Department/Academic Unit: Mathematics and Engineering Degree Program: MASc

<u>Degree Level Expectations, Learning Outcomes, Indicators of Achievement and the Program Requirements that Support the Learning Outcomes</u>

Learning outcome: The ability to assimilate

Expectations (general descriptors from OCAV)	Learning Outcomes (program specific)** This degree is awarded to students who demonstrate	Indicators of Achievement As evidenced by	Relevant Courses and academic requirements (requirements that contribute to the achievement of learning outcomes and degree expectations)
Depth and breadth of knowledge knowledge) a introductory	Learning outcome: Advanced graduate level expertise in at least one subject area (chosen from Analysis, Algebra, Probability and Statistic\$for advanced and performance in level	graduate courses (for basic knowledge).	Advanced knowledge: MATH 844, 891, 892, 893, 894, 895, 896 Basic knowledge: MATH 801, 802, 805, 806, 812, 813, 818, 825, 827, 830, 832, 834, 836, 837, 838, 843, 844, 872, 874, 877, 884, 891, 892, 893, 894, 895, 896, 901, 902, 903, 905, 912, 913, 915, 922, 923, 925, 932, 933, 935, 936, 937, 939, 942, 943, 945, 972, 973, 975 STAT 853, 854, 855, 856, 857, 862, 864, 865, 866, 867, 870, 871, 873, 886, 952, 953, 955, 962, 963, 965
Research and scholarship	Learning outcome: An ability to read and demonstrate an understanding of mathematical and/or statistical research literature.	Indicator: Report writing and presentations, either as a part of explicit research activity, a course, or a seminar.	MATH/STAT 899

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applicationarea as well as how mathematics and/or statistics contributes to this application.

Application of Knowledge

	• •	the depth of their understanding, and their ability to put their work in context is assessed.	
Communication Skills	their research in written and oral form	Indicators: (1) Oral presentation of a research paper and oral presentation of research and (2) Written presentation of research findings.	MATH/STAT 899
Awareness of limits of knowledge	Learning outcome: An awareness of how a student's research and levels of knowledge fit within what is already known and what is not yet known.	core courses, (2) summaries of research papers in seminars, and (3) presentation of	00TTT11Tf2. { re1Tc0988.0019Tc(ir)18.4(s8790TD0Tc Q 0

Indicator: Independent work in thesis

research and in seminars. The grasp by

the student of the relevance of their work,

MATH/STAT 899

Learning outcomes: (1) The ability to

statistical techniques and understand

quickly learn new mathematical or

Professional capacity/autonomy