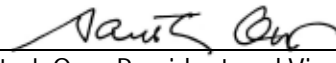


<b>SUBJECT</b>	<b>BACHELOR OF APPLIED SCIENCE IN ENVIRONMENTAL ENGINEERING</b>
<b>MEETING DATE</b>	<b>JUNE 5, 2019</b>

Forwarded on the Recommendation of the President

**APPROVED FOR  
SUBMISSION**

  
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 Santa J. Ono, President and Vice-Chancellor

<b>DECISION REQUESTED</b>	<b>IT IS HEREBY REQUESTED that <i>the Committees jointly approve tuition fees for the Bachelor of Applied Science in Environmental Engineering program as set out in Attachment 1 to the report, and aligned with approved Bachelor of Applied Science undergraduate tuition fees, which for 2019-2020 are \$179.97 per credit for Year 1 and \$192.11 per credit for Years 2-5 for domestic students and \$1,321.18 per credit for international students, subject to annual increases as approved by the Board of Governors.</i></b>
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<b>Report Date</b>	May 8, 2019
<b>Presented By</b>	Andrew Szeri, Provost and Vice-President Academic Simon Bates, Associate Provost, Teaching and Learning James Olson, Dean, Faculty of Applied Science

**EXECUTIVE SUMMARY**

Environmental Engineering is a branch of applied science that applies the principles of engineering, physics, chemistry, biology, ecology, and earth, ocean and atmospheric sciences to problems associated with the quality of air, land, water and living systems. The scope of Environmental Engineering includes: the provision of a safe and potable water supply and adequate sanitation, waste water management, air and water pollution control, contaminated soil remediation, contaminant transport, recycling, resource recovery, environmental assessment and environmental law. Environmental Engineers design and manage processes and products that minimize pollution, protect human health, and promote sustainability and ecosystem health, without sacrificing economic viability and efficiency.

In BC, Canada, and internationally, the demand for Environmental Engineers from federal, Indigenous, provincial and municipal government agencies, manufacturing and treatment plants, resource industries and consulting firms, and the resulting establishment of Environmental Engineering programs, has been increasing for several decades.

Currently the Faculty of Applied Science offers a joint four-and-a-half year undergraduate degree in Environmental Engineering in collaboration with the University of Northern British Columbia. Students in this program complete 2 years of study at UNBC (years 1 and 2), before transferring to UBC for years 3 and 4, and then return to UNBC for a final semester. The joint program offers an excellent opportunity for UNBC and UBC to partner to bring students from the north to the Lower Mainland for years 3 and 4 of their program, but due to the requirements for years 1 and 2 to be completed at UNBC, it is rare for students from the Lower Mainland to select this program as they would need to relocate multiple times to complete the program.

As part of the 2018 BC Tech Expansion, the Ministry of Advanced Education Skills and Training granted approval and funding for UNBC to offer an independent Environmental Engineering program which was approved earlier this year. This proposal aims to address the growing demand from UBC Vancouver students wishing to select Environmental Engineering, as their chosen discipline, by establishing a new stand-alone program in Environmental Engineering for Bachelor of Applied Science students. At this time, neither the Faculty of Applied Science or our counterparts at UNBC feel that there is any reason to change the joint program, and see value in offering students multiple options for completion of their chosen program.

Subject to Board and Ministry approval, the Faculty aims to admit students into the second year of the program in September 2020. Tuition fees will follow the same tuition model as all other existing BASc programs. These programs assess tuition on a per-credit basis, which for 2019/20 are \$179.97 per credit for Year 1 and \$192.11 per credit for Years 2-5 for domestic students and \$1,321.18 per credit for international students, subject to annual increases as approved by the Board.

### Attachments

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

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### STRATEGIC CORE AREAS SUPPORTED

People and Places       Research Excellence       Transformative Learning       Local / Global Engagement

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#### DESCRIPTION & RATIONALE

The Bachelor of Applied Science in Environmental Engineering will be a 4-year, full-time, 147 credit program that will enroll approximately 40 high-achieving international and domestic students annually. Students will complete eight academic semesters leading to a CEAB accredited Engineering BASc; co-op placements are optional and may include up to 16 months of work placements. As in existing Engineering undergraduate programs, the curriculum includes the usual first year engineering experience, and Environmental Engineering specialization in the subsequent years.

The program was developed by drawing upon existing Environmental Engineering expertise within Applied Science in Chemical and Biological Engineering, Civil Engineering and Mining Engineering. The proposed curriculum is grounded in strong engineering science foundations and systems complexity, engineering design, collaborative community projects and a reciprocal, experiential learning environment created between students and stakeholders. It includes aspects of professional development such as ethics and equity training, workplace safety, training in communications, and opportunities for electives in humanities. In addition to graduating from an accredited engineering program leading to careers in industry and entrepreneurship.

This proposed stand-alone program at UBC will differ from the existing joint program with UNBC. For example, while no new courses were developed at UBCV for the joint program, six new courses are specifically tailored for the Environmental Engineering program proposed here. These courses take advantage of the large number of faculty in the Departments of Civil Engineering and Chemical and Biological Engineering at UBCV who are actively involved in the diverse range of subjects that comprise the field of Environmental Engineering. Also, the program will pilot a mentorship initiative that will build relationships between students, practitioners, and senior faculty members. The design courses will include training in transdisciplinary and public scholarship projects thereby empowering collaborations between industry, academics, and government.

To establish the viability of the program, a review of the labour market needs and recent government/industry reports was conducted, as well as research on comparable programs in Canada and internationally and consultations with relevant employers. External consultation validated the need for such a program and the importance to the BC economy. Sectors of employment for environmental engineers includes, but is not limited to, environmental consulting firms, urban municipalities, extractive industries, and rural communities. Specific tasks include:

- The design of facilities, management systems, and information systems;
- The performance of impact assessments (including regulatory, sustainability, environmental, social, and risk);
- Sustainability planning and design, and;
- Advising in the development of environmental regulations, policies, and laws.

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### **BENEFITS Learning**

Learning, Research,  
Financial,  
Sustainability &  
Reputational

The program diversifies the engineering specializations offered by the Faculty of Applied Science. It incorporates high-impact learning experiences, such as community engagement projects, that develop graduates who contribute to the design, maintenance, and operations of built environments and industrial processes such that healthy environments are able to provide ecosystem services. Graduates will also be equipped to address problems relating to climate change and biodiversity loss, thus expanding the value of Canada's environmental engineering sector.

The program builds on the existing expertise in the Departments of Civil Engineering, and Chemical and Biological Engineering, to offer an exceptional learning environment for students. It was developed in collaboration with industry partners, and aligns with the growing and expanding needs of the Environmental Engineering sector.

### **Research**

The proposed undergraduate program fosters research and public scholarship by creating relationships between diverse communities, including provincial and national research communities, and communities in both the public (urban, Indigenous, and rural) and private (e.g. agricultural, resource-based, consulting) sectors, all of which are interested in the quality of ENVE graduates.

### **Sustainability**

Environmental engineering practice exists at the interface between natural, capital and human activities. The program trains students to practice at both the small and large scales, including participating in, and contributing to, large sustainability challenges involving technical components, particularly those that involve the provisioning of clean water, air, and soil, and that otherwise influence ecosystem function. The ENVE program aims to equip graduates such that, as technical practitioners, they effectively contribute to 'the social' and 'the ecological' in ways that align with the United Nations' Sustainable Development Goals.

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**RISKS**  
Financial,  
Operational &  
Reputational

The Faculty of Applied Science has completed an assessment of the costs associated with the delivery of the Environmental Engineering program. The proposal includes the creation of six new courses. Our assessment indicates that the program can be delivered primarily through leveraging existing resources in the Departments of Chemical & Biological Engineering and Civil Engineering, as well as the existing infrastructure associated with the current joint UNBC-UBC Environmental Engineering program. While we have made every effort to capture our expected costs in the model, financial risk is inherent to the projection of revenues and expenses.

**Revenue**

Revenue projections for the program are based on the expected program enrollment, expected tuition increases (2% per annum for domestic tuition and 3% ISI tuition for 2019/2020) and an ISI ratio of 25%. Risks include a lower than expected program enrollement and an overall drop in the percentage of ISI students in APSC. We project this risk to be low, since BAsC programs at UBC receive 4 times more qualified applicants than available spaces.

**Expenses**

Risks include higher than projected faculty and staff salary increases; we project this risk to be low, as we are not proposing to add any further faculty or staff to launch the program.

**Operational**

The operational risks for this program include lack of sufficient operational support, faculty and space to deliver the program. These risks will be mitigated by:

- No additional headcount. Importantly, we are not proposing to increase the overall intake of APSC students, but instead offer students an opportunity to choose Environmental Engineering as a specializaiton.
- Working closely with department heads to review existing space within departmental footprints and identifying opportunities for sharing and maximizing space
- Working with the members of the existing Environmental Engineering Student (Joint program) club to share resources and club space for extracirricular activities

The program will be administered jointly by the existing Departments within APSC, and will utilize existing faculty and staff needed to deliver the program.

**Reputational**

Start-up reputational risk is low given the existing reputation and track record for APSC in delivering high quality CEAB accredited engineering undergraduate programs. The support from existing Departments of Civil and Chemical and Biological Engineering, along with the current joint Environmental Engineering program with UNBC will provide further support to ensure the quality and profile of the program meet the expected standards.

<b>COSTS</b> Capital & Lifecycle Operating	<p>Capital and lifecycle costs, including laboratory and teaching assistant costs, will be covered by the Faculty of Applied Science from existing operating budget and from tuition.</p> <p>The proposed program builds on the existing academic and administrative infrastructures, and leverages existing faculty expertise in Chemical and Biological, and Civil Engineering. Teaching expertise and appropriate learning spaces within the Departments of Civil Engineering and Chemical and Biological engineering will be utilized. As such, the program has relatively few start-up expenditures, which are primarily limited to the development of six new courses.</p>
<b>FINANCIAL</b> Funding Sources, Impact on Liquidity	<p>Proposed tuition fees will follow the same tuition model as all other existing BAsC programs. These programs assess tuition on a per-credit basis, which for 2019/20 are \$179.97 per credit for Year 1 and \$192.11 per credit for Years 2-5 for domestic students and \$1,321.18 per credit for international students, subject to annual increases as approved by the Board.</p>
<b>SCHEDULE</b> Implementation Timeline	<p>The program will be submitted to the Ministry of Advanced Education, Skills and Training pending approval from the Board.</p> <p>Pending approvals, the program aims to enroll the first cohort of students in September 2020.</p>
<b>CONSULTATION</b> Relevant Units, Internal & External Constituencies	<p>The Vice-President Students Office, in partnership with the Faculty of Applied Science, conducted a student consultation regarding the tuition proposal (as per Policy 71) for the new Bachelor of Applied Science in Environmental Engineering. The AMS and Engineering Undergraduate Society were invited to participate. The e-consultation was conducted from March 11, 2019 to April 11, 2019. A submission responding to the tuition proposal was received from the AMS.</p> <p>Additionally, the Faculty consulted with colleagues in the Institute for Resources, Environment, and Sustainability, Earth, Ocean and Atmospheric Sciences, Biology, Microbiology, and all of the engineering departments at UBC, as well as with engineering undergraduate students. The Faculty also consulted with UNBC, UVIC, SFU and BCIT, as part of the discussions held regularly by the Deans of Engineering in BC.</p> <p>External consultations with industry in BC, and government agencies, were also conducted and were instrumental in shaping the proposed ENVE curriculum.</p>

**Tuition and Fee Assessment Details****Bachelor of Applied Science in Environmental Engineering**

**Program Description:** The Faculty of Applied Science is proposing the creation of a new Bachelor of Applied Science in Environmental Engineering. Tuition and student fees will follow the same tuition model as all other existing BASc programs. These programs assess tuition on a per-credit basis.

**Anticipated Start Date:** September 2020

	Domestic	International
Tuition fees per credit – Note 1	\$179.97 (year 1) \$192.11 (year 2-5)	\$1,321.18
Application Fee – Note 2	\$70.50	\$118.50
Non-Refundable Acceptance Deposit – Note 3	\$500.00	\$1,000.00
Faculty and Course Fees – Note 4	\$116.25	\$116.25

Note 1 – Proposed tuition rates reflect 2019/20 approved tuition rates for the Bachelor of Applied Science, and are meant to be aligned with any increases as approved by the Board. Program intends to accept the first cohort of students for September 2021.

Note 2 – This is the current standard rate for the 2020W application cycle and is subject to increases as approved by the Board.

Note 3 – The non-refundable acceptance deposits will be applied towards the first tuition instalment.

Note 4 – The BASc Annual Professional Activities fee is assessed once in each year level enrolled in the BASc program at UBC.

Additional fees may apply if students wish to register in co-op, or the Go Global program. These fees are not part of the standard fees for the program and therefore are not included.

<b>BACHELOR OF APPLIED SCIENCE (B.A.SC.) IN ENVIRONMENTAL ENGINEERING</b> <b>STUDENT TUITION CONSULTATION REPORT</b>
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The Vice-President, Students Office, in partnership with the Faculty of Applied Science, conducted a student consultation regarding the tuition proposal for the Bachelor of Applied Science in Environmental Engineering. 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)
- UBC Engineering Undergraduate Society (EUS)

#### Mode of Consultation

The consultation consisted of an e-consultation and a face-to-face meeting. 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 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 of Applied Science. Please see Appendix 1 for the invitation and tuition rationale document.

**Timelines:** The e-consultation was conducted over the period of March 11<sup>th</sup> 2019 to April 11<sup>th</sup> 2019.

**Summary of Student Feedback:** Submissions were received from the AMS. The verbatim submission is in Appendix 2.

Organization	Summary
<b>AMS</b>	<p><b>SCHOLARSHIPS</b>            “The AMS would like to be updated on funding for scholarships for students entering into this program.”</p> <p><b>SUPPORT FOR AVAILABILITY OF ADDITIONAL COURSES</b>            “Not only does this program contribute to the rising concern for industries’ environmental impacts, but it will also create six new courses for other students in the Applied Science faculty to participate in.”</p>

No individual student submissions were received.

## APPENDIX 1: INVITATION TO CONSULTATION AND TUITION RATIONALE DOCUMENT

Good afternoon,

There is a submission by the Faculty of Applied Science to create a Bachelor of Applied Science in Environmental Engineering (BAsc.ENVE).

In order to inform the program leads and the Board of Governors with regards to the **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 tuition proposal if they wish. **Please note: the scope of this consultation process is limited to the tuition proposal.**

The consultation consist of:

### 1. e-consultation

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

- an overview of the program,
- consultation to date,
- tuition rationale for the program, and
- the proposed tuition.

Please share the document and this email as you see appropriate. **Comments on the tuition proposal and student organization submissions can be provided confidentially to: Natasha Moore – Planning and Evaluation Advisor, Vice President Students Office ([natasha.moore@ubc.ca](mailto:natasha.moore@ubc.ca)).**

### 2. Face to Face meeting

If requested by student representatives, we can arrange a face-to-face 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 THURSDAY APRIL 11TH.**

### 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.

If you have any questions about this process, please contact Natasha Moore at [natasha.moore@ubc.ca](mailto:natasha.moore@ubc.ca)

**Natasha Moore**  
**Planning and Evaluation Advisor | UBC Wellbeing**  
The University of British Columbia | Musqueam  
2260 West Mall | Vancouver, BC V6T 1Z4  
Phone: 604 827 2578  
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**BACHELOR OF APPLIED SCIENCE (B.A.SC.) IN ENVIRONMENTAL ENGINEERING****TUITION PROPOSAL****PROGRAM OVERVIEW*****Executive Summary of Program***

Environmental Engineering (ENVE) contributes to the health of ecosystems and the provisioning of ecosystem services to people, by addressing problems associated with the quality of air, land, water and living systems. Its scope includes: the provision of a safe and potable water supply and adequate sanitation, waste water management, air pollution abatement, noise reduction, contaminated soil remediation, contaminant transport, material recycling, and environmental assessment and law. Specific tasks include: a) the design of facilities, management systems, and information systems; b) the performance of impact assessments (including regulatory, sustainability, environmental, social, and risk); c) sustainability planning and design, and; d) environmental policy formulation.

In British Columbia, Canada, and internationally, the demand for Environmental Engineers from Federal, Indigenous, Provincial and Municipal government agencies, manufacturing and treatment plants, resource industries and consulting firms, and the resulting establishment of Environmental Engineering programs, has been increasing exponentially for several decades. Sectors of employment for environmental engineers include:

- Environmental consulting firms
- Urban municipalities
- Extractive industries
- Rural communities

ENVE is aligned with, but substantially different from, other clean or sustainable energy engineering programs offered in BC that are more aligned with the needs of the growing renewable energy sector of the economy.

The Bachelor of Applied Science in Environmental Engineering (B.A.Sc.) degree program offers students the opportunity to pursue a rigorous and innovative Canadian Engineering Accreditation Board (CEAB) accredited Environmental Engineering degree in Vancouver. ENVE graduates will be eligible for Engineer-in-Training (EIT) status in British Columbia leading to licensure as a Professional Engineer (P.Eng.) through Engineers & Geoscientists of B.C. (EGBC).

Students will apply to the common engineering first year program at UBCV, and specialize in Environmental Engineering starting in their second year. Steady-state annual intake into the ENVE program will be 40 students. The curriculum is modeled after top-ranked programs at other institutions and aligns with international recommendations for Environmental Engineering programs<sup>1</sup>. It is grounded in strong engineering foundations and systems complexity, collaborative community projects and a reciprocal, experiential learning environment created between students and stakeholders.

***Program Details***

The 4-year full time, 147 (148) credit<sup>2</sup>, UBC Vancouver program offered by the Faculty of Applied Science, will enroll approximately 40 high-achieving international and domestic students annually. Students will attend eight academic semesters leading to a CEAB accredited Engineering B.A.Sc.. Coop placements are optional and may include up to

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<sup>1</sup> For instance, see Dowling, D., and Hadgraft, R. (2013). A Graduate Capability Framework for Environmental Engineering Degree Programs: A Guide for Australian Universities. Office for Learning and Teaching, Department of Industry, Innovation, Science, Research and Tertiary Education. Sydney

<sup>2</sup> In some years of the program, students will be offered constrained choice for core courses. Thus, as with other programs offered by APSC, ENVE students will graduate with either 147 or 148 credits.

16 months of work placements. As in existing Engineering undergraduate programs, the curriculum includes the usual common first year engineering experience, and Environmental Engineering specialization in the subsequent years.

Length	4 years
Total credits	147 (148)
Credits of required programming	UBC Requirements: 21 - Within the proposed curriculum, students must fulfil all Complementary Studies before graduation. Foundational (YR 1): 37 Advanced (YR 2, YR 3, YR 4): 37, 37 (or 38), 36
Technical Elective credits	6 credits

### FUTURE OF ENVIRONMENTAL ENGINEERING & PROGRAM DEVELOPMENT PROCESS

Today, countries, law-makers, citizens' groups and industries have a heightened awareness and concern for how decisions and actions affect the environment. Therefore, the field of environmental engineering is growing in size and influence. Environmental engineers work carefully with corporations, law-makers and others, employing sound principles and sustainable processes at a variety of scales, in order to protect the future of our air, land, water and biotic resources. Further, it is recognized widely that increasing numbers of engineering graduates are needed within British Columbia to assure its economic growth and maintain its high quality of life. Such growth inevitably requires the expertise of highly skilled environmental engineers able to work with an array of disciplines and perspectives. A review of labour market, and recent government reports, as well as consultations with relevant employers, supports the large and growing need for environmental engineering graduates ready to take on the new challenges facing consulting firms, urban centres, small communities, and extractive industries in BC, Canada and the world.

The proposed ENVE curriculum is grounded in strong engineering science foundations and systems complexity, engineering design, collaborative community projects and a reciprocal, experiential learning environment created between students and stakeholders. It includes aspects of professional development such as ethics and equity training, workplace safety, training in communications, and opportunities for electives in humanities. In addition to graduating from an accredited engineering program leading to careers in industry and entrepreneurship.

The program was developed by drawing upon existing Environmental Engineering expertise within Applied Science in Chemical and Biological Engineering, Civil Engineering and Mining Engineering. Consultations with colleagues in the Institute for Resources, Environment, and Sustainability, Earth, Ocean and Atmospheric Sciences, Biology, Microbiology, and other units on campus, as well as with students, the engineering consulting industry in British Columbia, and government agencies were also used to shape this proposal.

### TUITION AND FEES RATIONALE

Proposed tuition follows the tuition model for all Bachelors of Applied Science programs at UBC.

#### *Expected annual tuition, based on credits*

Required credits per year	Tuition \$CAD	
	Domestic Y1: \$179.97/credit Y2-4: \$192.11/credit	International \$1,321.18/credit
Year 1 – 37 credits	\$6,658.89	\$48,883.66
Year 2 – 37 credits	\$7,108.07	\$48,883.66
Year 3 – 37 (or 38) credits	\$7,108.07 (or \$7,300.18)	\$48,883.66 (or \$50,204.84)

Year 4 – 36 credits	\$6,915.96	\$47,562.48
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*\*Per credit tuition fees are aligned with the approved tuition rates for the Bachelor of Applied Science. These rates are subject to annual tuition increases as approved by the Board.*

### **Tuition Rationale & Benchmarking**

This program will follow the same tuition model as all other existing B.A.Sc. programs. These programs assess tuition on a per-credit basis. Current rates are published on the central UBC website.

This program will share the common first year of existing UBCV engineering programs. Additionally, a number of the courses for the program, both core and elective, are pre-existing courses. In total, we propose the creation of six new courses.

Resources required to support the development and launch of the Environmental Engineering program have been confirmed by the Faculty of Applied Science, with contributions from both the Department of Chemical and Biological Engineering and the Department of Civil Engineering.

## **PROPOSED TUITION AND FEES**

### **Tuition**

The proposed tuition for the program is \$179.97/credit for Year 1 & \$192.11/credit for Years 2-5 for domestic students and \$1321.18/credit for international students.

	<b>Domestic</b>	<b>International</b>
Tuition Fees per Credit – Note 1	\$179.97 (year 1) \$192.11 (years 2-5)	\$1,321.18
Application Fee – Note 2	\$70.50	\$118.50
Non-Refundable Acceptance Deposit – Note 3	\$500.00	\$1,000.00
Faculty and Course Fees – Note 4	\$116.25	\$116.25

Note 1 – Proposed tuition rates reflect 2019/20 approved tuition rates for the Bachelor of Applied Science, and are meant to be aligned with any annual increases as established by the University. Program intends to accept the first cohort of students for September 2021.

Note 2 - This is the current standard rate for the 2020W application cycle and is subject to annual increases.

Note 3 - The non-refundable acceptance deposits will be applied towards the first tuition instalment.

Note 4 – B.A.Sc Annual Professional Activities fee payable each year enrolled in B.A.Sc program at UBC.

Additional fees may apply if students wish to register in co-op, or the Go Global program. These fees are not part of the standard fees for the program and therefore were not included.

## APPENDIX 2: STUDENT SUBMISSIONS

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There was a submission from the AMS.



Student Society  
of UBC Vancouver

### **Submission to the UBC Board of Governors Regarding the Tuition for a New Bachelor of Applied Science in Environmental Engineering (BASc.ENVE) April 11<sup>th</sup>, 2019**

Dear Board of Governors,

This submission is made on behalf of the Alma Mater Society of UBC Vancouver (AMS) in response to the feedback request from the Vice President Students Office on tuition for the creation of a Bachelor of Applied Science in Environmental Engineering (BASc.ENVE).

The proposed tuition is aligned with tuition rates for the Bachelor of Applied Science degree, with first year tuition being \$179.97 per credit, and \$192.11 per credit for subsequent years for domestic students. The international tuition fee is \$1321.18 per credit.

UBC will be able to meet the growing need of environmental engineers working in various sectors through its placement of students in the ENVE program. Not only does this program contribute to the rising concern for industries' environmental impacts, but it will also create six new courses for other students in the Applied Science faculty to participate in.

The AMS appreciates that these opportunities are made available to both domestic and international students, and the tuition pricing is in line with other courses in the Applied Science faculty. The AMS would like to be updated on funding for scholarships for students entering into this program. The AMS appreciates that UBC is incorporating sustainability into its offerings, and is developing leaders in sustainability through the creation of this new program.

The AMS supports the creation of this new program and we are grateful to the University for including student input in this process. We look forward to the creation of the new Bachelor of Applied Science in Environmental Engineering and to the great work and future success of students the program.

Sincerely,

**Marium Hamid**

President

AMS Student Society of UBC Vancouver

[president@ams.ubc.ca](mailto:president@ams.ubc.ca)