

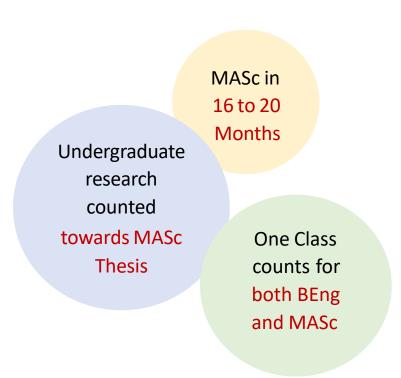
# Accelerated M.A.Sc. Program

Updated: August 2024



#### ACCELERATED M.A.Sc. OPTION

An Accelerated M.A.Sc. Option is now available to students currently enroled at McMaster as undergraduate students in the Mechanical Engineering Department, whereby the M.A.Sc. degree may be completed in 16-20 months of full-time study. In exceptional circumstances, students from other Engineering departments in McMaster may apply for entry into the accelerated option by contacting the Mechanical Engineering Department's Associate Chair (Graduate). Application for entry into the Accelerated Option through the Associate Chair (Graduate) occurs in the penultimate year of undergraduate studies. Applicants must have maintained a minimum CGPA of 9.5 for their undergraduate course work with a sessional average of 9.5 at the time they are applying for the option. The Accelerated Option requires students to complete at least one term of their research project with a supervisor from the department prior to completion of their undergraduate degree. A one-term 600-level course is required under the Accelerated Option in the final undergraduate year for graduate credit provided it is listed within the department. For students enroled in the Accelerated Option, research conducted in MECHENG 4X04 may count towards the Accelerated Option and therefore towards partial fulfillment of the graduate M.A.Sc. thesis work. Entry into the M.A.Sc. program under the Accelerated Option must occur less than one year after completing one's undergraduate degree and must meet the same requirements for admission as other candidates.



# For Mech Eng McMaster students

Requirements for MASc degree NOT reduced

Research completed in summer and MECH ENG 4X04 counted towards MASc Thesis

One course taken at 600 level counted for both BEng and MASc degree requirement

#### **Key Notes**

- Eligibility:
  - Minimum cumulative average of 9.5
  - Minimum sessional average of 9.5 in last year of studies
- Have a Faculty Supervisor willing to supervise summer research with intent of also supervising subsequent MASc Research
- Apply for the Accelerated Option through the Associate Chair (Graduate)
- Associate Chair and Supervisor to review academic performance for admission to Accelerated Option
- Register for Accelerated Option in penultimate year of BEng; Student encouraged to apply for NSERC USRA

#### **Timeline**

TIMELINE	MILESTONE
Year 3 of B.Eng	Seek Faculty Supervisor for M.A.Sc. Thesis.
	Preferably apply for NSERC USRA.
Summer at end of Year 3 of B.Eng	Perform research with Faculty Supervisor.
	Apply to Accelerated M.A.Sc. option through department.
Year 4 of B.Eng	Take ONE 600 level course. Inform course instructor that 400
	level course be used for U/G credit.
	Take ME 4X04 course and continue M.A.Sc. research.
	Apply to SGS for admission to M.A.Sc. program.
Year 1 of M.A.Sc.	Continue M.A.Sc. research in summer/fall/winter.
	Petition SGS for credit of completed 600 level course.
	Complete THREE additional 700 level courses.
	Complete Supervisory Committee Meeting (within first 8 months)
Summer following Year 1 of M.AS.c.	Complete and defend M.A.Sc. Thesis.

#### **Program Requirements**

The minimum course requirement is four half-courses (50% of which must have the MECHENG course code); three of the four courses must be at the 700 level. A half-course is classified as 3 units. Courses delivered by departments in the School of Engineering and Applied Sciences (listed <a href="here">here</a>) do not require a petition to count toward degree requirements; however, they cannot replace a MECHENG course.

Incoming graduate students to the Faculty of Engineering are required to complete a <u>career planning</u> <u>report</u> within their first year of study. Students must first book a career planning session with the faculty's career development specialist before submitting a career planning report. The report should not exceed 2 pages and must be submitted to the department's Graduate Program Administrator to be evaluated by the Associate Chair (Graduate).

Students are required to present a thesis that embodies the results of original work that the candidate has completed and demonstrates competence in Mechanical Engineering. Only the standard format thesis, as described in the document <u>"Completing your Masters degree – Thesis"</u> (available from the School of Graduate Studies website), will be accepted for examination. An oral defence of the thesis is required.

#### **Degree Requirement Checklist**

Incoming graduate students will be given a <u>Degree Requirement Checklist</u> at the beginning of their academic career. The completion of this checklist is mandatory and should be completed throughout the duration of your studies.

#### Student Responsibility

- 1. Keep the checklist up-to-date as you complete your studies.
- 2. Bring the checklist with you to your Supervisory Committee Meeting to discuss your progress.

#### Supervisor Responsibility

- 1. Discuss the checklist with the student at the Supervisory Committee Meeting to ensure the student is on track.
- 2. Once all academic requirements are fulfilled, sign the checklist. The completed signed checklist must be submitted to the graduate administrator before initiating the defence.

#### **Additional Requirements**

- ME 758 "Graduate Seminars in Mechanical Engineering.": Mandatory annual registration in Mosaic for Term 1 and Term 2 of every academic session. Please visit <u>Avenue to Learn</u> for more details. MASc students are required to make one 7-minute presentation with a 3-minute Q&A period.
- <u>SGS 101 and SGS 201 (online courses):</u> Mandatory registration in Mosaic at the start of a student's program only. Must pass and abide by these online SGS courses.
- <u>Job Hazard Analysis (JHA) form:</u> Must complete a job hazard analysis (JHA) form with your supervisor and read and follow the appropriate Standard Operating Procedures (SOPs). **Note:** In the context of safety, all graduate students are considered "workers".
- <u>Core Health and Safety courses:</u> Must successfully complete *and abide by* the following core health and safety courses:
  - SAFE training (replacing Slips, Trips and Falls, Asbestos Awareness, Fire Safety, Ergonomics)
  - Health and Safety Orientation
  - Violence and Harassment Prevention
  - WHMIS 2015

#### **Supervision**

Supervision of M.A.Sc. students is governed by the School of Graduate Studies regulations as outlined in Section 3.1 of the Graduate Calendar.

#### **Supervisory Committee Meeting**

The supervisor shall meet with the student within the first 8 months of Year 1 of the start of the M.A.Sc. for a formal review of progress. The student will complete the M.A.Sc. supervisory committee report form and submit to the supervisor at least one week in advance of the meeting. The supervisor will complete the form and submit it to the Department graduate program administrator at the end of the progress review meeting.

#### Student Responsibility

- 1. Set up the meeting with supervisor within 8 months of starting M.A.Sc.
- 2. Complete the student sections of the M.A.Sc. supervisory committee report form. (Details of progress towards meeting degree requirements since beginning of program).
- 3. Submit the form with a critical literature review of your research area to your supervisor at least one week before the meeting.

#### Supervisor Responsibility

- 1. Complete Part A: Progress made towards meeting degree requirements.
- 2. Complete Part B: Specific goals for next number of months.
- 3. Complete Part C: Areas for improvement.
- 4. Provide an overall assessment.
- 5. Review the form with student, sign and submit to the graduate program administrator.



# Mechanical Engineering Accelerated MASc Application Form

PART A: Application (To be con	pleted in the penultimate year of the Uno	dergrad	uate program)	
First Name:	Last Name:			
	Expected graduati			
Student Number:	month/year:			
Student Email:				
Cumulative GPA	Sessional GPA (m			
(must be ≥9.5)	be ≥9.5)			
**Attach transcripts to this ap	plication			
Student Signature:		Date:		
	applicant for a period of 4 months. No fir	nancial	commitment is re	equired
or implied with this commitm Supervisor Name:	ent.			
(print)				
Supervisor Signature:	2	Date:		
Sign if student has been admit	ed to Accelerated Master's Program			
Associate Chair				
(Graduate) Approval:		Date:		
PART B: To be completed at th	e end of Undergraduate program			
Part A and B of the course cred attached	t form have been completed and	Yes		No .
Supervisor of Research:		** # of Months Under Supervision		
· ·	د   nonth per term. A maximum of 8 months			inimum of 4
months is required				
Supervisor Signature:		Date:		
The student named above me	ets the requirements for admission to th	e Accel	erated Master's I	Program.
The course request form must	be completed once the student has begur	n their I	MASc. program. T	_
·	e year of graduation from the Undergrad	duate Pr	ogram.	
Associate Chair (Graduate) Approval:		Date:		

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# Accelerated MASc - 600 Level Course Credit Application Form

PART A: To be Complete	ed by the Undergraduate Student	Prior to Taking the 6	00 level C	Course		
First Name:		Last Name:				
Student Number:		Course Name/Number:				
Student Email:						
Permission Granted to A	Attend 600 level Course					
Course Instructor:		Date:				
Instructor Signature:		Term:				
	400 level version of the course ort A has been completed	n MOSAIC and retu	rn this fo	rm to t	he G	raduate
PART B: To be Complete	ed on Completion of Course					
Did the Student Pass the	e 600 level Course?	Yes		No		
Instructor Signature:		Date:				
graduated from the und	form to the graduate assistant on dergraduate program and have be a 600 level course. This documen	egun your MASc pro	ogram, yo	u musi	•	
PART C: To be Complete	d during MASc program when pet	itioning for 600 leve	l credit			
	"Petition for Special Consideration before giving it to the Associate				ith Pa	arts A and B
Petition for Special Cons	sideration Form Attached	Yes		No		
Requested 600 level Cou	urse Number:					
I certify that Accelerated Master's pr	cogram and should receive credit	tudent) has fulfilled for the above cours	•	remen	ts of	the
Associate Chair (Gradua	ate Chair (Graduate):Date:					
Signature:						
**Associate Chair, Grad to the Associate Dean,	luate: Complete Part C of the Peti Graduate Studies.	tion for Special Con	sideratio	n and s	subm	nit both forms

## **CONTACT US**

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