

# REQUIREMENTS FOR THE MASTER OF SCIENCE

## COLLEGE OF ARTS & SCIENCES

THE UNIVERSITY OF OKLAHOMA

For Students Entering the Oklahoma State System for Higher Education:  
**Summer 2018 through Spring 2019**

### GENERAL REQUIREMENTS

**Minimum Total Hours (Thesis) . . . . . 36**  
**Minimum Total Hours (Non-Thesis) . . . . . 38**

### Chemistry: Bioinformatics

**M170-Q061**  
*Master of Science*

REQUIRED COURSES		Notes:
<p><b>Required Courses:</b></p> <p style="padding-left: 20px;"><b>BIOL 5903</b>, Bioinformatics: Applications <span style="float: right;">3</span></p> <p style="padding-left: 20px;"><b>BIOL 5913</b>, Bioinformatics: Programming <span style="float: right;">3</span></p> <p><b>Core Courses:</b></p> <p style="padding-left: 20px;"><i>Thesis Option</i> (15 hours) <span style="float: right;">15-21</span>                      A minimum of fifteen hours in lecture courses at the 5/6000 level selected from at least two of the five divisions of Chemistry and Biochemistry (Analytical, Biochemistry, Inorganic, Organic and Physical).</p> <p style="padding-left: 20px;"><i>Non-Thesis Option</i> (21 hours)                      A minimum of twenty-one hours in lecture courses at the 5/6000 level selected from at least three of the five divisions of Chemistry and Biochemistry (Analytical, Biochemistry, Inorganic, Organic and Physical). No more than six of the hours may be taken at the 4000G level. At least one three hour lecture course from the three divisions must be taken at the 5/6000 level.</p> <p><b>Electives:</b> <span style="float: right;">9-11</span>                      Remaining hours may be filled by any other graduate level courses, as approved by the graduate liaison.</p> <p><b>Thesis (<i>Thesis Option only</i>):</b></p> <p style="padding-left: 20px;"><b>CHEM 5980</b>, Research for Master's Thesis <span style="float: right;">6</span>  <i>The comprehensive final examination over all of the work offered for the degree, including the thesis, is oral.</i></p>	<p>A maximum of two core courses may be taken in department(s) outside of the Department of Chemistry as substitution(s); however, all outside courses must be approved in writing by the departmental graduate committee and must be written as such on the candidacy form.</p> <p>A maximum of nine hours of Independent Study, CHEM 5990, may be applied to the master's degree.</p> <p>All graduate students must also enroll and participate in the Departmental Colloquium, CHEM 6970, for zero credit hours (these do not have to be on the candidacy form) throughout the entire period of their graduate studies (excluding summer semesters).</p> <p>Bioinformatics students are required to take at least two courses from non-host departments. The two bioinformatics courses (BIOL 5903 and BIOL 5913) may not be used to satisfy the non-host department requirement.</p> <p>The master's degree requires the equivalent of at least two semesters of satisfactory graduate work and additional work as may be prescribed for the degree.</p> <p>All coursework applied to the master's degree must carry graduate credit.</p> <p>Master's degree programs which require a thesis consist of <i>at least</i> 30 credit hours.                      All non-thesis master's degree programs require <i>at least</i> 32 credit hours.                      Credit transferred from other institutions must meet specific criteria and is subject to certain limitations.</p> <p>Courses completed through correspondence study may <i>not</i> be applied to the master's degree</p> <p>To qualify for a graduate degree, students must achieve an overall grade point average of 3.0 or higher in the degree program coursework and in all resident graduate coursework attempted. A student must also have at least a 3.0 in all coursework (including undergraduate coursework if any).</p>	

A student who has done satisfactory graduate work and has earned a 3.0 grade point average may file for master's candidacy.

Program effective SU04. Check sheet version, 3/2015.