



UNDERGRADUATE EDUCATION COMMITTEE (UEC) MEETING
October 29, 2021 - 10:00 AM
A225

AGENDA

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Page

**1. APPROVAL OF THE AGENDA**

**2. APPROVAL OF UEC MINUTES**

3 - 5      **2.1. UEC draft minutes: October 1, 2021**

MOTION: To approve the draft minutes as presented.

**3. COURSES AND PROGRAMS**

6 - 17      **3.1. Teacher Education**  
Review with changes including prerequisites: EDUC 481, 482, 483

MOTION: To approve the EDUC course outlines as presented.

18 -      **3.2. Chemistry**  
27      Change to program requirements: Chemistry Honours  
         Change to program requirements: Chemistry major

MOTION: To approve the changes to the Chemistry Honours as presented, effective May 2022.

MOTION: To approve the changes to the Chemistry major as presented, effective May 2022.

28 -      **3.3. Physics**  
31      Change to program requirements: Physics major

MOTION: To approve the changes to the Physics major program requirements as presented, effective May 2022.

**4. OTHER BUSINESS/DISCUSSION ITEMS**

32      **4.1. Academic calendar changes and deadlines**

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**4.2. APPC report**

**4.3. Senate report**

**4.4. Senate Teaching and Learning Committee report**

**4.5. Policy Subcommittee report**

**5. INFORMATION ITEMS**

**5.1. Minor course changes** (outlines will be available at  
[www.ufv.ca/calendar/courseoutlines](http://www.ufv.ca/calendar/courseoutlines))  
GEOG 130

**6. ADJOURNMENT**



## **UNDERGRADUATE EDUCATION COMMITTEE (UEC) MEETING**

October 1, 2021  
10:00 AM - A225  
Abbotsford Campus

### **DRAFT MINUTES**

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**PRESENT:** Ian Affleck, Adrianna Bakos, Jennifer Browne, Claire Carolan, Claire Hay, Nicholas Johnson, Amber Johnston, David Johnston, Gilmour Joep, Selena Karli, Randy Kelley, Dana Landry, Theresa Mulder, Sarbjot Nijjar, Linda Pardy, Samantha Patridge, Vanessa Radzimski, Ravneet Sohal, Shelley Stefan, and Sven Van de Wetering  
**ABSENT:** Vlad Dvoracek, Shirley Hardman, Carl Janzen, David McGuire, and Elaine Newman  
**GUESTS:** Zoe Dennison, Sarah Graham, Bobby Jaswal, Zina Lee, Marlene Murray, Christina Neigel, Christine Slavik  
**RECORDER:** Amanda Grimson

#### **1. APPROVAL OF THE AGENDA**

#### **2. APPROVAL OF UEC MINUTES**

##### **2.1. UEC draft minutes: September 8, 2021**

**MOTION:**

To approve the draft minutes as presented.

CARRIED

#### **3. COURSES AND PROGRAMS**

##### **3.1. Criminology and Criminal Justice**

Change to prerequisites: CRIM 281

There was some discussion regarding external evaluators for practicums. Zina Lee (Director, School of Criminology and Criminal Justice) clarified that the Career Development Coordinator meets with all site supervisors to ensure they have the skills necessary to evaluate students.

**MOTION:**

To approve the CRIM 281 course outline as presented.

CARRIED

##### **3.2. Child, Youth, and Family Studies**

Review with changes including prerequisites and corequisites: ECE 123, 124

Review with changes including corequisites: ECE 125

Review with changes including title, prerequisites, and corequisites: ECE 213

**MOTION:**

To approve the ECE course outlines as recommended.

CARRIED

**3.3. Information Studies**

Review with changes including title, pre/corequisites, and total hours: LIBT 130, 135, 220

Review with changes including pre/corequisites, and total hours: LIBT 162

Review with changes including title and total hours: LIBT 230

**MOTION:**

To approve the LIBT course outlines as amended:

- LIBT 135 outcome #5: "resources" changed to "library resources that are".
- LIBT 162 evaluation: assignments changed to 100%, which will be for approximately 10 site visit reports.
- LIBT 220 outcome #4 changed to "Create a basic and searchable library catalogue using appropriate library software and basic database design".
- LIBT 230 outcome #5 split into "Develop library programs for children" and "Evaluate library programs for children".

CARRIED

**3.4. Psychology**

Review with changes including prerequisites: PSYC 110

**MOTION:**

To approve the PSYC 110 course outline as amended:

- Prerequisites: MATH 084 and MATH 085 minimum grades should be C- rather than C.

CARRIED

**4. OTHER BUSINESS/DISCUSSION ITEMS****4.1. UEC Admissions Subcommittee revisions**

Revisions to the Admissions Subcommittee were presented. Department Heads should be made aware that this subcommittee is available for consultation, ideally prior to Faculty Council. The Procedures for Undergraduate Program and Course Approval should also be updated to indicate that this subcommittee should be consulted on changes to admission requirements.

- Associate Registrar, Admissions and Recruitment: Sarah Graham
- University Registrar or designate: David Johnston
- Two UEC members from the faculty complement: Amber Johnston, Vanessa Radzimski
- One from International Education: *vacant*
- One Associate Dean: Ian Affleck
- Two additional members, including at least one Academic or Program Advisor: Claire Hay, *vacant*
- Manager of Admissions (non-voting): Daniel Goertz

**MOTION:**

That UEC approve the revised Terms of Reference for the UEC Admissions Subcommittee as presented.

CARRIED

**4.2. UEC subcommittee vacancies**

- Policy Subcommittee
- Transfer Credit Subcommittee

The Policy Subcommittee has a vacancy for one UEC faculty member, and the Transfer Credit Subcommittee has a vacancy for one faculty member.

**4.3. Calendar deadlines**

Details regarding calendar deadlines will be available for the next UEC meeting.

**4.4. Policy Subcommittee report**

This committee has not met recently.

**4.5. APPC report**

A major in Communications is in the initial approval stages.

**4.6. Senate report**

The changes to the Certified Dental Assistant certificate were approved. Senate also discussed a proposal to change the Faculty of Access and Continuing Education (FACE) to the Faculty of Education, Community, and Human Development (FECHD).

**4.7. Senate Teaching and Learning Committee report**

This committee has not met recently.

**4.8. Virtual/hybrid options for meetings**

UEC functions best face-to-face whenever possible, but virtual participation will be available as needed. Subcommittees can typically meet virtually.

**5. INFORMATION ITEMS****5.1. Minor course changes:** ECE 223, 224, 282**5.2. Official undergraduate course outline form** (revised Sept. 8, 2021)**5.3. Revised templates for new degree proposals****5.4. Trades**

Harmonization: Automotive Collision Repair and Refinishing Technician

**5.5. Program suspension:** Automation and Robotics Technician diploma**6. ADJOURNMENT**

The meeting was adjourned at 11:20 am.

**Memo for Course Changes**

To: Dr. Tracy Ryder-Glass

From: Dr. Vandy Britton, Department Head, Teacher Education

Date: May 21, 2021

**Subject: Proposal for revision of EDUC 481: Special Topics in K-12 Education I**

1. Summary of changes (select all that apply):

- ☐ Six-year review
- ☐ Number and/or course code
- ☐ Credits and/or total hours
- ☐ Title
- ☒ Calendar description
- ☒ Prerequisites and/or co-requisites
- ☐ Frequency of course offering
- ☐ Learning outcomes
- ☐ Delivery methods and/or texts and resource materials
- ☐ PLAR options, grading system, and/or evaluation methods
- ☐ Discontinuation of course
- ☐ Other – Please specify:

2. Rationale for change: This course was originally designed to be taught in the TED's (now defunct) Summer Institute in Teacher Education (SITE). As this is a Special Topics course, we would like to allow both current BEd students and certified K-12 teachers to be able to take this course.

3. If there are substantial changes to the learning outcomes, explain how they align with the learning outcomes of the program(s): n/a

4. Is this course required by any program beyond the discipline? If so, how will this change affect that program or programs? No.

5. Which program areas have been consulted about the change(s)? N/A

6. What consideration has been given to indigenizing the curriculum?

Instructors would include literature and current research from Indigenous scholars. As well, wherever possible, Indigenous pedagogy and Ways of Knowing would be utilized, with support from local Elders and experts.

7. If this course is not eligible for PLAR, explain why: As courses in Teacher Education are answerable to outside governing bodies, at present, no courses are eligible.

8. If any of the following items on the official course outline have changed, explain how the change will affect the budget for your area or any other area:

- a. Credit value – n/a
- b. Class size limit – n/a

- c. Frequency of offering – n/a
- d. Resources required (labs, equipment) – n/a
- 9. Are field trips required for this course? (Field trip requirements must be announced in the timetable.) How are the trips funded? No
- 10. Estimate of the typical costs for this course, including textbooks and other materials: \$100.

**CWC comment and response:**

See EDUC 483 memo.



ORIGINAL COURSE IMPLEMENTATION DATE: July 2016  
 REVISED COURSE IMPLEMENTATION DATE: May 2022  
 COURSE TO BE REVIEWED: (six years after UEC approval) October 2027  
 Course outline form version: 09/15/14

## OFFICIAL UNDERGRADUATE COURSE OUTLINE FORM

**Note: The University reserves the right to amend course outlines as needed without notice.**

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |   |                              |   |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                              |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|------------------------------|---|------------------|--|------------------------|--|--------------------------------------------|--|----------------------------|--|----------------------|--|--------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>Course Code and Number:</b> EDUC 481                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |           | <b>Number of Credits:</b> 1 <a href="#">Course credit policy (105)</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                           |   |                              |   |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                              |  |
| <b>Course Full Title:</b> Special Topics in K-12 Education I                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |   |                              |   |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                              |  |
| <b>Course Short Title (if title exceeds 30 characters):</b> Special Topics I                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |   |                              |   |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                              |  |
| <b>Faculty:</b> Faculty of Professional Studies                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |           | <b>Department (or program if no department):</b> Teacher Education                                                                                                                                                                                                                                                                                                                                                                                                                                                               |   |                              |   |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                              |  |
| <b>Calendar Description:</b><br><p>Varies depending on the interests of the faculty member and the relevant issues in education in BC. Explores topics that are either not addressed in other UFV Bachelor of Education courses or expands in more depth on relevant topics for practicing teachers.</p> <p>Note: This course will be offered under different letter designations (e.g. C-Z) representing different topics. This course may be repeated for credit provided the letter designation differs. Possible topics denoted by letter designations include EDUC 481C (Differentiated Instruction), EDUC 481D (Literacy in the Urban Classroom), and EDUC 481E (Lab Science in the Elementary Classroom).</p> |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |   |                              |   |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                              |  |
| <b>Prerequisites (or NONE):</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |           | Admission to the Bachelor of Education or a B.C. teaching certificate.                                                                                                                                                                                                                                                                                                                                                                                                                                                           |   |                              |   |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                              |  |
| <b>Corequisites (if applicable, or NONE):</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           | NONE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |                              |   |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                              |  |
| <b>Pre/corequisites (if applicable, or NONE):</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |           | NONE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |                              |   |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                              |  |
| <b>Equivalent Courses (cannot be taken for additional credit)</b><br>Former course code/number:<br>Cross-listed with:<br>Equivalent course(s):<br><i>Note: Equivalent course(s) should be included in the calendar description by way of a note that students with credit for the equivalent course(s) cannot take this course for further credit.</i>                                                                                                                                                                                                                                                                                                                                                               |           | <b>Transfer Credit</b><br>Transfer credit already exists: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br>Transfer credit requested (OREg to submit to BCCAT):<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (if yes, fill in transfer credit form)<br>Resubmit revised outline for articulation: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br>To find out how this course transfers, see <a href="http://bctransferguide.ca">bctransferguide.ca</a> . |   |                              |   |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                              |  |
| <b>Total Hours: 15</b><br><b>Typical structure of instructional hours:</b> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Lecture hours</td><td style="text-align: center;">9</td></tr> <tr><td>Seminars/tutorials/workshops</td><td style="text-align: center;">6</td></tr> <tr><td>Laboratory hours</td><td></td></tr> <tr><td>Field experience hours</td><td></td></tr> <tr><td>Experiential (practicum, internship, etc.)</td><td></td></tr> <tr><td>Online learning activities</td><td></td></tr> <tr><td>Other contact hours:</td><td></td></tr> <tr><td style="text-align: right;"><b>Total</b></td><td style="text-align: center;"><b>15</b></td></tr> </table>                  |           | Lecture hours                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 9 | Seminars/tutorials/workshops | 6 | Laboratory hours |  | Field experience hours |  | Experiential (practicum, internship, etc.) |  | Online learning activities |  | Other contact hours: |  | <b>Total</b> | <b>15</b> | <b>Special Topics</b><br>Will the course be offered with different topics?<br><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No<br>If yes, different lettered courses may be taken for credit:<br><input type="checkbox"/> No <input type="checkbox"/> Yes, _repeat(s) <input checked="" type="checkbox"/> Yes, no limit<br><i>Note: The specific topic will be recorded when offered.</i> |  |
| Lecture hours                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 9         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |   |                              |   |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                              |  |
| Seminars/tutorials/workshops                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 6         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |   |                              |   |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                              |  |
| Laboratory hours                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |   |                              |   |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                              |  |
| Field experience hours                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |   |                              |   |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                              |  |
| Experiential (practicum, internship, etc.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |   |                              |   |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                              |  |
| Online learning activities                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |   |                              |   |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                              |  |
| Other contact hours:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |   |                              |   |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                              |  |
| <b>Total</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>15</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |   |                              |   |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                              |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |           | <b>Maximum enrolment (for information only):</b> 36<br><b>Expected frequency of course offerings (every semester, annually, every other year, etc.):</b> annually                                                                                                                                                                                                                                                                                                                                                                |   |                              |   |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                              |  |
| <b>Department / Program Head or Director:</b> Dr. Vandy Britton                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |           | <b>Date approved:</b> April 2021                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |   |                              |   |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                              |  |
| <b>Faculty Council approval</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |           | <b>Date approved:</b> September 17, 2021                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |   |                              |   |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                              |  |
| <b>Undergraduate Education Committee (UEC) approval</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |           | <b>Date of meeting:</b> October 29, 2021                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |   |                              |   |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                              |  |



**EDUC 481**
**University of the Fraser Valley Official Undergraduate Course Outline**
**Page 2 of 2**
**Learning Outcomes**

Upon successful completion of this course, students will be able to:

- Examine theory and research in relation to a single topic.
- Connect theory and research to their educational practice.
- Critically reflect on issues and challenges related to the single topic.

Additional outcomes will depend upon the course content and structure.

**Prior Learning Assessment and Recognition (PLAR)**

☐ Yes      ☒ No, PLAR cannot be awarded for this course as the course content is integrated with the BEd practicum or the current practice of enrolled teachers.

**Typical Instructional Methods (guest lecturers, presentations, online instruction, field trips, etc.; may vary at department's discretion)**

Methods will be determined by course subject and content, but may include lectures, seminars, and presentations.

**Grading system:** Letter Grades: ☐ Credit/No Credit: ☒ Labs to be scheduled independent of lecture hours: Yes ☐ No ☒

**NOTE: The following sections may vary by instructor. Please see course syllabus available from the instructor.**

**Typical Text(s) and Resource Materials (if more space is required, download Supplemental Texts and Resource Materials form)**

|    | Author (surname, initials)      | Title (article, book, journal, etc.)                                                                      | Current ed.                         | Publisher      | Year |
|----|---------------------------------|-----------------------------------------------------------------------------------------------------------|-------------------------------------|----------------|------|
| 1. | Brownlie, F. and Schnellert, L. | It's All About Thinking: collaborating to support all learners in English, Social Studies, and Humanities | <input checked="" type="checkbox"/> | Portage & Main | 2009 |
| 2. |                                 |                                                                                                           | <input type="checkbox"/>            |                |      |
| 3. |                                 |                                                                                                           | <input type="checkbox"/>            |                |      |
| 4. |                                 |                                                                                                           | <input type="checkbox"/>            |                |      |
| 5. |                                 |                                                                                                           | <input type="checkbox"/>            |                |      |

**Required Additional Supplies and Materials (software, hardware, tools, specialized clothing, etc.)**

n/a

**Typical Evaluation Methods and Weighting**

|                |   |              |      |                   |   |            |      |
|----------------|---|--------------|------|-------------------|---|------------|------|
| Final exam:    | % | Assignments: | 100% | Midterm exam:     | % | Practicum: | %    |
| Quizzes/tests: | % | Lab work:    | %    | Field experience: | % | Shop work: | %    |
| Other:         | % | Other:       | %    | Other:            | % | Total:     | 100% |

**Details (if necessary):**

Credit/No Credit evaluation.

Assignments may include a reflective writing assignment and a culminating presentation or paper on the specific topic.

**Typical Course Content and Topics**

Course content will depend upon the topic.

For example, EDUC 481D (Literacy in the Urban Classroom) content would include topics such as "Meeting the Needs of All Learners through Literacy", "Assessment that Supports Learning", "Online Literature Circles", and "Engaging Critically with Text".

Assignments for this 1-credit course could include a reflective writing assignment and a culminating presentation or paper on a critical analysis of literacy issues and implications for practice.

**Memo for Course Changes**

To: Dr. Tracy Ryder-Glass

From: Dr. Vandy Britton, Department Head, Teacher Education

Date: May 21, 2021

**Subject: Proposal for revision of EDUC 482: Special Topics in K-12 Education II**

1. Summary of changes (select all that apply):

- ☐ Six-year review
- ☐ Number and/or course code
- ☐ Credits and/or total hours
- ☐ Title
- ☒ Calendar description
- ☒ Prerequisites and/or co-requisites
- ☐ Frequency of course offering
- ☐ Learning outcomes
- ☐ Delivery methods and/or texts and resource materials
- ☐ PLAR options, grading system, and/or evaluation methods
- ☐ Discontinuation of course
- ☐ Other – Please specify:

2. Rationale for change: This course was originally designed to be taught in the TED's (now defunct) Summer Institute in Teacher Education (SITE). As this is a Special Topics course, we would like to allow both current BEd students and certified K-12 teachers to be able to take this course.

3. If there are substantial changes to the learning outcomes, explain how they align with the learning outcomes of the program(s): n/a

4. Is this course required by any program beyond the discipline? If so, how will this change affect that program or programs? No.

5. Which program areas have been consulted about the change(s)? N/A

6. What consideration has been given to indigenizing the curriculum?

Instructors would include literature and current research from Indigenous scholars. As well, wherever possible, Indigenous pedagogy and Ways of Knowing would be utilized, with support from local Elders and experts.

7. If this course is not eligible for PLAR, explain why: As courses in Teacher Education are answerable to outside governing bodies, at present, no courses are eligible.

8. If any of the following items on the official course outline have changed, explain how the change will affect the budget for your area or any other area:

- a. Credit value – n/a
- b. Class size limit – n/a

- c. Frequency of offering – n/a
- d. Resources required (labs, equipment) – n/a
- 9. Are field trips required for this course? (Field trip requirements must be announced in the timetable.) How are the trips funded? No
- 10. Estimate of the typical costs for this course, including textbooks and other materials: \$100.

**CWC comment and response:**

See EDUC 483 memo.



ORIGINAL COURSE IMPLEMENTATION DATE: July 2016  
 REVISED COURSE IMPLEMENTATION DATE: May 2022  
 COURSE TO BE REVIEWED: (six years after UEC approval) October 2027  
 Course outline form version: 09/15/14

## OFFICIAL UNDERGRADUATE COURSE OUTLINE FORM

**Note: The University reserves the right to amend course outlines as needed without notice.**

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                              |    |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                               |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|------------------------------|----|------------------|--|------------------------|--|--------------------------------------------|--|----------------------------|--|----------------------|--|--------------|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>Course Code and Number:</b> EDUC 482                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |           | <b>Number of Credits:</b> 2 <small>Course credit policy (105)</small>                                                                                                                                                                                                                                                                                                                                                                                                                                                            |    |                              |    |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                               |  |
| <b>Course Full Title:</b> Special Topics in K-12 Education II                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                              |    |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                               |  |
| <b>Course Short Title (if title exceeds 30 characters):</b> Special Topics II                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                              |    |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                               |  |
| <b>Faculty:</b> Faculty of Professional Studies                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | <b>Department (or program if no department):</b> Teacher Education                                                                                                                                                                                                                                                                                                                                                                                                                                                               |    |                              |    |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                               |  |
| <b>Calendar Description:</b><br><p>Varies depending on the interests of the faculty member and the relevant issues in education in BC. Explores topics that are either not addressed in other UFV Bachelor of Education courses or expands in more depth on relevant topics for practicing teachers.</p> <p>Note: This course will be offered under different letter designations (e.g. C-Z) representing different topics. This course may be repeated for credit provided the letter designation differs. Possible topics denoted by letter designations include EDUC 482C (Digital Literacy), EDUC 482D (Supporting Indigenous Learners), and EDUC 482E (Supporting English Language Learners in the Classroom).</p> |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                              |    |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                               |  |
| <b>Prerequisites (or NONE):</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | Admission to the Bachelor of Education or a B.C. teaching certificate.                                                                                                                                                                                                                                                                                                                                                                                                                                                           |    |                              |    |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                               |  |
| <b>Corequisites (if applicable, or NONE):</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |           | NONE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                              |    |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                               |  |
| <b>Pre/corequisites (if applicable, or NONE):</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           | NONE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                              |    |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                               |  |
| <b>Equivalent Courses (cannot be taken for additional credit)</b><br>Former course code/number:<br>Cross-listed with:<br>Equivalent course(s):<br><i>Note: Equivalent course(s) should be included in the calendar description by way of a note that students with credit for the equivalent course(s) cannot take this course for further credit.</i>                                                                                                                                                                                                                                                                                                                                                                  |           | <b>Transfer Credit</b><br>Transfer credit already exists: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br>Transfer credit requested (OREg to submit to BCCAT):<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (if yes, fill in transfer credit form)<br>Resubmit revised outline for articulation: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br>To find out how this course transfers, see <a href="http://bctransferguide.ca">bctransferguide.ca</a> . |    |                              |    |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                               |  |
| <b>Total Hours: 30</b><br><b>Typical structure of instructional hours:</b> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Lecture hours</td><td style="text-align: right;">20</td></tr> <tr><td>Seminars/tutorials/workshops</td><td style="text-align: right;">10</td></tr> <tr><td>Laboratory hours</td><td></td></tr> <tr><td>Field experience hours</td><td></td></tr> <tr><td>Experiential (practicum, internship, etc.)</td><td></td></tr> <tr><td>Online learning activities</td><td></td></tr> <tr><td>Other contact hours:</td><td></td></tr> <tr><td style="text-align: right;"><b>Total</b></td><td style="text-align: right;"><b>30</b></td></tr> </table>                      |           | Lecture hours                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 20 | Seminars/tutorials/workshops | 10 | Laboratory hours |  | Field experience hours |  | Experiential (practicum, internship, etc.) |  | Online learning activities |  | Other contact hours: |  | <b>Total</b> | <b>30</b> | <b>Special Topics</b><br>Will the course be offered with different topics?<br><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No<br>If yes, different lettered courses may be taken for credit:<br><input type="checkbox"/> No <input type="checkbox"/> Yes, _ repeat(s) <input checked="" type="checkbox"/> Yes, no limit<br><i>Note: The specific topic will be recorded when offered.</i> |  |
| Lecture hours                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 20        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                              |    |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                               |  |
| Seminars/tutorials/workshops                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 10        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                              |    |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                               |  |
| Laboratory hours                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                              |    |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                               |  |
| Field experience hours                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                              |    |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                               |  |
| Experiential (practicum, internship, etc.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                              |    |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                               |  |
| Online learning activities                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                              |    |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                               |  |
| Other contact hours:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                              |    |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                               |  |
| <b>Total</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>30</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                              |    |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                               |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | <b>Maximum enrolment (for information only):</b> 36<br><b>Expected frequency of course offerings (every semester, annually, every other year, etc.):</b> annually                                                                                                                                                                                                                                                                                                                                                                |    |                              |    |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                               |  |
| <b>Department / Program Head or Director:</b> Dr. Vandy Britton                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | <b>Date approved:</b> April 2021                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |    |                              |    |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                               |  |
| <b>Faculty Council approval</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | <b>Date approved:</b> September 17, 2021                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |    |                              |    |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                               |  |
| <b>Undergraduate Education Committee (UEC) approval</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |           | <b>Date of meeting:</b> October 29, 2021                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |    |                              |    |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                               |  |

**EDUC 482**

**University of the Fraser Valley Official Undergraduate Course Outline**

**Page 2 of 2**

**Learning Outcomes**

Upon successful completion of this course, students will be able to:

- Analyze theory and research in relation to an educational approach.
- Apply theory and research to their educational practice.
- Critically reflect on issues and challenges related to the educational approach.
- Summarize implications for practice based on analysis of research in literature.

Additional outcomes will depend upon the course content and structure.

**Prior Learning Assessment and Recognition (PLAR)**

☐ Yes      ☒ No, PLAR cannot be awarded for this course as the course content is integrated with the BEd practicum or the current practice of enrolled teachers.

**Typical Instructional Methods (guest lecturers, presentations, online instruction, field trips, etc.; may vary at department's discretion)**

Methods will be determined by course subject and content, but may include lectures, seminars, and presentations.

**Grading system:** Letter Grades: ☐ Credit/No Credit: ☒ Labs to be scheduled independent of lecture hours: Yes ☐ No ☒

**NOTE: The following sections may vary by instructor. Please see course syllabus available from the instructor.**

**Typical Text(s) and Resource Materials (if more space is required, download Supplemental Texts and Resource Materials form)**

| Author (surname, initials) | Title (article, book, journal, etc.)                  | Current ed.                         | Publisher | Year |
|----------------------------|-------------------------------------------------------|-------------------------------------|-----------|------|
| 1. Rojas, Virginia         | Strategies for Success with English Language Learners | <input checked="" type="checkbox"/> | ASCD      | 2011 |
| 2.                         |                                                       | <input type="checkbox"/>            |           |      |
| 3.                         |                                                       | <input type="checkbox"/>            |           |      |
| 4.                         |                                                       | <input type="checkbox"/>            |           |      |
| 5.                         |                                                       | <input type="checkbox"/>            |           |      |

**Required Additional Supplies and Materials (software, hardware, tools, specialized clothing, etc.)**

n/a

**Typical Evaluation Methods and Weighting**

|                |   |              |      |                   |   |            |      |
|----------------|---|--------------|------|-------------------|---|------------|------|
| Final exam:    | % | Assignments: | 100% | Midterm exam:     | % | Practicum: | %    |
| Quizzes/tests: | % | Lab work:    | %    | Field experience: | % | Shop work: | %    |
| Other:         | % | Other:       | %    | Other:            | % | Total:     | 100% |

**Details (if necessary):**

Credit/No Credit evaluation.

Assignments may include a reflective writing assignment, a culminating presentation or paper on the specific topic, and the development of a personal set of instructional tools.

**Typical Course Content and Topics**

Course content will depend upon the topic.

For example, EDUC 482E (Supporting English Language Learners in the Classroom) content would include "Scaffolding Strategies for English Language Learners". In particular, there would be examination of effective vocabulary strategies, reading and writing strategies, cooperative learning strategies, and differentiation strategies that could be directly applied in the classroom.

Assignments for this 2-credit course could include a reflective writing assignment, a culminating presentation or paper on a critical analysis of issues facing English Language Learners, and the development of a personal set of instructional tools to use with English Language Learners.

**Memo for Course Changes**

To: Dr. Tracy Ryder-Glass

From: Dr. Vandy Britton, Department Head, Teacher Education

Date: May 21, 2021

**Subject: Proposal for revision of EDUC 483: Special Topics in K-12 Education III**

1. Summary of changes (select all that apply):

- ☐ Six-year review
- ☐ Number and/or course code
- ☐ Credits and/or total hours
- ☐ Title
- ☒ Calendar description
- ☒ Prerequisites and/or co-requisites
- ☐ Frequency of course offering
- ☐ Learning outcomes
- ☐ Delivery methods and/or texts and resource materials
- ☐ PLAR options, grading system, and/or evaluation methods
- ☐ Discontinuation of course
- ☐ Other – Please specify:

2. Rationale for change: This course was originally designed to be taught in the TED's (now defunct) Summer Institute in Teacher Education (SITE). As this is a Special Topics course, we would like to allow both current BEd students and certified K-12 teachers to be able to take this course.

3. If there are substantial changes to the learning outcomes, explain how they align with the learning outcomes of the program(s): n/a

4. Is this course required by any program beyond the discipline? If so, how will this change affect that program or programs? No.

5. Which program areas have been consulted about the change(s)? N/A

6. What consideration has been given to indigenizing the curriculum?

Instructors would include literature and current research from Indigenous scholars. As well, wherever possible, Indigenous pedagogy and Ways of Knowing would be utilized, with support from local Elders and experts.

7. If this course is not eligible for PLAR, explain why: As courses in Teacher Education are answerable to outside governing bodies, at present, no courses are eligible.

8. If any of the following items on the official course outline have changed, explain how the change will affect the budget for your area or any other area:

- a. Credit value – n/a
- b. Class size limit – n/a

- c. Frequency of offering – n/a
- d. Resources required (labs, equipment) – n/a
- 9. Are field trips required for this course? (Field trip requirements must be announced in the timetable.) How are the trips funded? No
- 10. Estimate of the typical costs for this course, including textbooks and other materials: \$100.

**CWC comments and responses (for EDUC 481, 482, and 483):**

- Prerequisites state that a student must be admitted to the BEd or have a valid BC teaching certificate, but this summer EDUC 483J was targeted to 3<sup>rd</sup> and 4<sup>th</sup> year UFV students as well as practicing teachers. Should the course outline include this possibility?

Requiring a BC teaching certificate is self-limiting, particularly if the program is considering offering these in a remote format. Did or would the program consider “Admission to the BEd or a Canadian teaching certificate”? This would make it available to teachers just arriving in the Province, and provides the opportunity to offer it remotely if the demand is there.

*At present, EDUC 483 is not intended to be taught fully remotely, as we are using it as a teaching methods course for various topics that are not included in the other Education courses within the UFV BEd. The course is currently running as EDUC 483J, with an emphasis on teaching French as a Second Language. According to the instructor, the f2f component is very important for the delivery of this content. As well, according to the current ruling of the British Columbia Teacher Certification Branch (BCTCB), courses that are used towards BC teacher certification must be taught f2f.*

*We would prefer not to broaden the prerequisite to include a “Canadian teaching certificate”, as this type of certification does not exist. Teachers arriving in BC from other provinces would go through a process of applying for certification through the BCTCB and could certainly receive permission to take this course. We don’t want to confuse applicants into thinking that any type of teaching certification may apply here (e.g. the Provincial Instructors Diploma, which is more geared towards teaching adults; or a TESL/TEFL teaching certificate). Neither of these certifications on their own would include our target audience. We could certainly add “or department permission” to the prerequisite, if this opens it up a bit more for applicants to actually approach the department for a waiver.*

*As far as third and fourth year UFV students are concerned, they were allowed to register for this course in the Fall 2021 semester because we received a grant from the Ministry of Advanced Education to pilot the course for the first time. Future offerings are intended for practicing teachers and enrolled BEd students only, in order to build the capacity of teachers in French as a Second Language and/or French Immersion environments. Should we receive another grant to support this initiative, we can certainly consider adding these students again; but, for this term, it was a way of testing the course, and an opportunity to offer it with limited advanced notice and a lower enrollment.*



ORIGINAL COURSE IMPLEMENTATION DATE: July 2016  
 REVISED COURSE IMPLEMENTATION DATE: May 2022  
 COURSE TO BE REVIEWED: (six years after UEC approval) October 2027  
 Course outline form version: 09/15/14

## OFFICIAL UNDERGRADUATE COURSE OUTLINE FORM

**Note: The University reserves the right to amend course outlines as needed without notice.**

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                              |    |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                               |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|------------------------------|----|------------------|--|------------------------|--|--------------------------------------------|--|----------------------------|--|----------------------|--|--------------|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>Course Code and Number:</b> EDUC 483                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |           | <b>Number of Credits:</b> 3 <a href="#">Course credit policy (105)</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                           |    |                              |    |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                               |  |
| <b>Course Full Title:</b> Special Topics in K-12 Education III                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                              |    |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                               |  |
| <b>Course Short Title (if title exceeds 30 characters):</b> Special Topics III                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                              |    |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                               |  |
| <b>Faculty:</b> Faculty of Professional Studies                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |           | <b>Department (or program if no department):</b> Teacher Education                                                                                                                                                                                                                                                                                                                                                                                                                                                               |    |                              |    |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                               |  |
| <b>Calendar Description:</b><br><p>Varies depending on the interests of the faculty member and the relevant issues in education in BC. Explores topics that are either not addressed in other UFV Bachelor of Education courses or expands in more depth on relevant topics for practicing teachers.</p> <p>Note: This course will be offered under different letter designations (e.g. C-Z) representing different topics. This course may be repeated for credit provided the letter designation differs. Possible topics denoted by letter designations include EDUC 483C (Assessment in the 21st century), EDUC 483D (Teaching from an Indigenous Worldview), and EDUC 483E (Designs for Learning: French Language).</p> |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                              |    |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                               |  |
| <b>Prerequisites (or NONE):</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |           | Admission to the Bachelor of Education or a B.C. teaching certificate.                                                                                                                                                                                                                                                                                                                                                                                                                                                           |    |                              |    |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                               |  |
| <b>Corequisites (if applicable, or NONE):</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           | NONE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                              |    |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                               |  |
| <b>Pre/corequisites (if applicable, or NONE):</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           | NONE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                              |    |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                               |  |
| <b>Equivalent Courses (cannot be taken for additional credit)</b><br>Former course code/number:<br>Cross-listed with:<br>Equivalent course(s):<br><i>Note: Equivalent course(s) should be included in the calendar description by way of a note that students with credit for the equivalent course(s) cannot take this course for further credit.</i>                                                                                                                                                                                                                                                                                                                                                                       |           | <b>Transfer Credit</b><br>Transfer credit already exists: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br>Transfer credit requested (OReg to submit to BCCAT):<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (if yes, fill in transfer credit form)<br>Resubmit revised outline for articulation: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br>To find out how this course transfers, see <a href="http://bctransferguide.ca">bctransferguide.ca</a> . |    |                              |    |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                               |  |
| <b>Total Hours: 45</b><br><b>Typical structure of instructional hours:</b> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Lecture hours</td> <td style="text-align: right;">20</td> </tr> <tr> <td>Seminars/tutorials/workshops</td> <td style="text-align: right;">25</td> </tr> <tr> <td>Laboratory hours</td> <td></td> </tr> <tr> <td>Field experience hours</td> <td></td> </tr> <tr> <td>Experiential (practicum, internship, etc.)</td> <td></td> </tr> <tr> <td>Online learning activities</td> <td></td> </tr> <tr> <td>Other contact hours:</td> <td></td> </tr> <tr> <td style="text-align: right;"><b>Total</b></td> <td style="text-align: right;"><b>45</b></td> </tr> </table>   |           | Lecture hours                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 20 | Seminars/tutorials/workshops | 25 | Laboratory hours |  | Field experience hours |  | Experiential (practicum, internship, etc.) |  | Online learning activities |  | Other contact hours: |  | <b>Total</b> | <b>45</b> | <b>Special Topics</b><br>Will the course be offered with different topics?<br><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No<br>If yes, different lettered courses may be taken for credit:<br><input type="checkbox"/> No <input type="checkbox"/> Yes, _ repeat(s) <input checked="" type="checkbox"/> Yes, no limit<br><i>Note: The specific topic will be recorded when offered.</i> |  |
| Lecture hours                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 20        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                              |    |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                               |  |
| Seminars/tutorials/workshops                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 25        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                              |    |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                               |  |
| Laboratory hours                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                              |    |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                               |  |
| Field experience hours                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                              |    |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                               |  |
| Experiential (practicum, internship, etc.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                              |    |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                               |  |
| Online learning activities                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                              |    |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                               |  |
| Other contact hours:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                              |    |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                               |  |
| <b>Total</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>45</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                              |    |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                               |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |           | <b>Maximum enrolment (for information only):</b> 36<br><b>Expected frequency of course offerings (every semester, annually, every other year, etc.):</b> annually                                                                                                                                                                                                                                                                                                                                                                |    |                              |    |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                               |  |
| <b>Department / Program Head or Director:</b> Dr. Vandy Britton                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |           | <b>Date approved:</b> April 2021                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |    |                              |    |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                               |  |
| <b>Faculty Council approval</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |           | <b>Date approved:</b> September 17, 2021                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |    |                              |    |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                               |  |
| <b>Undergraduate Education Committee (UEC) approval</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |           | <b>Date of meeting:</b> October 29, 2021                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |    |                              |    |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                               |  |



**EDUC 483**

**University of the Fraser Valley Official Undergraduate Course Outline**

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**Learning Outcomes**

Upon successful completion of this course, students will be able to:

- Assess theory and research in relation to a current issue or theme in education.
- Integrate theory and research to their educational practice.
- Critically reflect on issues and challenges related to the current issue or theme in education.
- Evaluate implications for practice based on analysis of research in literature.
- Synthesize pedagogical approaches in relation to this issue or theme.
- Document pedagogical approaches in relation to this issue or theme.

Additional outcomes will depend upon the course content and structure.

**Prior Learning Assessment and Recognition (PLAR)**

☐ Yes ☒ No, PLAR cannot be awarded for this course as the course content is integrated with the BEd practicum or the current practice of enrolled teachers.

**Typical Instructional Methods (guest lecturers, presentations, online instruction, field trips, etc.; may vary at department's discretion)**

Methods will be determined by course subject and content, but may include lectures, seminars, and presentations.

**Grading system:** Letter Grades: ☐ Credit/No Credit: ☒ Labs to be scheduled independent of lecture hours: Yes ☐ No ☒

**NOTE: The following sections may vary by instructor. Please see course syllabus available from the instructor.**

**Typical Text(s) and Resource Materials (if more space is required, download Supplemental Texts and Resource Materials form)**

| Author (surname, initials) | Title (article, book, journal, etc.) | Current ed.                         | Publisher | Year |
|----------------------------|--------------------------------------|-------------------------------------|-----------|------|
| 1. Wiggins And McTighe     | Understanding By Design              | <input checked="" type="checkbox"/> | ASCD      | 2005 |
| 2.                         |                                      | <input type="checkbox"/>            |           |      |
| 3.                         |                                      | <input type="checkbox"/>            |           |      |
| 4.                         |                                      | <input type="checkbox"/>            |           |      |
| 5.                         |                                      | <input type="checkbox"/>            |           |      |

**Required Additional Supplies and Materials (software, hardware, tools, specialized clothing, etc.)**

n/a

**Typical Evaluation Methods and Weighting**

|                |   |              |      |                   |   |            |      |
|----------------|---|--------------|------|-------------------|---|------------|------|
| Final exam:    | % | Assignments: | 100% | Midterm exam:     | % | Practicum: | %    |
| Quizzes/tests: | % | Lab work:    | %    | Field experience: | % | Shop work: | %    |
| Other:         | % | Other:       | %    | Other:            | % | Total:     | 100% |

**Details (if necessary):**

Credit/No Credit evaluation.

Assignments may include a reflective writing assignment, development of a unit plan, a micro-teach, and a culminating presentation or paper.

**Typical Course Content and Topics**

Course content will depend upon the topic.

For example, EDUC 483C Special Topics in K-12 Education (Assessment in the 21<sup>st</sup> century), content would include "What is Backwards Design?", "Thinking Like an Assessor", "Criteria and Validity", "Planning for Learning", and "Teaching For Understanding".

Assignments for this 3-credit course could include a reflective writing assignment, development of a unit plan using the *Understanding by Design* (UbD) methodology, a micro-teach using the UbD methodology, and a culminating presentation or paper that links research, literature, and professional learning to a personal inquiry topic related to assessment.

**Memo for Program Changes**

To: Faculty of Science Curriculum Committee

From: Jason Thomas (Chemistry Dept. Head)

Date: June 4, 2021

**Subject: Program change: Change to first-year math requirements for Chemistry Honours**

1. Summary of changes (select all the apply):

- ☐ Program revision that requires new resources
- ☒ Addition of new course options or deletion or substitution of a required course
- ☐ Change to the majority of courses in an approved program
- ☐ Change to the duration, philosophy, or direction of a program
- ☐ Addition of a new field of specialization, such as a concentration
- ☐ Change in requirements for admission
- ☐ Change in requirements for residency or continuance
- ☐ Change in admission quotas
- ☐ Change which triggers an external review
- ☐ Deletion of a program not included in the Program Discontinuance policy
- ☐ Other – Please specify:

2. Rationale for change(s):

Math 118 is being added as an option towards fulfilment of the first-year math requirement for the chemistry honours program. Students may now choose between Math 112 and Math 118 as the learning outcomes for these courses are similar enough that both courses adequately serve the needs of chemistry students.

3. If program outcomes are new or substantially changed, explain how they align with the Institutional Learning Outcomes:

N/A

4. What consideration has been given to indigenizing the curriculum?

This slight change to a math requirement does not pertain to indigenization.

5. Will additional resources be required? If so, how will these costs be covered?

No.

6. How will students be impacted? (Indicate the projected number of students impacted.) Is the change expected to increase/decrease enrolment in the program?

Students will have more flexibility in first year math courses. Currently, students with Math 118 technically cannot use this to satisfy the chemistry honours math requirements.

7. Does the number of required core or elective credits from the program-specific discipline change? If so, will this change the total number of courses to be offered within the discipline?

No.

8. Identify any available resources that will be used to accommodate the program changes. (Eg. seats in existing classes, conversion of sections, timetabling changes, deletion of courses, etc.)

No additional resources are required to accommodate the change. The number of students taking MATH 118 vs. MATH 112 may change, but the effect is not expected to be significant as the number of students who declare the chemistry honours program each year is very small.

9. Is the number of required or elective courses from other disciplines in the program changing? If so, what is the estimated impact to enrolments in these courses? Provide a memo from the respective dean(s) of the impacted faculty to confirm if budgetary implications have been considered and addressed.

No. All chemistry students still must take two first year math courses.

10. Provide a memo from the program's dean to confirm that budgetary implications of the proposed changes have been considered and will be addressed within the faculty budget.

Dean's office has confirmed that there are no budgetary implications.

## Chemistry Honours

### Entrance requirements

Minimum GPA of 3.33 and completion of three 300-level chemistry courses each with a grade of B or better.

### How to apply

Students in the Chemistry major program who wish to enter the Chemistry Honours program must submit an application form at the end of their third year to the chemistry department head (contact the departmental assistant to obtain the form). Prospective Honours students must also identify a faculty member in the Chemistry department who is willing to supervise their CHEM 499 research project. Students should approach faculty members during their third year to discuss possible research projects.

### Program outline

This section specifies the Chemistry Honours discipline requirements only. Please refer to the [Bachelor of Science](#) section for information on additional requirements.

### Lower-level requirements

| Course   | Title                      | Credits |
|----------|----------------------------|---------|
| CHEM 113 | Principles of Chemistry I  | 5       |
| CHEM 114 | Principles of Chemistry II | 5       |
| CHEM 213 | Organic Chemistry I        | 4       |
| CHEM 214 | Organic Chemistry II       | 4       |
| CHEM 221 | Inorganic Chemistry        | 4       |

|                                 |                                            |   |
|---------------------------------|--------------------------------------------|---|
| CHEM 224                        | Atoms, Molecules, Spectra                  | 4 |
| CHEM 241                        | Analytical Chemistry                       | 4 |
| COMP 150                        | Computer Programming                       | 4 |
| <b>or</b> COMP 152              | Introduction to Structured Programming     |   |
| MATH 111                        | Calculus I                                 | 4 |
| MATH 112                        | Calculus II                                | 4 |
| <b>or</b> <u>MATH 118</u>       | <u>Calculus II for Life Sciences</u>       |   |
| MATH 211                        | Calculus III                               | 3 |
| PHYS 111                        | Mechanics                                  | 5 |
| PHYS 112                        | Electricity and Magnetism                  | 5 |
| STAT 106                        | Statistics I                               | 4 |
| <b>or</b> MATH 270/<br>STAT 270 | Introduction to Probability and Statistics |   |

### Upper-level requirements

| Course | Title | Credits |
|--------|-------|---------|
|--------|-------|---------|

|          |                                                    |    |
|----------|----------------------------------------------------|----|
| CHEM 311 | Intermediate Organic Chemistry I                   | 4  |
| CHEM 320 | Intermediate Inorganic Chemistry                   | 3  |
| CHEM 324 | Chemical Kinetics and Thermodynamics               | 4  |
| CHEM 325 | Inorganic Chemistry Laboratory                     | 2  |
| CHEM 341 | Instrumental Analysis/Applied Spectroscopy         | 4  |
| CHEM 350 | Introductory Biochemistry Laboratory               | 3  |
| CHEM 499 | Honours Research and Thesis in Chemistry           | 12 |
| Plus:    | Additional chemistry courses numbered 400 or above | 6  |

### Graduation requirements

A minimum final GPA of 3.33 is required, calculated for the 132 credits used towards the degree. All BSc general requirements must also be completed.

**Memo for Program Changes**

To: Faculty of Science Curriculum Committee

From: Jason Thomas (Chemistry Dept. Head)

Date: June 4, 2021

**Subject: Program change: Change to first-year math requirements for Chemistry Major**

1. Summary of changes (select all that apply):

- ☐ Program revision that requires new resources
- ☒ Addition of new course options or deletion or substitution of a required course
- ☐ Change to the majority of courses in an approved program
- ☐ Change to the duration, philosophy, or direction of a program
- ☐ Addition of a new field of specialization, such as a concentration
- ☐ Change in requirements for admission
- ☐ Change in requirements for residency or continuance
- ☐ Change in admission quotas
- ☐ Change which triggers an external review
- ☐ Deletion of a program not included in the Program Discontinuance policy
- ☐ Other – Please specify:

2. Rationale for change(s):

Math 118 is being added as an option towards fulfilment of the first-year math requirement for the chemistry major program. Students may now choose between Math 112 and Math 118 as the learning outcomes for these courses are similar enough that both courses adequately serve the needs of chemistry students.

3. If program outcomes are new or substantially changed, explain how they align with the Institutional Learning Outcomes:

N/A

4. What consideration has been given to indigenizing the curriculum?

This slight change to a math requirement does not pertain to indigenization.

5. Will additional resources be required? If so, how will these costs be covered?

No.

6. How will students be impacted? (Indicate the projected number of students impacted.) Is the change expected to increase/decrease enrolment in the program?

Students will have more flexibility in first year math courses. Currently, students with Math 118 technically cannot use this to satisfy the chemistry major math requirements (although exceptions have been made).

7. Does the number of required core or elective credits from the program-specific discipline change? If so, will this change the total number of courses to be offered within the discipline?

No.

8. Identify any available resources that will be used to accommodate the program changes. (Eg. seats in existing classes, conversion of sections, timetabling changes, deletion of courses, etc.)

No additional resources are required to accommodate the change. The number of students taking MATH 118 vs. MATH 112 may change, but the effect is not expected to be significant as the number of students who declare as chemistry majors each year is quite small.

9. Is the number of required or elective courses from other disciplines in the program changing? If so, what is the estimated impact to enrolments in these courses? Provide a memo from the respective dean(s) of the impacted faculty to confirm if budgetary implications have been considered and addressed.

No. All chemistry students still must take two first year math courses.

10. Provide a memo from the program's dean to confirm that budgetary implications of the proposed changes have been considered and will be addressed within the faculty budget.

Dean's office has confirmed that there are no budgetary implications.



## Chemistry major

This section specifies the chemistry major discipline requirements only. Please refer to the [Bachelor of Science](#) section for information on additional requirements, declaration eligibility, and residency requirements.

### Lower-level requirements

| Course             | Title                                     | Credits |
|--------------------|-------------------------------------------|---------|
| CHEM 111           | Principles of Chemistry I (discontinued)  | 4–5     |
| <b>or</b> CHEM 113 | Principles of Chemistry I                 |         |
| CHEM 112           | Principles of Chemistry II (discontinued) | 4–5     |
| <b>or</b> CHEM 114 | Principles of Chemistry II                |         |
| CHEM 211           | Organic Chemistry I (discontinued)        | 4       |
| <b>or</b> CHEM 213 | Organic Chemistry I                       |         |
| CHEM 212           | Organic Chemistry II (discontinued)       | 4       |
| <b>or</b> CHEM 214 | Organic Chemistry II                      |         |
| CHEM 221           | Inorganic Chemistry                       | 4       |
| CHEM 224           | Atoms, Molecules, Spectra                 | 4       |

|                           |                                                                   |     |
|---------------------------|-------------------------------------------------------------------|-----|
| CHEM 241                  | Analytical Chemistry                                              | 4   |
| COMP 150                  | Computer Programming                                              | 4   |
| <b>or</b> COMP 152        | Introduction to Structured Programming                            |     |
| MATH 111                  | Calculus I                                                        | 4   |
| MATH 112                  | Calculus II                                                       | 4   |
| <u><b>or</b> MATH 118</u> | <u>Calculus II for Life Sciences</u>                              |     |
| MATH 211                  | Calculus III                                                      | 3   |
| PHYS 111                  | Mechanics                                                         | 5   |
| PHYS 112                  | Electricity and Magnetism                                         | 5   |
| <b>One of:</b>            |                                                                   | 3–4 |
| STAT 106                  | Statistics I                                                      |     |
| MATH 270/<br>STAT 270     | Introduction to Probability and Statistics                        |     |
| MATH 302                  | Analysis of Observational and Experimental Data<br>(discontinued) |     |

### Upper-level requirements

| Course             | Title                                      | Credits |
|--------------------|--------------------------------------------|---------|
| CHEM 311           | Intermediate Organic Chemistry I           | 4       |
| <b>or</b> CHEM 312 | Intermediate Organic Chemistry II          |         |
| CHEM 320           | Intermediate Inorganic Chemistry           | 3       |
| CHEM 324           | Chemical Kinetics and Thermodynamics       | 4       |
| CHEM 325           | Inorganic Chemistry Laboratory             | 2       |
| CHEM 341           | Instrumental Analysis/Applied Spectroscopy | 4       |
| Plus:              | 13 credits of upper-level CHEM             | 13      |

Note: With the approval of the department head, up to 15 upper-level chemistry credits obtained from courses taken outside UFV may be used to partially satisfy these requirements.

**Memo for Program Changes**

To: FSCC

From: Lin Long, Physics department head

Date: Aug 23, 2021

**Subject: Program change (Physics major)**

1. Summary of changes (select all the apply):

- ☐ Program revision that requires new resources
- ☒ Addition of new course options or deletion or substitution of a required course
- ☐ Change to the majority of courses in an approved program
- ☐ Change to the duration, philosophy, or direction of a program
- ☐ Addition of a new field of specialization, such as a concentration
- ☐ Change in requirements for admission
- ☐ Change in requirements for residency or continuance
- ☐ Change in admission quotas
- ☐ Change which triggers an external review
- ☐ Deletion of a program not included in the Program Discontinuance policy
- ☐ Other – Please specify:

2. Rationale for change(s):

When the Biochemistry and Computing Science majors were launched, Physics department didn't update the major requirements for double-majoring with another science major (which requires 21 credits in upper level courses). The Physics department had a discussion on it and voted to add Biochemistry and Computing Science majors into the 21 credits upper level courses requirement.

3. If program outcomes are new or substantially changed, explain how they align with the Institutional Learning Outcomes:

No substantial change.

4. What consideration has been given to indigenizing the curriculum?

Physics major belongs to BSc programs, which will align with other science programs' indigenization strategy in the curriculum.

5. Will additional resources be required? If so, how will these costs be covered?

No.

6. How will students be impacted? (Indicate the projected number of students impacted.) Is the change expected to increase/decrease enrolment in the program?

It will keep consistency with other science programs, which will be fair to all students who want to take double majors in BSc. The change will help to increase the enrolment in the program.

7. Does the number of required core or elective credits from the program-specific discipline change? If so, will this change the total number of courses to be offered within the discipline?

No.

8. Identify any available resources that will be used to accommodate the program changes. (Eg. seats in existing classes, conversion of sections, timetabling changes, deletion of courses, etc.)

No additional resources needed to accommodate the program change.

9. Is the number of required or elective courses from other disciplines in the program changing? If so, what is the estimated impact to enrolments in these courses? Provide a memo from the respective dean(s) of the impacted faculty to confirm if budgetary implications have been considered and addressed.

No.

10. Provide a memo from the program's dean to confirm that budgetary implications of the proposed changes have been considered and will be addressed within the faculty budget.

No change in budget.

Academic Calendar 2021/22

Physics

[ufv.ca/physics](http://ufv.ca/physics)

## Physics major

This section specifies the Physics major discipline requirements only. Please refer to the [Bachelor of Science](#) section for information on additional requirements.

### Lower-level requirements

| Course                          | Title                                              | Credits |
|---------------------------------|----------------------------------------------------|---------|
| PHYS 111                        | Mechanics                                          | 5       |
| or PHYS 101 with a B+ or better | Introductory General Physics: Mechanics and Fluids |         |
| PHYS 112                        | Electricity and Magnetism                          | 5       |
| PHYS 221                        | Intermediate Mechanics                             | 4       |
| PHYS 231                        | Thermodynamics                                     | 3       |
| MATH 111                        | Calculus I                                         | 4       |
| MATH 112                        | Calculus II                                        | 4       |
| or MATH 118                     | Calculus II for Life Sciences                      |         |
| MATH 211                        | Calculus III                                       | 3       |
| <b>One of:</b>                  |                                                    | 3–4     |
| COMP 120                        | Computing for the Sciences                         |         |
| COMP 150                        | Introduction to Programming                        |         |
| COMP 152                        | Introduction to Structured Programming             |         |

Note: While not degree requirements, PHYS 225 and PHYS 232 are recommended as they are prerequisites for several upper-level courses. Other recommended lower-level courses can be found in the [Physics Honours](#) section.

### Upper-level requirements

| Course                             | Title                | Credits |
|------------------------------------|----------------------|---------|
| PHYS 381/<br>MATH 381/<br>ENGR 257 | Mathematical Physics | 3       |
| <b>Plus</b>                        |                      |         |

|                                |                                                                                                                                                                                                            |    |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| <del>Either</del> <b>Plus:</b> | 27 credits of upper-level PHYS or ENPH                                                                                                                                                                     | 27 |
| or                             | 21 credits of upper-level PHYS or ENPH and a <u>major in one of the following disciplines</u> Biology, Chemistry, Mathematics, <del>or</del> Physical Geography, <u>Biochemistry, or Computing Science</u> | 21 |

Note: Students must complete a minimum of 15 upper-level physics (PHYS or ENPH) credits at UFV.

**Academic calendar changes and deadlines**

| Type of change                                                                          | How often   | Submission Deadlines      |              |                |
|-----------------------------------------------------------------------------------------|-------------|---------------------------|--------------|----------------|
|                                                                                         |             | Annual                    | Fall update  | Winter update  |
| Courses                                                                                 |             |                           |              |                |
| New courses                                                                             | Each update | Feb. UEC                  | Sept. UEC    | Dec. UEC       |
| Most course changes, unless inclusion in the Fall or Winter update is requested         | Annual only | Feb. UEC                  | -            | -              |
| Course discontinuation                                                                  | Annual only | Feb. UEC                  | -            | -              |
| Programs                                                                                |             |                           |              |                |
| Minor program changes that expand options for students                                  | Each update | March UEC                 | Sept. UEC    | Dec. UEC       |
| Other minor program changes, unless inclusion in the Fall or Winter update is requested | Annual only | March UEC                 | -            | -              |
| Major program changes                                                                   | Annual only | Feb. UEC and March Senate | -            | -              |
| New program, unless an exception is approved for inclusion in the Fall or Winter update | Annual only | Early April               | -            | -              |
| Program suspension                                                                      | Each update | Late April                | Late October | Early February |
| Program discontinuation                                                                 | Annual only | Late April                | -            | -              |

**Calendar publication/update dates**

- Annual calendar: May 1
- Fall update: November 1
- Winter update: February 15

**Implementation**

- All course and program changes are best implemented in the annual update.
  - Proponents will be advised to include an implementation date in the proposal if they are seeking inclusion in one of the updates.
- New courses will be available for offering in the next available semester after approval.
- Notice of increased prerequisites will appear:
  - In the annual calendar with notice of implementation in Winter
  - In the Fall update with notice of implementation in Summer
  - In the Winter update with notice of implementation in Fall