

University of St. Thomas  
**Pre-Optometry Program**  
 2016-2018 Catalog

<b>Pre-Optometry Program (49 credit hours)</b>	Complete	Needed
<b>Chemistry (12 credit hours)</b> Must take in order:		
<input type="checkbox"/> CHEM 1341/1141 – General Chemistry I and laboratory <input type="checkbox"/> CHEM 1342/1142 – General Chemistry II and laboratory <input type="checkbox"/> CHEM 2343/2143 – Organic Chemistry I and laboratory		
<b>Physics (8 credit hours)</b> Choose <b>one pair</b> of classes.		
<input type="checkbox"/> PHYS 1331/1111 – General Physics I w/lab <input type="checkbox"/> PHYS 2333/2111 – University Physics I w/lab <input type="checkbox"/> PHYS 1332/1112 – General Physics II w/lab <input type="checkbox"/> PHYS 2334/2112 – University Physics II w/lab		
<b>Biology (15 credit hours)</b> Must take in order:		
<input type="checkbox"/> BIOL 1351/1151 – Introduction to Population Biology and Evolution with lab <input type="checkbox"/> BIOL 1352/1152 – Introduction to Cell and Molecular Biology with lab <input type="checkbox"/> BIOL 3321 – Genetics <input type="checkbox"/> BIOL 3333/3133 – Microbiology with Lab		
<b>Biochemistry (3 credit hours)</b>		
<input type="checkbox"/> BIOL/CHEM 3334 – Biochemistry		
<b>Mathematics (4 credit hours)</b>		
<input type="checkbox"/> MATH 1431 – Calculus I		
<b>Statistics (4 credit hours)</b> Choose <b>one</b> of the following:		
<input type="checkbox"/> MATH 2434 – Applied Statistical Concepts <input type="checkbox"/> MATH 3450/1050 – Biostatistics I		
<b>Psychology (3 credit hours)</b>		
<input type="checkbox"/> PSYC 1332 – General Psychology		
<b>Total</b>	Completed	Needed
<b>Total for program:</b>		

TOTAL: 49

See back for additional requirements for Optometry programs at Texas schools.

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<b>Additional Requirements (Program-Specific)</b>	Complete	Needed
<b>University of Houston College of Optometry (5 credit hours)</b>		
<p>Advanced Anatomy and/or Advanced Physiology (higher than A&amp;P I or II) are recommended. Acceptance of other advanced biology courses to satisfy prerequisite requirements is at the discretion of the admissions committee. It is recommended that applicants receive prior approval from the Program Manager for Admissions for applicable courses. Courses such as genetics, molecular biology, cell biology, neuroscience, anatomy, physiology, advanced human physiology, mammalian physiology, immunology, and endocrinology will be acceptable. Courses such as plant physiology, ecology, biodiversity, biotechnology will not be accepted.</p> <p>Choose a combination of <b>two</b> to meet the additional 5 hours of advanced biology from the following:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> BIOL 3339 – Neuroscience</li> <li><input type="checkbox"/> BIOL 3345 – Physiology</li> <li><input type="checkbox"/> BIOL 3351 – Molecular Biology</li> <li><input type="checkbox"/> BIOL 3461 – Cell Biology</li> <li><input type="checkbox"/> BIOL 4449 – Immunology</li> <li><input type="checkbox"/> BIOL 2445 – Human Anatomy and Physiology I</li> <li><input type="checkbox"/> BIOL 3448 – Comparative Anatomy</li> <li><input type="checkbox"/> Other appropriate biology course per description above</li> </ul>		
<b>University of the Incarnate Word College of Optometry</b>		
<p>Recommended:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> BIOL 2445 – Human Anatomy and Physiology I</li> <li><input type="checkbox"/> BIOL 3448 – BIOL 3448 – Comparative Anatomy</li> <li><input type="checkbox"/> PHIL 2314 - Ethics (may be included in UST core curriculum)</li> </ul>		