

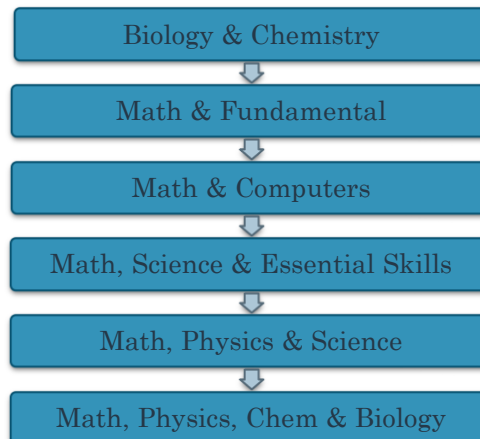
# Evolving Pedagogy: *Embracing HyFlex and Emerging Trends*

By Marcie Lundin

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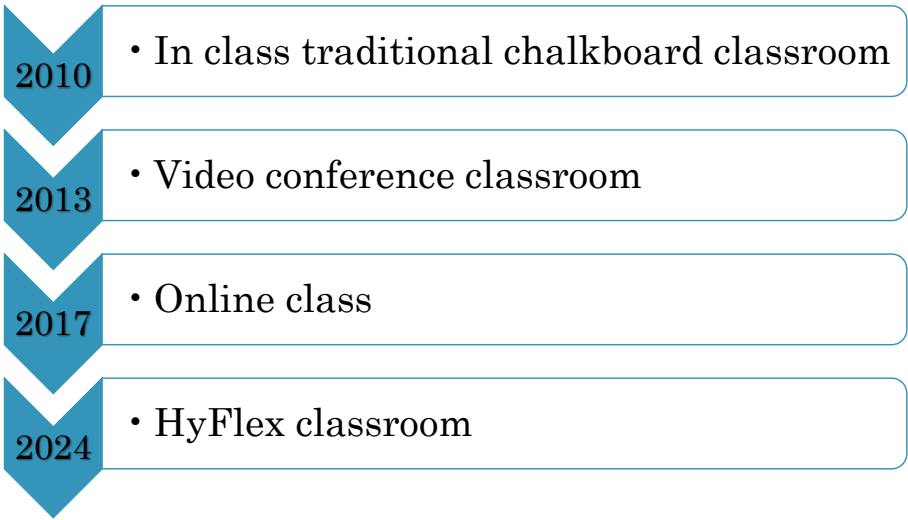
## About Me – Marcie Lundin

- 2009/2010 BSc Biology from UNBC
- 2010 Started teaching upgrading in T'say Keh Dene
- 2011 Started teaching upgrading at Northern Lights College



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# The Evolving Classroom



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# Evolving Pedagogy

The Block Intake Synchronous  
Face to Face Classroom

- ✓ Face-to-face interactions
- ✓ High engagement
- ✓ Lectures & games
- ✓ Accountability to others
- ✓ Low attrition
- Structured
- Declining enrollment
- Barriers towards access

The Continuous Intake  
Asynchronous Online Course

- Online interactions
- Low engagement
- Self teaching
- Personal accountability
- High attrition
- ✓ Flexible
- ✓ Booming enrollment
- ✓ Increased student access

Clover, Isabelle; elearningindustry 2023

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## Question

- How could you have a course that meets the needs of the institution, student, and instructor?

### Institution

- Flexibility
- High enrollment
- Maximum access
- Asynchronous continuous intake
- Student experience

### Student

- Low barriers
- Accountability
- Flexibility
- Instructor contact
- Success

### Instructor

- Student success
- Student engagement
- Student accountability
- Student contact

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# HyFlex

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## What is HyFlex?

A combination of hybrid learning (combining in-person and online learning) while also having a flexible structure

- Student chose their preferred course format
- Optional instructor contact
- Equality between online or lecture
- Online resources
- Asynchronous or synchronous
- Continuous intake or block intake
- **Flexible**

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## Proposed NLC HyFlex Course Format



Online content along with video conferenced lectures with Teams bridging



Asynchronous online



Optional lectures 2x per week



Continuous intake



Labs onsite or offsite

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# My Physics Course Structure

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**Optional live lessons**

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**Attendance**

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**Annotated lecture notes**

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**Videos**

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**Bookwork**

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**Online assessments**

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## Accountability

- Personal schedule
- Instructor contact
- Attendance

Suggested Schedule for Physics 040 Online

Week	Goal Dates	Topic	Assessment	Date Completed
1		Chapters 1.2	Getting to know you quiz Scientific Notation Assignment	
2		Chapters 1.2 - 1.3 + extra	Math Worksheet Assignment Chapter 1 bookwork Lab 1	
3		Chapter 2.1	Quiz 1	
4		Chapter 2.2 - 2.3		
5		Chapter 2.4 - 2.5	Chapter 2 bookwork Lab 2	
6		Chapter 3.1 - 3.2	Quiz 2	
7		Chapter 3.3 - 3.5	Lab 3	

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## HyFlex Attendance

- **2.5% of course mark**
- **Increases accountability of time commitment and progress**
- **Can be in person or online**
- **Online uses muddiest point**
  - What are you struggling with?
  - Find a resource online
  - Ah-ha moment / how did it help?
  - Do you need help?

ChatGPT

www.

YouTube

PhET

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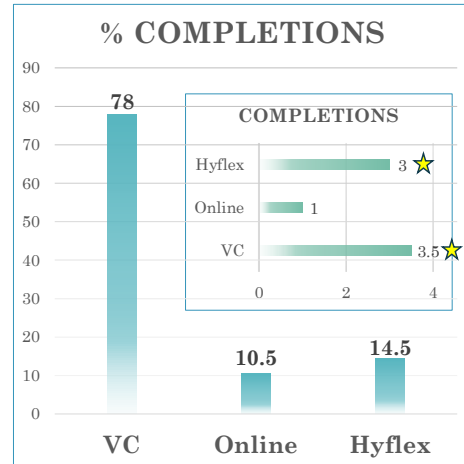
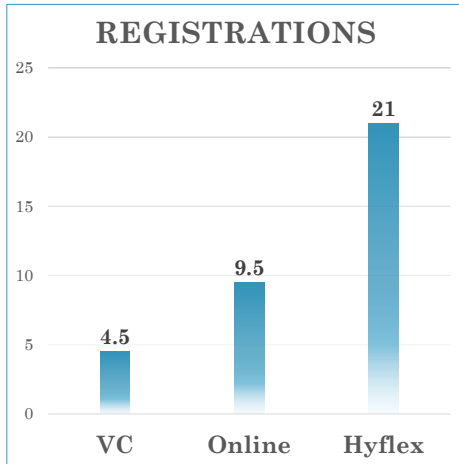
## Assessments and Academic Integrity

- Encourage students to responsibly utilize online resources
- D2L Dropbox has Turnitin for assignments / labs
- All testing on D2L other than final exam
  - Timed testing
  - Can repeat quizzes
  - Midterm requires work to be uploaded
- In person invigilated final exam
  - Student must achieve 50% to pass the course

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## The Data

Graphical data of course format vs average registrations and completions for one semester of advanced level physics from 2018 - 2024



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## What worked well

- ✓High enrollment
- ✓High success for students who attended lectures
- ✓In class student engagement
- ✓Student bonds
- ✓Student teacher relationships
- ✓Flexible lab options
- ✓In person student accountability and progress
- ✓Meeting institutional strategic plan



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## What I would change

- Find alternative attendance tracking
- Muddiest point as an assignment
- D2L conditional releases
- Find incentives for more students to attend lectures
- Increase success for students who do not attend
- Utilize more AI

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“Not even the best online course can fully replace the personal contact with a teacher, or the human relationships that develop in a group”

- Stephen Armstrong; elearningindustry.com 2023

“For higher education to remain relevant in the post-pandemic era, both physical and virtual learning spaces must be incorporated into pedagogical practices.”

- Jodie Penrod; EDUCAUSE 2022

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# Questions?

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- Useful resources for teaching HyFlex

- PhET simulations <https://phet.colorado.edu/>
- Mentimeter <https://www.menti.com/al7vvarnaqfe>
- ChatGPT <https://openai.com/index/chatgpt/>

- References:

- Armstrong, Stephen. "What Are the Advantages and Disadvantages of Online Learning?" ELearning Industry, eLearning Industry, 28 Mar. 2024, [elearningindustry.com/advantages-and-disadvantages-of-online-learning](https://elearningindustry.com/advantages-and-disadvantages-of-online-learning).
- Clover, Isabelle. "Advantages and Disadvantages of ELearning." ELearning Industry, eLearning Industry, 19 Jan. 2023, [elearningindustry.com/advantages-and-disadvantages-of-elearning](https://elearningindustry.com/advantages-and-disadvantages-of-elearning).
- Penrod, Jodie. "Staying Relevant: The Importance of Incorporating HyFlex Learning into Higher Education Strategy." Er.educause.edu, 25 Mar. 2022, [er.educause.edu/articles/2022/3/staying-relevant-the-importance-of-incorporating-hyflex-learning-into-higher-education-strategy](https://er.educause.edu/articles/2022/3/staying-relevant-the-importance-of-incorporating-hyflex-learning-into-higher-education-strategy).

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