



Okanagan Senate

THE EIGHTH REGULAR MEETING OF
THE OKANAGAN SENATE
FOR THE 2023/2024 ACADEMIC YEAR
THURSDAY, 25 APRIL 2024

3:30 P.M. | RHS 257 AND VIA ZOOM

1. **Call to Order – Dr Lesley Cormack**
2. **Senate Membership – Dr Rella Ng**

New Members:

- Himmat Dhadli, Faculty of Applied Science
- Olivia Lai, Faculty of Arts and Social Science
- Owen Howk, Faculty of Creative and Critical Studies
- Pavan Mann, Faculty of Management
- Lisa Yanagi, Faculty of Science
- Ashmeet Mand, Faculty of Health and Social Development
- Amanda Shatzko. Graduate Student (Continuing)
- Saami Hafeez (Continuing), At-large
- Richard Lessan, At-large
- Toluwanimi Okunola At-large
- Ayanfeoluwa “Paul” Oladokun At-large
- Dilpreet Samra, At-large
- Hai Tong (Jacky) Wang. At-large

NB: a vacancy exist for an additional graduate student member and the student for the Faculty of Education’s term runs from 1 October to 30 September each year.

Nominating Committee:

First Call for Nominations for two student members of Senate for the Senate nominating Committee to serve until 31 March 2025 and thereafter until replaced (information)

3. **Minutes of the Meeting of 28 March 2024 – Dr Lesley Cormack** (approval)
(docket pages 3-14)
4. **Business Arising from the Minutes – Dr Lesley Cormack**



5. **Remarks from the Deputy Vice-Chancellor – Dr Lesley Cormack**
6. **Remarks from the Provost – Dr Rehan Sadiq**
7. **Academic Policy Committee – Dr Jannik Eikenaar**
 - a. Revisions to Academic Regulations for the Bachelor of Applied Science (approval) (docket pages 15-23)
 - b. Revisions to Academic Regulations for the Faculty of Creative & Critical Studies (approval) (docket pages 24-28)
 - c. Revisions to Academic Regulations for the Faculty of Arts & Social Sciences and Creative & Critical Studies (approval) (docket pages 29-31)
 - d. Revisions to Academic Regulations for the Faculty of Arts & Social Sciences (approval) (docket pages 32-38)
 - e. Revisions to Course Standings for the Implementation of Workday Student (approval) (docket pages 39-40)
8. **Curriculum Committee – Dr Yves Lucet**
 Curriculum Proposals from the Faculties of Applied Science, Arts & Social Sciences, Creative & Critical Studies, Education, and Science. (approval) (docket pages 41-107)
9. **Report from the Vice-Principal Research– Dr Phil Barker**
Establishment of the Interior Salishan Studies Centre (information) (docket pages 108-111)
10. **Report from the Deputy University Librarian – Mr Robert Janke**
 Annual Report on the Library (information) (docket pages 112-128)
11. **Report from the Registrar – Dr Rella Ng**
 2024 Okanagan Student Senate and Board of Governors Elections (information) (docket pages 129-130)
12. **Other Business**
13. **IN CAMERA – Academic Policy Committee – Dr Jannik Eikenaar**
 Motion Regarding the Israel-Gaza Crisis

The Rules and Procedures of the Okanagan Senate states that meetings will adjourn no later than 5:30 p.m. Regrets: Telephone 604.822.5239 or e-mail: facsec@mail.ubc.ca

UBC Senates and Council of Senate website: <http://www.senate.ubc.ca>



OKANAGAN SENATE

MINUTES OF 28 MARCH 2024

DRAFT

Attendance

Present: L. Cormack (Vice-Chair), R. Ng (Secretary), A. Alnaar, A. Ardestani-Jaaferi, P. Arthur, H. Berringer, R. Campbell, J. Cheng, N. Chenoweth, J. Cioe, J. Denison, T. Ebl, M. Evans, R. Frost, S. Hafeez, J. Hare, S. Hilton, K. Hodges, A. Idowu, R. Janke, R. Johnson, D. Keyes, R. Lalonde, P. Lasserre, Y. Lucet, B. Marcolin, J. Olson, S. Pakpour, L. Parrott, M. Reekie, M. Rheault, R. Sadiq, C. Schreyer, P. Shah, O. Sharma, A. Shatzko, A. Shinde, P. Simpson, R. Taheri, M. Tarrant, B. Traister, S. Willis-Stewart.

Regrets: B.-A. Bacon, S. Point, P. Amuta, P. Barker, A. Brar, J. Low, J Eikenaar, M. Garg, B. He, W. Hughes, N. Jalili, M. Libben, J. Milliken, N. Obeegadoo, J. Picault, S. Roy-Bois, A. Shinde, S. Tomaskova, B. Visscher, R. Zaitoun

Clerk: C. Eaton

Call to Order

The Vice-Chair of Senate, Dr Lesley Cormack, called the seventh meeting of the Senate to order at 3:32 pm.

Senate Membership

The Registrar, Dr Rella Ng, announced the following changes in the membership of Senate:

New Member:

Dr Sepideh Pakpour, Faculty Member for the Faculty of Applied Science, until 31 August 2026 and thereafter until replaced, to replace Dr Peyman Yousefi.

Minutes of 29 February 2024

Jan Cioe
Stephen O'Leary

That the Minutes of 29 February 2024 be approved as corrected:

Corrections: Spelling errors, attendance



Business Arising

A memo was distributed by the Registrar in follow up to a question regarding the 2023/2024 Enrolment Report presented at the previous meeting. The question raised was, “Is the decrease in applications for domestic students following the demographics of the region?”

The response to that question was yes, the overall population in BC has been decreasing and will improve.

Senator Cioe asked if there was more data for the Okanagan valley in particular.

The Registrar, Dr Rella Ng, said that they were still working with pair to make this clear but it showed a similar trend in the Okanagan vs BC generally.

Remarks from the Deputy Vice-Chancellor

The Deputy Vice-Chancellor expressed the thanks of the Senate and University those student members completing their terms of office on 31 March.

Dr Cormack, she acknowledged the busy and stressful time for both students and instructors with the approaching final exams. She advised Senate of the Board's approval of UBC's budget, highlighting the collaborative efforts of numerous staff members and administrative units in its development.

With regards to student visas, Dr Cormack noted British Columbia's proactive approach in distributing these visas ahead of other provinces. Despite the manual and labor-intensive process of issuing letters of attestation, Dr Cormack praised the efforts of those doing this work.

Regarding government relations, Dr Cormack discussed her recent engagements with ministers in Victoria, emphasizing the Okanagan Campus's importance in the province's post-secondary landscape. She highlighted ongoing efforts to engage with officials on issues such as forest fire preparedness, with upcoming visits planned to Ottawa for further advocacy.

In response to a question about reclaiming unused attestation letters, Dr Cormack explained ongoing discussions with ministry officials, noting that while there are no immediate solutions for the current cycle, efforts are being made to track and potentially reuse attestations in the future.

In response to a question from Senator Rheault, Dr Ng said that we don't have a system yet to reclaim unused letters but we need to continue that conversation for next session.

Remarks from the Provost



The Vice-President Academic & Provost, Dr Rehan Sadiq, began his remarks by acknowledging Dr Kendrick James's appointment as interim director of the UBC Okanagan School of Education for a two-year term, commencing in July 2024, followed by congratulations to Robert Janke on his appointment as Deputy University Librarian for the Okanagan campus.

Next, Dr Sadiq shared the approval of six UBC Okanagan projects for funding through the Strategic Equity and Anti-Racism (StEAR) Enhancement Fund, representing 20% of total grants, with more results expected soon. He also celebrated the recipients of the BC Campus Award for Excellence in Open Education, highlighting individual and group achievements, including Bowen Hui, Tamara Freeman, W. Stephen McNeil, and Riley Petillion,

Dr Sadiq concluded his announcements by discussing upcoming teaching and learning events, including Celebrate Learning Week from May 6th to 10th, focusing on student and faculty well-being in the age of AI. Additionally, he mentioned the Thomson Okanagan Teaching and Learning Conference on May 9th and 10th, in partnership with Thompson Rivers University, where session proposals are currently being accepted.

Joint report of the admissions & awards and curriculum committees

The Chair of the Senate Curriculum Committee, Dr Yves Lucet, presented.

NEW PROGRAM: POST-BACCALAUREATE CERTIFICATE IN PRIMARY CARE NURSING

See Appendix A: Curriculum Report

Yves Lucet
Barb Marcolin

That Senate approve and recommend to the Board of Governors for approval the Post-Baccalaureate Certificate in Primary Care Nursing and associated new courses.

Approved

Admissions and Awards Committee

The Chair of the Senate Admissions & Awards Committee, Mr Rob Johnson, presented.

NEW AWARDS

See appendix B: Awards Report



Rob Johnson
Patricia Lasserre

That the Senate approve the new and revised awards as listed, that they be forwarded to the Board of Governors for approval, and that a letter of thanks be sent to the donors.

Approved

DVC SCHOLARSHIPS

See appendix B: Awards Report

Rob Johnson
Ray Taheri

That the Senate approve the new Deputy Vice-Chancellor Scholarship for Continuing Indigenous Students and the revised Deputy Vice-Chancellor Scholarship for Continuing Students.

Senator Ebl noted that when a similar proposal was brought forward in the previous triennium there were concerns raised regarding equitable distribution of awards across faculties. She asked how are we monitoring that the top percentage is a fair reflection that does not favour particular faculties and programs.

Senator Johnson said that the awards would be adjudicated with averages calculated on a faculty basis rather than across the entire undergraduate population.

Senator Ebl asked if there was new money for the indigenous awards or if this was a reallocation of existing funding.

Senator Johnson said it was a reallocation of existing award funds.

Senator Ebl asked what happened if an indigenous student was eligible for both scholarships.

Senator Johnson said if an Indigenous student was in the top 10% of their year level in their program, they would receive the existing award, if they were in the top 20% but did not receive the existing, they would receive the new award.

In response to a question from Senator Schreyer, it was confirmed that all direct-entry undergraduate degree programs would be included.

In response to a question from Senator Hafeez, he was advised that funding for these awards came out of the General Purpose Operating Fund.

Senator Idowu asked why international students were not included in these awards



The registrar said that there was a different budget for international awards. The discontinuation of the international DVC awards was done prior to the pandemic based on feedback from student governments on the award not providing value and being better spent on experiential learning.

Senator Ebl said part of the rationale was lack of sustainability. She asked what due diligence had been done to ensure the new awards were sustainable.

Dr Ng said that we did an analysis – the funds weren't from an endowment but rather from tuition. It being a top 10% makes it more predictable rather than being a set percentage.

Senator Reault noting the existing award criteria not being sustainable due to grade inflation.

Dr Sadiq agreed, but said there was also a fundamental difference in grading between faculties.

Approved

NB: Senator Hafeez voted against the motion

AFFILIATION WITH OKANAGAN COLLEGE

Rob Johnson
Tamara Ebl

That the Senate approve the terms of the affiliation between UBC and Okanagan College as set out in the “Engineering Admission Agreement Between the University of British Columbia – Okanagan Campus Kelowna, BC and Okanagan College Kelowna, BC”).

Senator Cioe asked what the rationale was in excluding grades from English. No answer was available from those in attendance.

Dr Olson spoke of the long-standing success of students in other bridge programs with similar criteria.

In response to a question from Senator Idowu, it was stated that 10 spots would be guaranteed to transfer students in the bridge program from Okanagan college but more may be admitted.

Approved



Curriculum Committee

The Chair of the Senate Curriculum Committee, Dr Yves Lucet, presented.

Appendix A: Curriculum Report

Yves Lucet
Rob Johnson

That Senate approve and recommend to the Board of Governors for approval the revised calendar entry and new and revised courses as brought forward by the Faculties of Applied Science, Arts and Social Sciences, and Science.

Approved

Report from the Provost

STUDENT EXPERIENCE OF INSTRUCTION

Dr Sadiq asked Senate to welcome Mr Brad Wuetherick and Dr Abdel Azim Zumrawi to present.

Mr Wuetherick highlighting the significance of the annual report for the Senate. He explained that the report, covering both 2021 and 2022, aimed to align with similar reports sent to the Vancouver Senate. He outlined three primary purposes of the report: closing the feedback loop with students and faculty, informing faculty members about student experiences, and updating the Senate on governance and oversight of the student instructional experience. Mr Wuetherick noted UBC's active efforts in developing an integrated evaluation of teaching policy, aiming to balance student feedback with peer feedback and self-assessment by instructors and emphasized the importance of recognizing student feedback as just one aspect of evaluating teaching on campus.

Dr Zumrawi commenced his presentation by introducing a table illustrating the recommended minimum response rates based on an 80% confidence level and a plus or minus 10% margin of error. He highlighted that these rates were established through research conducted by himself, Simon Bates, and Marianne Schulder in 2014, underscoring their significance in determining survey thresholds. He then presented data showcasing the proportion of classes meeting the recommended minimum response rate by class size for the years 2021 and 2022. He noted a consistent pattern of lower overall response rates in term one, particularly concerning a significant decline in the Okanagan region.

Dr Zumrawi discussed a study analyzing response rates of surveys completed in class, highlighting the utilization of a 15-minute completion window as a surrogate for in-class



submissions. He emphasized the validity of this approach and presented findings from Vancouver data spanning four academic years. He then elaborated on three key metrics used to summarize instructor ratings: the interpolated median, dispersion index, and percent favorable. He detailed the computation and significance of each metric, emphasizing their combined utility in evaluating student ratings comprehensively

Senator Cioe raised the issue of minima. He said that people in the middle tended not to respond to surveys. This complicates correlational matrices. With respect to encouraging response rates, Dr Cioe noted his success when giving students a grade inducement to respond.

Senator O’Leary noted that paper evaluations in class time produced a larger set of responses, he asked why not return to that system.

Senator Willis-Stewart said her committee saw this previously as they worked on Integrative Evaluation of Teaching. She also noted that on class time improves responses.

Senator Ebl asked why winter term 2 had lower response rates – are students fatigued?

Mr Wuetherick said that the uniform drop between terms was a universal phenomenon, not just an issue at UBC. He suggested that survey fatigue may be an issue, many surveys at UBC were done towards the end of term 2.

Senator Ebl said she appreciated the thought of class time and explaining context. As an instructor she said that she wasn’t clear on why these surveys matter and how they will be used.

Senator Cioe said that he reviewed his previous year’s comments with his new class and outlined if and how he addressed concerns raised.

Senator Hodges spoke about the consequences for instructors when these surveys were used for consideration for promotion, tenure and merit. She said these reports make it glaringly obvious where the statistics from these evaluations are meaningless, and yet we have decided that these statistics will be used to determine our tenure and pay. Dr Hodges said that they were flawed and faulty and an evidence-based university should not use these tools.

Senator Frost said that we needed student feedback but she was concerned how that feedback was used. She also noted the benefits of according time in class to complete surveys for good response rates.

Senator Taheri echoed Senator Hodges’ concerns and also agreed with Senator Frost and others about allocating time in class. He suggested that paper worked better because it was in class, not because of the medium. He also noted that Bachelor of Applied Science students may get 12-20 surveys a term and that responses tended to be bimodal.



Senator Willis-Stewart agreed with Senator Frost and again highlighted the important of Integrative Evaluation of Teaching. She asked if we needed to do these surveys for every section every year or if we could be more strategic to avoid survey fatigue.

Senator Lalonde asked that if this wasn't the right forum to discuss promotion and tenure impacts, where was?

Mr Wuetherick advised that triennium, there's the impending discussion surrounding the integrated evaluation of teaching policy, which aims to establish a high-level framework for teaching evaluation. This policy needed to ensure that besides student feedback, other essential elements are considered in the evaluation process. Currently, in the Okanagan, the academic calendar features only a single statement governing student evaluation of teaching. Conversely, Vancouver boasts a more comprehensive policy known as the student experience or student evaluation of teaching. Plans are underway to update this policy to align with the changes from 2021, with the ultimate goal of establishing a uniform policy across both campuses. This initiative will prompt further discussions specifically regarding a student experience of instruction policy for the Okanagan campus. He further noted that the Provincial Government mandates student feedback being taken into considering, which added a further layer of complexity to our considerations. He asked the Clerk to Senate to clarify in particular with regards to jurisdiction.

The Clerk to the Senates, Mr Christopher Eaton said that it is a complicated framework for Student Evaluations of Teaching/Student Experience of Instruction. He noted that the Okanagan campus did have regulations around what are still formally student evaluations of teaching. They were the decisions made by the previous University Senate prior to 2,005, as modified by the Okanagan in 2013 so there are some regulations in back to this campus, but they are certainly not as modern as Vancouver's. With respect to jurisdiction. You as a as a Senate of UBC have had policies on this in your case for your entire existence in the case of the University for decades, and it is something the Senate could mandate. The question is what is done with that data from an employment perspective and that is a matter for the Board and their collective agreement with the UBC Faculty Association. What the Senate mandates academically and what the Board does from an employment perspective were two distinct things, even if the latter used data from the former.

Senator Parkpour asked if removing an assessment removed valuable data.

Senator Rheault said that a lot of work was put into re-evaluating the questions – but all 4 now really just ask if one likes their professor so we would get homogeneous answers. He said that it was hard to convince faculty in the value of a teaching assessment if they don't think it's a fair evaluation. He particularly noted the issue with gender bias in the results.

Report from the Registrar

**BY ELECTION RESULTS**

Pursuant to Section 15 of the *University Act*, Dr Ng advised Senate of the results of the Applied Science by-election: Further to the call for nominations for an Applied Science faculty member on the Okanagan Campus to fill one (1) vacancy on the Okanagan Senate for the remainder of the 2023-2026 triennium, first issued on 8 February 2024 and extended on 26 February 2024, two (2) valid nominations were received. One (1) candidate subsequently withdrew from the election. Thus, the following faculty member was acclaimed as elected as representative of the Faculty on the Okanagan Campus on the Okanagan Senate for a term ending 31 August 2026 and thereafter until a successor is elected:

Dr Sepideh Pakpour, Assistant Professor

Adjournment

Seeing no other business, the meeting was adjourned at 5:11 pm.



Appendix A: Curriculum Report

FACULTY OF HEALTH AND SOCIAL DEVELOPMENT

New Certificate Program:

Post-Baccalaureate Certificate in Primary Care Nursing

New Courses:

NRSG 424/524

NRSG 425/525

NRSG 435/535

FACULTY OF APPLIED SCIENCE

Revised Calendar Entry:

Manufacturing Engineering Program Requirements

FACULTY OF ARTS AND SOCIAL SCIENCES

New Courses:

SOCI 370

SOCI 483

FACULTY OF SCIENCE

New Courses:

CHEM 474

CHEM 477

CHEM 481

CHEM 482

CHEM 484

CHEM 485

CHEM 519

CHEM 529

CHEM 574

CHEM 577

CHEM 581

CHEM 582

CHEM 584

CHEM 585

CHEM 591

CHEM 592

BIOC 406

BIOC 477

Revised Courses:

CHEM 429

BIOC 425



Appendix B: Awards Report

NEW AWARDS:

CPA Education Foundation BC Scholarship in Accounting for Indigenous Students

A \$2,000 scholarship has been made available annually through a gift from the Chartered Professional Accountants' Education Foundation of BC for a First Nations, Inuit or Metis student of Canada entering third year in the Bachelor of Management program at the University of British Columbia, Okanagan campus. The recipient will have demonstrated outstanding academic achievement in core accounting courses. The award is made on the recommendation of the Faculty of Management. (First award available for the 2024/2025 winter session).

Douglas A. Corbishley Bursary in Engineering

Bursaries totalling \$6,000 have been made available through an endowment established by Douglas and Diane Corbishley, along with matching funds from the University of British Columbia, for third- or fourth-year undergraduate students in the Bachelor of Applied Science at the University of British Columbia, Okanagan campus. Preference will be given to students who have graduated from a secondary school in the Okanagan Valley. The Corbishley family has strong ties to the south Okanagan. Raised in Oliver, BC, Doug graduated from UBC in 1959 with a B.A.Sc. in Chemical Engineering. After marrying Diane, Doug's successful international career eventually brought his family back home to Okanagan Falls. This award recognizes Doug's family roots in the Okanagan Valley and his proud connection to UBC. The bursaries will be adjudicated by Enrolment Services. (First award available for the 2024/2025 winter session).

Corbishley Family Graduate Award in Science

Awards totalling \$12,000 have been made available through an endowment established by Douglas (B.A.Sc. 1959) and Diane Corbishley, along with matching funds from the Irving K. Barber Faculty of Science, for graduate students in any program within the Faculty of Science at the University of British Columbia, Okanagan campus. The awards are established by Doug and Diane in recognition of their long history in the Okanagan Valley and their enduring commitment to making a positive difference for UBC's Okanagan campus. The awards are made on the recommendation of the Irving K. Barber Faculty of Science. (First award available for the 2024/2025 winter session)

Valley First Award in Student Involvement and Leadership

Awards totalling \$5,000 (valued at \$500 each) have been made available annually through a gift from Valley First for undergraduate and graduate students at the University of British Columbia, Okanagan campus. The awards celebrate the involvement and contributions of graduating undergraduate and graduate students at UBC Okanagan. Recipients must have demonstrated leadership and community involvement, on and/or off campus. The awards are made on the recommendation of the Student Involvement and Leadership Award Adjudication Committee. (First award available for the 2023/2024 winter session).

Deputy Vice Chancellor Scholarship for Continuing Indigenous Students

Scholarships valued at up to \$1,000 are offered by the University of British Columbia Okanagan to the top 20% of continuing domestic Indigenous undergraduate students entering second, third,



or fourth year at the University of British Columbia Okanagan. These scholarships recognize the value of continuing Indigenous students and their academic achievement.

REVISED AWARD:

Deputy Vice Chancellor Scholarship for Continuing Students

Current description:

Scholarships ~~ranging in value from \$500~~ **valued at up** to \$1,000 are offered by the University of British Columbia Okanagan to **the top 10% of** continuing domestic students entering second, third, or fourth year at the University of British Columbia Okanagan. These scholarships recognize the value of continuing students and their academic achievement.

Revised description:

Scholarships valued at up to \$1,000 are offered by the University of British Columbia Okanagan to the top 10% of continuing domestic undergraduate students entering second, third, or fourth year at the University of British Columbia Okanagan. These scholarships recognize the value of continuing students and their academic achievement.



25 April 2024

To: Okanagan Senate

From: Senate Academic Policy Committee

Re: Changes to Academic Regulations for the Faculty of Applied Science (School of Engineering)

The Academic Policy Committee has reviewed the attached proposal from the School of Engineering for the Bachelor of Applied Science and is pleased to recommend the following:

Motion: *That Senate approve the revisions to the academic regulations for the Faculty of Applied Science - School of Engineering, effective for the 2024 Winter Session and thereafter, as attached.*

Respectfully submitted,

Dr Jannik Eikenaar, Chair
Senate Academic Policy Committee



Curriculum Proposal Form

Change to Program – Okanagan campus

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| Category: 1 | |
| School of Engineering Faculty of Applied Science Faculty Approval Date: 2024.02.13 Effective Session: 2024W | SOE Curriculum Date: 2023.01.30 Contact Person: Dr. Sabine Weyand Phone: 250.807.8068 Email: Sabine.Weyand@ubc.ca |
| Type of Action: Revision to Academic Regulations | |
| <p>Rationale: The goal of this proposal is to re-arrange our Academic Regulations page to be more easily navigable by students, to add transparency and clarity around faculty policies and procedures, to align more with the language used by the Faculty of Applied Science, and to modify some language to prepare for Workday Student. Specific changes include:</p> <ol style="list-style-type: none"> 1) Advancement and Class Standing: Updated both to align with Workday Student. 2) Concessions: More language has been added around academic concessions to ensure students are aware of the options available to them. 3) Academic Standing: Newly added section - currently students are required to achieve an overall average of 55% or greater AND pass 65% of credits taken. Moving to a solely average-based assessment will allow students who struggled in Term 1 to reduce their course load in Term 2 so they can try to achieve In Good Standing by putting more time into fewer courses. Academic Probation is added in the interest of improving student outcomes and ensuring students are adequately prepared for future years of study we are proposing adding On Academic Probation to student records who fall between 55-59.9%, restricting those student's credits to ensure they can take the extra time needed to improve their grades. | |
| <p>Continual Improvement: We have heard from students concerned about a lack of transparency around re-admission as well as from students confused about academic standing following the 22W Sessional Evaluations. Following a higher than typical number of students in Failed standing, adding On Academic Probation will better enable the SOE to identify and support underperforming students, and divert them to a more successful path before they achieve Failed standing.</p> | |
| | Draft Academic Calendar URL: URL https://okanagan.calendar.ubc.ca/faculties-schools-and-colleges/school-engineering/bachelor-applied-science-program/academic-regulations |



| Proposed Academic Calendar Entry: | Present Academic Calendar Entry: |
|--|--|
| <p>Academic Regulations Dean's List</p> | <p>Academic Regulations Dean's Honour List</p> |
| <p>Students in any Winter Session with a sessional average of at least 80% while taking 30 or more credits will receive the notation "Dean's List" on their record.</p> | <p>Students in any Winter Session with a sessional average of at least 80% while taking 30 or more credits will receive the notation "Dean's Honour-List" on their record.</p> |
| <p>Degree with Distinction</p> | <p>Degree with Distinction</p> |
| <p>Students will be granted a degree with distinction upon graduation if they achieve an overall average of at least 80% on all 200-level and higher courses while registered in the B.A.Sc. program.</p> | <p>A student will be granted a degree with distinction upon graduation if he or she achieve an overall average of at least 80% on all 200-level and higher courses while registered in the B.A.Sc. program.</p> |
| <p>Student Classification</p> | <p>Student Classification</p> |
| <p>The required courses and electives are shown in the following sections. The normal completion time for the Bachelor of Applied Science is four to five years. Students may take higher loads than those shown below with the approval of the Associate Director, Undergraduate Studies.</p> | <p>The required courses and electives for the Winter Session are shown in the following sections. The normal completion time is four to five years. Students may take higher loads than those shown below with the approval of the Dean's Office.</p> |
| <p><u>Students with questions about credit load and eligibility for financial assistance, awards, and scholarships should check with Student Records and Financial Services.</u></p> | <p>To be considered full time, students must carry a credit load in the Winter Session equal to at least 80% of the standard credit load for the year and program in which they are registered. Note: the Faculty's definition of full-time status may differ from that of the Student Financial Assistance and Awards office in determining eligibility for financial assistance. Check with <u>Student Services and Financial Support</u> to ensure eligibility for scholarships and awards.</p> |
| <p><u>Class Standing</u></p> | <p>Students with approval for a Winter Session credit load less than that required for full-time status will be considered part time. Part-time students will not normally be eligible for scholarships or for "Degree with Distinction" status.</p> |
| <p><u>Students are granted credits for all courses passed. Progression requirements to move through the year levels, or class standings, are governed by the earned credits as follows:</u></p> | |
| <p><u>Year 1</u> <u>0-26 credits</u></p> | |
| <p><u>Year 2</u> <u>27-62 credits</u></p> | |
| <p><u>Year 3</u> <u>63-98 credits</u></p> | |
| <p><u>Year 4</u> <u>99 or more credits</u></p> | |



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|---|--|
| <p><u>Examinations and Assessments</u></p> <p>In any course that includes both lecture and laboratory work, students must complete the laboratory assignments with satisfactory standing before being admitted to the written examination of the course, and must pass in the material of both components before standing will be granted in the subject. The minimum passing mark in each course is 50%.</p> <p><u>Term essays and examination papers may be refused a passing mark if they are noticeably deficient in English.</u></p> <p>Advancement</p> <p>To pass the year, students must obtain an overall average of at least 55% in the Winter Session. In a failed year, students will be granted credit for all courses passed.</p> | <p>Students taking courses from more than one year level will normally be given academic year status based on the program year of the majority of credits being taken.</p> <p>Examinations</p> <p>Examinations are held in December and in April. In any course that includes both lecture and laboratory work, students must complete the laboratory assignments with satisfactory standing before being admitted to the written examination of the course, and must pass in the material of both components before standing will be granted in the subject. The minimum passing mark in each course is 50%.</p> <p>Advancement</p> <p>To pass the year, students must obtain an overall average of at least 55% in the Winter Session, and a pass in 65% of credits taken. Students who fail a year will be required to discontinue studies in the School for at least one year, but are eligible to apply for readmission after that year. Students who fail</p> |
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Concessions

Students who experience events or circumstances that interfere with their ability to accomplish academic work can request Academic Concession.

Academic concessions must be requested in a timely manner and, if approved, will be scheduled at the discretion of the faculty.

Students who will miss an exam for reasons that qualify for Academic Concession can request academic concessions including: Late Withdrawal, to withdraw from the course with a W standing; Standing Deferred Exam, to write the exam at a later date; or an Out of Time Exam, to have the exam rescheduled at another time within the exam period.

Standing Deferred exams are typically offered with the next regularly scheduled final exam sitting for the course or during the next Standing Deferred exam period, whichever is sooner. Students are expected to make arrangements to attend.

If a student fails to complete deferred requirements by the deadline for completing all Standing Deferred course work, the SD will be replaced with a grade or standing that reflects requirements completed in the course.

Students unable to meet the deadline for completion of SD course work because of extenuating circumstances must contact Engineering Academic Services as soon as possible. Extensions will not be granted for deferred requirements, but alternative academic concessions may be considered if new or continuing circumstances prevent completion of the course.

~~a second time will be required to withdraw. In a failed year, students will be granted credit for all courses passed.~~

~~Students who withdraw during Term 2 of Winter Session after obtaining less than 55% on the December examinations will not be readmitted for the following Winter Session, but are eligible to apply for readmission after that year.~~

~~Progression requirements are governed by the following:~~

| | |
|-------------|--|
| First Year | 0-27 credits |
| Second Year | 28-63 credits |
| Third Year | 64-99 credits |
| - | Must have completed all courses from first |
| Fourth Year | 100+ credits |
| - | Must have completed all courses from first |
| | third year. |

~~Term essays and examination papers may be refused a passing mark if they are noticeably deficient in English.~~



Supplemental Examinations

There are no supplemental examinations for courses offered within the faculty, with the exception of final year of study. Supplemental examinations may not be offered in all courses. At the discretion of the faculty, a supplemental exam may be granted to a student for a 300-level course, provided that the course is the last remaining course required for degree completion. Supplemental examinations are available only to students who have passed their year. Students must have failed a course but received a final grade of at least 40% in order to be eligible to write a supplemental examination in that course. Supplemental examinations are only offered during the deferred/supplemental examination period.

Academic Standing

Academic Standing will be determined by the student’s Sessional Average at the end of each Winter Session (Term 1 and Term 2).

Academic Standings are listed in the table below:

| | |
|---------------------------------|---|
| <u>Sessional Average</u> | <u>Resulting Academic Standing</u> |
|---------------------------------|---|

Supplemental Examinations

There are no supplemental examinations for courses offered within the faculty, with the exception of final year of study. ~~Note:~~ supplemental examinations may not be offered in all courses. At the discretion of the faculty, a supplemental exam may be granted to a student for a 300-level course, provided that the course is the last remaining course required for degree completion. Supplemental examinations are available only to students who have passed their year. Students must have failed a course but received a final grade of at least 40% in order to be eligible to write a supplemental examination in that course. Supplemental examinations are only offered during the deferred/supplemental examination period. ~~Supplemental examinations for courses terminating in December will normally be made available to students only during the supplemental examination period in July-August.~~



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|----------------------|-------------------------------------|
| <u>60% or more</u> | <u>In Good Standing</u> |
| <u>55% - 59.9%</u> | <u>On Academic Probation</u> |
| <u>Less than 55%</u> | <u>Failed, Required to Withdraw</u> |

One of three Academic Standings is assigned as a result of a Sessional Academic Evaluation: In Good Standing; On Academic Probation; or Failed, Required to Withdraw. All students are In Good Standing when first admitted to the faculty. A student who earns a Failed, Required to Withdraw standing may appeal to the School of Engineering Academic Standing Committee by a deadline to be Failed, Permitted to Continue. Upon a successful appeal, students may be permitted to continue on a reduced credit load. In a failed year, students will be granted credit for all courses passed.

Credit Restriction

Students who earned a standing of On Academic Probation and students who are assigned Failed, Permitted to Continue may be restricted in the number of credits that they can take in the following academic year and will be required to meet with an Engineering Advisor regularly.

Students who are On Academic Probation must achieve a sessional average of 60% or greater during their next registered Winter Session in order to return to In Good Standing.

Readmission

Students who are Failed, Required to Withdraw must apply for Readmission in order to re-join the program. Readmission is not guaranteed.

Readmission decisions take into account the amount of space available, the size and strength of the applicant pool in a given year, and the



quality of the application for readmission that has been submitted. All students seeking to return after earning a Failed, Required to Withdraw standing must submit an application for readmission by the stated deadline. The earliest a student may be readmitted is one full year (12 months) following the requirement to withdraw.

Requirements for readmission will depend on individual circumstances. Additional information regarding applying for readmission can be found under [Readmission](#).

Students in year one seeking to return after earning a Failed, Required to Withdraw in the Engineering program will be considered for readmission based on a combination of:

- A letter of appeal outlining how the student has prepared to succeed in further studies at UBC; and
- Performance in transferrable credits from another recognized post-secondary institution¹.
- Reference letters pertaining to the student's academic readiness and/or work experience.

¹Students may retake first year courses outside of UBC and rejoin as a second-year student via Engineering Transfer Programs.

Students in year two or higher seeking to return after earning a Failed, Required to Withdraw in the Engineering program will be considered for readmission based on a combination of:

- A letter of appeal outlining how the student has prepared to succeed in further studies at UBC; and
- Further academics in a related field at another post-secondary institution and/or work experience related to their field of study; and
- Reference letters pertaining to the student's academic readiness and/or work experience.

Appeals

Current students may appeal year-standing decisions to the Faculty of Applied Science



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| <p><u>Students should meet with an Engineering Advisor at the School of Engineering to develop a plan for applying for readmission.</u></p> <p><u>Students who are readmitted will be required to enroll in a reduced credit load and meet with an Engineering Advisor regularly.</u></p> <p>Appeals Current students may appeal standing decisions to the <u>School of Engineering Academic Standing Committee.</u></p> <p>Field Trips Students who are required to participate in field trips will be responsible for expenses incurred during such trips.</p> | <p>Committee on Admissions, Standing, and Courses. Applications for readmission from non-current students should be directed to Enrolment Services.</p> <p>Field Trips Students who are required to participate in field trips will be responsible for expenses incurred during such trips.</p> |
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25 April 2024

To: Okanagan Senate

From: Senate Academic Policy Committee

Re: Changes to Academic Regulations for the Faculty of Creative and Critical Studies

The Academic Policy Committee has reviewed the attached proposals from the Faculty of Creative and Critical Studies for the Bachelor of Fine Arts and Bachelor of Media Studies and is pleased to recommend the following:

Motion: *That Senate approve the revisions to the academic regulations for the Faculty of Creative and Critical Studies effective for the 2025 Summer Session and thereafter, as attached.*

Respectfully submitted,

Dr Jannik Eikenaar, Chair
Senate Academic Policy Committee



Curriculum Proposal Form

New/Change to Course/Program – Okanagan campus

| | |
|--|--|
| Category: 1 | |
| Faculty/School: FCCS Dept./Unit: Faculty/School Approval Date: 2024/03/04 Effective Session: 2025S | Date: 20230901 Contact Person: Diana Carter Phone: Email: FCCScurriculum.ok@ubc.ca |
| Type of Action: Update B.F.A. Academic Regulations: Amend the minimum number of credits required for DRC registered students to qualify for the Dean’s List; add subheading: ‘Class Standing at Graduation’ and designations “with Distinction” and “with High Distinction”. | |
| Rationale: Currently, high achieving students in FCCS don’t receive the ‘with distinction’ annotation on their degree while other faculties on our campus and in Vancouver do (Science and Applied Science). Students may qualify for the Dean’s List while taking 21 credits if they are registered with the Disability Resource Centre. | |
| Proposed Academic Calendar Entry: Dean's List Students who complete 24 credits or more in a Winter Session with an overall average of 85% or higher on all credits attempted will receive the notation "Dean's List" on their permanent records for that specific Winter Session. <u>Students who are registered with the Disability Resource Center with an approved reduced course load need to complete a minimum of 21 credits to be considered for the Dean's List notation.</u> <u>Class Standing at Graduation</u> <u>The designation “with Distinction” will be notated on the degree parchment for any student who has achieved an average of at least 80% but less than 85%, calculated on all completed UBC academic courses numbered 300 or higher. The designation “with High Distinction” will be notated on the degree parchment for any student who has achieved an average of at least 85%, calculated on all attempted UBC academic courses numbered 300 or higher.</u> | Draft Academic Calendar URL: https://draft-content-okanagan-bezdfny-6hlqu3vk3sihm.ca-1.platformsh.site/faculties-schools-and-colleges/faculty-creative-and-critical-studies/bachelor-fine-arts-program/academic-regulations Present Academic Calendar Entry: Dean's List Students who complete 24 credits or more in a Winter Session with an overall average of 85% or higher on all credits attempted will receive the notation "Dean's List" on their permanent records for that specific Winter Session. |





Curriculum Proposal Form

New/Change to Course/Program – Okanagan campus

| | |
|--|--|
| Category: 1 | |
| Faculty/School: FCCS Dept./Unit: Faculty/School Approval Date: 2024/03/04 Effective Session: 2025S | Date: 20230901 Contact Person: Diana Carter Phone: Email: FCCScurriculum.ok@ubc.ca |
| Type of Action: Update B.M.S. Academic Regulations: Amend the minimum number of credits required for DRC registered students to qualify for the Dean’s List; add subheading: ‘Class Standing at Graduation’ and designations “with Distinction” and “with High Distinction”. | |
| Rationale: Currently, high achieving students in FCCS don’t receive the ‘with distinction’ annotation on their degree while other faculties on our campus and in Vancouver do (Science and Applied Science). Students may qualify for the Dean’s List while taking 21 credits if they are registered with the Disability Resource Centre. | |
| Proposed Academic Calendar Entry: Dean's List Students who complete 24 credits or more in a Winter Session with an overall average of 85% or higher on all credits attempted will receive the notation "Dean's List" on their permanent records for that specific Winter Session. <u>Students who are registered with the Disability Resource Center with an approved reduced course load need to complete a minimum of 21 credits to be considered for the Dean's List notation.</u> <u>Class Standing at Graduation</u> <u>The designation “with Distinction” will be notated on the degree parchment for any student who has achieved an average of at least 80% but less than 85%, calculated on all completed UBC academic courses numbered 300 or higher. The designation “with High Distinction” will be notated on the degree parchment for any student who has achieved an average of at least 85%, calculated on all attempted UBC academic courses numbered 300 or higher.</u> | Draft Academic Calendar URL: https://draft-content-okanagan-bezdfny-6hlqu3vk3sihm.ca-1.platformsh.site/faculties-schools-and-colleges/faculty-creative-and-critical-studies/bachelor-media-studies-program/academic-regulations Present Academic Calendar Entry: Dean's List Students who complete 24 credits or more in a Winter Session with an overall average of 85% or higher on all credits attempted will receive the notation "Dean's List" on their permanent records for that specific Winter Session. |





25 April 2024

To: Okanagan Senate

From: Senate Academic Policy Committee

Re: Changes to Academic Regulation for the Faculty of Creative and Critical Studies/Faculty of Arts and Social Sciences

The Academic Policy Committee has reviewed the attached joint proposal from the Faculty of Creative and Critical Studies/Faculty of Arts and Social Sciences for the Bachelor of Arts and is pleased to recommend the following:

Motion: *That Senate approve the revisions to the academic regulation for the Faculty of Creative and Critical Studies/Faculty of Arts and Social Sciences, effective for the 2025 Summer Session and thereafter, as attached.*

Respectfully submitted,

Dr Jannik Eikenaar, Chair
Senate Academic Policy Committee



Curriculum Proposal Form

New/Change to Course/Program – Okanagan campus

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|---|---|
| Category: 1 | |
| Faculty/School: FASS/FCCS Dept./Unit: Faculty/School Approval Date: 20240322 Effective Session: 2025S | Date: 20230901 Contact Person: Bernard Momer/Diana Carter Phone: Email: fasscurriculum.ubco@ubc.ca |
| Type of Action: Update B.A. Academic Regulations: Amend the minimum number of credits required for DRC registered students to qualify for the Dean’s List; add subheading: ‘Class Standing at Graduation’ and designations “with Distinction” and “with High Distinction”. | |
| Rationale: Currently, high achieving students in FASS and FCCS don’t receive the ‘with distinction’ annotation on their degree while other faculties on our campus and in Vancouver do (Science and Applied Science). Students may qualify for the Dean’s List while taking 21 credits if they are registered with the Disability Resource Centre. | |
| Proposed Academic Calendar Entry: Dean's List Students in any Winter Session with a sessional average of at least 85% while taking 24 or more credits will receive the notation "Dean's List" on their official transcript of academic record. <u>Students who are registered with the Disability Resource Center with an approved reduced course load need to complete a minimum of 21 credits to be considered for the Dean’s List notation.</u> <u>Class Standing at Graduation</u> <u>The designation “with Distinction” will be notated on the degree parchment for any student who has achieved an average of at least 80% but less than 85%, calculated on all completed UBC</u> | Draft Academic Calendar URL: https://draft-content-okanagan-bezdfny-6hlqu3vk3sihm.ca-1.platformsh.site/faculties-schools-and-colleges/faculty-arts-and-social-sciences/bachelor-arts-programs/academic-regulations Present Academic Calendar Entry: Dean's List Students in any Winter Session with a sessional average of at least 85% while taking 24 or more credits will receive the notation "Dean's List" on their official transcript of academic record. |



academic courses numbered 300 or higher. The designation “with High Distinction” will be notated on the degree parchment for any student who has achieved an average of at least 85%, calculated on all completed UBC academic courses numbered 300 or higher.



25 April 2024

To: Okanagan Senate

From: Senate Academic Policy Committee

Re: Changes to Academic Regulations for the Faculty of Arts and Social Sciences

The Academic Policy Committee has reviewed the attached proposals from the Faculty of Arts and Social Sciences, for the Bachelor of Nłeʔkepmx Language Fluency (B.Nłek), Bachelor of Nsyilxcn Language Fluency (BNLF) and Bachelor of St'át'imc Language Fluency (BSTAT), and is pleased to recommend the following:

Motion: *That Senate approve the revisions to the academic regulations for the Faculty of Arts and Social Sciences, effective for the 2025 Summer Session and thereafter, as attached.*

Respectfully submitted,

Dr Jannik Eikenaar, Chair
Senate Academic Policy Committee



Curriculum Proposal Form

New/Change to Course/Program – Okanagan campus

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|--|---|
| Category: 1 | |
| Faculty/School: FASS Dept./Unit: Faculty/School Approval Date: 20240322 Effective Session: 2025S | Date: 20230901 Contact Person: Bernard Momer Phone: Email: fasscurriculum.ubco@ubc.ca |
| Type of Action: Update B.Nlek Academic Regulations: Amend the minimum number of credits required for DRC registered students to qualify for the Dean's List; add subheading: 'Class Standing at Graduation' and designations "with Distinction" and "with High Distinction". | |
| Rationale: Currently, high achieving students in FASS don't receive the 'with distinction' annotation on their degree while other faculties on our campus and in Vancouver do (Science and Applied Science). Students may qualify for the Dean's List while taking 21 credits if they are registered with the Disability Resource Centre. | |
| Proposed Academic Calendar Entry: Dean's List Students in any Winter Session with a sessional average of at least 85% while taking 24 or more credits will receive the notation "Dean's List" on their official transcript of academic record. <u>Students who are registered with the Disability Resource Center with an approved reduced course load need to complete a minimum of 21 credits to be considered for the Dean's List notation.</u> <u>Class Standing at Graduation</u> <u>The designation "with Distinction" will be notated on the degree parchment for any student who has achieved an average of at least 80% but</u> | Draft Academic Calendar URL: https://draft-content-okanagan-bezdfny-6hlqu3vk3sihm.ca-1.platformsh.site/faculties-schools-and-colleges/faculty-arts-and-social-sciences/bachelor-nlekepmx-language-fluency/academic-regulations Present Academic Calendar Entry: Dean's List Students in any Winter Session with a sessional average of at least 85% while taking 24 or more credits will receive the notation "Dean's List" on their official transcript of academic record. |



less than 85%, calculated on all completed UBC academic courses numbered 300 or higher. The designation “with High Distinction” will be notated on the degree parchment for any student who has achieved an average of at least 85%, calculated on all completed UBC academic courses numbered 300 or higher.



Curriculum Proposal Form

New/Change to Course/Program – Okanagan campus

| | |
|--|---|
| Category: 1 | |
| Faculty/School: FASS Dept./Unit: Faculty/School Approval Date: 20240322 Effective Session: 2025S | Date: 20230901 Contact Person: Bernard Momer Phone: Email: fasscurriculum.ubco@ubc.ca |
| Type of Action: Update B.Stat. Academic Regulations: Amend the minimum number of credits required for DRC registered students to qualify for the Dean's List; add subheading: 'Class Standing at Graduation' and designations "with Distinction" and "with High Distinction". | |
| Rationale: Currently, high achieving students in FASS don't receive the 'with distinction' annotation on their degree while other faculties on our campus and in Vancouver do (Science and Applied Science). Students may qualify for the Dean's List while taking 21 credits if they are registered with the Disability Resource Centre. | |
| Proposed Academic Calendar Entry: Dean's List Students in any Winter Session with a sessional average of at least 85% while taking 24 or more credits will receive the notation "Dean's List" on their official transcript of academic record. <u>Students who are registered with the Disability Resource Center with an approved reduced course load need to complete a minimum of 21 credits to be considered for the Dean's List notation.</u> <u>Class Standing at Graduation</u> <u>The designation "with Distinction" will be notated on the degree parchment for any student who has achieved an average of at least 80% but</u> | Draft Academic Calendar URL: https://draft-content-okanagan-bezdfny-6hlqu3vk3sihm.ca-1.platformsh.site/faculties-schools-and-colleges/faculty-arts-and-social-sciences/bachelor-statimc-language-fluency/academic-regulations Present Academic Calendar Entry: Dean's List Students in any Winter Session with a sessional average of at least 85% while taking 24 or more credits will receive the notation "Dean's List" on their official transcript of academic record. |



less than 85%, calculated on all completed UBC academic courses numbered 300 or higher. The designation “with High Distinction” will be notated on the degree parchment for any student who has achieved an average of at least 85%, calculated on all completed UBC academic courses numbered 300 or higher.



Curriculum Proposal Form

New/Change to Course/Program – Okanagan campus

| | |
|--|---|
| Category: 1 | |
| Faculty/School: FASS Dept./Unit: Faculty/School Approval Date: 20240322 Effective Session: 2025S | Date: 20230901 Contact Person: Bernard Momer Phone: Email: fasscurriculum.ubco@ubc.ca |
| Type of Action: Update BNLF Academic Regulations: Amend the minimum number of credits required for DRC registered students to qualify for the Dean's List; add subheading: 'Class Standing at Graduation' and designations "with Distinction" and "with High Distinction". | |
| Rationale: Currently, high achieving students in FASS don't receive the 'with distinction' annotation on their degree while other faculties on our campus and in Vancouver do (Science and Applied Science). Students may qualify for the Dean's List while taking 21 credits if they are registered with the Disability Resource Centre. | |
| Proposed Academic Calendar Entry: Dean's List Students in any Winter Session with a sessional average of at least 85% while taking 24 or more credits will receive the notation "Dean's List" on their official transcript of academic record. <u>Students who are registered with the Disability Resource Center with an approved reduced course load need to complete a minimum of 21 credits to be considered for the Dean's List notation.</u> <u>Class Standing at Graduation</u> <u>The designation "with Distinction" will be notated on the degree parchment for any student who has achieved an average of at least 80% but</u> | Draft Academic Calendar URL: https://draft-content-okanagan-bezdfny-6hlqu3vk3sihm.ca-1.platformsh.site/faculties-schools-and-colleges/faculty-arts-and-social-sciences/bachelor-nsyilxcn-language-fluency/academic-regulations Present Academic Calendar Entry: Dean's List Students in any Winter Session with a sessional average of at least 85% while taking 24 or more credits will receive the notation "Dean's List" on their official transcript of academic record. |



less than 85%, calculated on all completed UBC academic courses numbered 300 or higher. The designation “with High Distinction” will be notated on the degree parchment for any student who has achieved an average of at least 85%, calculated on all completed UBC academic courses numbered 300 or higher.



25 April 2024

To: Okanagan Senate

From: Senate Academic Policy Committee

Re: Proposed Revisions to Course Standings for Workday Student Implementation

UBC's previous SIS allowed for distinct grade (both percentage and letter) and standings for each course and does not require course standings. Workday Student requires standings or grades and thus a variety of course standings that were previously used to modify grades or courses for administrative purposes will need to be restated to support functionality in Workday. The Academic Policy Committee has considered the standings proposed by the Integrated Renewal Program, as revised, and is pleased to recommend that Senate resolve as follows:

Motion: *That, effective for the 2024 Winter Session and thereafter, the following new and revised course standings are in effect:*

New Standings:

Externally Graded (EXG) is a nominal standing that is used administratively to maintain registration in a UBC program of study while the student is taking and receiving a grade for a course at another institution.

Fail (F AUD) denotes fail standing in a course that was being audited.

Failed Supplemental (F(S)) denotes a continued failure in a course despite a supplemental examination being completed (see [Supplemental Examination Policy](#)).

Grade Not Submitted (GNS) denotes a course for which the deadline for grade submission has passed and a grade was not submitted by the instructor.

Transfer Credit (TR) is a standing granted to a student that denotes credit received from a course completed and transferred from another institution.

No Grade Required (NGR) is a nominal standing applied to courses only used for administrative purposes such as managing registration or assessing fees. Courses with this



standing will not be displayed on the transcript. The standing will be automatically applied at the end of each academic period.

Withdrawal (W AUD) denotes official withdrawal from a course that was being audited (see Withdrawal)

Revised Standings:

(AUD) is a standing granted to a student who has been officially approved as having audit status. The student is expected to complete all course requirements except the final exam, and may be given Fail (F AUD) standing if their performance is not satisfactory.

Respectfully submitted,

Dr Jannik Eikenaar, Chair
Senate Academic Policy Committee



25 April 2024

To: Okanagan Senate
From: Curriculum Committee
Re: Curriculum Proposals (approval)

The Curriculum Committee has reviewed the material forwarded to it by the Faculties and encloses those proposals it deems ready for approval.

Therefore, the following is recommended to Senate:

Motion: *That Senate approve and recommend to the Board of Governors for approval the new program options, new courses, revised courses, and revised Calendar entries as brought forward by the Faculties of Applied Science, Arts and Social Sciences, Creative and Critical Studies, Education, and Science.*

- a. Faculty of Applied Science
 - i. New Course: ENGR 400
- b. Faculty of Arts and Social Sciences
 - i. New Courses: HIST 483, PSYO 402, PSYO 434, PSYO 452, PSYO 455, SOCI 495
- c. Faculty of Creative and Critical Studies
 - i. New Courses: CULT 406, DIHU 406
- d. Faculty of Education
 - i. New Courses: EDUC 502, EDUC 522, EDUC 540
 - ii. Revised Courses: EDUC 526, EDUC 529
 - iii. Revised Calendar Entries: Master of Education Program Requirements; Education Course Offerings

e. Faculty of Science

- i. Revised Course: SUST 491
- ii. New Courses: SUST 492, SUST 493, SUST 494, SUST 495, SUST 496
- iii. New Program Options: Bachelor of Sustainability Minor Programs; Bachelor of Sustainability Co-operative Education Option
- iv. Revised Calendar Entries: Bachelor of Sustainability Program Overview; Degree Requirements for students entering the program in 2020/2021 or later (Computer Science; Biology; Ecology, Evolution, and Conservation Biology; Microbiology; Zoology; Biochemistry and Molecular Biology; Chemistry; Environmental Chemistry; Earth and Environmental Sciences; Freshwater Science; Mathematics; Physics; Physics and Mathematics; Statistics; Psychology); Data Science Minor Program

For the Committee,

Dr. Yves Lucet
Chair, Curriculum Committee



Curriculum Proposal Form New Course – Okanagan campus

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| Category: 1 | |
| School of Engineering Faculty of Applied Science Faculty Approval Date: 2023.03.14 Effective Session: 2024W | SOE Curriculum Date: 2023.03.01 Contact Person: Dr. Sabine Weyand Phone: 250.807.8068 Email: Sabine.Weyand@ubc.ca |
| Type of Action: New Course | |
| <p>Rationale: Complex industrial systems and civil infrastructure require modern engineering tools to support process automation, quality control, and asset lifecycle management. This new course is added to the four programs (Civil, Mechanical, Electrical, and Manufacturing) at the School of Engineering, Faculty of Applied Science. It is also available as an elective course for the M.Eng. program. This course targets cross-disciplinary training and education on machine vision for engineers. The course will support the research needs on robotics and motion control, flexible manufacture, automation, industrial inspection, maintenance of complex industrial systems, and civil infrastructure, such as pipelines, roads, and bridges.</p> | |
| Proposed Academic Calendar Entry: <u>ENGR 400 (3) Applied Machine Vision for Engineers</u> <u>Application of machine vision across various engineering disciplines. Analysis of visual scenes, feature descriptors, colour, segmentation, shape estimation, motion, stereo, pattern classification, camera calibration, 3-D vision, software and hardware architectures.</u> <u>Prerequisite: 4th year standing in BASc program.</u> | Draft Academic Calendar URL: N/A Present Academic Calendar Entry: N/A |



Curriculum Proposal Form

New/Change to Course/Program – Okanagan campus

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|---|---|
| Category: 1 | |
| Faculty/School: Faculty of Arts and Social Sciences Dept./Unit: History Program, Department of History and Sociology Faculty/School Approval Date: 20240226 Effective Session: 2024W | Date: 2024.01.09 Contact Person: Catherine Higgs Phone: 250.807.9978 Email: catherine.higgs@ubc.ca |
| Type of Action: New Course | |
| Rationale: This is to regularize a course that was taught in 2017W2 as the topics course HIST 461B, Cities in Africa. HIST 483 (Cities in Africa since 1850) explores the lived experiences of people in African cities from the mid-nineteenth century to the present, and will consider city planning, infrastructure, public health, global connections and climate change. HIST 483 will help fill the gap in our curriculum after the departure of our urban historian. HIST 483 will further support the International Relations major, a program to which HIST contributes, and may attract students in Geography and Political Science to the study of global history. | |
| Proposed Academic Calendar Entry: <u>HIST 483 (3) Cities in Africa since 1850 History, structure, and lived experiences of people in African cities from the mid-nineteenth century to the present. African mega-cities and smaller cities will be considered. Credit will be granted for only one of HIST 483 or HIST 461B.</u> <u>Prerequisite: 6 credits of HIST; or, one of HIST 115 or HIST 145 and third-year standing.</u> | Draft Academic Calendar URL: N/A Present Academic Calendar Entry: N/A |



Curriculum Proposal Form New or Revised Course/Program

Proponents are encouraged to review the [Curriculum Submission Guidelines](#) prior to drafting their proposals. Please contact Senate & Curriculum Services at okanagan.curriculum@ubc.ca for further assistance.

| | |
|---|---|
| Category: 1 | |
| Faculty: Arts and Social Sciences Dept./Unit: Psychology Faculty Approval Date: 2024-02-26 Effective Session: 2024W | Date: 2023-12-11 Contact Person: Lauren Human Phone: 250-807-8132 Email: lauren.human@ubc.ca |
| Type of Action: New Course | |
| Rationale: <p>This proposal is based on the recent external review of the Psychology Program, which recommended that we sequence courses within an area of Psychology and an increase the number of fourth-year courses formatted as seminars.</p> <p>This new course is a 400-level course in Mental Health and Wellness course that will require at least one third-year course in the Mental Health and Wellness Psychology breadth area. The proposed course will be used to deliver material at an advanced level, building on the material covered in the more intermediate third-year courses. It will typically be taught as a seminar. Example topics include Psychopathology, Psychological Interventions, Happiness, and Stress and Coping. Students may take this course more than once as long as the courses involve different topics within the area up to a total of 6 credits.</p> <p>This course complements our new PSYO 420 (Advanced Topics in Developmental Psychology), and concurrent proposals for Advanced Topics courses in other breadth areas.</p> <p>Offerings under the course code will be approved by the Psychology department's Educational Planning Committee in consultation with the department head.</p> | |



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| <p>Proposed Academic Calendar Entry:</p> <p><u>PSYO 402 (1-6) Advanced Topics in Mental Health and Wellness</u> <u>Intensive examination of advanced topics and issues in Mental Health and Wellness. May be repeated on a different topic for a maximum of 6 credits during complete program of study. [1-6 hours/week class time]</u> <u>Prerequisite: At least 3 credits of 300-level Psychology within the Mental Health and Wellness Breadth Area.</u></p> | <p>Draft Academic Calendar URL: n/a</p> <p>Present Academic Calendar Entry: N/A</p> |
|---|---|



Curriculum Proposal Form New or Revised Course/Program

Proponents are encouraged to review the [Curriculum Submission Guidelines](#) prior to drafting their proposals. Please contact Senate & Curriculum Services at okanagan.curriculum@ubc.ca for further assistance.

| | |
|---|---|
| Category: 1 | |
| Faculty: Arts and Social Sciences Dept./Unit: Psychology Faculty Approval Date: 2024-02-26 Effective Session: 2024W | Date: 2023-12-11 Contact Person: Lauren Human Phone: 250-807-8132 Email: lauren.human@ubc.ca |
| Type of Action: New Course | |
| Rationale: <p>This proposal is based the recent external review of the Psychology Program, which recommended that we sequence courses within an area of Psychology and an increase the number of fourth-year courses formatted as seminars.</p> <p>This new course is a 400-level course in Cognitive and Behavioral Neuroscience that will require at least one third-year course in the Cognitive and Behavioral Neuroscience breadth area. The proposed course will be used to deliver material at an advanced level, building on the material covered in the more intermediate third-year courses. It will typically be taught as a seminar. Example topics include Principles of Neuroscience, Neuroplasticity, and Equity in Psychology and Neuroscience. Students may take this course more than once as long as the courses involve different topics within the area up to a total of 6 credits.</p> <p>This course complements our new PSYO 420 (Advanced Topics in Developmental Psychology), and concurrent proposals for Advanced Topics courses in other breadth areas.</p> <p>Offerings under the course code will be approved by the Psychology department head in consultation with the Curriculum and Educational Planning Committees.</p> | |



| | |
|---|--|
| <p>Proposed Academic Calendar Entry:</p> <p><u>PSYO 434 (1-6) Advanced Topics in Cognitive and Behavioral Neuroscience</u> <u>Intensive examination of advanced issues in Cognitive and Behavioral Neuroscience. May be repeated on a different topic for a maximum of 6 credits during complete program of study. [1-6 hours/week class time]</u> <u>Prerequisite: At least 3 credits of 300-level Psychology within the Cognitive and Behavioral Neuroscience Breadth Area.</u></p> | <p>Draft Academic Calendar URL: n/a</p> <p>Present Academic Calendar Entry: N/A</p> |
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Curriculum Proposal Form New or Revised Course/Program

Proponents are encouraged to review the [Curriculum Submission Guidelines](#) prior to drafting their proposals. Please contact Senate & Curriculum Services at okanagan.curriculum@ubc.ca for further assistance.

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| Category: 1 | |
| Faculty: Arts and Social Sciences Dept./Unit: Psychology Faculty Approval Date: 2024-02-26 Effective Session: 2024W | Date: 2023-12-11 Contact Person: Lauren Human Phone: 250-807-8132 Email: lauren.human@ubc.ca |
| Type of Action: New Course | |
| <p>Rationale:</p> <p>This proposal is based on the recent external review of the Psychology Program, which recommended that we sequence courses within an area of Psychology and an increase the number of fourth-year courses formatted as seminars. In addition, our internal curriculum mapping project identified a gap in upper-level courses within the Social and Personality Psychology area. This limits the options Majors and Honours students have for meeting the breadth area and upper-level course program requirements.</p> <p>This new course is a 400-level course in Social and Personality Psychology that will require at least one previous course in the Social and Personality Psychology breadth area. The proposed course will be used to deliver material at an advanced level, building on the material covered in the more intermediate second- or third-year courses. It will typically be taught as a seminar. Example topics previously taught as PSYO 380 courses that could be adapted for an advanced lecture or seminar include Self and Social Perception, Intergroup Relations, Close Relationships, and Cultural Psychology. Students may take this course more than once as long as the courses involve different topics within the area up to a total of 6 credits.</p> <p>This course complements our new PSYO 420 (Advanced Topics in Developmental Psychology), and concurrent proposals for Advanced Topics courses in other breadth areas. Our PSYO 480 courses will be reserved for courses that do not fit within a specific breadth area.</p> <p>Offerings under the course code will be approved by the Psychology department head in consultation with the Curriculum and Educational Planning Committees.</p> | |



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| <p>Proposed Academic Calendar Entry:</p> <p><u>PSYO 452 (1-6) Advanced Topics in Social and Personality Psychology</u> <u>Intensive examination of advanced issues in Social and Personality Psychology.</u> <u>May be repeated on a different topic for a maximum of 6 credits during complete program of study. [1-6 hours/week class time]</u> <u>Prerequisite: At least 3 credits of 200- or 300-level Psychology within the Social and Personality Breadth Area.</u></p> | <p>Draft Academic Calendar URL: n/a</p> <p>Present Academic Calendar Entry: N/A</p> |
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Curriculum Proposal Form New or Revised Course/Program

Proponents are encouraged to review the [Curriculum Submission Guidelines](#) prior to drafting their proposals. Please contact Senate & Curriculum Services at okanagan.curriculum@ubc.ca for further assistance.

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| Category: 1 | |
| Faculty: Arts and Social Sciences Dept./Unit: Psychology Faculty Approval Date: 2024-02-26 Effective Session: 2024W | Date: 2023-12-07 Contact Person: Michael Woodworth Phone: 250.807.8731 Email: michael.woodworth@ubc.ca |
| Type of Action: New Course | |
| <p>Rationale:</p> <p>This proposal is based the recent external review of the Psychology Program, which recommended that we sequence courses within an area of Psychology and an increase the number of fourth-year courses formatted as seminars. In addition, our internal curriculum mapping project identified a gap in upper-level courses within the Social and Personality Psychology breadth area. This limits the options Majors and Honours students have for meeting the breadth area and upper-level course program requirements.</p> <p>This new course is a 400-level course in Forensic Psychology that will fall within the Social and Personality Breadth area. This course will require at least one third-year course in the Social and Personality Psychology breadth area and recommends taking third-year courses in Forensic Psychology (PSYO 355 and 356). The proposed course will be used to deliver material at an intensive level, building on the material covered in the more intermediate third-year courses. It will typically be taught as a seminar. Example topics, previously taught as PSYO 480A (Advanced Special Topics) courses, include Deception Detection, Psychopathy, Criminal Responsibility & Crime, as well as Emerging Technology & Conceptualizations of Criminality. Students may take this course more than once as long as the courses involve different topics within the area up to a total of 6 credits.</p> <p>This course complements our new PSYO 420 (Advanced Topics in Developmental Psychology), and concurrent proposals for Advanced Topics courses in other breadth areas. Our PSYO 480 courses will be reserved for courses that do not fit within a specific breadth area.</p> <p>Offerings under the course code will be approved by the Psychology department head in consultation with the Curriculum and Educational Planning Committees.</p> | |



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| <p>Proposed Academic Calendar Entry:</p> <p><u>PSYO 455 (1-6) Advanced Topics in Forensic Psychology</u> <u>Intensive examination of selected advanced issues in Forensic Psychology. May be repeated on a different topic for a maximum of 6 credits during complete program of study.</u> <u>[1-6 hours/week class time]</u> <u>Prerequisite: At least one 300-level course within the Social and Personality Breadth Area. PSYO 355 and 356 are recommended.</u></p> | <p>Draft Academic Calendar URL: n/a</p> <p>Present Academic Calendar Entry: N/A</p> |
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Curriculum Proposal Form New or Revised Course/Program – Okanagan campus

Proponents are encouraged to review the [Curriculum Submission Guidelines](#) prior to drafting their proposals. Please contact Senate & Curriculum Services at okanagan.curriculum@ubc.ca for further assistance.

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| Category: 1 | |
| Faculty: Arts and Social Sciences Dept./Unit: HISO Faculty Approval Date: 2024-02-26 Effective Session: 2025W | Date: 2023-12-11 Contact Person: Drs Agnieszka Doll and Deana Simonetto Email: Agnieszka.doll@ubc.ca and deana.simonetto@ubc.ca |
| Type of Action: New Course and Course Revision | |
| Rationale: <ol style="list-style-type: none"> 1. Faculty in sociology propose the new course in Advanced Qualitative Social Research, offered as a special topic, for upper-level undergraduate students to share their expertise in qualitative sociological research. Examples of special topics include institutional ethnography (IE), community engaged research and research ethics. There is no course focused on advanced sociological research at FASS, with current methods and methodology courses only extending to third-year. 2. The new SOCI 495 Advanced Qualitative Social Research course would interest SOCI students in our Department interested in further social research training, and could attract students from a variety of disciplines (social sciences, education, health sciences and nursing) that make use of related qualitative research approaches and methods. 3. This course meets a need in the Sociology program for a more comprehensive selection of 400-level courses, linked to the specialized expertise of faculty hired in recent years. | |



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| <p>Proposed Academic Calendar Entry:</p> <p><u>SOCI 495 (3) Advanced Qualitative Social Research</u> <u>Qualitative research design, research practice, research ethics. Specific methodologies, methods, and topics may change each time the course is offered. Consult the department for current course topic.</u> <u>Prerequisite: SOCI 291 or ANTH 307 and third-year standing; other research methods courses may be considered on request.</u></p> | <p>Draft Academic Calendar URL: n/a</p> <p>Present Academic Calendar Entry: n/a</p> |
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Curriculum Proposal Form New/Change to Course/Program – Okanagan campus

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| Category: 1 | |
| Faculty/School: FCCS Dept./Unit: English and Cultral Studies Faculty/School Approval Date: 2024 02 05 Effective Session: 2024W | Date: 20230921 Contact Person: Dr. D. Keyes Phone: 250.807.9320 Email: Daniel.keyes@ubc.ca |
| Type of Action: Create two new cross listed courses | |
| Rationale: This courses is a valuable addition to the CULT program’s media and popular culture stream; e.g., Cultural Studies students planning careers as activists, historians or archivist will benefit greatly from the theoretical and practical skills offered in this course with a focus on the digital This course provides in depth exploration into archival theories and practices using an interdisciplinary framework that makes it a snug fit with the course codes for digital humanities (DIHU). Student will learn various hands on skills relating to digital archiving, analogue to digital migration, web scrapping, etc. This course is proposed as 3-9 since it is likely that different versions of this course are offered. | |
| Proposed Academic Calendar Entry: <u>CULT 406 (3-9) Digital Afterlives</u> <u>Using archival theories and practices to explore analogue and digital audiovisual media ephemerality. [3-0-0] Credit will be granted for only one of CULT 406 or DIHU 406. Prerequisite: Third-year standing. Equivalency: DIHU 406.</u> <u>DIHU 406 (3-9) Digital Afterlives</u> <u>Using archival theories and practices to explore analogue and digital audiovisual media ephemerality. [3-0-0] Credit will be granted for only one of CULT 406 or DIHU 406. Prerequisite: Third-year standing. Equivalency: CULT 406.</u> | Draft Academic Calendar URL: N/A Present Academic Calendar Entry: n/a |



Curriculum Proposal Form New Course

Proponents are encouraged to review the [Curriculum Submission Guidelines](#) prior to drafting their proposals. Please contact Senate & Curriculum Services at okanagan.curriculum@ubc.ca for further assistance.

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| Category: 1 | |
| Faculty: Education Dept./Unit: Okanagan School of Education Faculty Approval Date: 2024-02-29 Effective Session: 2024W | Date: 2023-11-29 Contact Person: John-Tyler Binfet Phone: 250.807.8420 Email: johntyler.binfet@ubc.ca |
| Type of Action: New Course | |
| Rationale: Required course to equip MEd with coursework only students with information literacy skills to critically read and discuss peer-reviewed research. | |
| Proposed Academic Calendar Entry: <u>EDUC 502 (3) Teacher as Researcher</u> <u>Aims to broaden and enhance educators' research literacy skills and ability to read a range of empirical peer-reviewed findings that hold potential to shape their engagement in their coursework and their applied practice</u> | Draft Academic Calendar URL: https://okanagan.calendar.ubc.ca/course-descriptions/subject/educ Present Academic Calendar Entry: |



Curriculum Proposal Form New or Revised Course/Program

Proponents are encouraged to review the [Curriculum Submission Guidelines](#) prior to drafting their proposals. Please contact Senate & Curriculum Services at okanagan.curriculum@ubc.ca for further assistance.

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| Category: 1 | |
| Faculty: Education Dept./Unit: Okanagan School of Education Faculty Approval Date: 2024-02-29 Effective Session: 2024W | Date: 2023-11-28 Contact Person: John-Tyler Binfet Phone: 250.807.8420 Email: johntyler.binfet@ubc.ca |
| Type of Action: New Course | |
| Rationale: <i>Foundations of Language and Literacy Development</i> has been offered consistently over the last few years. We would like to make it its own course (EDUC 522) given the frequency of its offering. | |
| Proposed Academic Calendar Entry: <u>EDUC 522 (3) Foundations of Language and Literacy Development: Research to Practice</u> <u>Inquiry-based course critically examining the role of literacy in learning and cognition across educational contexts. Theories of reading development and the science of reading will inform framework for applying research to practice.</u> | Draft Academic Calendar URL: N/A Present Academic Calendar Entry: |



Curriculum Proposal Form

New/Change to Course/Program – Okanagan campus

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| Category: 1 | |
| Faculty/School: Faculty of Education Dept./Unit: Okanagan School of Education Faculty/School Approval Date: 2024-02-29 Effective Session: 2024W | Date: 2022/12/14 Contact Person: Dr. John-Tyler Binfet Phone: 250.807.8420 Email: johntyler.binfet@ubc.ca |
| Type of Action: New course | |
| Rationale: <i>Navigating Educational Controversy: Values, Policy, and Ethics</i> (currently offered as EDUC 517- Contemporary Issues in Education) has been offered consistently over the last several years. We would like to make it its own course (EDUC 540) given the frequency of its offering. | |
| Proposed Academic Calendar Entry: <u>EDUC 540 (3) Navigating Educational Controversy: Values, Policy, and Ethics.</u> <u>Examination of fundamental educational questions and their bearing on contemporary debates over the nature, scope, policy and practice of teaching and learning.</u> | Draft Academic Calendar URL: N/A Present Academic Calendar Entry: None |



Curriculum Proposal Form New or Revised Course/Program

Proponents are encouraged to review the [Curriculum Submission Guidelines](#) prior to drafting their proposals. Please contact Senate & Curriculum Services at okanagan.curriculum@ubc.ca for further assistance.

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| Category: 1 | |
| Faculty: Education Dept./Unit: Okanagan School of Education Faculty Approval Date: 2024-02-29 Effective Session: 2024W | Date: 2023-11-28 Contact Person: John-Tyler Binfet Phone: 250.807.8420 Email: johntyler.binfet@ubc.ca |
| Type of Action: Revision to Calendar Description | |
| Rationale: Retitle EDUC 526 and EDUC 529 to better reflect course content. | |
| Proposed Academic Calendar Entry: EDUC 526 (3) <u>Teaching and Learning through an EDI Lens</u> Overview of current diversity theory and practice. Focuses on the social construction of differences, the theoretical underpinnings of diversity, and oppression theory/practice in a Canadian and global educational context with an emphasis on language, culture, and society. EDUC 529 (3) <u>Community-Engaged Research</u> The intent of this course is to explore the systemic factors of education in conjunction with its communities and other organizations so that students will | Draft Academic Calendar URL: N/A Present Academic Calendar Entry: EDUC 526 (3) Education and Diversity Overview of current diversity theory and practice. Focuses on the social construction of differences, the theoretical underpinnings of diversity, and oppression theory/practice in a Canadian and world educational context with an emphasis on language, culture, and society. EDUC 529 (3) Building Communities: Education Beyond the Classroom The intent of this course is to explore the systemic factors of education in conjunction with its communities and other organizations so that the student |



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| <p>be well versed, practically and theoretically, to flexibly engage varied stakeholders in education.</p> | <p>will be well versed, practically and theoretically, to engage in education as a "whole."</p> |
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Curriculum Proposal Form Revised Program

Proponents are encouraged to review the [Curriculum Submission Guidelines](#) prior to drafting their proposals. Please contact Senate & Curriculum Services at okanagan.curriculum@ubc.ca for further assistance.

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| Category: 1 | |
| Faculty: Education Dept./Unit: Okanagan School of Education Faculty Approval Date: 2024-02-29 Effective Session: 2024W | Date: 2023-10-03 Contact Person: John-Tyler Binfet Phone: 250.807.8420 Email: johntyler.binfet@ubc.ca |
| Type of Action: Other/Multiple (Please Specify) | |
| Rationale: Remove required courses (CUST 562 and EDUC 521) from the MEd with Coursework Only option to allow students greater course flexibility, especially as we are seeing increased demand from students to access coursework remotely. | |
| Proposed Academic Calendar Entry: Program Requirements [...] | Academic Calendar URL: https://okanagan.calendar.ubc.ca/faculties-schools-and-colleges/college-graduate-studies/education/program-requirements Present Academic Calendar Entry: Program Requirements [...] |
| <i>M.Ed. Degree with Coursework Only</i> M.Ed. degree with coursework only offers students rich opportunities for learning and professional development through the variety of course offerings gaining broad | <i>M.Ed. Degree with Coursework Only</i> M.Ed. degree with coursework only offers students rich opportunities for learning and professional development through the variety of course offerings gaining broad |



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| <p>knowledge at an advanced level to inform their professional and/or applied practice.</p> <p>To be recommended for the M.Ed. degree with coursework only, students must complete the following:</p> <ul style="list-style-type: none"> • <u>EDUC 502 (3 credits)</u> • <u>27</u> credits from the Okanagan School of Education's course offerings (3 credits can be taken from a Faculty/Department other than the Okanagan School of Education with approval from the Director of Graduate Programs. See Course Offerings) <p>Note: A maximum of 6 credits can be taken at the 400-level with approval from the Director of Graduate Programs in Education.</p> <p>Proposed Academic Calendar Entry: CORE COURSES</p> <p>Core courses required for M.Ed. <u>with capstone</u> and M.A. students:</p> <p>CUST 562 Curriculum Issues and Theories EDUC 500 Research Methodology in Education EDUC 521 Readings and Discourse in Education</p> | <p>knowledge at an advanced level to inform their professional and/or applied practice.</p> <p>To be recommended for the M.Ed. degree with coursework only, students must complete the following:</p> <ul style="list-style-type: none"> • 6 credits of core courses: CUST 562 and EDUC 521 • 24 credits from the Okanagan School of Education's course offerings (3 credits can be taken from a Faculty/Department other than the Okanagan School of Education with approval from the Director of Graduate Programs. See Course Offerings) <p>Note: A maximum of 6 credits can be taken at the 400-level with approval from the Director of Graduate Programs in Education.</p> <p>Academic Calendar URL:</p> <p>https://okanagan.calendar.ubc.ca/faculties-schools-and-colleges/college-graduate-studies/education/course-offerings</p> <p>Present Academic Calendar Entry: CORE COURSES</p> <p>Core courses are required for all M.Ed. and M.A. students.[†]</p> <p>CUST 562 Curriculum Issues and Theories EDUC 500 Research Methodology in Education EDUC 521 Readings and Discourse in Education</p> <p>[†]EDUC 500 not required for M.Ed. with coursework only.</p> |
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Core course required for M.Ed. with coursework only students:

EDUC 502 Teacher as Researcher

To be recommended for the M.Ed./M.A. degrees, students must complete 15 credits (M.A.), 18 credits (M.Ed. with capstone), or **27** credits (M.Ed. coursework only) from the Okanagan School of Education's course offerings (3 credits can be taken from a Faculty/Department other than the Okanagan School of Education with approval from the Director of Graduate Programs (see below). Course selection is done in consultation with a student's supervisor.

To be recommended for the M.Ed./M.A. degrees, students must complete 15 credits (M.A.), 18 credits (M.Ed. with capstone), or **24** credits (M.Ed. coursework only) from the Okanagan School of Education's course offerings (3 credits can be taken from a Faculty/Department other than the Okanagan School of Education with approval from the Director of Graduate Programs (see below). Course selection is done in consultation with a student's supervisor.



Curriculum Proposal Form New or Revised Course/Program – Okanagan campus

Proponents are encouraged to review the [Curriculum Submission Guidelines](#) prior to drafting their proposals. Please contact Senate & Curriculum Services at okanagan.curriculum@ubc.ca for further assistance.

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| Category: 1 | |
| Faculty: Science Dept./Unit: BSUST Faculty Approval Date: 2024-03-11 Effective Session: 2024W | Date: 2023-12-05 Contact Person: Trudy Kavanagh Phone: 250.807.XXXX Email: trudy.kavanagh@ubc.ca |
| Type of Action: Other/Multiple (Please Specify) | |
| Rationale: This proposal articulates the instructional formats for SUST 491, a special topics course in the Bachelor of Sustainability, to ensure compatibility with Workday. | |
| Proposed Academic Calendar Entry: SUST 491 (3-9) Special Topics in Sustainability, Lecture and Laboratory Format Intensive examination of selected topics in sustainability. May include field project or travel. Consult department for this year's offerings. Credit will be granted for only one of SUST 491, 492, 493, 494, 495, 496, when the subject matter is of the same nature. Prerequisite: SUST 100 and third-year standing. | Draft Academic Calendar URL: https://draft-content-okanagan-bezdfny-6hlqu3vk3sihm.ca-1.platformsh.site/course-descriptions/subject/sust Present Academic Calendar Entry: SUST 491 (3) Special Topics in Sustainability Intensive examination of selected topics in sustainability. May include field project or travel. Consult department for this year's offerings. [3-0-0] Prerequisite: SUST 100 and third-year standing. |



SUST 492 (3-9) Special Topics in Sustainability, Lecture Format

Intensive examination of selected topics in sustainability. May include field project or travel. Consult department for this year's offerings. Credit will be granted for only one of SUST 491, 492, 493, 494, 495, 496 when the subject matter is of the same nature.

Prerequisite: SUST 100 and third-year standing.

SUST 493 (3-9) Special Topics in Sustainability, Laboratory Format

Intensive examination of selected topics in sustainability. May include field project or travel. Consult department for this year's offerings. Credit will be granted for only one of SUST 491, 492, 493, 494, 495, 496 when the subject matter is of the same nature.

Prerequisite: SUST 100 and third-year standing.

SUST 494 (3-9) Special Topics in Sustainability, Discussion Format

Intensive examination of selected topics in sustainability. May include field project or travel. Consult department for this year's offerings. Credit will be granted for only one of SUST 491, 492, 493, 494, 495, 496 when the subject matter is of the same nature.

Prerequisite: SUST 100 and third-year standing.

SUST 495 (3-9) Special Topics in Sustainability, Independent Study Format



Intensive examination of selected topics in sustainability. May include field project or travel. Consult department for this year's offerings. Credit will be granted for only one of SUST 491, 492, 493, 494, 495, 496 when the subject matter is of the same nature.

Prerequisite: SUST 100 and third-year standing.

SUST 496 (3-9) Special Topics in Sustainability, Experiential Learning Format

Intensive examination of selected topics in sustainability. May include field project or travel. Consult department for this year's offerings. Credit will be granted for only one of SUST 491, 492, 493, 494, 495, 496 when the subject matter is of the same nature.

Prerequisite: SUST 100 and third-year standing.



Curriculum Proposal Form

New or Revised Course/Program – Okanagan campus

Proponents are encouraged to review the [Curriculum Submission Guidelines](#) prior to drafting their proposals. Please contact Senate & Curriculum Services at okanagan.curriculum@ubc.ca for further assistance.

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| Category: 1 | |
| Faculty: Science Dept./Unit: BSUST Faculty Approval Date: 2024-02-16 Effective Session: 2024W | Date: 2023-09-19 Contact Person: Nathan Pelletier Phone: 250-807-8245 Email: Nathan.pelletier@ubc.ca |
| Type of Action: Other/Multiple (Please Specify) | |
| Rationale: Adding the option of minors and co-op to the Bachelor of Sustainability degree. | |
| Proposed Academic Calendar Entry: Contents Program Overview Admission Requirements Academic Regulations Degree Requirements Environmental Analytics Concentration Environmental Conservation & Management Concentration Environmental Humanities Concentration Green Chemistry Concentration <u>Minor Programs</u> <u>Co-operative Education Program</u> | Draft Academic Calendar URL: https://okanagan.calendar.ubc.ca/faculties-schools-and-colleges/faculty-science/bachelor-sustainability-bsust Present Academic Calendar Entry: Contents Program Overview Admission Requirements Academic Regulations Degree Requirements Environmental Analytics Concentration Environmental Conservation & Management Concentration Environmental Humanities Concentration Green Chemistry Concentration <hr/> <hr/> |



Proposed Academic Calendar Entry:

BSUST Minor Programs

Unless otherwise specified, Bachelor of Sustainability students may pursue any of the minors listed below, taking into account minor-specific requirements and the general requirement that no more than six upper-level credits from the students' concentration may be counted toward fulfilling the requirements of a given minor. Students wishing to pursue a minor should ensure that there are sufficient courses available outside of their concentration, as well as consider the potential impact on degree completion timelines. Students may consult with their Concentration Lead if further guidance is required.

Faculty of Science

Biology

A Minor in Biology requires 30 credits of Biology coursework of which at least 18 credits must be 300- or 400-level.

Chemistry

A student must successfully complete the core second-year Chemistry courses: CHEM 201 or 210 and all of CHEM 203, 204, 211, 220. The student must also complete at least 18 credits in 300- or 400-level Chemistry courses.

This option is not available for Green Chemistry concentration students.

Computer Science

A Minor in Computer Science requires 30 credits of Computer Science coursework of which at least 18 credits must be 300- or 400-level.

Data Science

Present Academic Calendar Entry:

N/A – new page



Students may earn a Minor in Data Science by completing 30 credits^{1,2} as follows:

3 credits of DATA 101

3 credits of STAT 230

Up to 6 credits from: MATH 100, 101, 200, 221; COSC 111, 121, 221, 222; ECON 102; APSC 177; BIOL 202; PSYO 373; APSC 254

3 credits of DATA 301

3 credits of DATA 311

12 300- or 400-level credits from the following¹:

upper-level DATA courses;

a maximum of 3 credits from²: COSC 304, 322, 329, 344, 421;

a maximum of 6 credits from: STAT 303, 401.

This option is not available for students in the Environmental Analytics concentration.

Any query related to the data science minor should be addressed to the data science minor program coordinator at datascience.advisor@ubc.ca

¹ Students are permitted to double count a limited number of credits between the two fields of study (see Double Counting of Credits in Honours, Majors, and Minors).

² The 18 upper-level credits must be outside of those required by the student's concentration.

Any query related to the data science minor should be addressed to the data science minor program coordinator at datascience.advisor@ubc.ca

Earth and Environmental Sciences

A Minor in Earth and Environmental Sciences requires 30 credits of Earth and Environmental Sciences coursework of which at least 18 credits must be 300- or 400-level.

All 300- or 400-level Earth and Environmental Sciences courses are acceptable, with the exception of EESC 449.



Up to 6 credits of GISC courses may be substituted.

Geospatial Information Science

A Minor in Geospatial Information Science requires 30 credits of coursework of which at least 18 credits must be 300- or 400-level, as follows:

9 credits of core courses: GISC 380, GISC 381, and GISC 480;

21 credits of elective courses, with no more than 6 credits at the 100-level from the following list:

COSC 101, 111, 121, 222, 304, 341, 360, 404, 448¹;

DATA 101, 301;

EESC 111, 413, 448¹;

ENGR 3323;

GEOG 109, 129, 271², 272, 427, 498¹

Queries related to the GIS Minor should be addressed to the program coordinator.

¹Directed studies courses (3 credits only) can be counted toward the GIS Minor only if pre-approved by the program coordinator based on sufficient GIS content and learning potential.

²Any equivalent course dealing with introductory statistical methods can be substituted (e.g. APSC 254, BIOL 202, PSYO 270, STAT 230).

Mathematics

A Minor in Mathematics requires 30 credits of Mathematics coursework including MATH 220 and 18 credits of MATH courses numbered 300 or above (excluding MATH 448).

Mathematics and Statistics

A Minor in Mathematics and Statistics requires 30 credits of Mathematics and Statistics coursework including MATH 220 and 18 credits of MATH and STAT courses numbered 300 or above (excluding MATH 448 and STAT 448). At least 6 credits must



be MATH courses and at least 6 credits must be STAT courses.

Physics

A Minor in Physics requires 30 credits of Physics coursework including at least 18 credits selected from PHYS 301, 304, 305, 310, 314, 320, 321, 324, 328, 331, 360, 400, 401, 402, 403, 407, 408, 418, 420, 425, 431, 441, 474.

Statistics

A Minor in Statistics requires 30 credits of Statistics and Data courses including STAT 203, 205, and at least 18 credits of courses selected from STAT or DATA courses numbered 300 or above. At least 9 credits must be from STAT courses.

This option is not available for Environmental Analytics concentration students.

Faculty of Arts

Minor in Arts

B.Sust. students may earn a minor in the following Arts disciplines: Anthropology, Art History and Visual Culture, Creative Writing, Cultural Studies, Economics, English, French, Gender, Women and Sexuality Studies, Geography, History, Indigenous Studies, Philosophy, Political Science, Psychology, Spanish, Sociology, and Theatre. To complete an Arts minor, students must complete at least 30 credits in an Arts discipline. At least 12 of these 30 credits must be in courses numbered 300 or above.

Faculty of Creative and Critical Studies

Minor in Fine Arts

A Minor in Fine Arts requires 30 credits of coursework of which at least 12 credits must be 300 or 400 level. Details and options can be found on the [Minor in Visual Arts page](#).



Note: due to the number of credits required, adding this program may extend the degree program beyond four years.

Faculty of Management

Minor in Management

Students may earn a Minor in Management by completing 30 credits as follows:

6 credits of core courses: MGMT 100, MGMT 110

6 credits from: MGMT 201, MGMT 202, MGMT 220, MGMT 230, MGMT 250, MGMT 290

18 credits of MGMT courses at the 300- and 400-level¹

Students may encounter difficulty fitting the courses for the Minor into their timetable; careful planning is essential, and completion of the Minor program may necessitate an additional term beyond that required to complete the B.Sust. degree alone.

¹Some upper-level MGMT courses may have prerequisites beyond the required lower-level courses for the minor. Non-MGMT prerequisite courses do not count towards the required upper-level credits.

Proposed Academic Calendar Entry:

The curriculum consists of 39 credits from core integrative courses, along with a minimum of 42 credits from concentration courses. Remaining credits will be chosen from relevant elective courses in consultation with a program advisor to enable students to achieve the necessary

Draft Academic Calendar URL:

<https://okanagan.calendar.ubc.ca/faculties-schools-and-colleges/faculty-science/bachelor-sustainability-bsust/program-overview>

Present Academic Calendar Entry:

The curriculum consists of 39 credits from core integrative courses, along with a minimum of 42 credits from concentration courses. Remaining credits will be chosen from relevant elective courses in consultation with a program advisor to enable students to achieve the necessary



breadth to become well-versed in sustainability matters on a local-to-global scale.

Bachelor of Sustainability with a Science Minor

B.Sust. students may earn a minor in a Science discipline or in an interdisciplinary Science area (such as the Data Science Minor or the GIS Minor) by earning at least 30 credits, of which at least 18 credits must be at the 300 or 400 level. Please refer to the Minor Programs page for the discipline-specific requirements for each minor. The student must also complete all requirements for the B.Sust degree.

Proposed Academic Calendar Entry:
Co-operative Education Option

The Co-operative Education (Co-op) program provides interested and qualified students in the B.Sust. program with paid employment experience relevant to their future careers. The Co-operative Education program is an optional, year-round program, supplementary to academic programs in the Faculty. For general program information, see Cooperative Education.

breadth to become well-versed in sustainability matters on a local-to-global scale.

Present Academic Calendar Entry:
N/A –new page



Curriculum Proposal Form New or Revised Course/Program – Okanagan campus

Proponents are encouraged to review the [Curriculum Submission Guidelines](#) prior to drafting their proposals. Please contact Senate & Curriculum Services at okanagan.curriculum@ubc.ca for further assistance.

| | |
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| Category: 1 | |
| Faculty: Science Dept./Unit: All Faculty Approval Date: 2024-02-16 Effective Session: 2024W | Date: 2023-08-25 Contact Person: Megan Lochhead Phone: 250.807.XXXX Email: megan.lochhead@ubc.ca |
| Type of Action: Other/Multiple (Please Specify) | |
| <p>Rationale: In 2019, the Bachelor of Science was redesigned and included the recommendation of three credits of Indigenous content. It was initially a recommendation and not a requirement because the BSc Redesign Committee wanted to allow time to develop additional Indigenous content courses. The Committee proposed that the recommendation become a requirement in 2022. The effort to create additional courses was derailed by the Barber School split into the Faculty of Science and the Faculty of Arts & Social Sciences in 2020 and the COVID pandemic from 2020 to 2022. In 2021, the Faculty of Science proposed to postpone the implementation of the Indigenous content requirement to 2024. Conversations with campus partners, including colleagues in Indigenous Studies and Indigenous Programs and Services, have refined the BSc Indigenous Content Requirement goal: to increase BSc Students' understanding of colonization, particularly Canada's history and contemporary relationships with Indigenous peoples.</p> <p>We are now proposing to make the Indigenous content requirement for the BSc explicit. Students entering the BSc in 2024W and later will be required to take three credits of Indigenous content. This requirement is a step towards the Faculty's commitment to the UBC Indigenous Strategic Plan and the campus' Truth and Reconciliation Commitments.</p> <p>With this in mind, INDG 100 and ENGL 114 are the best courses to meet the degree requirement: INDG 100 focuses on the history of colonization; ENGL 114 provides an alternate pathway for Indigenous students who may already be familiar with the concepts covered in INDG 100. ENGL 114 is restricted to students in Aboriginal Access Studies and Language Fluency degrees, but any additional seats will be available (for Indigenous students only) by request through Indigenous Programs and Services.</p> <p>In addition to INDG 100, we recommend that BSc students take INDG 102, which introduces them to Indigenous ways of knowing and offers alternate perspectives through which they can engage with their studies.</p> | |



This list of Indigenous course options could expand as new faculty join and new courses are created. It will be updated with the guidance of Indigenous Studies faculty and other campus partners.

Proposed Academic Calendar Entry:

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Electives¹

Students must complete:

- At least **9¹** credits of non-science designated courses.
- **3 credits of Indigenous content from:**
 - **INDG 100**
 - **ENGL 114²**

See individual major program details or General Science degree program requirements.

Students are encouraged to take INDG 102 in addition to the 3 required credits of Indigenous content.

¹Students who entered the B.Sc. prior to 2024 are required to complete 12 credits of non-science designated courses. These students are strongly encouraged to take INDG 100.

²This course can only be used to satisfy one requirement, either the requirement for Indigenous content or English/Communications.

Draft Academic Calendar URL:

<https://okanagan.calendar.ubc.ca/faculties-schools-and-colleges/faculty-science/bachelor-science-programs/degree-requirements-students-entering-program-20202021-or-later>

Present Academic Calendar Entry:

...

Electives¹

Students must complete:

- At least ~~12~~ credits of non-science designated courses.

See individual major program details or General Science degree program requirements.

~~¹Students are strongly encouraged to take 3 credits of an Indigenous content course to partially fulfill this requirement. Students entering the B.Sc. in 2024 and later will have to successfully complete an Indigenous content course.~~



Curriculum Proposal Form New or Revised Course/Program

Proponents are encouraged to review the [Curriculum Submission Guidelines](#) prior to drafting their proposals. Please contact Senate & Curriculum Services at okanagan.curriculum@ubc.ca for further assistance.

| Category: 1 | | | | | | | | | | | | | | | | | | | | | |
|--|--|---------|-----------------|---|----------|---|---|---|----------|---|---|------------|---------|-----------------|---|----------|---|---|---|----------|---|
| Faculty: Science Dept./Unit: All Faculty Approval Date: 03/11/2024 Effective Session: 2024W | Date: 2024-02-07 Contact Person: Megan Lochhead Phone: Email: megan.lochhead@ubc.ca | | | | | | | | | | | | | | | | | | | | |
| Type of Action: Revision to Calendar Description | | | | | | | | | | | | | | | | | | | | | |
| Rationale: Faculty of Science program pages require edits to reflect the 3 credits of required INDG content that will be introduced to the BSc in 2024W. While making this change, we are also cleaning up calendar language for clarity and consistency. | | | | | | | | | | | | | | | | | | | | | |
| Proposed Academic Calendar Entry: B.Sc. Major in Computer Science <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; width: 70%;">First Year</th> <th style="text-align: left;">Credits</th> </tr> </thead> <tbody> <tr> <td>COSC 111 or 123</td> <td>3</td> </tr> <tr> <td>COSC 121</td> <td>3</td> </tr> <tr> <td>ENGL 109, or two of 112¹, 113, 114¹, 150, 151, 153, 154, 155, 156, 203, CORH 203, CORH 205, APSC 176, APSC 201</td> <td>6</td> </tr> <tr> <td>MATH 100</td> <td>3</td> </tr> </tbody> </table> | First Year | Credits | COSC 111 or 123 | 3 | COSC 121 | 3 | ENGL 109, or two of 112 ¹ , 113, 114 ¹ , 150, 151, 153, 154, 155, 156, 203, CORH 203, CORH 205, APSC 176, APSC 201 | 6 | MATH 100 | 3 | Draft Academic Calendar URL: https://draft-content-okanagan-bezdfny-6hlqu3vk3sihm.ca-1.platformsh.site/faculties-schools-and-colleges/faculty-science/bachelor-science-programs/major-programs/computer-science-bsc Present Academic Calendar Entry: B.Sc. Major in Computer Science <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; width: 70%;">First Year</th> <th style="text-align: left;">Credits</th> </tr> </thead> <tbody> <tr> <td>COSC 111 or 123</td> <td>3</td> </tr> <tr> <td>COSC 121</td> <td>3</td> </tr> <tr> <td>ENGL 109, or two of 112¹, 113, 114¹, 150, 151, 153, 154, 155, 156, 203, CORH 203, CORH 205, APSC 176, APSC 201</td> <td>6</td> </tr> <tr> <td>MATH 100</td> <td>3</td> </tr> </tbody> </table> | First Year | Credits | COSC 111 or 123 | 3 | COSC 121 | 3 | ENGL 109, or two of 112 ¹ , 113, 114 ¹ , 150, 151, 153, 154, 155, 156, 203, CORH 203, CORH 205, APSC 176, APSC 201 | 6 | MATH 100 | 3 |
| First Year | Credits | | | | | | | | | | | | | | | | | | | | |
| COSC 111 or 123 | 3 | | | | | | | | | | | | | | | | | | | | |
| COSC 121 | 3 | | | | | | | | | | | | | | | | | | | | |
| ENGL 109, or two of 112 ¹ , 113, 114 ¹ , 150, 151, 153, 154, 155, 156, 203, CORH 203, CORH 205, APSC 176, APSC 201 | 6 | | | | | | | | | | | | | | | | | | | | |
| MATH 100 | 3 | | | | | | | | | | | | | | | | | | | | |
| First Year | Credits | | | | | | | | | | | | | | | | | | | | |
| COSC 111 or 123 | 3 | | | | | | | | | | | | | | | | | | | | |
| COSC 121 | 3 | | | | | | | | | | | | | | | | | | | | |
| ENGL 109, or two of 112 ¹ , 113, 114 ¹ , 150, 151, 153, 154, 155, 156, 203, CORH 203, CORH 205, APSC 176, APSC 201 | 6 | | | | | | | | | | | | | | | | | | | | |
| MATH 100 | 3 | | | | | | | | | | | | | | | | | | | | |



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|--|-----|--|-----|
| MATH 101 or 103 | 3 | MATH 101 or 103 | 3 |
| PHYS 111 or 112 | 3 | PHYS 111 or 112 | 3 |
| Electives ^{2,5,6} | 9 | Electives ^{2,5} | 9 |
| Total Credits | 30 | Total Credits | 30 |
| Second Year | | Second Year | |
| COSC 211, 221, 222 | 9 | COSC 211, 221, 222 | 9 |
| MATH 221 | 3 | MATH 221 | 3 |
| STAT 230 | 3 | STAT 230 | 3 |
| Electives ^{3,5,6} | 15 | Electives ^{3,5} | 15 |
| Total Credits | 30 | Total Credits | 30 |
| Third and Fourth Years | | Third and Fourth Years | |
| COSC 320 | 3 | COSC 320 | 3 |
| COSC 304, 310, 341 ⁴ | 9 | COSC 304, 310, 341 ⁴ | 9 |
| COSC 499 ⁴ | 6 | COSC 499 ⁴ | 6 |
| PHIL 331 | 3 | PHIL 331 | 3 |
| Upper-level Computer Science electives | 18 | Upper-level Computer Science electives | 18 |
| Upper-level electives ^{5,6} | 3 | Upper-level electives ⁵ | 3 |
| Electives ^{5,6} | 18 | Electives ⁵ | 18 |
| Total Credits | 60 | Total Credits | 60 |
| Minimum credits for degree ⁵ | 120 | Minimum credits for degree ⁵ | 120 |
| <p>¹Credit will only be granted for one of ENGL 112 OR 114.</p> <p>²COSC 101, 122, 123, 150 are recommended.</p> <p>³COSC and DATA courses are recommended. MATH 200 is recommended as several upper-level COSC courses require it as a prerequisite.</p> <p>⁴COSC 304, 310, 341 must be taken in 3rd-year because they are all prerequisites to</p> | | <p>¹Credit will only be granted for one of ENGL 112 OR 114.</p> <p>²COSC 101, 122, 123, 150 are recommended.</p> <p>³COSC and DATA courses are recommended. MATH 200 is recommended as several upper-level COSC courses require it as a prerequisite.</p> <p>⁴COSC 304, 310, 341 must be taken in 3rd-year because they are all prerequisites to</p> | |



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| <p>COSC 499. COSC 499 must be taken in 4th-year.</p> <p>⁵At least 12 of the 45 Elective credits must be Science courses.</p> <p>⁶ Students entering the B.Sc. in 2024 or later must complete at least 9 credits of non-science designated courses and 3 credits from INDG 100 or ENGL 114. Students who entered the B.Sc. prior to 2024 are required to complete 12 credits of non-science designated courses. These students are strongly encouraged to take INDG 100 or ENGL 114.</p> <p>Proposed Academic Calendar Entry:</p> <p>Major in Biology Note: The UBC Okanagan campus also offers Majors in Ecology, Evolution, and Conservation Biology, Microbiology, and Zoology.</p> <p>The Biology Major is designed to provide students with an excellent grounding in all fields of biology and the basic practical skills of the working biologist. This program prepares students for graduate school and professional programs. Students graduating from the UBC Okanagan campus with a B.Sc. in Biology will have a wide variety of practical experience and skills in laboratory, fieldwork, and communications (both oral and written).</p> | <p>COSC 499. COSC 499 must be taken in 4th-year.</p> <p>⁵At least 12 of the 45 Elective credits must be Science courses.</p> <p>Draft Academic Calendar URL: https://draft-content-okanagan-bezdfny-6hlqu3vk3sihm.ca-1.platformsh.site/faculties-schools-and-colleges/faculty-science/bachelor-science-programs/major-programs/biology</p> <p>Present Academic Calendar Entry:</p> <p>Major in Biology Note: The UBC Okanagan campus also offers Majors in Ecology, Evolution, and Conservation Biology, Microbiology, and Zoology.</p> <p>The Biology Major is designed to provide students with an excellent grounding in all fields of biology and the basic practical skills of the working biologist. This program prepares students for graduate school and professional programs. Students graduating from the UBC Okanagan campus with a B.Sc. in Biology will have a wide variety of practical experience and skills in laboratory, fieldwork, and communications (both oral and written).</p> |
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| | | <p>Electives to satisfy B.Sc. Degree Requirements should include a minimum of 12 credits of Arts electives (in addition to 6 credits in English) and 12 credits of other courses (chosen, if needed, to ensure prerequisites are met for third and fourth-year elective courses).</p> <p>A minimum of 42 upper-level credits are required, which include at least 36 credits of Science courses (including at least 30 credits of Biology courses).</p> | |
| First Year | | First Year | |
| | Credits | | Credits |
| BIOL 116, 125 ¹ | 6 | BIOL 116, 125 ¹ | 6 |
| CHEM 111 or CHEM 121 | 3 | CHEM 111 or CHEM 121 | 3 |
| CHEM 113 or CHEM 123 | 3 | CHEM 113 or CHEM 123 | 3 |
| ENGL 109, or two of ENGL 112 ² , 113, 114 ² , 150, 151, 153, 154, 155, or 156 | 6 | ENGL 109, or two of ENGL 112 ² , 113, 114 ² , 150, 151, 153, 154, 155, or 156 | 6 |
| MATH 100 ¹ | 3 | MATH 100 ¹ | 3 |
| MATH 101 or 103 ¹ | 3 | MATH 101 or 103 ¹ | 3 |
| PHYS 111 or 112 | 3 | PHYS 111 or 112 | 3 |
| PHYS 121 or 122 | 3 | PHYS 121 or 122 | 3 |
| Total credits | 30 | Total credits | 30 |
| Second Year | | Second Year | |
| BIOL 200, 201 | 6 | BIOL 200, 201 | 6 |
| BIOL 202, 265 | 6 | BIOL 202, 265 | 6 |
| Two of BIOL 204, 205, 209, 210, 228 | 6 | Two of BIOL 204, 205, 209, 210, 228 | 6 |
| CHEM 203, 204; or CHEM 213, 214 ³ | 6 | CHEM 203, 204; or CHEM 213, 214 ³ | 6 |
| Electives ⁴ | 6 | Electives | 6 |
| Total Credits | 30 | Total Credits | 30 |
| Third and Fourth Years | | Third and Fourth Years | |
| BIOL 311 | 3 | BIOL 311 | 3 |
| BIOL 354 | 3 | BIOL 354 | 3 |
| Biology electives numbered 300 or 24 higher | | Biology electives numbered 300 or 24 higher | |
| Science electives numbered 300 or 6 higher | | Science electives numbered 300 or 6 higher | |
| Other electives numbered 300 or 6 higher ⁴ | 6 | Other electives numbered 300 or 6 higher | 6 |



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| Electives to satisfy B.Sc. credit requirements ¹ | 18 | Electives to satisfy B.Sc. credit requirements | 18 |
| Total Credits | 60 | Total Credits | 60 |
| Minimum credits for degree | 120 | Minimum credits for degree | 120 |
| ¹ BIOL 116, 125; CHEM 111, 113 or 121, 123; and MATH 100, 101 or 103 should be taken in the first year to ensure students have the prerequisites for second year. | | ¹ BIOL 116, 125; CHEM 111, 113 or 121, 123; and MATH 100, 101 or 103 should be taken in the first year to ensure students have the prerequisites for second year. | |
| ² Credit will only be granted for one of ENGL 112 OR 114. | | ² Credit will only be granted for one of ENGL 112 OR 114. | |
| ³ Strongly recommended. | | ³ Strongly recommended. | |
| ⁴ Students entering the B.Sc. in 2024 or later must complete at least 9 credits of non-science designated courses and 3 credits from INDG 100 or ENGL 114. Students who entered the B.Sc. prior to 2024 are required to complete 12 credits of non-science designated courses. These students are strongly encouraged to take INDG 100 or ENGL 114. | | | |
| Proposed Academic Calendar Entry: | | Draft Academic Calendar URL: | |
| Major in Ecology, Evolution, and Conservation Biology | | https://draft-content-okanagan-bezdfny-6hlqu3vk3sihm.ca-1.platformsh.site/faculties-schools-and-colleges/faculty-science/bachelor-science-programs/major-programs/ecology-evolution-and-conservation-biology | |
| Note: The UBC Okanagan campus also offers Majors in Biology, Microbiology, and Zoology. | | Present Academic Calendar Entry: | |
| Graduates will obtain a grounding in theory, practical experience, and skills in | | Major in Ecology, Evolution, and Conservation Biology | |
| | | Note: The UBC Okanagan campus also offers Majors in Biology, Microbiology, and Zoology. | |



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| laboratory, field work, and communications (both verbal and written). This program prepares students for graduate school and professional programs. | | Graduates will obtain a grounding in theory, practical experience, and skills in laboratory, field work, and communications (both verbal and written). This program prepares students for graduate school and professional programs. | |
| | | <p>Electives to satisfy B.Sc. Degree Requirements should include a minimum of 12 credits of Arts electives (in addition to 6 credits in English) and 12 credits of other courses (chosen, if needed, to ensure prerequisites are met for third- and fourth-year elective courses).</p> <p>A minimum of 42 upper level credits are required, which include at least 36 credits of Science courses (including at least 30 credits of Biology courses).</p> | |
| First Year | Credits | First Year | Credits |
| BIOL 116, 125 ¹ | 6 | BIOL 116, 125 ¹ | 6 |
| CHEM 111 or CHEM 121 | 3 | CHEM 111 or CHEM 121 | 3 |
| CHEM 113 or CHEM 123 | 3 | CHEM 113 or CHEM 123 | 3 |
| ENGL 109, or two of ENGL 112 ^{2,3} , 113, 114 ³ , 150, 151, 153, 154, 155, or 156 | 6 | ENGL 109, or two of ENGL 112 ^{2,3} , 113, 114 ³ , 150, 151, 153, 154, 155, or 156 | 6 |
| MATH 100 ¹ | 3 | MATH 100 ¹ | 3 |
| MATH 101 OR 103 ¹ | 3 | MATH 101 OR 103 ¹ | 3 |
| Science electives | 6 | Science electives | 6 |
| Total credits | 30 | Total credits | 30 |
| Second Year | | Second Year | |
| BIOL 200, 201 | 6 | BIOL 200, 201 | 6 |
| BIOL 202, 265 | 6 | BIOL 202, 265 | 6 |
| Three of BIOL 204, 205, 209, 210, 228 | 9 | Three of BIOL 204, 205, 209, 210, 228 | 9 |
| CHEM 203, 204; or CHEM 213, 214 ² | 6 | CHEM 203, 204; or CHEM 213, 214 ² | 6 |
| Electives ⁵ | 3 | Electives | 3 |
| Total credits | 30 | Total credits | 30 |
| Third and Fourth Years | | Third and Fourth Years | |
| BIOL 308 | 3 | BIOL 308 | 3 |



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|---|-----|--|-----|
| BIOL 301 | 3 | BIOL 301 | 3 |
| BIOL 422 | 3 | BIOL 422 | 3 |
| Ecology, Evolution, and Conservation Biology electives from the following courses: BIOL 306, 307, 309, 313, 354, 357, 358, 370, 371, 372, 375, 381, 401, 410, 414, 417, 420 ⁴ , 424, 444, 452 ⁴ , 459, 460, 468, 477, GISC 380, 381 | 21 | Ecology, Evolution, and Conservation Biology electives from the following courses: BIOL 306, 307, 309, 313, 354, 357, 358, 370, 371, 372, 375, 381, 401, 410, 414, 417, 420 ⁴ , 424, 444, 452 ⁴ , 459, 460, 468, 477, GISC 380, 381 | 21 |
| Science electives numbered 300 or higher | 6 | Science electives numbered 300 or higher | 6 |
| Other electives numbered 300 or higher ⁵ | 6 | Other electives numbered 300 or higher | 6 |
| Electives to satisfy B.Sc. credit requirements ⁵ | 18 | Electives to satisfy B.Sc. credit requirements | 18 |
| Total credits | 60 | Total credits | 60 |
| Minimum credits for degree | 120 | Minimum credits for degree | 120 |
| ¹ BIOL 116, 125; CHEM 111, 113 or 121, 123; and MATH 100, 101 OR 103 should be taken in first year to ensure students have the prerequisites for second year. | | ¹ BIOL 116, 125; CHEM 111, 113 or 121, 123; and MATH 100, 101 OR 103 should be taken in first year to ensure students have the prerequisites for second year. | |
| ² Strongly recommended. | | ² Strongly recommended. | |
| ³ Credit will only be granted for one of ENGL 112 OR 114. | | ³ Credit will only be granted for one of ENGL 112 OR 114. | |
| ⁴ If approved by the program advisor as appropriate to Ecology, Evolution, and Conservation Biology. | | ⁴ If approved by the program advisor as appropriate to Ecology, Evolution, and Conservation Biology. | |
| ⁵ Students entering the B.Sc. in 2024 or later must complete at least 9 credits of non-science designated courses and 3 credits from INDG 100 or ENGL 114. Students who entered the B.Sc. prior to 2024 are required to complete 12 credits of non-science designated courses. These students are strongly encouraged to take INDG 100 or ENGL 114. | | | |



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| <p>Proposed Academic Calendar Entry: Major in Microbiology</p> <p>Note: The UBC Okanagan campus also offers Majors in Biology, Ecology, Evolution, and Conservation Biology, and Zoology.</p> <p>Designed to provide graduates with a breadth of knowledge in microbiology as it applies to the environment, health, and industry. Students graduating from the UBC Okanagan campus with a B.Sc. in Microbiology will have developed a wide range of lab, communication, and critical thinking skills. This program prepares students for careers in microbiology (e.g., food and beverage industries, health sciences, and environmental sciences), graduate school, and professional programs.</p> <p style="text-align: right;">First Year Credit</p> <p>BIOL 116, 125¹ 6</p> | <p>Draft Academic Calendar URL: https://draft-content-okanagan-bezdfny-6hlqu3vk3sihm.ca-1.platformsh.site/faculties-schools-and-colleges/faculty-science/bachelor-science-programs/major-programs/microbiology</p> <p>Present Academic Calendar Entry: Major in Microbiology</p> <p>Note: The UBC Okanagan campus also offers Majors in Biology, Ecology, Evolution, and Conservation Biology, and Zoology.</p> <p>Designed to provide graduates with a breadth of knowledge in microbiology as it applies to the environment, health, and industry. Students graduating from the UBC Okanagan campus with a B.Sc. in Microbiology will have developed a wide range of lab, communication, and critical thinking skills. This program prepares students for careers in microbiology (e.g., food and beverage industries, health sciences, and environmental sciences), graduate school, and professional programs.</p> <p>Electives to satisfy B.Sc. Degree Requirements should include a minimum of 12 credits of Arts electives (in addition to 6 credits in English) and 12 credits of other courses (chosen, if needed, to ensure prerequisites are met for third and fourth year elective courses).</p> <p>A minimum of 42 upper level credits are required, which include at least 36 credits of Science courses (including at least 30 credits of Biology courses).</p> <p style="text-align: right;">First Year Credit</p> |
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|--|-----|--|-----|
| CHEM 111 or CHEM 121 | 3 | BIOL 116, 125 ¹ | 6 |
| CHEM 113 or CHEM 123 | 3 | CHEM 111 or CHEM 121 | 3 |
| ENGL 109, or two of ENGL 112 ^{2,3} , 113, 114 ³ , 150, 151, 153, 154, 155, or 156 | 6 | CHEM 113 or CHEM 123 | 3 |
| MATH 100 ¹ | 3 | ENGL 109, or two of ENGL 112 ^{2,3} , 113, 114 ³ , 150, 151, 153, 154, 155, or 156 | 6 |
| MATH 101 or 103 ¹ | 3 | MATH 100 ¹ | 3 |
| PHYS 111 or 112 | 3 | MATH 101 or 103 ¹ | 3 |
| PHYS 121 or 122 | 3 | PHYS 111 or 112 | 3 |
| Total credits | 30 | PHYS 121 or 122 | 3 |
| Second Year | | Total credits | 30 |
| BIOL 200, 201 | 6 | Second Year | |
| BIOL 202, 265 | 6 | BIOL 200, 201 | 6 |
| One of BIOL 204, 205, 209, 210 | 3 | BIOL 202, 265 | 6 |
| BIOL 228 | 3 | One of BIOL 204, 205, 209, 210 | 3 |
| CHEM 203, 204; or CHEM 213, 214 ² | 6 | BIOL 228 | 3 |
| Electives ⁶ | 6 | CHEM 203, 204; or CHEM 213, 214 ² | 6 |
| Total Credits | 30 | Electives | 6 |
| Third and Fourth Years | | Total Credits | 30 |
| BIOL 311 | 3 | Third and Fourth Years | |
| One of BIOL 354, BIOL 382 | 3 | BIOL 311 | 3 |
| BIOL 393 | 3 | One of BIOL 354, BIOL 382 | 3 |
| Microbiology electives from the following: a) strongly recommended electives: BIOL 318, 319, 354 or 382, 366, or BIOC 494 or 495 ⁵ ; b) other electives: BIOL 312, 314, 380, 381, 410, 420 ⁴ , 452 ⁴ , 480 | 21 | BIOL 393 | 3 |
| Science electives numbered 300 or higher | 6 | Microbiology electives from the following: a) strongly recommended electives: BIOL 318, 319, 354 or 382, 366, or BIOC 494 or 495 ⁵ ; b) other electives: BIOL 312, 314, 380, 381, 410, 420 ⁴ , 452 ⁴ , 480 | 21 |
| Other electives numbered 300 or higher ⁶ | 6 | Science electives numbered 300 or higher | 6 |
| Electives to satisfy B.Sc. credit requirements ⁶ | 18 | Other electives numbered 300 or higher | 6 |
| Total credits | 60 | Electives to satisfy B.Sc. credit requirements | 18 |
| Minimum credits for degree | 120 | Total credits | 60 |
| | | Minimum credits for degree | 120 |
| ¹ BIOL 116, 125; CHEM 111, 113 or 121, 123; and MATH 100, 101 or 103 should be | | ¹ BIOL 116, 125; CHEM 111, 113 or 121, 123; and MATH 100, 101 or 103 should be | |



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| <p>taken in the first year to ensure students have the prerequisites for second year.</p> <p>²Strongly recommended.</p> <p>³Credit will only be granted for one of ENGL 112 or 114.</p> <p>⁴If approved by the program advisor as appropriate to Microbiology.</p> <p>⁵BIOC 494 and BIOC 495 may both be used toward the requirement to take 30 credits of upper level BIOL courses in the Major in Microbiology.</p> <p>Note: credit will be granted for only one of BIOC 393 or BIOL 393, and one of BIOC 493 and either BIOC 494 or BIOC 495.</p> <p>⁶ Students entering the B.Sc. in 2024 or later must complete at least 9 credits of non-science designated courses and 3 credits from INDG 100 or ENGL 114. Students who entered the B.Sc. prior to 2024 are required to complete 12 credits of non-science designated courses. These students are strongly encouraged to take INDG 100 or ENGL 114.</p> <p>Proposed Academic Calendar Entry:</p> <p>Major in Zoology</p> <p>Note: The UBC Okanagan campus also offers Majors in Biology, Ecology,</p> | <p>taken in the first year to ensure students have the prerequisites for second year.</p> <p>²Strongly recommended.</p> <p>³Credit will only be granted for one of ENGL 112 or 114.</p> <p>⁴If approved by the program advisor as appropriate to Microbiology.</p> <p>⁵BIOC 494 and BIOC 495 may both be used toward the requirement to take 30 credits of upper level BIOL courses in the Major in Microbiology.</p> <p>Note: credit will be granted for only one of BIOC 393 or BIOL 393, and one of BIOC 493 and either BIOC 494 or BIOC 495.</p> <p>Draft Academic Calendar URL: https://draft-content-okanagan-bezdfny-6hlqu3vk3sihm.ca-1.platformsh.site/faculties-schools-and-colleges/faculty-science/bachelor-science-programs/major-programs/zoology</p> <p>Present Academic Calendar Entry:</p> <p>Major in Zoology</p> <p>Note: The UBC Okanagan campus also offers Majors in Biology, Ecology,</p> |
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| | | | |
|--|----------------|--|----------------|
| Evolution, and Conservation Biology, and Microbiology. | | Evolution, and Conservation Biology, and Microbiology. | |
| <p>Graduates will obtain a solid grounding in a broad range of topics dealing with animal biology (physiology, ecology, developmental biology). This program emphasizes a comparative approach and provides students with practical experience and skills in laboratory, field work, and communications. This program prepares students for graduate school and professional programs.</p> | | <p>Graduates will obtain a solid grounding in a broad range of topics dealing with animal biology (physiology, ecology, developmental biology). This program emphasizes a comparative approach and provides students with practical experience and skills in laboratory, field work, and communications. This program prepares students for graduate school and professional programs.</p> | |
| | | <p>Electives to satisfy B.Sc. Degree Requirements should include a minimum of 12 credits of Arts electives (in addition to 6 credits in English) and 12 credits of other courses (chosen, if needed, to ensure prerequisites are met for third and fourth-year elective courses).</p> | |
| | | <p>A minimum of 42 upper-level credits are required, which include at least 36 credits of Science courses (including at least 30 credits of Biology courses).</p> | |
| First Year | Credits | First Year | Credits |
| BIOL 116, 125 ¹ | 6 | BIOL 116, 125 ¹ | 6 |
| CHEM 111 or CHEM 121 | 3 | CHEM 111 or CHEM 121 | 3 |
| CHEM 113 or CHEM 123 | 3 | CHEM 113 or CHEM 123 | 3 |
| ENGL 109, or two of ENGL 112 ^{2,3} , 6 113, 114 ² , 150, 151, 153, 154, 155, or 156 | 6 | ENGL 109, or two of ENGL 112 ^{2,3} , 6 113, 114 ² , 150, 151, 153, 154, 155, or 156 | 6 |
| MATH 100 ¹ | 6 | MATH 100 ¹ | 6 |
| MATH 101 OR 103 ¹ | 3 | MATH 101 OR 103 ¹ | 3 |
| PHYS 111 or 112 | 3 | PHYS 111 or 112 | 3 |
| PHYS 121 or 122 | 3 | PHYS 121 or 122 | 3 |
| Total Credits | 30 | Total Credits | 30 |
| Second Year | | | |



| | | | |
|--|-----|--|-----|
| BIOL 200, 201 | 6 | Second Year | |
| BIOL 202, 265 | 6 | BIOL 200, 201 | 6 |
| BIOL 204, 205 | 6 | BIOL 202, 265 | 6 |
| CHEM 203, 204; or CHEM 213, 214 ³ | 6 | BIOL 204, 205 | 6 |
| Electives ⁵ | 6 | CHEM 203, 204; or CHEM 213, 214 ³ | 6 |
| Total credits | 30 | Electives | 6 |
| Third and Fourth Years | | Total credits | 30 |
| BIOL 311 | 3 | Third and Fourth Years | |
| BIOL 354 | 3 | BIOL 311 | 3 |
| BIOL 363 | 3 | BIOL 354 | 3 |
| Zoology electives from the following courses: BIOL 301, 306, 308, 341, 356 ³ , 357, 359 ³ , 370, 372, 375, 401, 414, 417, 420 ⁴ , 422, 452 ⁴ , 459, 460, 461, 467, 468 | 21 | BIOL 363 | 3 |
| Science electives numbered 300 or higher | 6 | Zoology electives from the following courses: BIOL 301, 306, 308, 341, 356 ³ , 357, 359 ³ , 370, 372, 375, 401, 414, 417, 420 ⁴ , 422, 452 ⁴ , 459, 460, 461, 467, 468 | 21 |
| Other electives numbered 300 or higher ⁵ | 6 | Science electives numbered 300 or higher | 6 |
| Electives to satisfy B.Sc. requirements ⁵ | 18 | Other electives numbered 300 or higher | 6 |
| Total credits | 60 | Electives to satisfy B.Sc. requirements | 18 |
| Minimum credits for degree | 120 | Total credits | 60 |
| | | Minimum credits for degree | 120 |
| ¹ BIOL 116, 125; CHEM 111, 113 or 121, 123; and MATH 100, 101 OR 103 should be taken in first year to ensure students have the prerequisites for second year. | | ¹ BIOL 116, 125; CHEM 111, 113 or 121, 123; and MATH 100, 101 OR 103 should be taken in first year to ensure students have the prerequisites for second year. | |
| ² Credit will only be granted for one of ENGL 112 or 114. | | ² Credit will only be granted for one of ENGL 112 or 114. | |
| ³ Strongly recommended. | | ³ Strongly recommended. | |
| ⁴ If approved by the program advisor as appropriate to Zoology. | | ⁴ If approved by the program advisor as appropriate to Zoology. | |
| ⁵ Students entering the B.Sc. in 2024 or later must complete at least 9 credits of | | | |



non-science designated courses and 3 credits from INDG 100 or ENGL 114. Students who entered the B.Sc. prior to 2024 are required to complete 12 credits of non-science designated courses. These students are strongly encouraged to take INDG 100 or ENGL 114.

Proposed Academic Calendar Entry:

Major in Biochemistry and Molecular Biology

...

1. Biochemistry option: encompasses a broad selection of courses from all areas of chemistry as well as biology. **This option** is especially suited for professional careers in medicine, biochemistry, and biophysics and is well suited to research careers in basic and translational medicine, as well as university and marketplace laboratories.

2. Medical and Molecular Biology option: takes students into the medical aspects of biochemistry and molecular biology, including pharmacology, medical microbiology and virology, and the biochemical basis of disease. **This option** will be of interest to students who would like to do medical research in the future, or those who would like to work in medical or allied health sciences.

...

| First and Second Years | Credits |
|-------------------------------|----------------|
| BIOL 116, 125 | 6 |

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<https://draft-content-okanagan-bezdfny-6hlqu3vk3sihm.ca-1.platformsh.site/faculties-schools-and-colleges/faculty-science/bachelor-science-programs/major-programs/biochemistry-and-molecular-biology>

Present Academic Calendar Entry:

Major in Biochemistry and Molecular Biology

...

1. Biochemistry option: encompasses a broad selection of courses from all areas of chemistry as well as biology. ~~The program~~ is especially suited for professional careers in medicine, biochemistry, and biophysics and is well suited to research careers in basic and translational medicine, as well as university and marketplace laboratories.

2. Medical and Molecular Biology option: takes students into the medical aspects of biochemistry and molecular biology, including pharmacology, medical microbiology and virology, and the biochemical basis of disease. ~~This concentration~~ will be of interest to students who would like to do medical research in the future, or those who would like to work in medical or allied health sciences.

...

| First and Second Years | Credits |
|-------------------------------|----------------|
| BIOL 116, 125 | 6 |



| | | | |
|---|----|---|----|
| CHEM 111 or CHEM 121; and CHEM 113 or CHEM 123 | 6 | CHEM 111 or CHEM 121; and CHEM 113 or CHEM 123 | 6 |
| MATH 100 | 3 | MATH 100 | 3 |
| One of MATH 101 or 103 | 3 | One of MATH 101 or 103 | 3 |
| PHYS 111 or 112 | 3 | PHYS 111 or 112 | 3 |
| PHYS 121 or 122 | 3 | PHYS 121 or 122 | 3 |
| ENGL 109, or two of ENGL 112 ¹ , 113, 114 ¹ , 150, 151, 153, 154, 155, 156, CORH 203 ² | 6 | ENGL 109, or two of ENGL 112 ¹ , 113, 114 ¹ , 150, 151, 153, 154, 155, 156, CORH 203 ² | 6 |
| BIOL 200 | 3 | BIOL 200 | 3 |
| BIOL 228 | 3 | BIOL 228 | 3 |
| BIOL 265 | 3 | BIOL 265 | 3 |
| CHEM 203, 204 | 6 | CHEM 203, 204 | 6 |
| CHEM 201 | 3 | CHEM 201 | 3 |
| Non-science electives [†] | 6 | Arts electives | 6 |
| Biochemistry Option | | Biochemistry Option | |
| MATH 200 ³ | 3 | MATH 200 ³ | 3 |
| One of CHEM 211, BIOL 202, STAT 230 | 3 | One of CHEM 211, BIOL 202, STAT 230 | 3 |
| Medical and Molecular Biology Option | | Medical and Molecular Biology Option | |
| One of BIOC 211, BIOL 201, 3 204, 205, 209, 210 or CHEM 211 | 3 | One of BIOC 211, BIOL 201, 3 204, 205, 209, 210 or CHEM 211 | 3 |
| One of BIOL 202, STAT 230 | 3 | One of BIOL 202, STAT 230 | 3 |
| Total Credits | 60 | Total Credits | 60 |
| Third and Fourth Years | | Third and Fourth Years | |
| BIOC 304, 305 | 6 | BIOC 304, 305 | 6 |
| BIOL 366 | 3 | BIOL 366 | 3 |
| BIOC 393 | 3 | BIOC 393 | 3 |
| Non-science electives [†] | 6 | Arts electives | 6 |
| Biochemistry Option | | Biochemistry Option | |
| Three of BIOC 402, 403, 405, 9 410, 412, 420, 425 | 9 | Three of BIOC 402, 403, 405, 9 410, 412, 420, 425 | 9 |
| CHEM 305 | 3 | CHEM 305 | 3 |
| Two of CHEM 304, 330, 333, 6 335, BIOC 494, BIOC 495 [‡] | 6 | Two of CHEM 304, 330, 333, 6 335, BIOC 494, BIOC 495 [‡] | 6 |
| Upper-level science elective | 6 | Upper-level science elective | 6 |
| Upper-level arts or science electives | 6 | Upper-level arts or science electives | 6 |
| Electives | 12 | Electives | 12 |
| Medical and Molecular Biology Option | | Medical and Molecular Biology Option | |



| | | | |
|---|-----|---|-----|
| BIOC 308, 309 | 6 | BIOC 308, 309 | 6 |
| Two of BIOC 402, 403, 405, 410, 412 | 6 | Two of BIOC 402, 403, 405, 410, 412 | 6 |
| BIOC 407 | 3 | BIOC 407 | 3 |
| One of BIOC 494, 495 ⁵ | 3 | One of BIOC 494, 495 ⁴ | 3 |
| BIOL 318 | 3 | BIOL 318 | 3 |
| Two of BIOL 312, 314, 341, 363 | 6 | Two of BIOL 312, 314, 341, 363 | 6 |
| Upper-level elective | 3 | Upper-level elective | 3 |
| Electives | 12 | Electives | 12 |
| Total Credits | 60 | Total Credits | 60 |
| Minimum credits for degree | 120 | Minimum credits for degree | 120 |
| ¹ Credit will only be granted for one of ENGL 112 OR 114. | | ¹ Credit will only be granted for one of ENGL 112 OR 114. | |
| ² It is recommended students take CORH 203 to fulfill the English or Communications requirement. | | ² It is recommended students take CORH 203 to fulfill the English or Communications requirement. | |
| ³ Prerequisites for MATH 200 are: either (a) MATH 101 or (b) a score of 65% or higher in MATH 103. | | ³ Prerequisites for MATH 200 are: either (a) MATH 101 or (b) a score of 65% or higher in MATH 103. | |
| ⁴ Students entering the B.Sc. in 2024 or later must complete at least 9 credits of non-science designated courses and 3 credits from INDG 100 or ENGL 114. Students who entered the B.Sc. prior to 2024 are required to complete 12 credits of non-science designated courses. These students are strongly encouraged to take INDG 100 or ENGL 114. | | ⁴ BIOC 494 and/or 495 (Biotechnology Laboratory I and II) can be replaced by BIOC 448 or BIOC 449, a 6-credit lab-based directed studies or honours course, though students may take all. | |
| ⁵ BIOC 494 and/or 495 (Biotechnology Laboratory I and II) can be replaced by BIOC 448 or BIOC 449, a 6-credit lab-based directed studies or honours course, though students may take all. | | | |
| | | Draft Academic Calendar URL: | |
| | | https://draft-content-okanagan-bezdfny-6hlqu3vk3sihm.ca-1.platformsh.site/faculties-schools-and- | |



| Proposed Academic Calendar Entry: | | Present Academic Calendar Entry: | |
|---|----------------|---|----------------|
| Major in Chemistry | | Major in Chemistry | |
| First Year | Credits | First Year | Credits |
| CHEM 111 or CHEM 121; and CHEM 113 or CHEM 123 | 6 | CHEM 111 or CHEM 121; and CHEM 113 or CHEM 123 | 6 |
| MATH 100 | 3 | MATH 100 | 3 |
| One of MATH 101 or 103 | 3 | One of MATH 101 or 103 | 3 |
| ENGL 109, or two of ENGL 112 ¹ , 113, 114 ¹ , 150, 151, 153, 154, 155, 156, CORH 203 ² | 6 | ENGL 109, or two of ENGL 112 ¹ , 113, 114 ¹ , 150, 151, 153, 154, 155, 156, CORH 203 ² | 6 |
| PHYS 111 or 112 | 3 | PHYS 111 or 112 | 3 |
| PHYS 121 or 122 | 3 | PHYS 121 or 122 | 3 |
| Electives | 6 | Electives | 6 |
| Total Credits | 30 | Total Credits | 30 |
| Second Year | | Second Year | |
| CHEM 201, 220 | 6 | CHEM 201, 220 | 6 |
| CHEM 203, 204 | 6 | CHEM 203, 204 | 6 |
| CHEM 211 | 3 | CHEM 211 | 3 |
| MATH 200 ³ | 3 | MATH 200 | 3 |
| Science electives | 6 | Science electives | 6 |
| Arts electives ⁴ | 6 | Arts electives | 6 |
| Total Credits | 30 | Total Credits | 30 |
| Third and Fourth Years | | Third and Fourth Years | |
| Analytical: CHEM 311 | 3 | Analytical: CHEM 311 | 3 |
| Biochemistry: BIOC 304 | 3 | Biochemistry: BIOC 304 | 3 |
| Inorganic: two of CHEM 335, 336, 337, 338 | 6 | Inorganic: two of CHEM 335, 336, 337, 338 | 6 |
| Organic: two of CHEM 317, 330, 333, 403 | 6 | Organic: two of CHEM 317, 330, 333, 403 | 6 |
| Physical: CHEM 304, 312 ³ | 6 | Physical: CHEM 304, 312 ³ | 6 |
| Two of CHEM 461, 462, 463, 464, 465 | 6 | Two of CHEM 461, 462, 463, 464, 465 | 6 |



| | | | |
|---|-----|---|-----|
| Upper-level Chemistry electives | 6 | Upper-level Chemistry electives | 6 |
| Upper-level electives | 6 | Upper-level electives | 6 |
| Non-science electives ⁴ | 6 | Arts electives | 6 |
| Electives ⁵ | 12 | Electives ⁴ | 12 |
| Total Credits | 60 | Total Credits | 60 |
| Minimum credits for degree | 120 | Minimum credits for degree | 120 |
| <p>¹Credit will only be granted for one of ENGL 112 OR 114.</p> <p>²It is recommended students take CORH 203 to fulfill the English or Communications requirement.</p> <p>³MATH 200 is a strongly recommended corequisite for CHEM 312 and should be taken in second year if CHEM 312 will be taken in third year. Prerequisites for MATH 200 are: either (a) MATH 101 or (b) a score of 65% or higher in MATH 103.</p> <p>⁴ Students entering the B.Sc. in 2024 or later must complete at least 9 credits of non-science designated courses and 3 credits from INDG 100 or ENGL 114. Students who entered the B.Sc. prior to 2024 are required to complete 12 credits of non-science designated courses. These students are strongly encouraged to take INDG 100 or ENGL 114.</p> <p>⁵Of the electives, 6 credits must be taken from the following: ASTR 110, 120; ASTR 111, 121; BIOL 116, 125; COSC 111, 121; COSC 122, 123; EESC 111, 121; GEOG 108, 109.</p> | | <p>¹Credit will only be granted for one of ENGL 112 OR 114.</p> <p>²It is recommended students take CORH 203 to fulfill the English or Communications requirement.</p> <p>³MATH 200 is a strongly recommended corequisite for CHEM 312 and should be taken in second year if CHEM 312 will be taken in third year. Prerequisites for MATH 200 are: either (a) MATH 101 or (b) a score of 65% or higher in MATH 103.</p> <p>⁴Of the electives, 6 credits must be taken from the following: ASTR 110, 120; ASTR 111, 121; BIOL 116, 125; COSC 111, 121; COSC 122, 123; EESC 111, 121; GEOG 108, 109.</p> <p>...</p> | |
| Chemistry Honours Program | | Chemistry Honours Program | |



The Honours in Chemistry is designed to provide an intensive program of study through coursework and research experience. Students who complete this program will have the ability to work independently and with a high level of competency. The course requirements are the same as in the Major in Chemistry program, except 6 credits of the elective component of the program must be in CHEM 449.

Proposed Academic Calendar Entry:

Major in Environmental Chemistry

| First Year | Credits |
|---|---------|
| CHEM 111 or CHEM 121; and CHEM 113 or CHEM 123 | 6 |
| MATH 100 | 3 |
| One of MATH 101 or 103 | 3 |
| ENGL 109, or two of ENGL 112 ¹ , 113, 114 ¹ , 150, 151, 153, 154, 155, 156, CORH 203 ² | 6 |
| PHYS 111 or 112 | 3 |
| PHYS 121 or 122 | 3 |
| BIOL 116, 125; or two of EESC 101, 111, 121 ³ | 6 |
| Total Credits | 30 |
| Second Year | Credits |
| One of CHEM 201, 210 | 3 |
| CHEM 203, 204 | 6 |
| CHEM 211 | 3 |
| CHEM 220 | 3 |

The Honours in Chemistry program is designed to provide an intensive program of study through coursework and research experience. Students who complete this program will have the ability to work independently and with a high level of competency. The course requirements are the same as in the Major in Chemistry program, except 6 credits of the elective component of the program must be in CHEM 449.

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Present Academic Calendar Entry:

Major in Environmental Chemistry

| First Year | Credits |
|---|---------|
| CHEM 111 or CHEM 121; and CHEM 113 or CHEM 123 | 6 |
| MATH 100 | 3 |
| One of MATH 101 or 103 | 3 |
| ENGL 109, or two of ENGL 112 ¹ , 113, 114 ¹ , 150, 151, 153, 154, 155, 156, CORH 203 ² | 6 |
| PHYS 111 or 112 | 3 |
| PHYS 121 or 122 | 3 |
| BIOL 116, 125; or two of EESC 101, 111, 121 ³ | 6 |
| Total Credits | 30 |
| Second Year | Credits |
| One of CHEM 201, 210 | 3 |
| CHEM 203, 204 | 6 |
| CHEM 211 | 3 |
| CHEM 220 | 3 |



| | | | |
|--|-----|--|-----|
| BIOL 116, 125; or two of EESC 101, 111, 121 ³ | 6 | BIOL 116, 125; or two of EESC 101, 111, 121 ³ | 6 |
| Arts elective ⁴ | 3 | Arts elective ⁴ | 3 |
| Electives ⁴ | 6 | Electives ⁴ | 6 |
| Total Credits | 30 | Total Credits | 30 |
| Third and Fourth Years | | Third and Fourth Years | |
| CHEM 301, 302 | 6 | CHEM 301, 302 | 6 |
| CHEM 311 | 3 | CHEM 311 | 3 |
| CHEM 317 | 3 | CHEM 317 | 3 |
| One of CHEM 330, 333, 403 | 3 | One of CHEM 330, 333, 403 | 3 |
| Two of CHEM 335, 336, 337, 338 | 6 | Two of CHEM 335, 336, 337, 338 | 6 |
| One of CHEM 412, 434 | 3 | One of CHEM 412, 434 | 3 |
| CHEM 461 | 3 | CHEM 461 | 3 |
| EESC 309 | 3 | EESC 309 | 3 |
| EESC 323 ⁵ | 3 | EESC 323 ⁵ | 3 |
| EESC 423 ⁵ | 3 | EESC 423 ⁵ | 3 |
| Two approved environmental electives ^{4,6} | 6 | Two approved environmental electives ^{4,6} | 6 |
| Non-science electives ⁴ | 9 | Arts electives ⁴ | 9 |
| Electives ⁴ | 9 | Electives ⁴ | 9 |
| Total Credits | 60 | Total Credits | 60 |
| Minimum credits for degree | 120 | Minimum credits for degree | 120 |
| <p>¹Credit will only be granted for one of ENGL 112 OR 114.</p> <p>²It is recommended students take CORH 203 to fulfill the English or Communications requirement.</p> <p>³Students must complete BIOL 116, 125, and two of EESC 101, 111, 121. The order in which these pairs of courses are completed in first and second year is optional.</p> <p>⁴ At least 6 elective credits must be 300 level or higher. Students entering the B.Sc. in 2024 or later must complete at least 9 credits of non-science designated courses and 3 credits from INDG 100 or ENGL 114. Students who entered the</p> | | <p>¹Credit will only be granted for one of ENGL 112 OR 114.</p> <p>²It is recommended students take CORH 203 to fulfill the English or Communications requirement.</p> <p>³Students must complete BIOL 116, 125, and two of EESC 101, 111, 121. The order in which these pairs of courses are completed in first and second year is optional.</p> <p>⁴At least 18 total credits (including 6 credits in first-year English) must be in Arts courses. At least 6 elective credits must be 300 level or higher.</p> | |



B.Sc. prior to 2024 are required to complete 12 credits of non-science designated courses. These students are strongly encouraged to take INDG 100 or ENGL 114.

⁵Students should be aware that these courses are generally offered only in alternate years, and plan their course selections accordingly.

⁶The environmental electives must be chosen from outside Chemistry, in consultation with a program advisor.

Environmental Chemistry Honours Program

The Honours in Environmental Chemistry is designed to provide an intensive program of study through coursework and research experience. Students who complete this program will have the ability to work independently and with a high level of competency. The course requirements are the same as in the Major in Environmental Chemistry program, except 6 credits of the elective component of the program must be in CHEM 449.

⁵Students should be aware that these courses are generally offered only in alternate years, and plan their course selections accordingly.

⁶The environmental electives must be chosen from outside Chemistry, in consultation with a program advisor.

...

Environmental Chemistry Honours Program

The Honours in Environmental Chemistry program is designed to provide an intensive program of study through coursework and research experience. Students who complete this program will have the ability to work independently and with a high level of competency. The course requirements are the same as in the Major in Environmental Chemistry program, except 6 credits of the elective component of the program must be in CHEM 449.

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| | |
|--|--|
| <p>Proposed Academic Calendar Entry:</p> <p>Major in Earth and Environmental Sciences</p> <p>The Earth and Environmental Sciences program provides an education reflecting the multi-disciplinary nature of the field. Students will acquire a fundamental understanding of past and present relationships among air, water, rocks and minerals, and biota. Flexible program requirements allow students to acquire a degree that meets their personal objectives. Programs can also be designed to meet curriculum guidelines required for professional licensure¹. For example, students are referred to the Geoscientists Canada and the Engineers and Geoscientists British Columbia websites for syllabus requirements for licensure as a Professional Geoscientist. Licensure or registration with other national and provincial bodies may be possible with careful course selection.</p> <p>...</p> <p>¹Students are advised to consult a departmental program advisor or the program website for guidance on which courses to take in first and second year. The choice of courses, and the order to take them in, may vary depending on student interests. Careful selection of courses at all levels may be required to meet the requirements of licensure as a professional. Consultation with a departmental program advisor is recommended at the end of 1st-year or in the first weeks of 2nd year if a student is aiming to meet requirements of professional licensure.</p> | <p>Present Academic Calendar Entry:</p> <p>Major in Earth and Environmental Sciences</p> <p>The Earth and Environmental Sciences B.Sc. program provides an education reflecting the multi-disciplinary nature of the field. Students will acquire a fundamental understanding of past and present relationships among air, water, rocks and minerals, and biota. Flexible program requirements allow students to acquire a degree that meets their personal objectives. Students can highlight the environment or the solid earth and enhance their program with related elective courses from Biochemistry, Biology, Chemistry, Geography, Mathematics, and Statistics. Programs can also be designed to meet curriculum guidelines required for professional licensure¹. For example, students are referred to the Geoscientists Canada and the Engineers and Geoscientists British Columbia websites for syllabus requirements for licensure as a Professional Geoscientist. Licensure or registration with other national and provincial bodies may be possible with careful course selection.</p> <p>...</p> <p>¹Students are advised to consult a departmental program advisor or the program website for guidance on which courses to take in first and second year. The choice of courses, and the order to take them in, may vary depending on student interests. Careful selection of courses at all levels may be required to meet the requirements of licensure as a professional. Consultation with a departmental program advisor is recommended at the end of 1st-year or in the first weeks of 2nd year if a</p> |
|--|--|



| | |
|--|---|
| <p>²Communication Requirement: This may be fulfilled by 6 credits from: APSC 176, 201, CORH 203, ENGL 109,112, 113, 114, 150, 151, 153, 154, 155, 156, BIOL 313, EESC 398. In exceptional circumstances, such as transfer students, other courses may be permitted by the program advisor. Students who have not completed the Communication Requirement by the time they enter fourth year will not be permitted to enrol in any courses other than courses that satisfy the requirement.</p> <p>³Students may choose 200-level courses from Earth and Environmental Sciences courses, Geography courses accepted as science courses, or from across the sciences. Students should consult with a program advisor to select courses to match their intended program of study and professional licensure intentions.</p> <p>⁴A few upper-level Earth and Environmental Sciences courses are offered in alternate years. Planning with a department advisor is recommended.</p> <p>⁵Students may choose from Earth and Environmental Sciences courses, Geospatial Information Science courses, Geography courses accepted as science courses, or from across the sciences. Students should consult with a program advisor to select courses to match their intended program of study and professional licensure intentions.</p> <p>⁶Those Geography courses regarded as Science courses cannot be used for Non-Science credit. See the Bachelor of Science Degree Requirements for a list.</p> <p>⁷At least 6 credits of these electives must be 300-level or higher. Students entering the B.Sc. in 2024 or later must complete at least 9 credits of non-science</p> | <p>student is aiming to meet requirements of professional licensure.</p> <p>²Communication Requirement: This may be fulfilled by 6 credits from: APSC 176, 201, CORH 203, ENGL 109,112, 113, 114, 150, 151, 153, 154, 155, 156, BIOL 313, EESC 398. In exceptional circumstances, such as transfer students, other courses may be permitted by the program advisor. Students who have not completed the Communication Requirement by the time they enter fourth year will not be permitted to enrol in any courses other than courses that satisfy the requirement.</p> <p>³Students may choose 200-level courses from Earth and Environmental Sciences courses, Geography courses accepted as science courses, or from across the sciences. Students should consult with a program advisor to select courses to match their intended program of study and professional licensure intentions.</p> <p>⁴A few upper-level Earth and Environmental Sciences courses are offered in alternate years. Planning with a department advisor is recommended.</p> <p>⁵Students may choose from Earth and Environmental Sciences courses, Geospatial Information Science courses, Geography courses accepted as science courses, or from across the sciences. Students should consult with a program advisor to select courses to match their intended program of study and professional licensure intentions.</p> <p>⁶Those Geography courses regarded as Science courses cannot be used for Non-Science credit. See the Bachelor of Science Degree Requirements for a list.</p> |
|--|---|



designated courses and 3 credits from INDG 100 or ENGL 114. Students who entered the B.Sc. prior to 2024 are required to complete 12 credits of non-science designated courses. These students are strongly encouraged to take INDG 100 or ENGL 114.

⁷At least 6 credits of these electives must be at upper-level.

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Proposed Academic Calendar Entry:

Major in Freshwater Science

| Second Year | |
|--|-----------|
| BIOL 201 | 3 |
| One of BIOL 202, GEOG 271, STAT 121, 230 | 3 |
| One of CHEM 201, 210 | 3 |
| CHEM 211 | 3 |
| EESC 205, 222 | 6 |
| Communication Requirement ¹ | 6 |
| Non-science electives ² | 6 |
| Total Credits | 30 |

| Third and Fourth Years | |
|---|---|
| BIOL 308 | 3 |
| FWSC 375 ³ | 3 |
| CHEM 301 | 3 |
| EESC 212 | 3 |
| EESC 301 | 3 |
| EESC 402 | 3 |
| One of EESC 305, 342, 413, 435 | 3 |
| Two of EESC 309, EESC 323, EESC 423 | 6 |
| One of EESC 313, EESC 314, EESC 315, GEOG 310, GEOG 314 | 3 |
| Upper-level Science electives | 9 |

Present Academic Calendar Entry:

Major in Freshwater Science

| Second Year | |
|--|-----------|
| BIOL 201 | 3 |
| One of BIOL 202, GEOG 271, STAT 121, 230 | 3 |
| One of CHEM 201, 210 | 3 |
| CHEM 211 | 3 |
| EESC 205, 222 | 6 |
| Communication Requirement ¹ | 6 |
| Non-science electives | 6 |
| Total Credits | 30 |

| Third and Fourth Years | |
|---|---|
| BIOL 308 | 3 |
| FWSC 375 ² | 3 |
| CHEM 301 | 3 |
| EESC 212 | 3 |
| EESC 301 | 3 |
| EESC 402 | 3 |
| One of EESC 305, 342, 413, 435 | 3 |
| Two of EESC 309, EESC 323, EESC 423 | 6 |
| One of EESC 313, EESC 314, EESC 315, GEOG 310, GEOG 314 | 3 |
| Upper-level Science electives | 9 |



| | | | |
|--|-----|--|-----|
| Non-Science electives ^{2,4} | 6 | Non-Science electives ² | 6 |
| Electives ⁴ | 15 | Electives ³ | 15 |
| Total Credits | 60 | Total Credits | 60 |
| Minimum Credits for Degree | 120 | Minimum Credits for Degree | 120 |
| <p>¹Communication Requirement: This may be fulfilled by 6 credits from: APSC 176, 201, CORH 203, ENGL 109,112, 113, 114, 150, 151, 153, 154, 155, 156, BIOL 313, EESC 398. In exceptional circumstances, such as transfer students, other courses may be permitted by the program advisor. Students who have not completed the Communication Requirement by the time they enter fourth year will not be permitted to enrol in any courses other than courses that satisfy the requirement.</p> <p>² Students entering the B.Sc. in 2024 or later must complete at least 9 credits of non-science designated courses and 3 credits from INDG 100 or ENGL 114. Students who entered the B.Sc. prior to 2024 are required to complete 12 credits of non-science designated courses. These students are strongly encouraged to take INDG 100 or ENGL 114.</p> <p>³In lieu of FWSC 375, two of BIOL 204, 205, 209, 210 will be accepted.</p> <p>⁴At least 6 credits of these electives must be 300-level or higher.</p> | | <p>¹Communication Requirement: This may be fulfilled by 6 credits from: APSC 176, 201, CORH 203, ENGL 109,112, 113, 114, 150, 151, 153, 154, 155, 156, BIOL 313, EESC 398. In exceptional circumstances, such as transfer students, other courses may be permitted by the program advisor. Students who have not completed the Communication Requirement by the time they enter fourth year will not be permitted to enrol in any courses other than courses that satisfy the requirement.</p> <p>²In lieu of FWSC 375, two of BIOL 204, 205, 209, 210 will be accepted.</p> <p>³At least 6 credits of these electives must be at upper level.</p> | |
| Proposed Academic Calendar Entry: | | <p>Draft Academic Calendar URL: https://draft-content-okanagan-bezdfny-6hlqu3vk3sihm.ca-1.platformsh.site/faculties-schools-and-colleges/faculty-science/bachelor-science-programs/major-programs/mathematics-bsc</p> | |
| | | Present Academic Calendar Entry: | |
| | | B.Sc. Major in Mathematics | |



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|---|---|---|-------------------------|----|--------------------------|---|--|---|--|----------|---|-------------------------|----|--------------------------|---|--|---|--|---|-------------------------------|---|
| <p>B.Sc. Major in Mathematics</p> <p>¹COSC 111 may be replaced by COSC 122 and 123.</p> <p>²COSC 111 and 121 may be taken in 2nd year.</p> <p>³Credit will only be granted for one of ENGL 112 or 114.</p> <p>⁴Students entering the B.Sc. in 2024 or later must complete at least 9 credits of non-science designated courses and 3 credits from INDG 100 or ENGL 114. Students who entered the B.Sc. prior to 2024 are required to complete 12 credits of non-science designated courses. These students are strongly encouraged to take INDG 100 or ENGL 114.</p> <p>⁵Students are strongly encouraged to take MATH 221 in the second term of the 1st year.</p> | <p>¹COSC 111 may be replaced by COSC 122 and 123.</p> <p>²COSC 111 and 121 may be taken in 2nd year.</p> <p>³Credit will only be granted for one of ENGL 112 or 114.</p> <p>⁴Students must complete at least 12 credits of non-science designated courses. Students are strongly encouraged to take 3 credits of an Indigenous content course to partially fulfill this requirement. Students entering the B.Sc. in 2024 and later will have to successfully complete an Indigenous content course.</p> <p>⁵Students are strongly encouraged to take MATH 221 in the second term of the 1st year.</p> <p>Draft Academic Calendar URL: https://draft-content-okanagan-bezdfny-6hlqu3vk3sihm.ca-1.platformsh.site/faculties-schools-and-colleges/faculty-science/bachelor-science-programs/major-programs/physics-and-astronomy</p> | | | | | | | | | | | | | | | | | | | | |
| <p>Proposed Academic Calendar Entry:</p> <p>Major in Physics</p> <p>Third and Fourth Years</p> <table border="0"> <tr> <td>MATH 319</td> <td>3</td> </tr> <tr> <td>PHYS 301, 304, 328, 331</td> <td>12</td> </tr> <tr> <td>One of PHYS 401, 402,403</td> <td>3</td> </tr> <tr> <td>400-level Physics and Astronomy elective</td> <td>3</td> </tr> </table> | MATH 319 | 3 | PHYS 301, 304, 328, 331 | 12 | One of PHYS 401, 402,403 | 3 | 400-level Physics and Astronomy elective | 3 | <p>Present Academic Calendar Entry:</p> <p>Major in Physics</p> <p>Third and Fourth Years</p> <table border="0"> <tr> <td>MATH 319</td> <td>3</td> </tr> <tr> <td>PHYS 301, 304, 328, 331</td> <td>12</td> </tr> <tr> <td>One of PHYS 401, 402,403</td> <td>3</td> </tr> <tr> <td>400-level Physics and Astronomy elective</td> <td>3</td> </tr> <tr> <td>Upper-level Physics and Astronomy electives⁵</td> <td>9</td> </tr> <tr> <td>Upper level science electives</td> <td>3</td> </tr> </table> | MATH 319 | 3 | PHYS 301, 304, 328, 331 | 12 | One of PHYS 401, 402,403 | 3 | 400-level Physics and Astronomy elective | 3 | Upper-level Physics and Astronomy electives ⁵ | 9 | Upper level science electives | 3 |
| MATH 319 | 3 | | | | | | | | | | | | | | | | | | | | |
| PHYS 301, 304, 328, 331 | 12 | | | | | | | | | | | | | | | | | | | | |
| One of PHYS 401, 402,403 | 3 | | | | | | | | | | | | | | | | | | | | |
| 400-level Physics and Astronomy elective | 3 | | | | | | | | | | | | | | | | | | | | |
| MATH 319 | 3 | | | | | | | | | | | | | | | | | | | | |
| PHYS 301, 304, 328, 331 | 12 | | | | | | | | | | | | | | | | | | | | |
| One of PHYS 401, 402,403 | 3 | | | | | | | | | | | | | | | | | | | | |
| 400-level Physics and Astronomy elective | 3 | | | | | | | | | | | | | | | | | | | | |
| Upper-level Physics and Astronomy electives ⁵ | 9 | | | | | | | | | | | | | | | | | | | | |
| Upper level science electives | 3 | | | | | | | | | | | | | | | | | | | | |



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| Upper-level Physics and Astronomy electives ⁵ | 9 | Upper level electives | 6 |
| Upper-level science electives | 3 | Non-science electives | 12 |
| Upper-level electives | 6 | Electives ² | 9 |
| Non-science electives ⁶ | 12 | Total Credits | 60 |
| Electives ² | 9 | Minimum credits for degree | 120 |
| Total Credits | 60 | | |
| Minimum credits for degree | 120 | | |
| <p>¹Credit will only be granted for one of ENGL 112 or 114.</p> <p>²COSC 111 and 121 are strongly recommended. Students considering a career in geosciences should take EESC 111, 121, and 350. Students considering a career in astronomy should take ASTR 110, 120, 210 and 321.</p> <p>³MATH 221 may be taken in the second term of the first year.</p> <p>⁴MATH 317 may be taken in the third year.</p> <p>⁵PHYS 335 cannot be used as upper-level Physics electives. Capable students are advised to consider selecting the directed studies course PHYS 448, which grants either 2, 3, 4, or 6 upper-level credits in Physics.</p> <p>⁶ Students entering the B.Sc. in 2024 or later must complete at least 9 credits of non-science designated courses and 3 credits from INDG 100 or ENGL 114. Students who entered the B.Sc. prior to 2024 are required to complete 12 credits of non-science designated courses. These students are strongly encouraged to take INDG 100 or ENGL 114.</p> <p>...</p> | | <p>¹Credit will only be granted for one of ENGL 112 or 114.</p> <p>²COSC 111 and 121 are strongly recommended. Students considering a career in geosciences should take EESC 111, 121, and 350. Students considering a career in astronomy should take ASTR 110, 120, 210 and 321.</p> <p>³MATH 221 may be taken in the second term of the first year.</p> <p>⁴MATH 317 may be taken in the third year.</p> <p>⁵PHYS 335 cannot be used as upper-level Physics electives. Capable students are advised to consider selecting the directed studies course PHYS 448, which grants either 2, 3, 4, or 6 upper-level credits in Physics.</p> <p>...</p> | |



| Combined Major in Physics and Mathematics | Combined Major in Physics and Mathematics |
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| <p style="text-align: center;">Third and Fourth Years</p> <p>MATH 220, 319, 327, 350, STAT 303 15</p> <p>PHYS 301, 304, 328 9</p> <p>One of PHYS 401³, 402³, 418³ 3</p> <p>Two of MATH 303, 408, 459; STAT 6 403</p> <p>Three of ASTR 321; PHYS, 331, 400, 9 401³, 402³, 403, 407, 408, 418³, 420, 425, 441, 474</p> <p>Non-science electives 12</p> <p>Electives⁴ 6</p> <p>Total Credits 60</p> <p>Minimum credits for degree 120</p> | <p style="text-align: center;">Third and Fourth Years</p> <p>MATH 220, 319, 327, 350, STAT 303 15</p> <p>PHYS 301, 304, 328 9</p> <p>One of PHYS 401³, 402³, 418³ 3</p> <p>Two of MATH 303, 408, 459; STAT 6 403</p> <p>Three of ASTR 321; PHYS, 331, 400, 9 401³, 402³, 403, 407, 408, 418³, 420, 425, 441, 474</p> <p>Non-science electives 12</p> <p>Electives⁴ 6</p> <p>Total Credits 60</p> <p>Minimum credits for degree 120</p> |
| <p>¹Credit will only be granted for one of ENGL 112 or 114.</p> | <p>¹Credit will only be granted for one of ENGL 112 or 114.</p> |
| <p>²MATH 317 may be taken in the third year but is a requirement for PHYS 301.</p> | <p>²MATH 317 may be taken in the third year but is a requirement for PHYS 301.</p> |
| <p>³Each of PHYS 401, 402, 418 may only fulfill one requirement.</p> | <p>³Each of PHYS 401, 402, 418 may only fulfill one requirement.</p> |
| <p>⁴ Students entering the B.Sc. in 2024 or later must complete at least 9 credits of non-science designated courses and 3 credits from INDG 100 or ENGL 114. Students who entered the B.Sc. prior to 2024 are required to complete 12 credits of non-science designated courses. These students are strongly encouraged to take INDG 100 or ENGL 114.</p> | <p>⁴Students are strongly encouraged to take 3 credits of an Indigenous content course to partially fulfill this requirement. Students entering the B.Sc. in 2024 and later will have to successfully complete an Indigenous content course.</p> |
| | <p>Draft Academic Calendar URL: https://draft-content-okanagan-bezdfny-6hlqu3vk3sihm.ca-1.platformsh.site/faculties-schools-and-</p> |



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| <p>Proposed Academic Calendar Entry:</p> <p>Major in Statistics</p> <p>This program provides students with a solid grounding in the theoretical, computational, and applied aspects of statistical science. Students also specialize in an area of application by fulfilling stream requirements. A graduate of this program is prepared for further study in statistical science, or to enter into a career in Statistics Canada, health sciences, business, government, industry, or an actuarial/financial institution. Each student must consult with the program advisor in his or her first or second year for advice in planning third- and fourth-year courses.</p> <p>...</p> <p>¹Credit will only be granted for one of ENGL 112 or 114.</p> <p>² Students entering the B.Sc. in 2024 or later must complete at least 9 credits of non-science designated courses and 3 credits from INDG 100 or ENGL 114. Students who entered the B.Sc. prior to 2024 are required to complete 12 credits of non-science designated courses. These students are strongly encouraged to take INDG 100 or ENGL 114.</p> <p>³Math 221 may be taken in the second term of the first year.</p> | <p>colleges/faculty-science/bachelor-science-programs/major-programs/statistics</p> <p>Present Academic Calendar Entry:</p> <p>Major in Statistics</p> <p>This program provides students with a solid grounding in the theoretical, computational, and applied aspects of statistical science. Students also specialize in an area of application through upper-level electives and fulfilling stream requirements in another discipline. A graduate of this program is prepared for further study in statistical science, or to enter into a career in Statistics Canada, health sciences, business, government, industry, or an actuarial/financial institution. Each student must consult with the program advisor in his or her first or second year for advice in planning third- and fourth-year courses.</p> <p>...</p> <p>¹Credit will only be granted for one of ENGL 112 or 114.</p> <p>²Students must complete at least 12 credits of non-science designated courses. Students are strongly encouraged to take 3 credits of an Indigenous content course to partially fulfill this requirement. Students entering the B.Sc. in 2024 and later will have to successfully complete an Indigenous content course.</p> <p>³Math 221 may be taken in the second term of the first year.</p> |
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| <p>Proposed Academic Calendar Entry:</p> <p>B.Sc. Major in Psychology</p> <p>¹Credit will only be granted for one of ENGL 112 or 114.</p> <p>² The first-year courses are often prerequisite for second-year courses and second-year courses are often prerequisites for upper-level (third- and fourth-year) courses. Students are strongly advised to consider what upper-level courses are of interest to ensure that they have the proper prerequisites to complete upper-level electives credits.</p> <p>³ PSYO courses are science courses for B.Sc. PSYO students.</p> <p>⁴ Students entering the B.Sc. in 2024 or later must complete at least 9 credits of non-science designated courses and 3 credits from INDG 100 or ENGL 114. Students who entered the B.Sc. prior to 2024 are required to complete 12 credits of non-science designated courses. These students are strongly encouraged to take INDG 100 or ENGL 114.</p> | <p>Draft Academic Calendar URL: https://draft-content-okanagan-bezdfny-6hlqu3vk3sihm.ca-1.platformsh.site/faculties-schools-and-colleges/faculty-science/bachelor-science-programs/major-programs/psychology-bsc</p> <p>Present Academic Calendar Entry:</p> <p>B.Sc. Major in Psychology</p> <p>¹Credit will only be granted for one of ENGL 112 or 114.</p> <p>² The first-year courses are often prerequisite for second-year courses and second-year courses are often prerequisites for upper-level (third- and fourth-year) courses. Students are strongly advised to consider what upper-level courses are of interest to ensure that they have the proper prerequisites to complete upper-level electives credits.</p> <p>³ PSYO courses are NOT Arts courses for B.Sc. Psychology students.</p> <p>⁴ Students are strongly encouraged to take 3 credits of an Indigenous content course to partially fulfill this requirement. Students entering the B.Sc. in 2024 and later will have to successfully complete an Indigenous content course.</p> |
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Curriculum Proposal Form New or Revised Course/Program

Proponents are encouraged to review the [Curriculum Submission Guidelines](#) prior to drafting their proposals. Please contact Senate & Curriculum Services at okanagan.curriculum@ubc.ca for further assistance.

| | |
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| Category: 1 | |
| Faculty: Science Dept./Unit: CMPS Faculty Approval Date: 2024-03-11 Effective Session: 2024W | Date: 2024-02-08 Contact Person: Irene Vrbik Phone: 250.807.XXXX Email: irene.vrbik@ubc.ca |
| Type of Action: Other/Multiple (Please Specify) | |
| <p>Rationale: The series STAT 203 and 205 was created as a more rigorous alternative to STAT 230. As such, STAT 205 <i>Introduction to Mathematical Statistics</i> should be accepted in addition to STAT 230 <i>Introductory Statistics</i> for Data Science minors.</p> <p>COSC 301 and DATA 301 used to be cross-listed. COSC 301 (3) <i>Introduction to Data Analytics</i> is intended to be a more rigorous version of DATA 301 and provides an alternate and more appropriate pathway through the DATA minor for COSC majors.</p> | |



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| <p>Proposed Academic Calendar Entry:</p> <p>Data Science</p> <p>The Minor in Data Science provides advanced numeracy skills to majors in disciplines where new discoveries rely increasingly on the creation, management, and understanding of large data sets such as biology, chemistry, economics, and psychology. Due to the similarity of the content areas, students majoring in Statistics are not permitted to pursue a Minor in Data Science.</p> <p>Students may earn a minor in data science by completing 30 credits^{1,2} as follows:</p> <ul style="list-style-type: none"> • 3 credits of DATA 101 • 3 credits of STAT 230 or STAT 205 • Up to 6 credits from: MATH 100, 101, 200, 221; COSC 111, 121, 221, 222; ECON 102; APSC 177; BIOL 202; PSYO 373; APSC 254 • 3 credits of DATA 301 or COSC 301 • 3 credits of DATA 311 • 12 upper-level credits from the following¹: <ul style="list-style-type: none"> • upper-level DATA courses; • a maximum of 3 credits from²: COSC 304, 322, 329, 344, 421; • a maximum of 6 credits from: STAT 303, 401. <p>¹ Students in a major/minor are permitted to double count a limited number of credits between the two fields of study</p> | <p>Draft Academic Calendar URL: https://draft-content-okanagan-bezdfny-6hlqu3vk3sihm.ca-1.platformsh.site/faculties-schools-and-colleges/faculty-science/bachelor-science-programs/minor-programs</p> <p>Present Academic Calendar Entry:</p> <p>Data Science</p> <p>The Minor in Data Science provides advanced numeracy skills to majors in disciplines where new discoveries rely increasingly on the creation, management, and understanding of large data sets such as biology, chemistry, economics, and psychology. Due to the similarity of the content areas, students majoring in Statistics are not permitted to pursue a Minor in Data Science.</p> <p>Students may earn a minor in data science by completing 30 credits^{1,2} as follows:</p> <ul style="list-style-type: none"> • 3 credits of DATA 101 • 3 credits of STAT 230 • Up to 6 credits from: MATH 100, 101, 200, 221; COSC 111, 121, 221, 222; ECON 102; APSC 177; BIOL 202; PSYO 373; APSC 254 • 3 credits of DATA 301 • 3 credits of DATA 311 • 12 upper-level credits from the following¹: <ul style="list-style-type: none"> • upper-level DATA courses; • a maximum of 3 credits from²: COSC 304, 322, 329, 344, 421; • a maximum of 6 credits from: STAT 303, 401. <p>¹ Students in a major/minor are permitted to double count a limited number of credits between the two fields of study</p> |
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| <p>(see Double Counting of Credits in Honours, Majors, and Minors).</p> <p>² The 18 upper-level credits must be in a discipline different from the student's major (with the exception of double counted credits).</p> | <p>(see Double Counting of Credits in Honours, Majors, and Minors).</p> <p>² The 18 upper-level credits must be in a discipline different from the student's major.</p> |
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UBC Okanagan Interior Salishan Studies Centre “ISSC” PROPOSAL

In accord with [UBC Okanagan Senate Policy O-5.1 \(on Research Centres & Research Institutes\)](#), this is a proposal to create a new research centre at UBCO focusing on teaching and research in contemporary Interior Salishan studies, with a particular focus on language learning and language revitalization¹. The Centre will be a hub supporting the students, community partners, and faculty working on the Interior Salishan Languages initiative, and the associated language degrees and language-led research. This proposal has been recommended by the Head of Community, Culture, and Global Studies and approved by the Dean of the Faculty of Arts and Social Sciences (FASS), with the expectation that it be housed there.

Mandate and Rationale

In recent years every high-level planning and strategic document developed at UBC Okanagan, and the UBC system as a whole, has highlighted constructive engagement of Indigenous communities as a high-level priority. Shaping UBC’s next century: Strategic Plan 2018–2028 identifies Indigenous engagement as an ongoing commitment, and one of five themes with transformative potential within the plan. UBC’s aspirations are also reflected explicitly in one of the ten goals that making up our “promise” to stakeholders – that is we commit to “Partner with Indigenous communities on and off campus to address the legacy of colonialism and to co-develop knowledge and relationships”. The creation of CCISS offers opportunities to lever existing strengths on the Okanagan campus, especially recent efforts to partner with communities to develop Indigenous Language Fluency programming. It will be a platform through which we can shape our approach to the Indigenous communities with whom we interact, consistent protocols and practices that are informed by the territory we inhabit – that is unceded Syilx territory. The Syilx, a nation itself embedded in wider Salishan civilization, have been partners with UBC Okanagan since our inception.

Consistent with our approach to Indigenous Studies on the UBC Okanagan Campus, we are working out from the land we are guests on, in widening concentric circles to region, national, and international Indigenous communities. Salishan territories are now complexly inhabited by people of many nations (both Indigenous and not), and controlled by two colonial powers. Salishan nations, including the Syilx-Okanagan, are thus embedded in several sorts of relationships, and responsible for those relations. For example, the Urban Aboriginal communities in the Okanagan matter, and form part of a contemporary Salishan research agenda as a matter of both protocol and practical necessity. The ISSC is committed to delving into Salishan knowledge as a resource for shaping intra-Indigenous relationships in this place, as well as settler / Indigenous relationships. Strongly rooted

¹ Development of this proposal has been undertaken by several colleagues over the course of a number of years. The conversations have been led by Dr. Jeannette Armstrong, and all three of the last Heads of CCGS have taken part, as has the Indigenous Studies program caucus. In addition, a consultation process led by Dr. Armstrong engaged three formal meetings with Interior Salishan students, scholars, and community experts from across the Southern Interior of BC over the course of the last half of 2022 and the first half of 2023.

in Syilx knowledge and tradition, the interactions supported by ISSC will grow and connect with all peoples on this territory as well as related and adjacent Salishan groups. For all intents and practical purposes this network will parallel that of UBC Okanagan, and we will all thrive as a result.

This initiative builds on recent commitments on the part of UBC Okanagan to the Truth and Reconciliation Commission's calls to action; one key UBC Okanagan commitment is in proactive support of Indigenous Language Fluency/Proficiency programming. For many of the Indigenous languages in what is now BC, the language loss has reached catastrophe proportions, and in many contexts efforts have moved from language revitalization to language recovery and even reclamation. The numbers of first language speakers so vital to many language acquisition pedagogies are in rapid decline, and cohorts of emerging speakers now struggle to find language teachers. While efforts across the K-12 and post-secondary systems are intensifying, the contemporary context has people scrambling.

In April of 2018, a document entitled "Proposal for an Indigenous Language Proficiency Degree Framework" was submitted to the Province of British Columbia to the Ministry of Advanced Education on behalf of a Province wide consortium of Public Post-Secondary Institutions (PPSIs) partnered with the First Nations Education Steering Committee and the Indigenous and Adult Higher Learning Association. That proposal was the culmination of several years of work to articulate how post-secondary institutions might better assist Indigenous communities struggling to maintain their languages, and then to create a consensus on how nested certificates, diplomas, and degrees could be linked across the Province, and provide the best possible eco-system for Indigenous communities to work with allies to protect and restore their linguistic heritage.

The framework was based on work going back decades, and on a set of principles laid out in a partnership agreement. There is a fundamental acknowledgement of the communities' ownership of their languages, and the central role of communities in any revitalization effort. There is also a commitment on the part of the PPSIs involved to share resources when possible, and to support communities and their institutions through ongoing partnerships. Although language content will vary, the framework sets out a common structure, where language intensive curricula are offered through community institutions in the first two years (a certificate and diploma), with the PPSIs then responsible for offering the final two years of the degree, and collaborating with communities to mount language intensive courses within those final years.

The BNLF commenced in August of 2021, and is the first Indigenous Language Fluency (Proficiency) Degree (ILF/PD) in the Country, and built on the provincial framework. The degree emphasizes immersion-based language learning and community engaged partnerships for Indigenous language revitalization. It is a block-transfer program; the Department of Community, Culture and Global Studies provides the third and fourth year of the four-year degree program. Admission is based on previous completion of a two-year Diploma of Nsyilxcn Language Fluency at the Nicola Valley

Institute of Technology. Students take intensive immersion language courses, language courses focused on domain specific language acquisition, language informed culture courses, and language revitalization courses. The curricula are highly structured, and language specific. This initial degree has since been followed by two new parallel degrees – the Bachelor of Nt̓əkepmx Language Fluency and Bachelor of St'át'imc Language Fluency degree programs.

We anticipate an additional degree will be forged with other Interior Salishan speaking Nation in the next 3 to 5 years, and are building towards an integrated Salishan language instruction ecosystem. ISSC will house the UBC node within this ecosystem, facilitative language learning and providing a space for overlapping cohorts of Interior Salishan language learners.

ISSC will also be a space co-locating Indigenous graduate students, as well as students entering the newly developed “Indigenous Knowledges” Interdisciplinary Graduate Studies (IGS) theme. The theme will foster research and training to support Indigenous communities' efforts to maintain, revitalize, and/or recover their languages, cultures, and world views. Again, consistent with UBC Okanagan's relationship with the traditional territory holders of the Okanagan – the Syilx Nation, the theme participants start with a commitment to the local and regional lands and communities, with an inclusionary ethos open to, and supportive of, work with other Indigenous communities. While the program is not exclusive to Indigenous faculty and graduate students, the primary intention is to privilege research and research practices that serve Indigenous Communities, centralizing Indigenous Knowledges, supporting the development of Indigenous learners, and enhancing community capacity. In privileging Indigenous Peoples and their experiences, the IK theme recognizes that indigenous scholars are best-equipped to direct IK research into the future. The theme draws on the expertise of Indigenous and allied scholars from across UBC, and supports that community, providing a web of relationships supporting an interdisciplinary network of Indigenous scholars and students.

Organization and Management Plan for the Centre

The ISSC will facilitate and support the teaching of the Interior Salishan language degrees as appropriate; support students in the Indigenous Knowledges IGS Theme; support Indigenous research students (both senior undergraduate and graduate) via a shared student's space co-located with the Centre; house visiting Indigenous community members and scholars; provide a central gathering and work space for Indigenous and Indigenous Studies faculty members, and support Indigenous research and graduate studies related staff.

UBC Okanagan Senate Policy O-5.1 on Research Centres & Research Institutes outlines the procedures for establishing research centres and institutes at UBC Okanagan.

The Centre will be based in FASS. The Centre will have a theme-based research mandate, and its work will complement and help supplement already established teaching programs and courses.

Note, as per O-5.1 (and indeed the [University Act](#) of BC), the Centre will not offer courses as such; these are mounted by FASS.

The Centre will be led by a founding Director (drawn from the professoriate at UBC Okanagan, and serving for a three-year renewable term) appointed by and reporting to the Dean of the FASS. A broadly-based community advisory board will be formed after further consultation with the UBC Okanagan and wider communities.

The Centre will be home to UBC faculty members and community members working on research topics connected to Interior Salishan language and culture and related topics. All UBC teaching and support staff in the Interior Salishan Languages programs will be members of the Centre. Other University staff members will be appointed as affiliates through a process to be determined by the Director in consultation with the Dean. A process for inviting community and non-UBC colleagues as affiliates in the Centre will be determined by the Director in consultation with the Dean. In addition, the community advisory board will be invited to provide advice and support as the Centre develops. Additional formal appointments of community colleagues (e.g. through [AP4 - Faculty Term Appointments Without Review](#)) as per will be made through usual avenues in relevant academic units as appropriate. The first scheduled review of the Centre by the Dean of the Faculty of Arts and Social Sciences will take place five years after the Centre's initial approval.

Resources and Supports

Potential funding sources for the Centre will include sources that are both internal to and external to the University. A donation of \$25,000 per annum for three years (2024-2027) was recently received to support administrative support for the incoming Director: an appropriate teaching load reduction for the Director will be supported by the Faculty/Department. Space and facilities have been designated in the new XSS (x̣əl sic snp̣əx̣nwix̣ʷtn) Building' discussions around a significant CFI grant application specific to the Interior Salishan Languages Initiative are under way.

2023 Okanagan Library Report to Senate

Robert Janke
Interim Chief Librarian
The University of British Columbia, Okanagan Campus
Report Period: January 1, 2023 – December 31, 2023

The Okanagan Library prides itself on being an inclusive space, a service-focused team, and a nexus of scholarly engagement. A proactive campus leader, our Library advances research, learning, and teaching excellence by connecting communities, within and beyond the University, to the world's knowledge.

In the summer of 2023 the Provost and Vice-President, at UBC's Okanagan campus and University Librarian began the search for a Deputy University Librarian, Okanagan Campus. Candidates were interviewed late in the year and it is anticipated that an announcement regarding the next leader of the Okanagan Library will be made in early 2024.

In 2023, the Library also completed its staff-wide engagement to help define the Library's strategic actions. The result was an updated strategic framework, mapping priorities and projects to broader campus and institutional directions. The primary themes that inform our work include: equity and inclusion, wellness, service, and scholarly engagement. This framework demonstrates and reaffirms the Library's integral campus role related to: **Teaching and Learning, Discovery and Research, Campus and Community, and Spaces and Collections.**

Teaching and Learning

The Okanagan Library is integrated in transformative teaching and learning efforts, providing essential services, spaces, and resources for student success.

Providing Outstanding Library Reference Services

The Okanagan Library has two primary service points: the campus Library's single service desk and the Special Collections service desk located in The Commons. Both locations offer walk-up and appointment-based reference services. Library staff also respond to email questions and answer queries via Ask Away, the Library's virtual chat platform. Professional librarians provide in-depth research consultations to students and faculty onsite and online (e.g., Zoom). Community users can also access most UBC resources through dedicated terminals in the Library.

Information Literacy Initiatives

During the period covered by this report, librarians taught nearly 200 online, in person, or hybrid learning sessions. Topics ranged from subject-specific information search and retrieval strategies to sessions on copyright, scholarly communication and publishing, research data management, performing systematic and literature reviews, critical evaluation of information, and effective integration of published research into academic writing, including appropriate use of citation styles. Additional highlights from the past year include:

- A digital toolkit workshop delivered in collaboration with colleagues on the Vancouver campus (e.g., Introduction to Podcasting, Digital Exhibits, etc.).
- Multiple sessions tailored to conducting Indigenous research at the UBCO Library to support the curriculum and to assist community researchers from the BC Metis Federation.
- Orientation sessions for students enrolled in the three Interior Salishan Language Fluency programs (BNLF, BNLEK, BSTAT).

Student Learning Hub

Writing and Language Appointments

2023 proved to be another year of growth for the Student Learning Hub (SLH). Appointment numbers for this year reflect a steady increase with 1,213 appointments compared to 1,125 appointments held the year prior. With 147 tutoring hours, French and Spanish support remained consistent with the previous year. Although most appointments are now in-person, we continue to ensure that online appointments are available for students as this practice increases accessibility.

Following the positive response in Summer 2022, writing and language support was offered again in Summer I & II 2023. Spanish, writing, and Academic Integrity Matters appointments were available throughout the term, and the SLH provided 119 hours of support in total. Summer support consisted of 65 writing appointments, 51 AIM appointments, and 3 Spanish appointments.

Academic Integrity Matters (AIM) Program

To reach more students and gather feedback about the current AIM Canvas courses, the two courses were shared widely with instructors to use in their classes at the beginning of Winter Term 1. During the term, 776 students enrolled in the Unauthorized Collaboration and Cheating Canvas course and 1378 students in the Writing and Plagiarism course, resulting in 2,154 students taking an AIM course as part of their classes. Students shared feedback on their experiences taking the AIM courses, highlighting that they felt the courses “clarified previous half-knowledge [they were] relying on,” “helped clear up any lack of information [they] had,” and were “very valuable” because they “may have otherwise not learned this much about academic integrity.”

The proactive measures have had an impact as referrals to AIM decreased by approximately 35% (a decrease of 69 referrals) in 2023 compared to the previous year. However, there is clearly still a need for the referral program as AIM received 127 referrals, with 112 of these students successfully completing the program (10 not completed; 5 still in progress). Ninety four students were referred for issues regarding plagiarism, while 33 were referred for cheating, collusion, or other forms of academic misconduct. AIM consultants offered personalized guidance to students during 192 meetings in 2023.

In February 2023, AIM ran two initiatives to contribute to a culture of integrity on campus. First, AIM ran a two-part campaign consisting of “Academic Integrity is everyone’s responsibility” posters and matching content for digital screens around campus and in the Library—the posters and digital content in the Library remain up. The second initiative was Academic Integrity Valentines, consisting of 7 integrity-themed valentine cards to share with friends and colleagues and a tabling event on Valentine’s Day to hand out the cards, some candy, and information about the AIM program.

In response to the growing interest in Generative AI, the AIM program embedded information and quiz questions in the current Canvas courses to address best practices for students in maintaining academic integrity in the era of Generative AI. Work continues to expand the new content into a stand-alone Canvas course which should be released in September 2024.

Based on recommendations from the Academic Integrity Implementation Group (AIAG), the Academic Integrity Facilitator developed the Academic Integrity Student Advisory Group (AISAG), first meeting in October 2023, with the goal of recruiting students to discuss existing and emerging priorities in academic integrity from a student perspective on behalf of UBC Okanagan students. The AISAG is chaired by the Academic Integrity Assistant (a new graduate student position for the program) and will produce a report

with recommendations by Spring 2024.

In October 2023, the AIM program also participated in planning and co-hosting the BC Academic Integrity Network's BCAI Day along with UBC Vancouver colleagues. The virtual 1-day conference had sessions around academic integrity research in BC, Generative AI, and students as partners in academic integrity.

Also, during the Academic Integrity Awareness week in October, AIM ran its second "thank you for your integrity" event, providing information on academic integrity and the AIM program, "thank you for your integrity" bookmarks, and free hot drinks and snacks to students, as well as giving away several "Integri-kitty" tote bags.

SLH Events

In Spring and early Summer 2023, Senior Writing/AIM Consultant Stephanie Awotwi-Pratt developed Writing While Black (WWB), a writing community with the purpose of connecting and empowering Black writers at UBCO. By providing a space where Black writers can freely explore, express, and cultivate their writing potential, WWB's goal is to build community, inspire confidence, and amplify the voices of Black writers at UBCO. A webpage, messaging for digital screens, and information cards were shared with the campus starting in August 2023, with 16 sign-ups and 3 meetings thus far.

We have continued to offer Back to Basics (B2B) and Exam Jam programming through 2023. In 2023, Back to Basics was scheduled to run during Jumpstart. However, due to the wildfires in the Kelowna area Jumpstart and Back to Basics were cancelled. As this content was created and adapted for in-person, online, and asynchronous delivery options, we were able to pivot and ensure that the recordings were available for students. Exam Jam was held as 2 events, with 'Midterm Motivation' held in October and 'Finals Focus' held at the end of term. Overall, 187 students attended Exam Jam and 17 stayed to work with writing tutors during these events.

To encourage student interaction with the SLH, the Coordinator created a series of new engagement opportunities throughout the term. During Weeks of Welcome, the SLH engaged with 629 students over two days just outside the entry to the Hub space to raise awareness of the Hub's location and how to book appointments. This was a 47% increase from September 2022. For Winter Orientation the SLH held an open house with hot drinks and treats, we had 78 students attend this event.

The SLH held "Write Advice" tables near the middle of both term 1 and 2 over 3 days in UNC, EME and FIP. The SLH interacted with 194 students at our January event, but the response to the October event was massive, with 497 student interactions. This was a 200% increase from October 2022. At the end of term in both April and December, the SLH again hosted a writing drop-in events with snacks and hot drinks. Each event saw 28 students stay in the space to work on papers with tutor support, for a total of 56 students. The SLH also partnered with faculty and community stakeholders to offer a Horror Writing Workshop as part of the Feminist Horror Festival and was able to support the Global Engagement Office with their Postcards home event.

Staff Training

In the Winter Terms of 2023/24, writing and language consultant staff meetings continued to increase focus on education regarding equity, inclusion, accessibility, anti-oppression, and decolonial, diverse, and inclusive writing practices. We have collaborated with colleagues from other areas including UBCO's Indigenous Initiatives Librarian, the Sexual Violence Prevention Office, and the Equity and Inclusion Office. Through our structured in-person and asynchronous employee development program, members of our

team gain College Reading and Learning Association (CRLA) certification. During summer 2023 we optimized our asynchronous training materials to improve their accessibility, and specifically, how well they interact with screen readers.

Open Education

UBC Library's open education services seek to support the UBC community in finding, adapting, and creating high-quality open educational resources (OERs), as well as planning and implementing innovative open education projects and open practices.

Both UBC Vancouver and Okanagan libraries play an active role in progressing open education initiatives and practices across campuses. From January 1, 2023, to December 31, 2023, UBC Library engaged in 58 consultations on open education projects, supporting faculty, students, and staff in their open practices. UBC Library organized 10 events and instructional workshops with 295 participants to build awareness and advocate for open practices and resources on campus. Sessions included topics such as "Open Carefully – Pursuing Open with an Ethics of Care" and "Indigenous Knowledges and Open Education."

UBC Okanagan Library is a partner in the development and adjudication of the Aspire-2040 Learning Transformations Funds (ALT-2040 Fund) OER stream. The ALT-2040 fund awarded two OER projects.

The UBC OER Collection, created in 2022 and developed in partnership with the UBC Centre for Teaching, Learning and Technology (CTLT), UBC Library, and UBC Okanagan Library, currently houses 90 OER developed by UBC faculty, students, and staff.

The Open Education Librarians on both the Okanagan and Vancouver campuses participate in several provincial and national committees and working groups to improve awareness, engagement, and funding potential for open education. Both Open Education Librarians at UBC participate in BCOEL, a supportive community for British Columbian librarians to learn about open education practices. Both librarians also volunteer on the Canadian Association of Research Librarians Open Education Working Group.

UBC librarians Erin Fields, Kayla Lar-Son, and Donna Langille, along with Olenna Hardie (University of British Columbia), and Ann Ludbrook (Toronto Metropolitan University) are embarking on a new collaborative research project that aims to identify gaps in the open education communities' understanding of Indigenous perspectives. Donna Langille is also working with an editorial team with other UBC members on an edited volume that focuses on centering Indigenous ways of knowing, culture, experiences, and worldviews within the work of open education pedagogy and advocacy work. The volume will be licensed under the Creative Commons Attribution-NonCommercial-NoDerivatives 4.0 International (CC BY-NC-ND 4.0) license.

Research and Discovery

The Library plays a critical role in the research enterprise, providing leadership and expertise in a growing range of services that advance all forms of scholarship.

In 2023, we focused on continuing to raise awareness of Centre for Scholarly Communication (CSC) services, expanding the variety of available supports, workshops, developing new online learning resources, and furthering growing and strengthening campus collaborations and partnerships.

Scholarly Outputs

The Library supports, collaborates, and contributes to the research enterprise of the campus, as well as the broader library, information, and archival sciences community. In 2023, our Librarians and Archivist co-authored 14 peer-reviewed journal articles, and delivered 32 sessions at conferences and symposiums across North America in-person or virtually (please see: [bibliography of 2023 research outputs](#)). These scholarly outputs emphasize the deep rooted partnerships with faculty and researchers, as well as with colleagues from across the information science field.

Centre for Scholarly Communication

Collaborations

In 2023, the CSC undertook a new collaboration with our campus partners from College of Graduate Studies (CoGS), Research Computing (RC), and Office of Research Services (ORS) to support the diversification of workshop offerings and provide new teaching opportunities for Graduate Students and Post Doctoral Fellows. CoGS provided financial support for 10 small Research Excellence Workshop Leader Initiative ([REWLI](#)) grants of \$1,050 each. The response from campus stakeholders was significant as we received 30 applications from a wide range of disciplines from across campus in a short timeframe. As a result, the CSC added 7 new and unique workshop offerings during Winter Term 1 in 2023, with additional workshops planned for Winter Term 2 in 2024.

The CSC also formed a new collaboration with the faculty lead of UBC Okanagan's new Statistics Canada Research Data Centre to offer a monthly workshop to assist students and postdoctoral fellows with accessing Statistics Canada Data for their research. This workshop was offered 8 times in 2023 and had a total of 29 attendees. This monthly workshop series will be continued in 2024.

To support collaboration among the partners (ORS, RC, and Library) and draw attention to the ways that the CSC can help researchers maximize their effectiveness, the CSC hosted weekly drop-ins in both Winter Terms. Although there has been limited attendance from faculty or students, these events are popular with members of UBCO's research support teams, and provide rich opportunities for collaboration between them.

In collaboration with the College of Graduate Studies, the CSC continues to support workshops for the [Scholarly Researching, Writing, and Publishing Credential](#). While only 4 students completed the credential in 2023 by uploading all 6 proof of attendance documents, 77 were engaged in the process in 2023.

Research Data Services

With seed funding from Research Computing followed by a successful Excellence Fund proposal, the CSC hired two additional GAAs to offer new research data services, including consultations and expanded workshops. Run as a pilot in 2023, the Research Data Hub is modelled on the success of UBCO's Writing and Language Learning Services and offers one on one consultations to support researchers with all aspects of a traditional data pipeline, including collection and analysis planning, cleaning, analyzing, and visualizing.

This service addresses a critical gap for many graduate researchers who lack strong discipline specific training or support in statistics and reproducible computational methods for working with data. With the launch of the Research Data Hub, the CSC has also been able to expand its workshop offerings, with more workshops on research centric computational tools, both for working with data (R, Python) and for managing workflows (Bash, GitHub).

Undergraduate Research Support

A collaboration between the Undergraduate Research Ambassadors and the CSC resulted in a series of Canvas modules that support undergraduate students in finding research opportunities at UBCO and communicating their research effectively. Modules include: Introduction to Undergraduate Research, Approaching Opportunities, Academic CVs, Time and Project Management, Writing a Research Proposal, Academic Integrity in Research Writing, Developing a Research Poster, Creating a Research Presentation, and Data Tools.

Starting in October 2023, the CSC received funding from the Office of the Provost to deliver monthly workshops tailored for undergraduate student researchers who are required to write a thesis as part of their honours' program. Workshop topics so far have included: Starting the Literature Review and Crafting a Research Proposal and Data Management Plan. 49 honours' thesis writers have participated so far in this initiative, with an additional three planned workshops and a thesis writers' retreat in 2024 Winter Term 2.

Instruction: Workshops, In-Class Instruction, and Self-Guided Resources

The CSC continues to support the campus through delivery of instruction designed for a wide range of research and writing projects and processes. In 2023, the CSC facilitated 70 workshops that saw 404 participants. In addition, the CSC was invited to present workshops for both the Faculty of Arts and Social Sciences and Faculty of Science for Undergraduate Research Award proposal writers in January and November 2023, as well as for the award winners' summer programming. We offered the Writers' Retreat in person this year and continued to encourage additional collaborative writing opportunities through the weekly Writing Communities; while we attempted a hybrid option based on requests from clients, the in-person uptake was so limited that we returned to online only, which is more manageable for our clients. 103 participants attended the 2023 Weekly Writing Communities. In 2023, new workshops were also developed and delivered to support learning Python, Bash, Git and GitHub.

To address the need for more postdoctoral facing workshops, we developed a new workshop called Planning and Writing Postdoctoral Applications. An additional new workshop supported researchers applying for ethics approval in collaboration with UBCO Research Ethics, with a focus on completing the informed consent form.

The Research Data Hub shifted their workshop delivery to a series-based model, allowing scaffolding of concepts over time. This included a new workshop series delivered by the Research Data Services GAAs in Winter Term 2. The series was well-attended, with a total of 100 participants. Based on attendee feedback and with strong continued interest in data research workshops, for Winter Term 1, the series model was extended to an 8-workshop offering, with additional content developed to re-enforce core computational concepts and tools. The 8-workshop series model attracted another 72 participants in Winter Term 1. For 2024 these workshops will continue and be augmented with more advanced offerings that address descriptive and inferential statistics. These workshops have all been added as eligible for the [Scholarly Researching, Writing, and Publishing Credential](#) offered by the College of Graduate Studies. Participants commented on the benefits of attending our 2023 workshops:

- “The workshop was super interactive and very informative without being condescending or overly complex.”
- “The whole workshop was a descriptive and explicit discussions about the different thesis formats, how to think about them, and resources throughout campus to helps us organize ourselves and approach the work.”
- “[The presenter] has a wonderful tone and has a wealth of knowledge and has a good way of

bringing abstract ideas into clear concise concepts!”

- “I am going to use R in my data analysis and this workshop was a great introduction to R for beginners. Also, the instructor was super helpful and provided me additional resources to understand the analyses I need.”
- “The workshop addressed a broad range of topics ... without being overwhelming... The course also did a lot to dispel my worries about working with R and gave me several valuable resources (within class, and external to the workshop going forward) that will significantly impact my ability to conduct my research.”
- “[The presenter] is an excellent teacher and facilitator and brought an enormous amount of value to the course. He is highly adaptive to the range of students/attendees in the room (especially for a drop-in style workshop), extremely knowledgeable, and willing and able to address questions on the fly.”

Research Excellence Workshop Leader Initiative (REWLI) Workshop Series

The [REWLI](#) workshop series, created with funding from the College of Graduate Studies, achieved its stated goal to increase the diversity of multidisciplinary workshops offered to researchers at UBCO. The 7 workshops offered through this initiative in 2023 saw 42 attendees in 2023.

In-Class Presentations

In addition to the many core courses that the CSC is invited to teach in every year, members of the CSC team were invited to teach in a number of courses in 2023, providing the following new workshops: Writing a Literature Review for Engineering graduate students, Writing an Annotated Bibliography for biology and biochemistry graduate students, Presentations and Report Writing for Computer Science graduate students, and supporting Indigenous undergraduate and PhD students in the Supporting Aboriginal Graduate Enhancement (SAGE) program.

Self-Guided Resources

Online resources present a vital opportunity for our campus community to engage with materials at their own pace. Our Online Learning Resources on Canvas support graduate and post-doctoral research communication. This past year’s new modules include support for attending academic conferences and preparing for a thesis defense. Current enrolment in the Canvas resources is up to 367 participants, and engagement has been consistently high with an average of 132 weekly page views in 2023.

The Research Data Hub has expanded the online resources available to students, with all workshop materials publicly hosted to support asynchronous engagement and blog posts to address common questions encountered during consultations (<https://csc-ubc-okanagan.github.io/>).

One-On-One Consultations

From the inception of the unit to today, one-on-one consultations have remained a core element of the CSC’s contribution to campus life. While we have provided writing consultations since 2012, Data consultations started in January 2023.

One-on-one writing consultations

The 2023 CSC writing consultation numbers remain consistent with the previous year: 540 consultation hours compared to 546 in 2022. Examples of just a few positive comments from writing consultations highlight the important role the CSC plays in providing research communication support:

- “[The consultant] was so helpful and went beyond my expectations as he thought deeply about

the overall message and subtle messages within my paper. His background allowed for insight on my topic, and I used his feedback in my final research submission.”

- “Another set of eyes on my work catching the subtle mistakes I missed. Also having it read from a different perspective with input on its readability was extremely useful.”
- “I really appreciate being able to schedule these appointments as it allows me to dedicate set time towards working on certain tasks.”
- “[The consultant] framed the meeting around specific concerns I had so that the meeting was able to meet my goals.”
- “How efficient and clear [the consultant] was! The information provided was straight-forward and easy to follow (despite SPSS being a daunting topic for me!).”

One-on-one data consultations

In 2023, two data consultants completed 184 one-on-one consultations. Examples of just a few positive comments from data consultations highlight the important role the CSC plays in providing research data support:

- “Having one-on-one help with bioinformatics is extremely helpful. We really lack support on campus for microbiome analysis, so [the consultant’s] knowledge and expertise make him a VERY valuable person at UBCO.”
- “[The consultant] is an incredible educator- he takes concepts that I find so difficult to understand and makes them accessible. He has a gift of teaching.”
- “[The consultant] went above and beyond, multiple times he even brought up things about my experimental design that I wouldn’t have thought of on my own.”
- “She had up-to-date information. She was so kind and patient in answering my questions.”
- “[The consultant] is great at giving feedback and explaining why or why I shouldn’t do something with my analyses that I would have never learned otherwise. He’s been an exceptional resource.”

Campus and Community

The Okanagan Library displays leadership in the establishment of partnerships with campus and community to advance the University’s strategic initiatives and take our passion and expertise outside the Library’s (sometimes virtual) walls.

In 2023, our community partnership initiatives included the British Columbia Regional Digitized History project, continued growth of the Community Scholars Program, and a community discussion about 2SLGBTQIA+ history in Kelowna. On-campus and inter-campus projects included a BC Heritage Walk, Honouring Indigenous Writers programming, a ‘Zine Fair, Orange Shirt Day crafting event, Legacy of Hope exhibit, Postcards Home, and a Technology Petting Zoo event.

British Columbia Regional Digitized History (BCRDH)

Over the course of 2023, the initiative known as [BC Regional Digitized History](#) has been regularized into the routine operations of Okanagan Special Collections and Archives (OSC). As such, it serves as the digitization and digital access module of the broader UBCO Archives program. BCRDH occupies a unique position in terms of offering a concept of and platform for “collections as a service” with respect paid to the sophisticated ownership profiles inherent to documentary heritage. Now entering its eighth year, the BCRDH model lends flexible structure and an emphasis on dynamism, community service, and student experiential learning to UBCO’s archives.

As it continues to grow in depth and breadth, highlights this year include ongoing partnership with En'owkin Centre toward the curricular service of the Bachelor of Nsyilxcn Language Fluency. In BCRDH infrastructure, this manifests as private archival collections reserved for language learners, stewarded on behalf of the source repository and according to the requests of BNLF instructors.

Additionally, in attaining a Central Okanagan Foundation grant aimed at further development of historical newspaper access for the second consecutive year, the BCRDH project is increasing its reach and recognition in the local community, and successfully communicating its value to aligned organizations.

Community Scholars Program

In 2023, UBC Library entered its third year of involvement with the Community Scholars Program (CSP). The CSP provides BC non-profits and charitable organizations with free access to academic journals and research related to their fields. Many of the 170,000 non-profits and charitable organizations in Canada are doing critical work on social issues, but most have little or no access to academic journals or research unless they are affiliated with a university. CSP provides BC organizations with access to more than 20,000 academic titles at no cost. In addition, the program provides research support, consultations with libraries, communities of practice through workshops, and journal clubs.

In 2023, UBC Library extended its MOU with SFU until March 31, 2026 (instead of year-to-year) highlighting the success of the partnership and UBC Library's commitment to community scholars for years to come.

UBC Library's Irving K. Barber Learning Centre helped launch a grant opportunity for current program participants. UBC Library awarded two Information Research Grants, valued at \$6k each, to Kiwassa Neighbourhood House and Battered Women's Support Services to support projects that foster information research and turn research into action.

BC Heritage Walk

From February 15-28, 2023, all UBCO community members were invited to participate in a BC Heritage Walk as part of BC Heritage Week and Move UBC month. Eleven stops were located between UBC Okanagan Library and the Commons for participants to learn more about Okanagan history and to explore archival materials.

Honouring Indigenous Writers: Reading and Conversation with Brian Thomas Isaac

On March 29, 2023, UBC Okanagan Library contributed to the hosting of an online reading and conversation with Brian Thomas Isaac author of *All the Quiet Places*. Brian Thomas Isaac is a Syilx author born on the Okanagan Indian Reserve near Vernon BC. *All the Quiet Places* is the story of what can happen when every adult in a person's life has been affected by colonialism; it tells of the acute separation from culture that can occur even at home in a loved familiar landscape.

Zine Fair '23

On April 12 and 13, 2023, all UBCO community members were invited to attend a zine fair hosted at Okanagan Special Collections and Archives. The two-day zine fair showcased over 50 unique zines designed by undergraduate students from UBCO's Faculty of Creative & Critical Studies. Zines are self-published booklets or magazines that can feature poems, artwork, writing, and more. All zines showcased were

deposited into Okanagan Special Collections and Archives and have a permanent place at UBCO.

Our Past, Present, and Future: Celebrating and Making 2SLGBTQIA+ History in Kelowna

On June 15, 2023, UBC Okanagan Library partnered with Kelowna Museums & Archives for a community discussion about 2SLGBTQIA+ history in Kelowna. Donna Langille, our Community Engagement Librarian hosted special guests for an evening at the Laurel Packinghouse that featured a collaborative art activity and live taping of the Okanagan QueerStory podcast.

Orange Shirt Day Crafting Event

On September 25 and 26, 2023, Indigenous Programs & Services and UBC Okanagan Library encouraged students, faculty, and staff to craft an orange paper shirt and reflect on Truth and Reconciliation. The paper shirts completed at this event were displayed around UBC's Okanagan campus to help raise awareness about Orange Shirt Day and the National Day for Truth and Reconciliation.

Legacy of Hope Foundation Exhibition | Bi-Giwen: Coming Home - Truth-Telling from the Sixties Scoop

In September and October 2023, Indigenous Programs & Services and UBC Okanagan Library worked together to present the Legacy of Hope Foundation's Bi-Giwen: Coming Home - Truth-Telling from the Sixties Scoop exhibition. All UBCO community members were encouraged to visit the exhibit that explores the experiences of Survivors of the Sixties Scoop, which began in the 1960s, where Indigenous children were taken from their families, often forcibly, and fostered and/or adopted out to non-Indigenous homes often far from their communities.

Postcards Home

As part of Global Education Week, UBC Okanagan Library collaborated with the Global Engagement Office to set up a "Postcards Home" event in the Sawchuk Family Theatre. On October 31 and November 1, students could write, stamp, and send postcards, both domestically and internationally to friends and family all around the world.

Technology Petting Zoo

In November and December 2023, UBC Okanagan Library hosted Technology Petting Zoo sessions at the Inclusive Technology Lab. UBCO students, faculty, and staff were invited to try various types of assistive technology and ergonomic equipment. The Inclusive Technology Lab assistant helped attendees learn more about this supportive environment designed to facilitate learning and research.

Records Management

In the first half of the year, enhanced records management outreach and education initiatives forecast in last year's report were completed successfully and the Records Management Building Blocks for Success workshops reached conclusion. These workshops attracted 47 members of the UBCO community. Further, early momentum was carried forward through the fall 2023 term in quarterly Records Management Community of Practice meetings, with 45 attending. Interest in Records Management support is sustained and growing on campus, with overall growth of physical boxes and digital bags in managed storage increasing by 10% during the reporting period.

In 2023, UBCO Records Management activities have been characterized by doing more with existing resources, which was accomplished through strengthening cross-campus collaborations. To meet needs, a pilot project with the Records Management Office (RMO) at UBCV has brought unit-level digital readiness more deeply into common institutional and procedural space. Engaging a graduate Worklearn student from UBC's iSchool employed by RMO and with time assigned specifically for UBCO projects has yielded valuable experiential learning opportunities while at the same time it has creatively exercised the mandate of BOG Policy GA4 by building new points of access to emerging information professionals for UBCO Library.

Spaces and Collections

The Library's resources and facilities are very much at the core of its mission, and we make every effort to be both proactive and responsive in their provision. In addition to the campus Library building, ORL@UBC, the Inclusive Technology Lab, and the downtown Innovation Library, The Commons and makerspaceUBCO, provide students with welcome locations to work, study, and connect.

Spaces

Constellation

[Constellation](#) reimagines and connects a suite of existing media and technology learning spaces at UBC Okanagan under a common framework. Although each of these spaces is unique, they share the vision of empowering learning, supporting campus-wide access, encouraging innovation and enabling creation; much like looking at a constellation rather than a single star, a broader and more enriched view of the potential for media and technology resources on campus, and their inherent interactions, appears when they are considered holistically. This centralized network offers new pathways for interaction, exploration, learning, and discovery, and offers new partnerships and collaborative opportunities for the UBC Okanagan Library.

Constellation includes the Visualization and Emerging Media Studio (VEMS, COM 107), makerspaceUBCO (EME 1256), the Sawchuk Family Theatre (COM 104), the Digital Design Lab & Sound Booth (COM 205), the Library Design & Editing Stations (Main Floor Library), Studio 123 (LIB 123) and the Loans Hub (COM 204).

A collaborative leadership approach involves the core group representing each operational unit in the Constellation; this includes UBC IT Okanagan and the Library, with adjacent support for curriculum design through the Centre for Teaching and Learning (CTL), and participation from the Provost's Office. An informal, dynamic user group made up of faculty and students with an interest in emerging media, innovative design, and experimental pedagogy will soon be formed to provide advice and feedback on, and ideas for, potential initiatives and help to inform decision-making.

makerspaceUBCO

"I had no idea that such a cool space existed on campus! I swear I feel like I've been here every day since I found out about it, there is just so much to do."

- Anonymous makerspaceUBCO user

Failure is *only* V1 became this year's unofficial motto of makerspace, exploring the concept that iterative creation is the most successful way to build in a truly innovative way. The low barrier, low-cost nature of the space ensured that experimentation and creation was uninhibited by such constraints. Students,

staff, and faculty continued to work in the ever-changing landscape of the post-COVID university life, embracing the opportunity to work creatively without the fear of failure looming over their heads. The space remained low barrier, highly accessible and saw such a renewed invigoration for making that there was a significant enough increase in daily users to warrant a physical reorganization of the space to allow for more active making to occur simultaneously.

Open for 30 hours of regular use each week, 2023 saw a significant increase in overall use of the space, as well as a shift in the intent of the enthusiastic users. The space began to see users intentionally exploring new methods, and leaning into the hands-on element that sets makerspace apart from other facilities on campus. Hosting 50+ tours and 17 special events, over 1,730 UBCO and community members experienced the space firsthand. Notable events included but are not limited to:

- Ongoing textiles series focusing on creativity for mental wellness *120+ participants*
- UBCO STEM Day cross campus experience for SD23 *700+ participants*
- Engineering open house for prospective high school students *200+ participants*
- STEM camp for young girls aged 4-10 *180+ participants*

Continuing to focus on innovative learning experiences, makerspace chose to centre efforts around the benefit of creativity within STEM. Recognizing the intimidating barrier for many women, 2SLGBTQIA+ members, disabled people, and other visible minorities to feel welcome, makerspace piloted a textiles workshop series. The series featured crochet as a tool to connect community members, create opportunity for under-represented groups to access the space, and bridge the gap between traditional STEM activities and creative application of the fine arts and traditional cultural crafts often preserved by women in society. The series was extremely well attended and will be doubled in its offering for future, including an interdisciplinary approach to blend creativity and tech by offering a 3D printing for textiles workshop. Other workshop instances included: Drones 101, 3D printing 101, movie nights and 'making after dark.'

Community in the space continued to expand in both in-person use, as well as the online community that was built to facilitate connection and foster innovation between users. The membership of this online space grew by 150% putting the count at 250 active members sharing their skillsets, requesting support, and joyously presenting their completed projects that were created in the space to their fellow peers. Informal consultations provided by staff and regular members via the online community provided an unthreatening method for new users to expand their skillsets and access the space, increasing overall accessibility.

Makerspace also continued in the journey to connect with other groups and spaces across campus, regularly hosting student clubs such as: Hackerspace, Aerospace, Motorsports, and the newly formed Textiles club. The space continues to play a pivotal role in the creation and participation of **The Constellation**, working to reimagine the perceived and potential connections between emerging technology-based spaces on campus such as VEMS, SFT and Digital Design Labs. The connections made here further strengthen the impact that users feel makerspace has in comparison to other similarly available facilities. Rather than simply dropping off a file to be made tangible for them, users can utilize a fully immersive experience starting with facilitator consultation, hands on prototyping participation, innovative iterative design process and finally ending on customized referral throughout The Constellation network. This cross-space avenue generates a more fulfilling experience through its' robust equipment access and staff expertise, allowing for the users to place the value on the journey of experimental prototyping rather than only emphasizing receipt of a finalized product with no true involvement. Expanding the variety of skillsets available for consultation and support has only increased the scope of user

skill levels able to access and benefit from the space, ensuring that it persists in becoming a welcoming and productive space.

"It's always so welcoming, there's never a project I feel like I can't make at makerspace, and everyone is always so happy to help, and no question is a waste of their time.

When I go to the space, I feel like I'm at home.

- makerspace user Josh

Sawchuk Family Theatre

The Sawchuk Family Theatre, located in the Commons (107), engages diverse audiences through the creative use and display of digital media. The theatre boasts a large video wall (16' x 9') for digital exhibits and large-scale display. This past year the software behind the wall was upgraded to make it easier for campus partners to create and share content in the space. In 2023, the most frequent users of the Sawchuk Family Theatre were Visual Arts, English and Cultural Studies courses, and Heat Athletics. Incidentally, the Theatre also serves as the gathering point and first stop on campus tours for prospective students.

Visualization and Emerging Media Studio (VEMS)

The Visualization and Emerging Media Studio, located in the Commons (104), is a multidisciplinary space encouraging digital experimentation in immersive realities and big data visualization. The room features a 40-screen 180-degree curved video wall with spatial audio. Users have access to unique hardware and software that enables dynamic 3D models, virtual reality, augmented reality, small interactive demonstrations, and decision theatre experiences. In 2023, the space was booked frequently for research projects, academic endeavours, and other technological experiments. VEMS was specifically referenced in two published IEEE papers, one about pointing performance and one about Virtual Reality.

Collections

Collections Acquisitions Budget

The Library collections budget has continued to see a flat base budget entering FY24, at \$1,400,000 CAD, while the inflation rates have continued to rise at a pace that has caused most of our vendors and suppliers to request significant renewal rates above and beyond past years. If the budget had risen alongside average inflation in Canada, the collections budget would now be closer to \$1,680,000 CAD (see Table 1). The difference of almost \$300,000 CAD significantly impacts the flexibility of acquisitions at the Okanagan Library. It is a continuous balancing of the request for new resources and the need to reassess renewals for possible cancellations to stay within budget. Efforts by all librarians were made at the start of FY24 to focus on a request-based acquisition approach for monographs and were successful in ensuring financial targets were met throughout the fiscal year. This approach to acquisitions hinders long-term prosperity and development of a strong research and teaching focused collection.

In FY24 the Okanagan Library saw minor additional funding from the President's Academic Excellence Initiative funding, which was awarded to the UBC Library on both campuses from 2022-2024. Unfortunately, the year 2 funding of \$65,000 CAD was curtailed and kept at the same \$30,000 CAD received in year 1. Without these additional funds, planned spends were reduced and resources were shelved for consideration at a future date. The same resources acquired in year 1 were renewed, with one of the resources requiring additional funding pulled from the general collections budget. We were able to support subscription access to:

- American Institute of Aeronautics and Astronautics (AIAA) selection of 4 journals and 4 archives
- Society of Automotive Engineers (SAE) current standards collection
- Ethnic Diversity Source database

Overall, the impacts from the collections budget directly affect faculty, staff, students, alumni, and community users, and the Okanagan Library will be required to continue reductions as prices for resources continue to increase. This will undoubtedly have long-lasting impacts on the campus, the university overall, and how we meet the research and instructional needs of the community.

Table 1. Inflationary Impact on a Flat Collections Budget

| Fiscal Year | Budget Received | Inflation Rate *Statista | Budget w/ Inflation Rate |
|-------------|-----------------|-----------------------------|--------------------------|
| 16/17 | \$ 1,290,000 | 1.43% | |
| 17/18 | \$ 1,350,000 | 1.60% | \$ 1,308,447.00 |
| 18/19 | \$ 1,400,000 | 2.27% | \$ 1,371,600.00 |
| 19/20 | \$ 1,400,000 | 1.95% | \$ 1,431,780.00 |
| 20/21 | \$ 1,400,000 | 0.72% | \$ 1,459,699.71 |
| 21/22 | \$ 1,400,000 | 3.40% | \$ 1,470,209.55 |
| 22/23 | \$ 1,400,000 | 6.80% | \$ 1,520,196.67 |
| 23/24 | \$ 1,400,000 | 3.62% | \$ 1,623,570.05 |
| 24/25 | | | \$ 1,682,343.28 |

Note: The inflation rate from the previous calendar year was used as a basis for calculating the following FY estimate (i.e., 2016's inflation rate of 1.43% was used to calculate the budget needed to cover inflation in FY17/18). *IMF. (October 5, 2023). Canada: Inflation rate from 1987 to 2028 (compared to the previous year) [Graph]. In Statista. Retrieved January 27, 2024, from <https://www.statista.com/statistics/271247/inflation-rate-in-canada/>

Open Access Transformative Agreements

UBC Library has prioritized open and transparent research for several years, and where possible has moved subscription-based acquisitions over to supporting open publishing models. These models ensure that author-processing charges (APC's) are levied entirely or in part from the Library's payments, removing barriers to publish open access and ensuring that researchers and students are meeting the growing emphasis placed on open research by the Tri-Council funding agencies. This frees up grant funds and ensures that our researchers and students are not paying out of pocket to disseminate their research worldwide. In 2023, the Library successfully added the following agreements to our list of open access and publishing fee discounts:

- Canadian Science Publishing – 100% APC coverage for UBC authors in 5 journals
- Public Library of Science (PLOS) – 100% APC coverage for UBC authors in all journals
- Journal of City Climate Policy and Economy – subscription collaboratively funds all authors to publish open access
- Wiley – 100% APC coverage for UBC authors in hybrid journals

For a complete list please visit: <https://scholcomm.ubc.ca/open-access-publisher-discounts/>

R.S. Sargant Indigenous Collection from Richard Ingram

Throughout 2023 we have been able to acquire an additional 80 items focused on Indigenous peoples and topics for the collection with the funds generously donated to the Okanagan Library by Richard Ingram. The materials acquired directly support the various language fluency programs and work to share the local Indigenous histories and stories told by authors from the Okanagan region. As funds allow, materials looking at Indigenous topics more broadly are also selected.

Specifically in 2023, these funds were also used to acquire copies of *Moon of the Crusted Snow*, the *Reconciliation Manifesto*, and *Unsettling Canada* that were used to create book club kits that are loanable to all Library users.

UBC Okanagan Special Collections and Archives

Teaching and learning

In 2023, Okanagan Special Collections has sustained engagement with students, faculty, and our surrounding community by mobilizing a sense of place and enhancing relationality with local literatures.

Fourth Annual Sharon Thesen Lecture

Toward building connections between local authors and the Okanagan-centric collecting impulses of OSC, the Corbishley Family Reading Room was the location of the 2023 Sharon Thesen Lecture, hosted by UBCO Professor Emerita Nancy Holmes and entitled "[When We Were Both Clothed Alike: Conversation Poetics](#)." The event attracted approximately 30 in-person participants, as well 50 who joined by Zoom.

Theytus Books Exhibition

Theytus Books, located at the Penticton Indian Reserve and operated in partnership with the En'owkin Centre, is Canada's first and oldest Indigenous publishing house. Okanagan Special Collections stewards a near-comprehensive collection of its outputs and curated [an exhibition](#) of over 100 items to coincide with both BC Heritage Week and UBC's Honouring Indigenous Writers month.

Digitization, Discovery, Access

This year, the [BC Regional Digitized History](#) initiative further merged with the Special Collections and Archival program. Growing from 105,000 to 128,000 discrete items in 2023, areas of development included building greater access to regional historical newspapers. OSC broadened its content in the portal among community partners which in 2023 grew to 50. OSC's accomplishments include the addition of 1000 issues of the *Kelowna Courier* and over 600 digitized images pertaining to Penticton, B.C. Intracampus collaborations were realized with the inclusion of materials held by UBCO's [SoundBox collection](#) which overlaps with OSC's Baird-Bowering Collection.

Archival Program Evolution

In compliance with [UBC BoG Policy GA4 \(Records Management\)](#) several collections of institutional origin were accessioned into a new module of UBCO's archival program at the conclusion of their planned retention in 2023. Spanning both physical and digital records, and including audiovisual and photographic evidence in addition to text, the documentary traces of fourteen departments and units dating to the creation of UBCO in 2005 have now been committed to ongoing preservation, arrangement, and interpretive workflows which will ensure the cultivation of a campus narrative which will be of increasing value leading into UBC Okanagan's 20th anniversary in 2025, and beyond.

Collecting Initiatives

2023 saw the continuation of the efforts of the BC Wine Territory Memory Project. The results of this focus, now termed the BC Wine Archive at Okanagan Special Collections, further expand and represent a portion of 2023 acquisitions. Highlights in overall 2023 acquisitions, which were appraised in aggregate at over \$130,000, include:

Chefs About Town Video Fonds

(38 Umatic cassettes, ca. 1988-1994). The archive consists of cable access television programs, the majority of which captured on-location footage of Okanagan wine production, research, and appreciation at a key pivot point in Okanagan wine history.

Adam Jones Photographic Fonds

(~25,000 digital photographs). Donated by UBCO Political Science professor, Dr. Adam Jones. The fonds consists of the photographic capture that informed Jones' seminal textbook *Genocide: A comprehensive introduction*.



25 April 2024

To: Okanagan Senate

From: Rella Ng, Registrar

Re: 2024 Okanagan Student Senate and Board of Governors Elections

Set out below are the results to-date of the 2024 Student Senate and Board of Governors Elections.

Student Representative of a Faculty to the Senate

Pursuant to Section 15 of the *University Act*, the following students are acclaimed as elected as representatives of the Faculties on the Okanagan Senate for terms beginning 1 April 2024 and ending 31 March 2025 and thereafter until successors are elected:

- Himmat Dhadli, Faculty of Applied Science
- Olivia Lai, Faculty of Arts and Social Sciences
- Owen Howk, Faculty of Creative and Critical Studies
- Pavan Mann, Faculty of Management
- Lisa Yanagi, Faculty of Science

Additionally, pursuant to Section 16 of the *University Act*, the following student is elected as representative of a Faculty on the Okanagan Senate for a term beginning 1 April 2024 and ending 31 March 2025 and thereafter until a successor is elected:

- Ashmeet Mand, Faculty of Health and Social Development

N.B. the Education student senator's term runs from 1 October 2023 to 30 September 2024.

Graduate Student Representative to the Senate

Pursuant to Section 15 of the *University Act*, the following student is acclaimed as elected as graduate student representative on the Okanagan Senate for a term beginning 1 April 2024 and ending 31 March 2025 and thereafter until a successor is elected:

- Amanda Shatzko (Continuing)

Polls were conducted 15-22 April 2024 for the second graduate student representative to the Senate. Results were not available at the time this report was generated.



Student Representative At-Large to the Senate

Pursuant to Section 15 of the *University Act*, the following students are acclaimed as elected as representatives at-large on the Okanagan Senate for terms beginning 1 April 2024 and ending 31 March 2025 and thereafter until successors are elected:

- Saami Hafeez (Continuing)
- Richard Lessan
- Toluwanimi Okunola
- Ayanfeoluwa “Paul” Oladokun
- Dilpreet Samra
- Hai Tong (Jacky) Wang

Student Representative to the Board of Governors

Pursuant to Section 16 of the *University Act*, the following student is elected as representative of students on the Board of Governors for a term beginning 1 April 2024 and ending 31 March 2025 and thereafter until a successor is elected:

- Abby Newman*

*Upon declaration of their election to the Board of Governors, the successful candidate resigned from the position. As required by the *University Act*, a by-election to fill the vacancy was held, and polls were conducted 15-22 April 2024. Results were not available at the time this report was generated.