## Degree Level Expectations, Learning Outcomes, Indicators of Achievement and the Program Requirements that Support the Learning Outcomes

<table>
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<th>Expectations (general descriptors from OCAV)</th>
<th>Learning Outcomes (program specific)**</th>
<th>Indicators of Achievement</th>
<th>Relevant Courses and academic requirements (requirements that contribute to the achievement of learning outcomes and degree expectations)</th>
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| Depth and breadth of knowledge              | A systematic understanding of knowledge, and a critical awareness of current problems and/or new insights, much of which is at, or informed by, the forefront of their academic discipline, field of study or area of professional practice | Successful completion of comprehensive exam | AODA 800  
Thesis proposal  
Submission of annual progress report  
Thesis (GEOL 999) which must be orally defended |
| Research and scholarship                    | A conceptual understanding and methodological competence that enables: Comprehension and application of how established techniques of research and inquiry are used to create and interpret knowledge in the discipline; Critical evaluation of current research and advanced research and scholarship in the discipline or area of professional competence; and Treat complex issues and judgments based on established principles and techniques, And, on the basis of that competence, candidates are able to: Develop and support a sustained argument in | Successful completion of comprehensive exam  
Successful completion and defense of thesis | Comprehensive exam  
Completion of PhD thesis |
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<th>Application of Knowledge</th>
<th>Competence in the research process by applying an existing body of knowledge in the critical analysis of a new question or of a specific problem or issue in a new setting</th>
<th>Successful completion of PhD thesis, which includes a literature review</th>
<th>Thesis proposal, PhD thesis</th>
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| Professional capacity/autonomy | a) the qualities and transferable skills necessary for employment training  
   i. the exercise of initiative and of personal responsibility accountability; and  
   ii. decision-making in complex situations; and  

b) the intellectual independence required for continuing professional development;  

c) the ethical behaviour consistent with academic integrity and the use of appropriate guidelines and procedures for responsible conduct of research; and the ability to appreciate the broader implications of applying knowledge to particular contexts | Successful completion of training activities during Orientation Week; Submission of applications for internal and external funding and scholarships/fellowships; Participation in teaching, supervision, and mentorship experiences; Development of academic/professional networks (e.g., attending conferences; serving on unit, university-wide, and external committees; engaging in collaborative research) | Completion and defense of PhD thesis  
AODA 800 non-credit course in Accessible Customer Services  
Conference and other public presentations May include serving on unit, university-wide, and external committees |
| Communication Skills | The ability to: Clearly communicate ideas, issues, and conclusions in written and oral work to diverse audiences; Read and listen carefully and critically | Successful completion of thesis requirements; May include presentation of research in a public forum; May include publication of research; Independent study projects | Annual progress reports  
PhD thesis  
Normally includes teaching assistantships |
| Awareness of limits of knowledge | Cognizance of the complexity of Knowledge, and of the potential contribution of other interpretations, methods, and disciplines, An appreciation of the limitations of one's own work and discipline. | Successful completion of thesis, which include a review of the literature, and oral defense before an interdisciplinary panel, Thesis may include a discussion of the “limitations” of results | Orally defended thesis |