

## Pre-Optometry Advising

Listed below are required and recommended courses for entry into optometry school. Requirements vary widely from one school to the next, so students should consult the Association of Schools and Colleges of Optometry (ASCO) website <http://www.opted.org/>.

Admission is competitive. Applicants must have a baccalaureate degree. Most students choose to earn a degree in Biology or Chemistry. Students may earn a baccalaureate degree in any field as long as the degree allows for a sufficient amount of free electives so that all of the required medical school courses can be taken.

<b>General Chemistry (for science majors)</b>	<b>Required – 8 hours</b> ___ CHEM 1017 (3 hours) – General Chemistry I: Eligible for MATH 1125 ___ CHEM 1007 (1 hour) – General Chemistry I Lab: Eligible for MATH 1125 ___ CHEM 1018 (3 hours) – General Chemistry II: C or better in CHEM 1017 ___ CHEM 1008 (1 hour) – General Chemistry II Lab: C or better in CHEM 1017 & 1007
<b>Organic Chemistry (for science majors)</b>	<b>Required – 8 hours*</b> ___ CHEM 2217 (3 hours) – Organic Chemistry I: C or better in CHEM 1018 ___ CHEM 2017 (1 hour) – Organic Synthesis Lab I: C or better in CHEM 1018 & 1008 ___ CHEM 3218 (3 hours) – Organic Chemistry II: C or better in CHEM 2217* ___ CHEM 3018 (1 hour) – Organic Chemistry Lab II: C or better in CHEM 2017 & 2217* <b>*Some schools only require one semester of Organic Chemistry</b>
<b>General Biology (for science majors)</b>	<b>Required – 8 hours</b> ___ BIOS 1083 (3 hours) – General Biology I: Eligible for MATH 1125 & ENGL 1157 ___ BIOS 1081 (1 hour) – General Biology I Lab: Eligible for MATH 1125 & ENGL 1157 ___ BIOS 1073 (3 hours) – General Biology II: Eligible for MATH 1125 & ENGL 1157 ___ BIOS 1071 (1 hour) – General Biology II Lab: Eligible for MATH 1125 & ENGL 1157
<b>Physics (for science majors)</b>	<b>Required – 8 hours</b> ___ PHYS 1031 (3 hours) – General Physics I: Credit in MATH 1116, 1126, 2107 or 2111 ___ PHYS 1033 (1 hour) – General Physics I Lab: Credit or registration in PHYS 1031 ___ PHYS 1032 (3 hours) – General Physics II: C or better in PHYS 1031 ___ PHYS 1034 (1 hour) – General Physics II Lab: Credit or registration in PHYS 1032 <b>OR</b> ___ PHYS 1061 (3 hours) – Physics for Science & Engineering I: Credit or concurrent enrollment in MATH 2111, 2107, or 2114 ___ PHYS 1063 (1 hour) – Physics Lab for Science & Engineering I: Credit or registration in PHYS 1061 ___ PHYS 1062 (3 hours) – Physics for Science & Engineering II: C or better in PHYS 1061, credit or concurrent enrollment in MATH 2108, 2112, or 2124, & credit or concurrent enrollment in PHYS 1065 ___ PHYS 1065 (1 hour) – Physics Lab for Science & Engineering II: Credit or registration in PHYS 1062

<b>Statistics</b>	<b>Required – 3 hours</b> ___ MATH 2314 (3 hours) – Elementary Statistical Methods: Credit in MATH 1115 or higher or 6 hours of college level mathematics* <b>*Statistics is required by most schools</b>
<b>English</b>	<b>Required – 9 hours</b> ___ ENGL 1157 (3 hours) – English Composition I: Minimum ACT English score of 18 ___ ENGL 1158 (3 hours) – English Composition II: Credit in ENGL 1157
<b>Math</b>	<b>Required – 6 hours*</b> ___ MATH 1125 (3 hours) – Pre-Calculus Algebra: Minimum ACT Math score of 22 ___ MATH 1126 (3 hours) – Pre-Calculus Trigonometry: C or better in MATH 1125 ___ MATH 2114 (4 hours) – Calculus: C or better in MATH 1126* ___ MATH 2124 (4 hours) – Calculus II: C or better in MATH 2114* <b>*Only 2 of 17 schools require 2 semesters of calculus</b>
<b>Strongly Recommended Courses</b>	___ BIOS 3113 (3 hours) – Immunology ___ BIOS 2014 (4 hours) – Population Genetics, Evolution, & Ecology ___ BIOS 2114 (4 hours) – Cell & Molecular Biology ___ BIOS 2743 (3 hours) – Micro Biology & Human Disease <b>*required by some schools</b> ___ BIOS 2741 (1 hour) – Micro Biology & Human Disease Lab ___ BIOS 3453 (3 hours) – Genetics ___ BIOS 3354 (4 hours) – Vertebrate Physiology <b>*required by some schools</b> ___ BIOS 4103 (3 hours) – Biochemistry I <b>*required by some schools</b> ___ BIOS 4113 (3 hours) – Biochemistry II <b>*required by some schools</b> ___ BIOS 4153 (3 hours) – Molecular Biology ___ BIOS 4413 (3 hours) – Developmental Biology ___ BIOS 4713 (3 hours) – Advanced Microbiology

**Desirable courses:** Computer Sciences, Economics, Foreign Language, History, Philosophy, Public Speaking, Social Sciences

### **ADMISSION TESTING: THE OAT**

Registration for the Optometry Admission Test (OAT) can be done through the ASCO website: <http://www.ada.org/en/oat>

### **APPLICATION INFORMATION**

Students should refer to the ASCO website for detailed information on prerequisites and application procedures: <http://www.optomcas.org/>.

**UNO Student Organization-Alpha Epsilon Delta (AED) Pre-professional Health Honor Society:** If you are interested in joining, see Teresa in the Biological Sciences Department

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