Elective (BIOL 300+) BIOL Elective (BIOL 300+) Gen Ed: Elective (as needed)	BIOL Elective (BIOL 300+) Gen Ed: Elective (as needed) Gen Ed: Elective (as needed)
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	Gen Ed: Elective (as needed) Gen Ed: Elective (as needed)  Credits: 15-17	Gen Ed: Elective (as needed) Gen Ed: Elective (as needed)  Credits: 15-16
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## Tentative Four-Year Plan: BS Chemistry / Pre-Optometry

The below is a tentative schedule and assumes the incoming student with the following placements; Pre-Calculus (Math 171) and College Writing II (ENGL 111). It is highly recommended that you consult a pre-professional faculty advisor to adapt the schedule to your particular circumstances.

Please check with any specific Dental program requirements not covered below. Some possible recommended courses would include the following: Microeconomics or Macroeconomics, and Medical Terminology

Class	Fall Term	Spring Term
Freshman	CHEM 151: Chemical Principles I CHEM 161: Chemical Principles Lab MATH 171: Precalculus BIOL 155: Principles of Biology I BIOL 165: Principles of Biology I Lab INQ 1XX: Freshman Inquiry Seminar Credits: 15	CHEM 152: Chemical Principles II CHEM 162: Chemical Principles. II Lab MATH 270: Calculus I BIOL 156: Principles of Biology II BIOL 166: Principles of Biology II Lab ENG 111: College Writing Credits: 15

**Summer: Job Shadow**

Sophomore	CHEM 251: Organic Chemistry I CHEM 261: Organic Chemistry I Lab MATH 271: Calculus II PH 251: General Physics I <b>OR</b> PH 258: Introduction to Physics I PH 268: Introduction to Physics I Lab PSY 211: General Psychology Credits: 15	CHEM 252: Organic Chemistry II CHEM 262: Organic Chemistry II Lab CHEM 265: Inorganic Chemistry I CHEM 266: Inorganic Chemistry I Lab PH 252: General Physics II <b>OR</b> PH 258: Introduction to Physics II PH 268: Introduction to Physics II Lab SOC 211: Principles of Sociology Credits: 15
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**Summer: Job Shadow and OAT Prep**

Junior	CHEM 366: Inorganic Chemistry II CHEM 367: Inorganic Chemistry II Lab CHEM 353: Analytical Chemistry I CHEM 363: Analytical Chemistry I Lab  BIOL 251: Human Anatomy & Physiology I BIOL 261: Human Anatomy & Physiology I Lab Gen Ed: Elective (as needed) Credits: 14	CHEM 257 Organic Spectroscopy BIOL 252: Human Anatomy & Physiology II BIOL 262: Human Anatomy & Physiology II Lab CHEM 358 Analytical Chemistry II CHEM 368 Analytical Chemistry II Lab Gen Ed: Elective (as needed) NFSS 111: Health Education Credits: 16
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**Summer: Take OAT and Submit Application**

Senior	CHEM 354: Physical Chemistry I CHEM 364 Physical Chemistry I Lab BCHM 453 Biochemistry I BCHM 463 Biochemistry Lab Gen Ed: Elective (as needed) Gen Ed: Elective (as needed) 1XX Health Education Credits: 15	CHEM 355 Physical Chemistry II CHEM 470 Chemistry Seminar Gen Ed: Elective (as needed) Gen Ed: Elective (as needed) Gen Ed: Elective (as needed) Credits: 15
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## Tentative Four-Year Plan: BS Molecular Biology and Biotechnology / Pre-Optometry

The below is a tentative schedule and assumes the incoming student with the following placements; Pre-Calculus (Math 171) and College Writing II (ENGL 111). It is highly recommended that you consult a pre-professional faculty advisor to adapt the schedule to your particular circumstances.

Please check with any specific Dental program requirements not covered below. Some possible recommended courses would include the following: Microeconomics or Macroeconomics, and Medical Terminology

<b>Tentative Four-Year Plan: BS Molecular Biology and Biotechnology / Pre-Optometry</b>		
<b>Class</b>	<b>Fall Term</b>	<b>Spring Term</b>
Freshman	BIOL 105: Freshman Biology Seminar BIOL 155: Principles of Biology I BIOL 165: Principles of Biology I Laboratory CHEM 153: General Chemistry I CHEM 163: General Chemistry I Laboratory INQ 1XX: Freshman Inquiry Seminar ENG 111: College Writing Credits: 15	BIOL 156: Principles of Biology II BIOL 166: Principles of Biology II Laboratory CHEM 154: General Chemistry II CHEM 164: General Chemistry II Laboratory MATH 171: Precalculus PYSH 211: General Psychology Credits: 15

**Summer: Job Shadow**

Sophomore	BIOL 201: Genetics BIOL 203: Cell Biology CHEM 251: Organic Chemistry I CHEM 261: Organic Chemistry I Laboratory SOC 211: Principles of Sociology NFSS 111: Health Education Credits: 15	BIOL 341: General Microbiology CHEM 252: Organic Chemistry II CHEM 262: Organic Chemistry II Laboratory MATH 270: Calculus I Gen Ed: English Credits: 15
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**Summer: Job Shadow and OAT Prep**

Junior	BIOL 251: Anatomy and Physiology I BIOL 261: Anatomy and Physiology I Laboratory PH 251: General Physics I BCHM 453: Biochemistry BCHM 463: Biochemistry Lab BIOL 483: Molecular Biology Credits: 16	BIOL 252: Anatomy and Physiology II BIOL 262: Anatomy and Physiology Laboratory II PH 252: General Physics II BIOL 450: Cell Physiology MATH 221: Statistics Credits: 14
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**Summer: Take OAT and Submit Application**

Senior	BIOL Elective (BIOL 300+) BIOL Elective (BIOL 300+) Gen Ed: Elective (as needed) Gen Ed: Elective (as needed) Gen Ed: Elective (as needed)	BIOL 485: Biotechnology BIOL 450: Cell Physiology Gen Ed: Elective (as needed) Gen Ed: Elective (as needed) NFSS 111: Health Education
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	Credits: 15-17	Credits: 15
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## Tentative Four-Year Plan: BA Psychology/Pre-Optometry

The below is a tentative schedule and assumes the incoming student with the following placements; Pre-Calculus (Math 171) and College Writing II (ENGL 111). It is highly recommended that you consult a pre-professional faculty advisor to adapt the schedule to your particular circumstances.

Please check with specific Optometry programs for pre-requisites not included below. Some possible recommended courses may include: Microeconomics or Macroeconomics, and Medical Terminology

<b>Tentative Four-Year Plan: BA Psychology/Pre-Optometry</b>		
<b>Class</b>	<b>Fall Term</b>	<b>Spring Term</b>
Freshman	BIOL 155: Principles of Biology 1 BIOL 165: Principles of Biology I Laboratory ENG 110 or 111: Writing PSY 211: General Psychology SPAN 151/FR 151: Spanish I/French I INQ 1XX Freshman Inquiry Seminar  Credits: 16	BIOL 156: Principles of Biology II BIOL 166: Principles of Biology II Laboratory MATH 171: Pre-calculus ENG 111 or advanced writing course PSY 310: Developmental Psychology SPAN 152/FR 152: Spanish II/French II  Credits: 17

**Summer: Job Shadow**

Sophomore	CHEM 153: General Chemistry I CHEM 163: General Chemistry I Laboratory MATH 270: Calculus I PH 251: General Physics I PSY 301: Statistics SPAN 251/FR 251: Spanish III/French III Gen Ed: NFSS 1XX  Credits: 18	CHEM 154: General Chemistry II CHEM 164: General Chemistry II Laboratory PH 252: General Physics II PSY 311: Research Methods PSY 354: Abnormal Psychology SPAN 252/FR 252: Spanish IV/French IV NFSS 111: Health Education  Credits: 18
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**Summer: Job Shadow and OAT Prep**

Junior	CHEM 251: Organic Chemistry CHEM 261: Organic Chemistry Laboratory MATH 271: Calculus II PSY 355: Social Psychology PSY 3XX: Elective PSY 3XX: Elective  Credits: 17	CHEM 252: Organic Chemistry II CHEM 262: Organic Chemistry II Laboratory PHIL 111: Critical Thinking PS 211: American Government PSY 3XX: Elective PSY Elective  Credits: 16
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**Summer: Job Shadow and OAT Prep**

Senior	ECON 221 or 222: Micro or Macro Economics PHIL 212: Ethics PSY 470: Senior Seminar PSY Elective BIOL 341: General Microbiology Credits: 15	AH 101: Medical Terminology Elective Elective Elective Elective Credits: 15
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**Summer: Take OAT and Submit Application**

**Note – This tentative academic plan assumes that the required course for this pre-professional program will not be completed until graduation. Thus the student will apply after graduation and have a gap/push year before matriculating into a pre-professional program. Please consult your pre-professional advisor for the feasibility of completing the required course work and other requirements in three years and thus apply before graduation.**

## Tentative Four-Year Plan: BS Psychology/Pre-Optometry

The below is a tentative schedule and assumes the incoming student with the following placements; Pre-Calculus (Math 171) and College Writing II (ENGL 111). It is highly recommended that you consult a pre-professional faculty advisor to adapt the schedule to your particular circumstances.

Please check with specific Optometry programs for pre-requisites not included below. Some possible recommended courses may include: Microeconomics or Macroeconomics, and Medical Terminology

<b>Tentative Four-Year Plan: BS Psychology/Pre-Optometry</b>		
<b>Class</b>	<b>Fall Term</b>	<b>Spring Term</b>
Freshman	BIOL 155: Principles of Biology 1 BIOL 165: Principles of Biology I Laboratory ENG 110 or 111: Writing PSY 211: General Psychology General Education Skills Course INQ 1XX Freshman Inquiry Seminar  Credits: 16	BIOL 156: Principles of Biology II BIOL 166: Principles of Biology II Laboratory MATH 171: Pre-calculus ENG 111 or advanced writing course PSY 310: Developmental Psychology General Education Skills Course  Credits: 17

**Summer: Job Shadow**

Sophomore	CHEM 153: General Chemistry I CHEM 163: General Chemistry I Laboratory MATH 270: Calculus I PH 251: General Physics I PSY 301: Statistics General Education Arts and Humanities Course Gen Ed: NFSS 1XX  Credits: 18	CHEM 154: General Chemistry II CHEM 164: General Chemistry II Laboratory PH 252: General Physics II PSY 311: Research Methods PSY 354: Abnormal Psychology General Education Arts and Humanities Course NFSS 111: Health Education  Credits: 18
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**Summer: Job Shadow and OAT Prep**

Junior	CHEM 251: Organic Chemistry CHEM 261: Organic Chemistry Laboratory MATH 271: Calculus II PSY 355: Social Psychology PSY 351: Biopsychology PSY 3XX: Elective  Credits: 17	CHEM 252: Organic Chemistry II CHEM 262: Organic Chemistry II Laboratory PHIL 111: Critical Thinking PS 211: American Government PSY 3XX: Elective PSY 454: Personality  Credits: 16
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**Summer: Job Shadow and OAT Prep**

Senior	ECON 221 or 222: Micro or Macro Economics PHIL 212: Ethics PSY 470: Senior Seminar PSY Elective BIOL 341: General Microbiology Credits: 15	AH 101: Medical Terminology PSY Elective PSY Elective Gen Ed: Elective (as needed) Gen Ed: Elective (as needed) Credits: 15
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**Summer: Take OAT and Submit Application**

**Note – This tentative academic plan assumes that the required course for physical therapy programs will not be completed until after graduation. Thus the student will apply after graduation and have a gap/push year before matriculating into a physical therapy program. Please consult your pre-professional advisor for the feasibility of completing the physical therapy requirements in three years and thus apply before graduation.**