SUBJECT	Tuition | Post-Baccalaureate Certificate in Mechanical Engineering in the BC Context
SUBMITTED TO	Finance Committee
MEETING DATE	June 14, 2023
SESSION CLASSIFICATION	Recommended session criteria from Board Meetings Policy: OPEN
REQUEST	**APPROVAL REQUESTED** IT IS HEREBY RESOLVED that the Finance Committee, in accordance with authority delegated by the Board of Governors, approves tuition for the Post-Baccalaureate Certificate in Mechanical Engineering in the BC Context of $207.92 per credit for domestic students and $1,560.43 per credit for international students in alignment with the Bachelor of Applied Science, Engineering Years 2-5 per credit tuition rates for 2023-2024, effective immediately, subject to increases as approved by the Board of Governors.
LEAD EXECUTIVE	Gage Averill, Provost and Vice-President Academic, UBC-Vancouver
SUPPORTED BY	Simon Bates, Vice-Provost and Associate Vice-President Teaching and Learning *pro tem* Bhushan Gopaluni, Vice-Provost and Associate Vice-President Faculty Planning

PRIOR SUBMISSIONS

The subject matter of this submission has not previously been considered by the Finance Committee.

EXECUTIVE SUMMARY

The Post-Baccalaureate Certificate in Mechanical Engineering in the BC Context is a twelve-credit certificate designed for foreign-trained engineers who require additional academic qualifications to be registered as an Engineer-in-Training or Professional Engineer with the Engineers and Geoscientists of British Columbia (EGBC), a registration that is legally required for the practice of engineering in BC. Completed in four months (full-time) or eight months (part-time), the certificate includes content on the provincial standards for professionalism and ethics in engineering and three of seven technical subjects. The technical subjects are selected by the learner based on individualized advice from EGBC on the areas the learner needs to strengthen for their application, typically areas covered in the Canadian curriculum but not covered in their prior degree program.

Following approval of the program by the UBC Vancouver Senate in May 2023, the request for approval of the Post-Baccalaureate Certificate in Mechanical Engineering in the BC Context was forwarded to the Learning & Research Committee under the Committee's June 2023 agenda. Pending approval from the Board of Governors, the program aims to launch September 2023.

The proposed tuition for this program is $207.92 per credit for domestic students and $1,560.43 per credit for international students. These rates are in alignment with the Bachelor of Applied Science, Engineering Years 2-5 for 2023/24. All fees are subject to increases as approved by the Board.

The Office of the Vice-President Students conducted a student consultation regarding the tuition proposal (as per Policy LR4). The e-consultation was conducted from February 27, 2022 to March 27, 2023. A submission was received from the AMS and GSS, who were both supportive of the program as proposed.

The target learners are foreign-trained engineers (Strategy 1: Great People) from non-Washington Accord countries who are now BC residents and unable to register as Engineers-in-Training or Professional Engineers due to unrecognized credentials. Students will take their courses alongside existing Bachelor of Applied Science students. There will be no impact on existing Bachelor student course availability.

The major benefits to learners are (i) helping to bridge their courses from their previous degrees to BC regulatory standards, and (ii) ensuring they do not need to write subject examinations or the US Practice Exam without timely academic preparation and support. The learners will improve the diversity of our campus (Strategy 4: Inclusive Excellence) and help to provide a vibrant community of learners (Strategy 3: Thriving Communities) with varied backgrounds and experiences. At a provincial level, the program will help ensure foreign-trained workers are able to bring their skills, experience and knowledge (Strategy 16: Public Relevance) to the biggest problems facing our sodciety.

APPENDICES

1. Tuition and Fee Assessment Details
2. Student Tuition Consultation Report

Tuition and Fee Assessment Details

Program Description: Post-Baccalaureate Certificate in Mechanical Engineering in the BC Context

Anticipated Start Date: September 2023

	Domestic	International
Tuition fees per credit – Note 1	$207.92	$1,560.43
Application Fees (Undergraduate) – Note 2	$75.50	$127.75
Non-Refundable Acceptance Deposit	N/A	N/A
Other Faculty and Course Fees	N/A	N/A

Note 1 – Proposed tuition is aligned with approved 2023/24 rates for the Bachelor of Applied Science, Engineering, Years 2-5, and will be subject to annual increases as established by the university.

Note 2 – This is the current fee for the 2024W application cycle and is subject to annual increases.

POST-BACCALAUREATE CERTIFICATE IN MECHANICAL ENGINEERING IN THE BC CONTEXT

STUDENT TUITION CONSULTATION REPORT

The Vice-President, Students Office, in partnership with the Department of Mechanical Engineering in the Faculty of Applied Science, conducted a student consultation regarding the proposal to develop a Post-Baccalaureate Certificate in Mechanical Engineering in the BC Context. This report outlines the consultation process and summarizes student feedback including the student representatives' submission verbatim in Appendix 2.

Student Representative Bodies Invited to the Consultation

- Alma Mater Society (AMS)
- Graduate Student Society (GSS)

Mode of Consultation

The consultation consisted of an e-consultation. Student representative groups were invited to the consultation through email, and asked to distribute the invitation to their constituents as they felt appropriate. Student representative groups were also offered a face-to-face/zoom meeting to discuss the tuition proposal. A meeting was not requested by student representatives.

Basis of Consultation: The consultation was based on a tuition proposal and rationale document created by the Faculty. Please see Appendix 1 for the invitation and tuition rationale document.

Timelines: The e-consultation was conducted over the period of Monday February 27, 2023 to Monday March 27, 2023.

Summary of Student Feedback: Submissions were received from the AMS and the GSS. The verbatim submissions are in Appendix 2.

No individual student submissions were received.

Organization	Summary
AMS	**Support for proposed program** "The AMS is in favour of the proposed new program. We believe the Post-Baccalaureate Certificate in Mechanical Engineering in the BC Context program will be a great educational pathway for foreign engineers who may want to immerse themselves in the Canadian engineering curriculum, which will be helpful and beneficial in their career exploration and increasing their employment opportunities."
GSS	**Support for proposed program** "…it is rational that the tuition fees are set at the same prices."

APPENDIX 1: INVITATION TO CONSULTATION AND TUITION RATIONALE DOCUMENT

******This message is sent on behalf of Dr. Samantha Reid, Executive Director of the Office of the Vice President, Students******

Hello everyone,

There is a proposal by the Department of Mechanical Engineering in the Faculty of Applied Science regarding developing of a Post-Baccalaureate Certificate in Mechanical Engineering in the BC Context.

In order to inform the program leads and the Board of Governors with regards to the **acceptance deposit proposal/ tuition proposal** for this program, the University is undertaking a consultative process to get your comments as student representatives, and provide an opportunity for students to provide individual comments on the proposal if they wish. **Please note: the scope of this consultation process is limited to the acceptance deposit proposal/ tuition proposal.**

The consultation will consist of:

1. e-consultation

Please find attached a document which outlines the details of the tuition proposal, including:

- an overview of the program,
- the student consultation that has happened to date,
- the tuition and fees rationale for the program, and
- the proposed tuition and fees.

Please share the document and this email as you see appropriate. **Comments and student organization submissions on the tuition proposal can be provided to Irena Deretic – Administrative Coordinator, Office of the Vice President Students (vpsassist@mail.ubc.ca).**

2. Face to Face/Zoom meeting

If requested by student representatives, we can arrange a face-to-face/Zoom meeting with the program leads regarding this tuition proposal. Please advise as soon as possible if you would like us to arrange a meeting.

THE CONSULTATION PROCESS WILL END ON MONDAY MARCH 27, 2023 AT MIDNIGHT.

Confidentiality

- Comments will be collected by the Vice-President Students Office, and only analysts within that office will know the identity of individual students submitting comments. At no time will anyone outside of the Vice President Students Office know the identity of individual students who submit comments to this consultation. Your comments will only be used for the purposes of the tuition consultation.
- Comments from individual students will be stripped of any identifying information to ensure confidentiality, but otherwise will be provided to the responsible program leads and Board of Governors verbatim.
- Comments received from student organizations will be reported as coming from those organizations, and provided to the responsible faculty and Board of Governors as received. There will also be a summary report of the consultation developed for the Faculty and Board of Governors.

Please let me know if you have any questions about the process.

Thank you,

Samantha

Samantha Reid Ph.D. (she/her)
Executive Director
Office of the Vice President Students
The University of British Columbia | Musqueam & Syilx Okanagan Nation Traditional Territories
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THE UNIVERSITY OF BRITISH COLUMBIA

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NEW PROGRAM TUITION CONSULTATION

Post-Baccalaureate Certificate in Mechanical Engineering in the BC Context

PROGRAM OVERVIEW

The Department of Mechanical Engineering in the Faculty of Applied Science is proposing the developing of a *Post-Baccalaureate Certificate in Mechanical Engineering in the BC Context*.

To legally practice engineering in Canada, one must be registered with their provincial association. Registration with Engineers and Geoscientists of British Columbia (EGBC), at either the Engineer-in-Training or Professional Engineer level, requires completion of a Bachelor's degree from Canada or another *Washington Accord* country. Foreign-trained engineers from unrecognized countries have to prove their educational background is equivalent, typically by sitting the US P.E. examinations or by sitting subject examinations in BC. These often are not ideal, as they are designed for learners who have just completed school, not those who have been working for several years and may not remember specific derivations of equations or other details. This program will provide another pathway to prove competency to EGBC.

This 12-credit program has been designed to be completed in four months (full-time) or 8 months (part-time). It includes one required course on the provincial standards for professionalism and ethics in engineering (MECH 400), and three courses selected from seven technical subjects. The technical subjects are selected by the learner based on individualized advice from EGBC on the areas the learner needs to strengthen for their application, typically areas covered in the Canadian curriculum but not covered in their prior degree program.

Learners select three of the following existing courses, based on the advice they receive from EGBC:

- MECH 327 – Thermodynamics II
- MECH 360 – Mechanics of Materials
- MECH 368 – Engineering Measurement and Instrumentation
- MECH 375 – Heat Transfer
- MECH 380 – Fluid Dynamics
- MECH 463 – Mechanical Vibrations
- MECH 466 – Automatic Control

Students would be enrolled in courses alongside current Bachelor of Applied Science students, immersing them in the BC context, with examples, applications, and case studies that are relevant to those who will be working in our province. The courses noted above are typically not available to students from outside the Bachelor of Applied Science program, but special consideration will be given to enrolled certificate students, ensuring that space is available for them in the courses they need. There will be no impact on existing Bachelor student course availability.

The Department aims to launch the program in September 2023. The Department anticipates enrollment of no more than 5 students per year in the program.

STUDENT CONSULTATION DURING THE PROGRAM DEVELOPMENT PROCESS

The program has been designed based on consultation with EGBC. Although the program does not target current students at UBC, the Mechanical Engineering Club (elected undergraduate student government) and the Mechanical Engineering Graduate Association were consulted as part of the regular curriculum process. No questions or concerns were raised.

TUITION AND FEES RATIONALE

In the 2023/24 academic year, tuition fees per credit for the program (consistent with the Bachelor of Applied Science, Engineering Years 2-5 per credit tuition rates) are:

- $207.92 per credit for domestic students
- $1,560.43 per credit for international students

These fees are subject to increases as approved by the UBC Board of Governors.

As students will be taking classes alongside Bachelor of Applied Science students, there is minimal impact on resources. There will be incremental costs on Teaching Assistants, library usage, and some lab facilities, but these will be covered by tuition. Advising will be managed by Mechanical Engineering Student Services, and can be accommodated.

Tuition Benchmarking

No similar or near-similar programs are available in Canada. Please note that due to cohort size planning requirements, Unclassified Students are typically not admitted to these courses, or are admitted late. The Certificate allows for proper cohort planning, and ensures we can make space available to those who require these courses for their licensure, in addition to providing ease in administration to EGBC.

Program	**Domestic per-credit rate**	**International per-credit rate**
Proposed Certificate in Mechanical Engineering in the BC Context	$207.92	$1,560.43
UBC Bachelor's of Applied Science, Engineering Years 2-5	$207.92	$1,560.43
Unclassified Students	$194.78	$1,560.43

PROPOSED TUITION AND FEES

Appendix 1 – Tuition and Fee Assessment Details

Program Description: Post-Baccalaureate Certificate in Mechanical Engineering in the BC Context

Anticipated Start Date: September 2023

	Domestic	**International**
Tuition fees per credit – Note 1	$207.92	$1,560.43
Application Fees (Undergraduate) – Note 2	$75.50	$127.75
Supplemental Application Fees	N/A	N/A
Non-Refundable Acceptance Deposit – Note 3	N/A	N/A
Other Faculty and Course Fees – Note 4	N/A	N/A

Note 1 – Proposed tuition is aligned with approved 2023/24 rates for the Bachelor of Applied Science, Engineering, Years 2-5, and will be subject to annual increases as established by the university.

Note 2 – This is the current fee for the 2024W application cycle and is subject to annual increases.

APPENDIX 2: STUDENT SUBMISSIONS & FACULTY RESPONSES

Submission from the AMS.

March 24th, 2023
UBC Board of Governors

Re: Post-Baccalaureate Certificate in Mechanical Engineering in the BC Context

Dear members of the UBC Board of Governors,

This submission is being made on behalf of the Alma Mater Society (AMS) of UBC Vancouver in response to the request for feedback on the new *Post-Baccalaureate Certificate in Mechanical Engineering in the BC Context* program proposed by the Department of Mechanical Engineering in the Faculty of Applied Science.

The proposed certificate program on *Mechanical Engineering in the BC Context* is a 12-credit program designed to be completed in four months (full-time) or 8 months (part-time), and it includes one required course on the BC provincial standards for professionalism and ethics in engineering (MECH 400). This program will provide a pathway for foreign-trained engineers from unrecognized countries to prove their competency for registration with Engineers and Geoscientists of British Columbia (EGBC).

The AMS is in favour of the proposed new program. We believe the *Post-Baccalaureate Certificate in Mechanical Engineering in the BC Context* program will be a great educational pathway for foreign engineers who may want to immerse themselves in the Canadian engineering curriculum, which will be helpful and beneficial in their career exploration and increasing their employment opportunities. Lastly, the AMS also commends the Faculty for designing the program based on consultation with EGBC, and for conducting consultation with undergraduate students in Mechanical Engineering Club and the Mechanical Engineering Graduate Association.

The AMS would like to sincerely thank the Faculty of Applied Science for their commitment to ensuring that student voices are heard. We hope to see this continue and look forward to working with UBC to make education affordable and accessible to students across all levels. We also appreciate the Board's consideration of this submission.

Sincerely,

Anisha Sandhu
Interim VP Academic and University Affairs Alma Mater Society

Submission from the GSS

Tuition Consultations

Presented by:
Graduate Student Society (GSS)

To:
The Office of the Vice President Students,
University of British Columbia

March 2023

Student Tuition Consultation - Post-Bac Cert in Mechanical Engineering in the BC Context

Considering that students enrolled in the post-baccalaureate certificate program will be taking classes and using same resources alongside students in the Bachelor of Applied Science students, it is rational that the tuition fees are set at the same prices. We have no further comments on this.