Table 2. Mapping graduate curriculum to Graduate Degree Level Expectations (GDLEs)

By the end of the program, successful graduate students will be able to:

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<th>GDLE</th>
<th>Learning Outcomes</th>
<th>Relevant Academic Requirement</th>
<th>Indicator of Achievement/Transferable Skills</th>
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| **Depth and breadth of knowledge** | Analyze the earth as an integrated human-environment system by identifying the interconnections between dynamic flows and interactions at different spatial and temporal scales. Engage integrative and place-based perspectives for explaining differential geographical processes and outcomes of human activities on social and physical environments. | MA/MSc  
  - GPHY 857  
  - Completion of four graduate term-length courses and a full thesis; or  
  - Completion of six graduate term-length courses and a half-thesis.  
  - Required departmental seminars  
  - Master’s final exam  
  - PhD  
  - GPHY 801  
  - PhD qualifying exam  
  - Completion of a minimum of three graduate one-term courses including GPHY 801 beyond the Master's degree.  
  - Req’d departmental seminars  
  - PhD final exam | • Ability to communicate thoughtfully with peers and students about the range of issues that comprise the discipline  
  • Ability to write funding proposals that reflect knowledge of the field of study  
  • Ability to write papers (publishable quality for PhD students) that demonstrate knowledge of the field of study |
| **Research & Scholarship**     | Establish effective approaches for extracting, interpreting and analyzing qualitative, quantitative and spatial information.                                                                                                                                                   | MA/MSc  
  - All graduate courses, including GPHY 857 in which students develop a research proposal. | • Successful completion of the program requirements, including courses, research proposals, examinations and thesis, in a timely manner.  
  • Demonstrated ability to accurately interpret relevant information  |
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<th><strong>Application of Knowledge</strong></th>
<th>MA/MSc</th>
<th>PhD</th>
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| Frame appropriate questions and investigate critically geographical issues through advanced, high-quality and original independent research | • Successful completion of course papers that have a field component  
• Successful defense of a research thesis  
• If relevant, receipt of ethics of approval from the General Research Ethics Board (GREB) | • Ability to apply appropriate methodologies in the discipline  
• Ability to work as a teaching and/or research assistant  
• Ability to synthesize and organize a large amount of information in a discretionary manner |
| Employ rigorous, reflexive, and ethical modes of inquiry when investigating geographical issues | | |
| Collaborate | | |

from a range of academic and non-academic sources to explore geographical issues

- Courses in cognate disciplines where appropriate
- Research papers, including co-authored papers with colleagues or members of supervisory committees

**PhD**

- All graduate courses, including GPHY 801 in which students develop a research proposal
- Courses in cognate disciplines where appropriate
- Research papers, including co-authored papers with colleagues or members of supervisory committees

- Data (statistics, field data, archival sources, qualitative data) and to utilize appropriate technology and instrumentation for data analysis.
- Research findings communicated through presentations and thesis writing.
- Consistent application of research skills in relevant courses.
- Demonstrated an ability to field questions and to synthesize information in papers or seminar discussions
- Demonstrated ability to identify and manage a significant project (PhD research projects must make an original contribution to geographic knowledge)
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<th>Communication skills</th>
<th>MA/MSc</th>
<th>PhD</th>
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<td>Demonstrate the ability to present complex arguments and counter-arguments in written, verbal, spatial and numerical forms to further shared understanding of substantive environmental and/or social issues and problems. Establish effective approaches for presenting geographical issues and information to academic, practitioner and public audiences.</td>
<td>- Teaching assistantships and fellowships&lt;br&gt;- Presentation of Master’s research proposal at the Geography Graduate Symposium&lt;br&gt;- Final thesis defenses&lt;br&gt;- All graduate courses&lt;br&gt;- Attendance and presentations at professional meetings</td>
<td>- Teaching assistantships and fellowships&lt;br&gt;- Presentation of PhD research proposal at the Geography Graduate Symposium&lt;br&gt;- Qualifying Examination and Final thesis defenses&lt;br&gt;- All graduate courses&lt;br&gt;- Attendance and presentations at professional meetings</td>
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<td>papers that have a field component&lt;br&gt;- Successful defense of a thesis based on field research&lt;br&gt;- If relevant, receipt of ethics of approval from the GREB</td>
<td>- Research presented at relevant professional conferences; for PhD students the research published in appropriate and peer reviewed journals&lt;br&gt;- Discussion and presentation in course and departmental seminars&lt;br&gt;- Ability to attract grant and scholarship funding based on quality of communication skills in proposal writing.&lt;br&gt;- Ability to convey materials to students at an appropriate level&lt;br&gt;- Ability to translate knowledge for public outreach, if appropriate</td>
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| Awareness of limits of knowledge | Reflect critically on how their positions of power, privilege and marginality affect their abilities to fully appreciate and empathize with the lived experiences of others | MA/MSc  
- All graduate courses and courses in cognate departments  
- Interactions with supervisor and committee members  
- Attendance at professional meetings  
  
PhD  
- All graduate courses and courses in cognate departments  
- Participation and leadership in GPHY 801 seminars and discussions  
- Interactions with supervisor and committee members  
- Attendance at professional meetings  
|  
| Value life-long learning in order to adapt to changing societal and professional contexts  
Extend geographical knowledge and approaches to applied or professional contexts in an adaptable and productive manner so as to generate innovative solutions |  
MA/MSc  
- GPHY 857  
- Required annual reports submitted to the department  
- Professional development workshops delivered via School of Graduate Studies (SGS)  
- Where appropriate, approval of the GREB  
  
PhD  
- GPHY 801  
|  
| Papers, proposals, seminars, and (for PhD students) qualifying examinations that display a critical knowledge of the field  
Demonstrated competency in GPHY core courses and elective courses.  
The Master’s and PhD thesis defenses include presentation of a final thesis and oral examination, following Queen’s university standards of performance |  
| Autonomy and Professional Capacity | Where appropriate, the ability to work constructively in a team research setting  
Active participation in courses and required seminars  
High level interaction with thesis supervisor and committee members  
Management of complex project  
Successful work as a Teaching Assistant in Geography |
| to contemporary issues | - Required annual reports submitted to the department  
- Professional development workshops delivered via SGS  
- Where appropriate, approval of GREB |
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<td>Acquire transferable skills and qualities necessary for employment requiring the exercise of personal responsibility and largely autonomous initiative in complex situations</td>
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