

Table 2. Mapping graduate curriculum to Graduate Degree Level Expectations (GDLEs)
By the end of the program, successful graduate students will be able to:

GDLE	Learning Outcomes	Relevant Academic Requirement	Indicator of Achievement
<i>Depth and breadth of knowledge</i>	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	<p>MA/MSc</p> <ul style="list-style-type: none"> • 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 <p>PhD</p> <ul style="list-style-type: none"> • 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 	<ul style="list-style-type: none"> • 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
<i>Research & Scholarship</i>	Establish effective approaches for extracting, interpreting and analyzing qualitative, quantitative and spatial information from a range of academic and non-	<p>MA/MSc</p> <ul style="list-style-type: none"> • All graduate courses, including GPHY 857 in which students develop a research proposal • Courses in cognate disciplines where appropriate 	<ul style="list-style-type: none"> • Successful completion of the program requirements, including courses, research proposals, examinations and thesis, in a timely manner. • Demonstrated ability to accurately interpret relevant data (statistics, field

	<p>academic sources to explore geographical issues</p>	<ul style="list-style-type: none"> • Research papers, including co-authored papers with colleagues or members of supervisory committees <p>PhD</p> <ul style="list-style-type: none"> • 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 	<p>data, archival sources, qualitative data) and to utilize appropriate technology and instrumentation for data analysis.</p> <ul style="list-style-type: none"> • 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)
<p>Application of Knowledge</p>	<p>Frame appropriate questions and investigate critically geographical issues through advanced, high-quality and original independent research</p> <p>Employ rigorous, reflexive, and ethical modes of inquiry when investigating geographical issues</p> <p>Collaborate effectively and respectfully with peers and key stakeholders to enable knowledge exchange and productive engagement</p>	<p>MA/MSc</p> <ul style="list-style-type: none"> • 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) <p>PhD</p> <ul style="list-style-type: none"> • Successful completion of course papers that have a field component • Successful defense of a thesis based on field research 	<ul style="list-style-type: none"> • 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

		<ul style="list-style-type: none"> • If relevant, receipt of ethics of approval from the GREB 	
<p><i>Communication skills</i></p>	<p>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</p> <p>Establish effective approaches for presenting geographical issues and information to academic, practitioner and public audiences</p>	<p>MA/MSc</p> <ul style="list-style-type: none"> • Teaching assistantships and fellowships • Presentation of Master's research proposal at the Geography Graduate Symposium • Final thesis defenses • All graduate courses • Attendance and presentations at professional meetings <p>PhD</p> <ul style="list-style-type: none"> • Teaching assistantships and fellowships • Presentation of PhD research proposal at the Geography Graduate Symposium • Qualifying Examination and Final thesis defenses • All graduate courses • Attendance and presentations at professional meetings 	<ul style="list-style-type: none"> • Research presented at relevant professional conferences; for PhD students the research published in appropriate and peer reviewed journals • Discussion and presentation in course and departmental seminars • Ability to attract grant and scholarship funding based on quality of communication skills in proposal writing. • Ability to convey materials to students at an appropriate level • Ability to translate knowledge for public outreach, if appropriate

<p>Awareness of limits of knowledge</p>	<p>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</p> <p>Understand the contested nature of all geographical knowledge (e.g. theoretical and empirical; qualitative and quantitative; various disciplinary conventions, etc.) and how particular knowledge becomes employed in particular circumstances</p>	<p>MA/MSc</p> <ul style="list-style-type: none"> All graduate courses and courses in cognate departments Interactions with supervisor and committee members Attendance at professional meetings <p>PhD</p> <ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> 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
<p>Autonomy and Professional Capacity</p>	<p>Value life-long learning in order to adapt to changing societal and professional contexts</p> <p>Extend geographical knowledge and approaches to applied or professional contexts in an adaptable and productive manner so as to generate innovative solutions to contemporary issues</p>	<p>MA/MSc</p> <ul style="list-style-type: none"> 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 <p>PhD</p> <ul style="list-style-type: none"> GPHY 801 Required annual reports 	<ul style="list-style-type: none"> 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

	<p>Acquire transferable skills and qualities necessary for employment requiring the exercise of personal responsibility and largely autonomous initiative in complex situations</p>	<p>submitted to the department</p> <ul style="list-style-type: none"> • Professional development workshops delivered via SGS • Where appropriate, approval of GREB 	
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