

Students in the Collaborative Specialization in Artificial Intelligence (CSAI) must fulfill the requirements of their home program as well as CSAI. This chart shows how courses can be selected to meet the requirements of **both** programs so as to complete the CSAI in the minimal number of credits (the “minimal path”). Other paths may be taken which can satisfy the requirements of the home program and CSAI but may result in a higher number of total credits taken.

Thesis-Based Masters Requirements					
MSc in Mathematics & Statistics (Mathematical Emphasis)	MSc in Mathematics & Statistics (Statistical Emphasis)	MSc in Computer Science	MASc in Engineering	MSc in Bioinformatics	
Four courses [2.00] total; at least three MATH courses, two of which must be from this “core” list: MATH*6010 [0.50] MATH*6020 [0.50] MATH*6031 [0.50] MATH*6051[0.50] MATH*6071 [0.50]	Four courses total [2.00]; at least three STAT courses, two of which must be from this “core” list: STAT*6801 [0.50] STAT*6802 [0.50] STAT*6841 [0.50]	CIS*6890 [0.50] and at least four other courses [2.00]	Four courses [2.00], of which at least two must be ENGG graduate courses	Four courses [2.00] including: BINF*6110 [0.50] BINF*6210 [0.50]	+ Collaborative Specialization in Artificial Intelligence
One of CIS*6020; ENGG*6500; or STAT*6801	STAT*6801	One of CIS*6020; ENGG*6500; or STAT*6801	ENGG*6500 ¹	One of CIS*6020; ENGG*6500; or STAT*6801	One Elective Core course [0.50]
MATH*6020 MATH*6051 or MATH*6071	STAT*6841 and one of STAT*6721 STAT*6821 or STAT*4000 ²	Any two Complementary AI-related courses	Two Complementary AI-related courses (one of which must be an ENGG course)	Any two Complementary AI-related courses	Two Complementary AI-related courses [2 x 0.50]
UNIV*6080 Computational Thinking for Artificial Intelligence [0.25]					
UNIV*6090 Artificial Intelligence Applications and Society [0.50]					
AI-related thesis					
2.75 ³	2.25 ⁴	2.75	2.25	3.25	Total Credits

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¹ Alternatively, MASc.ENGG+AI students may choose to take CIS*6020 or STAT*6801 as their Elective Core. In this case, they would be required to complete two ENGG Complementary AI-related courses.

² If the student is required to take STAT*4340, they may choose a different Complementary AI-related course in substitution of STAT*6821 or STAT*4000. In this case, the student’s total credit requirement will be 2.75.

³ MSc.MAST-MATH+AI students are required to take an additional MATH course to fulfil the program requirement of 3 MATH courses.

⁴ MSc.MAST-STAT+AI students may be required to take STAT*4340 if it or an equivalent has not been previously taken. In these cases, the student’s total credit requirement will be 2.75.