New Program/Major or Minor/Concentration Proposal Form

(2017)

1.0 Degree Title
Please specify the two degrees for concurrent degree programs

Master of Science, Applied (M.Sc.A.)

1.1 Major (Legacy = Subject) (30-char. max.)

Biomedical Engineering

1.2 Concentration (Legacy = Concentration/Option)
If applicable to Majors only (30 char. max)

(Non-Thesis) Translational

1.3 Minor (with Concentration, if Applicable) (30char. max)

2.0 Administering Faculty/Unit

Graduate and Postdoctoral Studies (GPS)

Offering Faculty/Department

MD - Biomedical Engineering

3.0 Effective Term of Implementation
(Ex. Sept. 2004 = 200409)
Term

202009

4.0 Rationale and Admission Requirements for New Proposal

The focus of McGill's current graduate Thesis program in Biological and Biomedical Engineering is to prepare students for careers in research or academia. These research-intensive programs offer little training in the translational skills required to design, develop, manufacture, and commercialize biomedical devices and technologies. There is strong student interest in such training and a clear demand in industry for students with this expertise.

This professional Master's program expands on the existing Graduate Certificate in Translational Biomedical Engineering by increasing the range of technical and translational training, and by providing experiential training in the form of a 4-month Internship.

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Admission requirements:

Students with an undergraduate engineering degree with a major or minor in biomedical engineering, or the equivalent, and an undergraduate GPA of at least 3.0 out of a possible 4.0, or a GPA of 3.2 out of 4.0 in the last two years of full-time studies.

Graduates from other areas of engineering may be admitted provided they have backgrounds in Physiology equivalent to both PHGY 209 and PHGY 210. Applicants lacking the required Physiology background may be admitted but must fulfill the prerequisites in the first year of the program. This may be achieved by taking PHGY 209 and/or PHGY 210, and/or other courses approved by the Program Director. Prerequisite courses will not count toward the program's 45 credits.

Graduates with other backgrounds may be admitted provided they have the Physiology prerequisites (PHGY 209 & PHGY 210), at least two university-level Math courses, four university-level physical science courses, and one university-level programming course. Applicants lacking the required background may be admitted but must fulfill the prerequisites in the first year of the program. This may be achieved by taking courses approved by the Program Director. Prerequisite courses will not count toward the program's 45 credits.

APPENDIX 1

CONSULTATION REPORT FORM
RE PROGRAM PROPOSALS

DATE: March 18, 2019

TO: Dr. Laurent Mydlarski,
Associate Dean (Academic Programs) – Faculty of Engineering
Associate Professor – Department of Mechanical Engineering

FROM: Dr. Ahmad Haidar
Assistant Professor - Department of Biomedical Engineering
Program Director - Graduate Certificate in Translational Biomedical Engineering

The attached proposal has been submitted to the Curriculum Committee, and it has been decided that your department should be consulted.

Program Title: Master of Translational Biomedical Engineering

Would you be good enough to review this proposal and let me know as soon as possible, on this form, whether or not your department has any objections to, or comments regarding, the proposal. Specifically, a course [or courses] taught by your department that has [have] been included in the program's list of courses.

_____ **NO OBJECTIONS** **X** **SOME OBJECTIONS**

COMMENTS:

The Faculty of Engineering endorses the proposed Master of Translational Biomedical Engineering. However, it would have preferred that it not be developed without the input of the Department of Bioengineering, with which the Department of Biomedical Engineering shares graduate programs. There would have been an opportunity to build upon this collaboration by creating a translational medicine stream within the existing Biological & Biomedical Engineering graduate programs. A parallel program, such as the proposed one, may lead to confusion on the part of applicants.

Signature: _____

Date: **March 27, 2019**

APPENDIX 1

CONSULTATION REPORT FORM
RE PROGRAM PROPOSALS

DATE: January 29, 2019

TO: Meyer Nahon,
Chair Department of Mechanical Engineering
Professor Department of Mechanical Engineering

FROM: Dr. Ahmad Haidar
Assistant Professor - Department of Biomedical Engineering
Program Director - Graduate Certificate in Translational Biomedical Engineering

The attached proposal has been submitted to the Curriculum Committee, and it has been decided that your department should be consulted.

Program Title: Master of Translational Biomedical Engineering

Would you be good enough to review this proposal and let me know as soon as possible, on this form, whether or not your department has any objections to, or comments regarding, the proposal.

X **NO OBJECTIONS** _____ **SOME OBJECTIONS**

COMMENTS:

Signature: _____

Date: **Feb 26, 2019**

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APPENDIX 1

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CONSULTATION REPORT FORM
RE PROGRAM PROPOSALS

DATE: January 27, 2019

TO: Dr. Viviane Yargeau,
Chair – Department of Chemical Engineering
Professor – Department of Chemical Engineering

FROM: Dr. Ahmad Haidar
Assistant Professor - Department of Biomedical Engineering
Program Director - Graduate Certificate in Translational Biomedical Engineering

The attached proposal has been submitted to the Curriculum Committee, and it has been decided that your department should be consulted.

Program Title: Master of Translational Biomedical Engineering

Would you be good enough to review this proposal and let me know as soon as possible, on this form, whether or not your department has any objections to, or comments regarding, the proposal.

X **NO OBJECTIONS** _____ **SOME OBJECTIONS**

COMMENTS:

Signature: _____

Date: **January 29, 2019**