## 4-Year PhD Program

| Stream   | 1st Year         | 2nd Year   | 3rd year – achieved PhD Candidacy   | 4th Year  |
|--|------------------|--|---|---|
| Analytical   | 1-2 grad courses | *1-2 grad courses<br>*1 <sup>st</sup> <i>research-based</i> seminar  | *Normally, achieve 30 ASP points<br>*Normally, complete 4 <sup>th</sup> grad course<br>*Pass comprehensive departmental oral exam by end of 2 <sup>nd</sup><br>term | ABD – All But Dissertation<br>*2 <sup>nd</sup> research-based seminar                             |
| Environmental  | 1-2 grad courses | *1-2 grad courses<br>*Complete final course credit requirement<br>*1 <sup>st</sup> seminar ( <i>Research proposal, on a topic other than</i><br><i>the primary research topic</i> )  | *Pass comprehensive departmental oral exam  | ABD – All But Dissertation<br>*2 <sup>nd</sup> seminar FOE ( <i>original</i><br><i>research</i> ) |
| Inorganic  | 1-2 grad courses | <ul> <li>*1-2 grad courses</li> <li>*Complete final course credit requirement</li> <li>*1<sup>st</sup> seminar (<i>research</i>)</li> <li>*6 months after completing courses; pass comprehensive departmental oral exam</li> </ul>   | *2 <sup>nd</sup> seminar ( <i>original research proposal</i> )  | ABD – All But Dissertation<br>*3 <sup>rd</sup> seminar ( <i>research</i> )                        |
| Biological   | 1-2 grad courses | <ul> <li>*1-2 grad courses</li> <li>*Complete final course credit requirement</li> <li>*1<sup>st</sup> seminar (<i>literature-based</i> seminar)</li> <li>*Pass 7 cumulative exams, ideally</li> </ul>                               | *Pass comprehensive departmental oral exam  | ABD – All But Dissertation<br>*2 <sup>nd</sup> seminar ( <i>research</i> -<br><i>based</i> )      |
| Organic  | *2 grad courses  | *1-2 grad courses (if credited 1 course from MSc)<br>*1st seminar ( <i>literature-based</i> )  | *Pass 7 cumulative exams by end of 1st term<br>*Pass comprehensive departmental oral exam by end of 2nd<br>term   | *2nd seminar ( <i>research</i> )  |
| Experimental<br>(Physical<br>Chemistry &<br>Chemical<br>Physics) | 1-2 grad courses | <ul> <li>*1-2 grad courses</li> <li>* Complete final course credit requirement</li> <li>*1<sup>st</sup> seminar (<i>original research</i>)</li> <li>*Consult with supervisor regarding timing of comprehensive oral exam.</li> </ul> | *Pass comprehensive departmental oral exam  | <b>ABD – All But Dissertation</b><br>*2 <sup>nd</sup> seminar ( <i>original research</i> )        |
| Theoretical<br>(Chemical<br>Physics &<br>Physical<br>Chemistry)  | 1-3 grad courses | *1-3 grad courses<br>* Complete final course credit requirement<br>*1 <sup>st</sup> seminar ( <i>original research</i> )   | *Pass comprehensive departmental oral exam (consult with supervisor in your 2nd year with regards to timing)  | <b>ABD – All But Dissertation</b><br>*2 <sup>nd</sup> seminar ( <i>original research</i> )        |

| Polymers &<br>Materials | *1-2 grad courses<br>*1 <sup>st</sup> seminar <i>(literature talk</i> )          | *1-2 grad courses<br>*Complete final course credit requirement<br>*2 <sup>nd</sup> seminar (presentations on <i>the original research</i> )   | *Pass comprehensive departmental oral exam  | ABD – All But Dissertation<br>*3 <sup>rd</sup> seminar (presentation on<br>the <i>original research</i> ) |
|-------------------------|--|---|---|---|
| Interdisciplinary       | *1-2 grad courses<br>*seminar requirement will<br>depend on the chosen<br>stream | *1-2 grad courses<br>*Complete final course credit requirement<br>*seminar requirement will depend on the chosen stream<br>*Consult with supervisor regarding timing of<br>comprehensive oral exam. | *Pass comprehensive departmental oral exam<br>*seminar requirement will depend on the chosen stream | ABD – All But Dissertation<br>*seminar requirement will<br>depend on the chosen stream                    |

Doctoral students with an MSc degree are able to apply for course load reduction. See <u>http://www.chem.utoronto.ca/grad/phd\_guide.php#course</u> for more information. Course credits earned by those who completed their MSc Degree in Chemistry at UofT will be counted towards the doctoral program.