EDUC 460.23: Specialization I - Science
Summer, 2024

Start date: Monday, July 8, 2024
Last Day of Classes: Friday, July 19, 2024

Last Day to Add/Drop/Swap: Due to the non-standard dates associated with this program, please check your Student Centre for the important dates pertaining to your section.

Pre-requisite: Due to the multiple pathways in the Bachelor of Education, please consult Undergraduate Programs in Education for questions related to pre-requisite courses.

Office Hours: Available after class or by appointment. Please add course number to the subject line of your email.

Email: Students are required to use a University of Calgary (@ucalgary.ca) email address for all correspondence.

**Course Description:**
The intent of the Specialization I Seminar is to introduce students to the concepts, theory, and design planning related to teaching within the specialization of Science. Theory as connected to an understanding of practical classroom experiences will particularly inform the course curriculum and will be explored through course readings, analysis of teaching/learning artifacts, and through the design of discipline-based learning and assessment plans. Topics in teaching and learning will include teaching inclusively and addressing the needs of diverse learners, effective integration of technology, and discipline-based inquiry. Assignments will present the opportunity for students to develop an understanding of short-term instructional designs and to begin to examine curriculum shifts in the province.

**Learner Outcomes:** Students will be knowledgeable about:

1) Developing a foundational understanding of the nature of discourse in the discipline, as related to teaching and learning, including specialized language, concepts, and terminology;
2) Understanding teacher as designer of learning and assessment plans and use of the resources available for designing learning and assessment.
3) Exploring and applying introductory theory related to the teaching of the discipline with an emphasis on designing discipline-based tasks and assessment processes and creating an adaptive classroom learning environment to better meet the needs of today’s diverse learners.
4) Successfully designing short-term learning and assessment plans to deepen understanding of key ideas/concepts within the discipline.
**COURSE DESIGN AND DELIVERY:**
This course will be delivered face-to-face on campus with some engagement in a D2L environment. This course is delivered through a problem-based and inquiry-focused approach. Student participation is crucial to the knowledge building in this course. While there are readings, they do not “contain” the knowledge of this course. Your learning will be primarily through applying concepts from the readings while you experience, design, and critique science learning activities. Students are expected to participate in whole-class and small-group discussions, conversation, and Desire2Learn (D2L) discussion forums that will include postings and responses in small-groups. Assessment is based on rubrics for the three Learning Tasks. For most class activities, you will need a device with reliable internet connectivity to access D2L, the library website, YouTube, etc.

**LEARNING TASKS OVERVIEW:**
The full assignment descriptions and assessment details will be discussed in class and posted to D2L. The descriptions in this syllabus should be treated as summaries or overviews, not the full and complete assignment requirements.

<table>
<thead>
<tr>
<th>LEARNING TASK</th>
<th>DESCRIPTION OF LEARNING TASK</th>
<th>PERCENTAGE OF FINAL GRADE</th>
<th>GROUPING FOR TASK</th>
<th>DUE DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>LT1</td>
<td>Inquiry into the Teaching of Science: Presentation</td>
<td>30%</td>
<td>Pairs</td>
<td>Friday, July 12, 9:00 am</td>
</tr>
<tr>
<td>LT2</td>
<td>Creation of Short-term Learning and Assessment Plan</td>
<td>45%</td>
<td>Individual</td>
<td>Friday, July 19, 9:00 am</td>
</tr>
<tr>
<td>LT3</td>
<td>Evolving Understanding of the Teaching of Science</td>
<td>25%</td>
<td>Individual</td>
<td>Monday, July 22</td>
</tr>
</tbody>
</table>

**Note:** A and A+ are both worth 4.0. A+ is given at the instructor’s professional discretion based on work of rare and exemplary quality.

**AI-generated text**
Students are expected to create their own content for all assignments and writing should be of their own work. AI-generated text is permitted as long as the text is appropriately cited with respect to which program generated the text and how the text was generated (e.g., keyword prompts) with a reference list using APA 7 format and appendix with full transcript.

“Quoted material” (OpenAI, 2023; see Appendix A for the full transcript).

**Reference**
OpenAI. (2023). *ChatGPT* (Sept 22 version) [Large language model].
[https://chat.openai.com/chat](https://chat.openai.com/chat)
**Readings**

Reading protocols will be discussed during our first class. The Leganto lists for these readings can be found in D2L under “My Tools”. Furthermore, here is the link:


**Daily Course Schedule:**

<table>
<thead>
<tr>
<th>Day 1</th>
<th>Topics/Themes</th>
<th>Readings and Assignments</th>
</tr>
</thead>
</table>
|       | **Essential Question (EQ): What are the goals of EDUC 460?** | **Review Front Matter** of the Science Programs of Study (PoS) *that supports your grade of interest either* gd. 1-6: What is science and organization, gd. 7–8: p.1 – 10 or any of the gd. 10 – 12 courses: p. 1 – 12.  
**Assigned readings** for Days 2 to 7  
|       | **What does Alberta Education deem as curriculum?** |                                                          |
| Day 2 | **EQ:**  
|       | • What are the goals of science teaching: “Learning science, learning about science, and doing science”?  
|       | • What does it mean to be a teacher of science?  
|       | • What is your understanding of scientific reasoning and inquiry?  
|       | Intro to LT1, workshop format, & 5Es.  
|       | Intro to LT3  
|       | In class time to work on LT1: refine your question.  
|       | **Readings for LT3 (assigned on day1):**  
|       | http://dx.doi.org.ezproxy.lib.ucalgary.ca/10.1119/1.2351388  
| Day 3 | **EQ:**  
|       | • What does it mean to facilitate and support a “constructivist classroom”?  
|       | • Who are the learners?  
|       | • Design thinking & Big Ideas  
|       | • The “Instructional Core”  
|       | • What does it mean to be a “designer” of learning?  
|       | Intro to LT2 & UBD chapter selection (*whole/part/whole*)  
|       | In class time to work on LT1  
|       | **Readings for LT3:**  
|       |  
|       | **Reading for LT2:**  
|       | https://www.ase.org.uk/bigideas  
|       | **Assigned Chapter for LT2 for next classes:**  
| Day 4 | **LT2 Introduction: Stage 1. Identify Desired Results (foundational knowledge, attitudes & skills).**  
|       | LT2: Wiggins & McTighe - Jigsaw Chpt. 3 to 10  
<p>|       | In class time to work on LT1 |</p>
<table>
<thead>
<tr>
<th>Day</th>
<th>EQ: What does it mean to be a “designer” of learning?</th>
<th>LT#1 Due: Friday, 9:00 am</th>
</tr>
</thead>
</table>
| Day 5    | Stage 1. Identify Desired Results (foundational knowledge, attitudes & skills).  
          | LT#1: Workshops: schedule posted in D2L  
          | In class time to work on LT2, Stage 1  | **Resources for LT2:** Alberta Education. (2017). Competencies: Descriptions and indicators.  
          | https://education.alberta.ca/competencies/descriptions-indicators/ |
| Day 6    | Stage 1. Identify Desired Results (foundational knowledge, attitudes & skills).  
          | LT#1: Workshops  
          | LT2: Wiggins & McTighe - Jigsaw Chpt. 3 to 5  
          | In class time to work on LT2, Stage 1  | **Resources for LT2:**  
          | https://access.gale.com/apps/doc/A169164630/AONE?u=ucalgary&sid=bookmark-AONE&xid=4b6ee11c  
          | https://access.gale.com/apps/doc/A581990226/AONE?u=ucalgary&sid=bookmark-AONE&xid=93da2a16 |
| Day 7    | EQ: What will you accept as evidence that student understanding took place?  
          | Stage 2. Determine what constitutes acceptable evidence of competency in the outcomes and results (assessment).  
          | LT#1: Workshops  
          | LT2: Wiggins & McTighe - Jigsaw Chpt. 6 to 8  
          | In class time to work on LT2, Stage 2 |
|-------|-------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
|       | Stage 3: Plan the Learning Experience and Instruction                                            |                                                                                                                  |
|       | LT#1: Workshops                                                                                |                                                                                                                  |
|       | LT2: Wiggins & McTighe - Jigsaw Chpt. 9 to 10                                                   |                                                                                                                  |
|       | In class time to work on LT2, Stage 3                                                          |                                                                                                                  |
|       | Stage 4: Learner differentiation                                                                | Alberta Education. (nd). Benchmarks, strategies and resources for teachers of English language learners. http://www.learnalberta.ca/content/eslapb/ |
|       | LT#1: Workshops                                                                                |                                                                                                                  |
|       | In class time to work on LT2, Stage 4                                                          |                                                                                                                  |
| Day 9 | EQ: What does it mean to be a reflective practitioner?                                          | LT#2: Due: Friday, July 19, 9:00 am (for peer review). Final draft Monday, July 22                                                                 |
|       | Peer review of LT2                                                                            | LT#3: Due Monday, July 22                                                                                       |

**Changes to Schedule:**
Please note that changes to the schedule and readings may occur to meet the emerging needs and dynamics of the participants in the course.
LEARNING TASKS AND ASSESSMENT

LT1: Inquiry into the Teaching of Science Presentation (Group – pairs)

Due Date: Friday, July 12 @ 9:00 am  
Percentage of the Final Grade: 30%  
Length: 45 minutes (30 min interactive workshop, 15 min. Q & A)

“A multitude of countries are interested in improving K-12 science education for the purposes of producing a scientifically literate citizenry and increasing student interest in science-oriented careers” (Witzig & Sickel, 2017, p. 1).  
EQs: What does it mean to be scientifically literate in today’s world? Why is this important? What is the role of teachers of science in this endeavor?

The goal of this assignment is to further familiarize yourself with the Nature of Science (NOS) and to introduce the opportunities and challenges that science teachers face in translating curriculum documents, including the philosophy and rationale of the Programs of Study, into engaging instruction that leads to student understanding and development of related knowledge, skills, and attributes.

The intent of this learning task is for you to foster a professional conversation focused on pedagogical content knowledge within science education. You will develop and present an inquiry topic based on a key question to be explored within the teaching of science. Your questions should connect to class discussions, suggested readings, and the development of your lesson plan (LT 2).

During the course, you will present your work as a 45-minute Professional Development workshop for teachers, framed within the 5 E’s Instructional Model. The 5 E’s Instructional Model is based on the constructivist approach to learning and provides a model for how this strategy can be implemented for authentic, design-based, and inquiry-focused learning experiences. Each of the 5 E’s describes a phase of learning: Engage, Explore, Explain, Elaborate, and Evaluate. Please refer to: https://lesley.edu/article/empowering-students-the-5e-model-explained

Your presentation should focus on how these “understandings” will influence our science specific pedagogical content practice.

The topics/questions and further explanations will be presented to you in our first class.

Requirements:

• Specifics for presentation format: consider how to best present your work to your colleagues (new teachers) as a professional learning experience.

• List of resources/references used in the project. This must be presented in APA 7 citation format.

• A digital folder illustrating the evidence/support for your findings. Any workshop materials (i.e., handouts, slide presentations, etc.) should be included in the digital file. You can create these and/or share existing links or examples (where copyright permits). These must be placed in both Discussions and Assignments in D2L.

• In-class ‘workshop’ session that includes:
  • The personal and professional significance of the inquiry.
  • How the inquiry fits into our collaborative knowledge building related to science teaching and learning.
  • How the ideas generated from the inquiry may be achieved in planning, instruction, and student assessment with practical examples.
  • The implications for us as new teachers in developing our philosophical stance, professional identity, and practice.
<table>
<thead>
<tr>
<th>CRITERIA FOR ASSESSMENT OF LEARNING TASK 1</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Criteria</strong></td>
</tr>
<tr>
<td><strong>Quality &amp; Meaningfulness of Research Question</strong></td>
</tr>
<tr>
<td><strong>Rationale: What and Why do you want to know “this” with respect to informing pedagogical practice?</strong></td>
</tr>
<tr>
<td><strong>How will this presentation make a difference to our teaching of science?</strong></td>
</tr>
<tr>
<td><strong>Critique &amp; Critical Analysis</strong></td>
</tr>
<tr>
<td><strong>What are the connections between theory and practical situation?</strong></td>
</tr>
<tr>
<td><strong>Overall Presentation of Findings</strong></td>
</tr>
<tr>
<td><strong>How effective is the creation and development of conceptual ideas in contributing to our pedagogical content knowledge?</strong></td>
</tr>
</tbody>
</table>
LT2: Designing an Annotated Discipline-based Learning and Assessment Plan
(Individual submission – work in pairs/triads to develop sequential lessons)

Due Date: Friday, July 19, 9:00 am (for peer editing), Final submission, Monday, July 22
Percentage of the Final Grade: 45%

Intent of LT2: The intent of LT2 is to design and annotate a short-term learning and assessment plan.

Expectations of LT3:

• You may work collaboratively on a series of sequential lessons (pairs/triads) but must submit individual learning plans. Each student will design a short-term learning and assessment plan. The plan will be comprised of ONE lesson plan for:
  • an 80-minute class for grade 10 -12
  • a 60-minute class for grade 7 – 9
  • a 30 - 40-minute class for K- 6

• The learning plan must follow a clear and comprehensive design for learning focused template that promotes deep understandings of a key concept or competency of your discipline. Using the rubric on the next page, as a guide, your plan must include the 10 aspects of McTighe and Wiggins’ framework.

• You will record/annotate (making your thinking visible), using mark-ups on the lesson design, the reasons for the choices you have made including: (i) how this reflects a design approach (UbD), (ii) how this lesson plan fits into the broader context of a unit, (iii) the intended pedagogical content knowledge choices you have made. Use the following resources and rubric to guide your annotation.

Resources:
Alberta Assessment Consortium: https://aac.ab.ca/ Username: U of C email
Doucette Library – Library guide for lesson planning:
http://libguides.ucalgary.ca/lesson_planning_resources
## Criteria for Assessment of Learning Task 2

<table>
<thead>
<tr>
<th>Criteria</th>
<th>A to A+</th>
<th>A- to B+</th>
<th>B to B-</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Alignment with Big Ideas and Enduring Understandings</strong></td>
<td>The lesson plan demonstrates a clear alignment with the overarching unit’s general outcome and the enduring understanding is well-developed and deeply integrated throughout the plan.</td>
<td>The lesson plan shows alignment with the overarching unit’s general outcome and the enduring understanding is evident, although some connections may require further development or clarification.</td>
<td>The lesson plan exhibits limited alignment with the overarching unit’s general outcome and the enduring understanding is inconsistently integrated, indicating a need for stronger connections and more explicit integration.</td>
</tr>
<tr>
<td><strong>Targeted Understanding: Clarity of Learning Goals and Specific Outcomes</strong></td>
<td>Specific learning outcome is clearly stated, aligned with a Program of Study (PoS) and reflects important knowledge, skills and attitudes along with the unit emphasis (NoS, ST, STS, STSE).</td>
<td>Specific learning outcomes are generally clear and aligned with standards but may lack specificity in some areas.</td>
<td>Specific learning outcomes are somewhat unclear or not fully aligned with standards, making it difficult to determine what students should know, understand, and be able to do.</td>
</tr>
<tr>
<td><strong>Framing of targeted understandings by essential questions</strong></td>
<td>The essential question(s) foster genuine inquiry and critical thinking, deeply aligning with the targeted understanding. The question(s) effectively frame key concepts, encouraging students to explore complex relationships within the content and apply their understanding to new challenges.</td>
<td>Essential question(s) demonstrate alignment with the targeted understanding, yet lack depth or clarity, and while they generally frame key concepts and encourage exploration, they do not consistently promote deep exploration or effectively prompt application to new challenges.</td>
<td>Essential question(s) is somewhat aligned with the targeted understanding but potentially has limited effectiveness in fostering inquiry and critical thinking, providing limited framing of key concepts and fail to effectively encourage exploration or application to new challenges.</td>
</tr>
<tr>
<td><strong>Misconceptions</strong></td>
<td>Misconceptions are relevant and targeted within the lesson.</td>
<td>Some misconceptions are identified and somewhat targeted.</td>
<td>Some misconceptions are identified, but not targeted.</td>
</tr>
</tbody>
</table>

### Stage 1 - Lesson Rationale:
To what extent does the design focus on building understanding of targeted content based on an Alberta Education Program of Studies?

- **Alignment with Big Ideas and Enduring Understandings**
  - Annotations display a sophisticated and elegant understanding and analysis of the role of planning in lesson design.
  - Annotations display an understanding, if not analysis, of the role of planning in lesson design.
  - Annotations display some understanding of the role of planning in lesson design but lacks analysis.

### Stage 2 - Assessment Evidence:
To what extent do the assessments provide fair, valid, reliable, and sufficient measures of the desired results?

- **Balanced Assessment**
  - Balanced assessment is integral to the learning and woven into the fabric of teaching and learning. Appropriate criterion-based scoring tools are used to evaluate student products and performances.
  - Balanced assessment is used on a regular basis and is part of the teaching and learning. Some criterion-based scoring tools are used to evaluate student products and performances.
  - Assessment is primarily summative with limited or irregular use of formative assessment to improve teaching and learning.
<table>
<thead>
<tr>
<th>Alignment of Learning Outcome with Assessment Criteria</th>
<th>Criteria align closely with stated learning outcome for the lesson. They reflect the specific knowledge or skills that students are expected to demonstrate as a result of the lesson.</th>
<th>Criteria generally align with learning outcome but may lack some specificity or alignment in certain areas.</th>
<th>Criteria shows limited alignment with learning outcome and hinders their effectiveness in guiding student learning.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transparency and Student Involvement</td>
<td>Criteria are transparently communicated to students, ensuring they understand how their performance will be assessed and what factors will be considered in evaluation.</td>
<td>Criteria are communicated to students, but transparency or student involvement may vary.</td>
<td>Criteria are poorly communicated to students, leading to confusion or misunderstanding about assessment expectations.</td>
</tr>
<tr>
<td>Self and Peer Assessment</td>
<td>Students have numerous and appropriate opportunities to actively engage in both self-assessment and peer-assessment with clear understanding of assessment criteria and opportunity to provide thoughtful feedback.</td>
<td>Students have some opportunities to participate in self-assessment and peer-assessment.</td>
<td>Students’ participation in self-assessment and peer-assessment is limited.</td>
</tr>
</tbody>
</table>

**Stage 3: To what extent is the learning plan effective and engaging?**

<table>
<thead>
<tr>
<th>Alignment with 5Es Cognitive Learning Model</th>
<th>The design exhibits a comprehensive alignment with the 5Es model, seamlessly integrating all five phases in a sequential and coherent fashion, ensuring each phase is clearly defined and purposefully integrated to furnish students with a structured and meaningful learning experience conducive to fostering deep understanding.</th>
<th>The design employs the 5Es cognitive learning model, integrating the majority of its five phases cohesively, though with minor inconsistencies or gaps, overall providing students with opportunities for engaging in exploratory activities, cultivating conceptual understanding, and applying their learning meaningfully.</th>
<th>The design partially incorporates the 5Es cognitive learning model, integrating some aspects while lacking coherence or consistency in implementation, potentially leading to notable omissions or deficiencies in certain phases, thus resulting in a fragmented learning experience for students.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design Is Informed by Pedagogical Content Knowledge</td>
<td>The design demonstrates a sophisticated integration of science content knowledge (including scientific concepts, principles, theories, and models) and pedagogical expertise (such as inquiry-based learning strategies, hands-on activities, and real-world applications), creating meaningful learning experiences.</td>
<td>While there is room for deeper integration of subject matter knowledge and pedagogical practices to enhance the design, lessons demonstrate a good understanding of effective Science teaching, showing potential to facilitate student learning and engagement in the subject.</td>
<td>The design demonstrates minimal content and pedagogical expertise in science, lacking an in-depth understanding of the intricacies of teaching the subject.</td>
</tr>
<tr>
<td>Work Fosters Deep Understanding</td>
<td>Lessons consistently facilitate deep understanding of the content by encouraging students to make connections, analyze information critically, and apply concepts in diverse contexts.</td>
<td>Lessons generally prioritize deep understanding over surface-level knowledge acquisition.</td>
<td>Lessons predominantly focus on surface-level knowledge acquisition, with activities that emphasize acquiring information, facts, and formulas.</td>
</tr>
</tbody>
</table>
## Authenticity of Tasks

| The learning tasks closely resemble real-world scientific practices, requiring students to apply scientific knowledge and skills in a meaningful context, aligning with authentic scientific inquiry, problem-solving, critical thinking, and scientific reasoning. | The learning tasks reflect elements of real-world scientific practices, providing students with opportunities to apply scientific knowledge and skills in a relevant context, with limited opportunity to engage in inquiry, problem-solving, critical thinking, and scientific reasoning. | The learning tasks lack authenticity, failing to resemble real-world scientific practices or provide meaningful context for students' learning, relying too heavily on rote memorization or procedural tasks, limiting students' opportunities for meaningful engagement with scientific inquiry. |

## Differentiated Instruction

| The design incorporates a diverse range of tasks and activities that cater to multiple learning styles, interests, and readiness levels. Tasks are appropriately scaffolded to support learners at different skill levels, ensuring that all students are appropriately challenged and supported. | The design includes differentiated tasks and activities that address different learning styles, interests, and readiness levels to a satisfactory extent. | Differentiation of tasks and activities is limited or lacking in the design. There is little evidence of intentional efforts to address diverse learner needs, and instruction may primarily follow a one-size-fits-all approach. |

## Alignment with UbD Principles

| Learning experiences are aligned with UbD principles, emphasizing essential questions, inquiry-based learning, and authentic tasks that promote deep understanding. | Learning experiences mostly align with UbD principles but may lack coherence or consistency in their implementation. | Learning experiences have some alignment with UbD principles, but fail to consistently incorporate essential questions, inquiry, or authentic tasks. |

### LT3: Evolving Understanding of the Teaching of Science (Individual)

**Due Date:** Monday, July 22  
**Percentage of the Final Grade:** 25%

**Format:** For this assignment you will respond to the questions below as way of reflecting thoughtfully on the contexts and challenges within science education today. Your response may take several forms. It could be a conventional academic essay, an imagined Socratic dialogue between a teacher and student, an illustrated story, an animation, a short video or a podcast. Length: 700 words, 5 minutes.

**Intent of LT3:** The purpose of the assignment is to provide a response to the following question: *How is your conceptualization of teaching Science changing, being modified, or reinforced throughout the course?* Your response will be in the form of a self-reflection, writing from a personal perspective that allows you to connect directly with course material, other course and personal experience in learning science.
### CRITERIA FOR ASSESSMENT OF LEARNING TASK 3

<table>
<thead>
<tr>
<th>Criteria</th>
<th>A to A+</th>
<th>B+ to A-</th>
<th>B- to B</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Meets all and exceeds some requirements</td>
<td>Meets all requirements</td>
<td>Meets most requirements</td>
</tr>
<tr>
<td><strong>Clarity and Insightfulness</strong></td>
<td>The response articulates a clear, insightful and coherent understanding of teaching science. Insights are communicated with precision and clarity, offering a clear perspectives and thoughtful analysis. The response effectively addresses the complexities and challenges associated with teaching science.</td>
<td>The response demonstrates a solid understanding of teaching science with insights that are generally clear, insightful, and coherent. Occasional lapses in clarity or depth of analysis.</td>
<td>The response offers a limited understanding of teaching science with insights that lack clarity or coherence and inconsistencies in the explanation, resulting in a somewhat fragmented understanding of the topic.</td>
</tr>
<tr>
<td><strong>Uses of specific, concrete examples to explain and illustrate insights (evidence)</strong></td>
<td>The response effectively uses specific, concrete examples to explain and illustrate insights, providing relevant and compelling evidence to support key points.</td>
<td>The response incorporates some specific examples to support insights, offering evidence to strengthen key points.</td>
<td>The response includes limited examples to support insights, with evidence that may lack relevance or insufficiently developed.</td>
</tr>
<tr>
<td><strong>Organization and Structure</strong></td>
<td>The response is well-organized, with a clear and logical structure for communicating insights. Ideas are presented in a coherent and systematic manner. The response flows smoothly from one point to the next, enhancing the readability/viewing.</td>
<td>The response demonstrates adequate organization and structure for communicating insights. While there may be some minor disruptions in flow or organization, overall, the response presents ideas in a reasonably clear and coherent manner, allowing readers/viewers to follow the argument effectively.</td>
<td>The response lacks organization or structure, making it difficult for readers/viewers to follow the flow of ideas. There may be inconsistencies or abrupt transitions between points, hindering the overall coherence and effectiveness of the response.</td>
</tr>
</tbody>
</table>
THE EXPECTATION OF EXCELLENCE IN PROFESSIONAL WORK

Please review the Academic Calendar carefully. It describes the program and provides detailed schedules and important dates. It contains information on expectations for student work and professional conduct. In addition, procedures are described regarding concern about student performance in the program. Please pay especially careful attention to details and descriptions in the following topic areas:

- **The Importance of Attendance and Participation in Every Class**
  As this is a professional program, experiences are designed with the expectation that all members will be fully involved in all classes and in all coursework experiences. As you are a member of a learning community your contribution is vital and highly valued, just as it will be when you take on the professional responsibilities of being a teacher. We expect that you will not be absent from class with the exception of documented instances of personal or family illness or for religious requirements.

- **Engagement in Class Discussion and Inquiry**
  Another reason for the importance of attendance and participation in every class is that the course involves working with fellow students to share ideas and thinking. For example, each class you will work with a small group to engage fellow students in discussions on work being considered in class. You will also help other groups by providing ideas for scholarly inquiry in assignments. If you find that you are experiencing difficulties as a group collaborating, please inform the instructor.

**EXPECTATIONS FOR WRITING**

All written assignments (including, to a lesser extent, written exam responses) will be assessed at least partly on writing skills. Writing skills include not only surface correctness (grammar, punctuation, sentence structure, etc.) but also general clarity and organization. Sources used in research papers must be properly documented. If you need help with your writing, you may use the writing support services in the Learning Commons. For further information, please refer to the official online University of Calgary Calendar, Academic Regulations, E. Course Information, E.2: Writing Across the Curriculum: [http://www.ucalgary.ca/pubs/calendar/current/e-2.html](http://www.ucalgary.ca/pubs/calendar/current/e-2.html)

**LATE SUBMISSIONS**

All late submissions of assignments must be discussed with the instructor prior to the due date. Students may be required to provide written documentation of extenuating circumstances (e.g. statutory declaration, doctor’s note, note from the University of Calgary Wellness Centre, obituary notice). A deferral of up to 30 days may be granted at the discretion of the Associate Dean of Undergraduate Programs with accompanying written evidence.

**ISSUES WITH GROUP TASKS**

With respect to group work, if your group is having difficulty collaborating effectively, please contact the instructor immediately. If a group is unable to collaborate effectively or discuss course materials online in a timely manner, the instructor may re-assign members to different groups or assign individual work for completion.
GRADING

<table>
<thead>
<tr>
<th>Grade</th>
<th>GPA Value</th>
<th>%</th>
<th>Description per U of C Calendar</th>
</tr>
</thead>
<tbody>
<tr>
<td>A+</td>
<td>4.0</td>
<td>95-100</td>
<td>Outstanding</td>
</tr>
<tr>
<td>A</td>
<td>4.0</td>
<td>90-94</td>
<td>Excellent – Superior performance showing comprehensive understanding of the subject matter</td>
</tr>
<tr>
<td>A-</td>
<td>3.7</td>
<td>85-89</td>
<td>Good - clearly above average performance with knowledge of subject matter generally complete</td>
</tr>
<tr>
<td>B+</td>
<td>3.3</td>
<td>80-84</td>
<td>Good - clearly above average performance with knowledge of subject matter generally complete</td>
</tr>
<tr>
<td>B</td>
<td>3.0</td>
<td>75-79</td>
<td>Good - clearly above average performance with knowledge of subject matter generally complete</td>
</tr>
<tr>
<td>B-</td>
<td>2.7</td>
<td>70-74</td>
<td>Good - clearly above average performance with knowledge of subject matter generally complete</td>
</tr>
<tr>
<td>C+</td>
<td>2.3</td>
<td>65-69</td>
<td>Satisfactory - basic understanding of the subject matter</td>
</tr>
<tr>
<td>C</td>
<td>2.0</td>
<td>60-64</td>
<td>Satisfactory - basic understanding of the subject matter</td>
</tr>
<tr>
<td>C-</td>
<td>1.7</td>
<td>55-59</td>
<td>Minimal pass - Marginal performance</td>
</tr>
<tr>
<td>D+</td>
<td>1.3</td>
<td>52-54</td>
<td>Minimal pass - Marginal performance</td>
</tr>
<tr>
<td>D</td>
<td>1.0</td>
<td>50-51</td>
<td>Minimal pass - Marginal performance</td>
</tr>
<tr>
<td>F</td>
<td>0.0</td>
<td>49 and lower</td>
<td>Fail - Unsatisfactory performance</td>
</tr>
</tbody>
</table>

Students in the B.Ed. program must have an overall GPA of 2.5 in the semester to continue in the program without repeating courses.

Academic Accommodation
It is the student’s responsibility to request academic accommodations according to the University policies and procedures listed below. The student accommodation policy can be found at: [https://www.ucalgary.ca/legal-services/sites/default/files/teams/1/Policies-Student-Accommodation-Policy.pdf](https://www.ucalgary.ca/legal-services/sites/default/files/teams/1/Policies-Student-Accommodation-Policy.pdf). Students needing an accommodation because of a disability or medical condition should communicate this need to Student Accessibility Services in accordance with the Procedure for Accommodations for Students with Disabilities: [ucalgary.ca/legal-services/sites/default/files/teams/1/Policies-Accommodation-for-Students-with-Disabilities-Procedure.pdf](ucalgary.ca/legal-services/sites/default/files/teams/1/Policies-Accommodation-for-Students-with-Disabilities-Procedure.pdf). Students needing an accommodation in relation to their coursework based on a Protected Ground other than Disability, should communicate this need, preferably in writing, to their Instructor.

Academic Misconduct
For information on academic misconduct and its consequences, please see the University of Calgary Calendar at [http://www.ucalgary.ca/pubs/calendar/current/k.html](http://www.ucalgary.ca/pubs/calendar/current/k.html)

Attendance/ Prolonged Absence
Students may be asked to provide supporting documentation for an exemption/special request. This may include, but is not limited to, a prolonged absence from a course where participation is required, a missed course assessment, a deferred examination, or an appeal. Students are encouraged to submit documentation that will support their situation. Supporting documentation may be dependent on the reason noted in their personal statement/explanation provided to explain their situation. This could be medical certificate/documentation, references, police reports, invitation letter, third party letter of support or a statutory declaration etc. The decision to provide supporting documentation that best suits the situation is at the discretion of the student.

Falsification of any supporting documentation will be taken very seriously and may result in disciplinary action through the Academic Discipline regulations or the Student Non-Academic Misconduct policy.
https://www.ucalgary.ca/pubs/calendar/current/n-1.html

The Freedom of Information Protection of Privacy Act prevents instructors from placing assignments or examinations in a public place for pickup and prevents students from access to exams or assignments other than their own. Therefore, students and instructors may use one of the following options: return/collection assignments during class time or during instructors’ office hours, students provide instructors with a self-addressed stamped envelope, or submit/return assignments as electronic files attached to private e-mail messages.

For additional resources including, but not limited to, those aimed at wellness and mental health, student success or to connect with the Student Ombuds Office, please visit https://www.ucalgary.ca/registrar/registration/course-outlines

Education Students Association (ESA) President for the academic year is Claire Gillis, esa@ucalgary.ca.

Werklund SU Representative is TBA, educrep@su.ucalgary.ca.