

Welcome to the Certificate in Climate Studies and Action

September 11 2023, Info Session

**BACK
TO
SCHOOL**



THE UNIVERSITY OF BRITISH COLUMBIA
Certificate in Climate Studies and Action

Land Acknowledgement

We would like to begin by acknowledging that the land on which we gather is the traditional, ancestral, and unceded territory of the xwməθkwəyəm (Musqueam) People.

What does meaningful engagement with the ISP mean for our work?

For us, in our work, we answered that it means:

1. Creating a supportive space for Indigenous students.
2. Building out course content to:
 - foreground the relationship between Indigenous rights and title, self-determination and climate change
 - complicate and denaturalize stereotypes about Indigenous Peoples, including universalizing, romanticizing and victim narratives
 - connect climate change to colonial processes and better understand those connections from a range of scholarship, including that of Indigenous scholars
 - introduce the tensions of what reconciliation and decolonization are, or should be, and the limits and pitfalls of those frameworks

Key People



Dr. Jess Dempsey
(Co-director)



Dr. Sara Harris
(Co-director)



Suzanne Lawrence
(Certificate Administrator;
climate.certificate@ubc.ca)

What are the program objectives?

- To be a climate change option open to **ALL** undergraduate students at UBC
- To meet the student demand for climate action oriented curriculum
- To train climate action advocates, providing them with skills and a wide range of disciplinary approaches to understanding the problem and the “solutions”

What is a certificate?

- Like a mini-minor (12-18 credits) but without the restrictions on credit overlap. **All of the credits in the certificate can also count towards your primary degree program.**

Program Learning Objectives

1 Apply Climate Literacy

- Interpret climate change and its disproportionate impacts through an interdisciplinary, intersectional lens that combines climate science and the socio-political, economic, cultural and historical drivers, including racialization, colonialism and capitalism.
- Delineate the scale and scope of decarbonization and energy transitions aligned with a 1.5°C future.

3 Develop a Practice For Climate Action

- Acquire an interdisciplinary practice that supports work in climate action including:
 - systems and interdisciplinary thinking
 - value mapping
 - engaging diverse knowledge systems (including Indigenous)
 - relationship building
 - reciprocal research practice
 - climate communications

2 Critically Assess Climate Strategies

- Assess the efficacy and equity of various efforts, policies and strategies that have been developed to address climate change
- Engage concepts like climate justice and just transitions and debate their meaning, importance and application to climate change and decarbonization.

4 Contribute to Climate Action, Discourse and Activities

- Engage with the climate change community within UBC and beyond
- Make critical and hopeful contributions to dialogue on climate change in public space
- Design and implement interdisciplinary, community-engaged climate action projects.

Certificate Structure

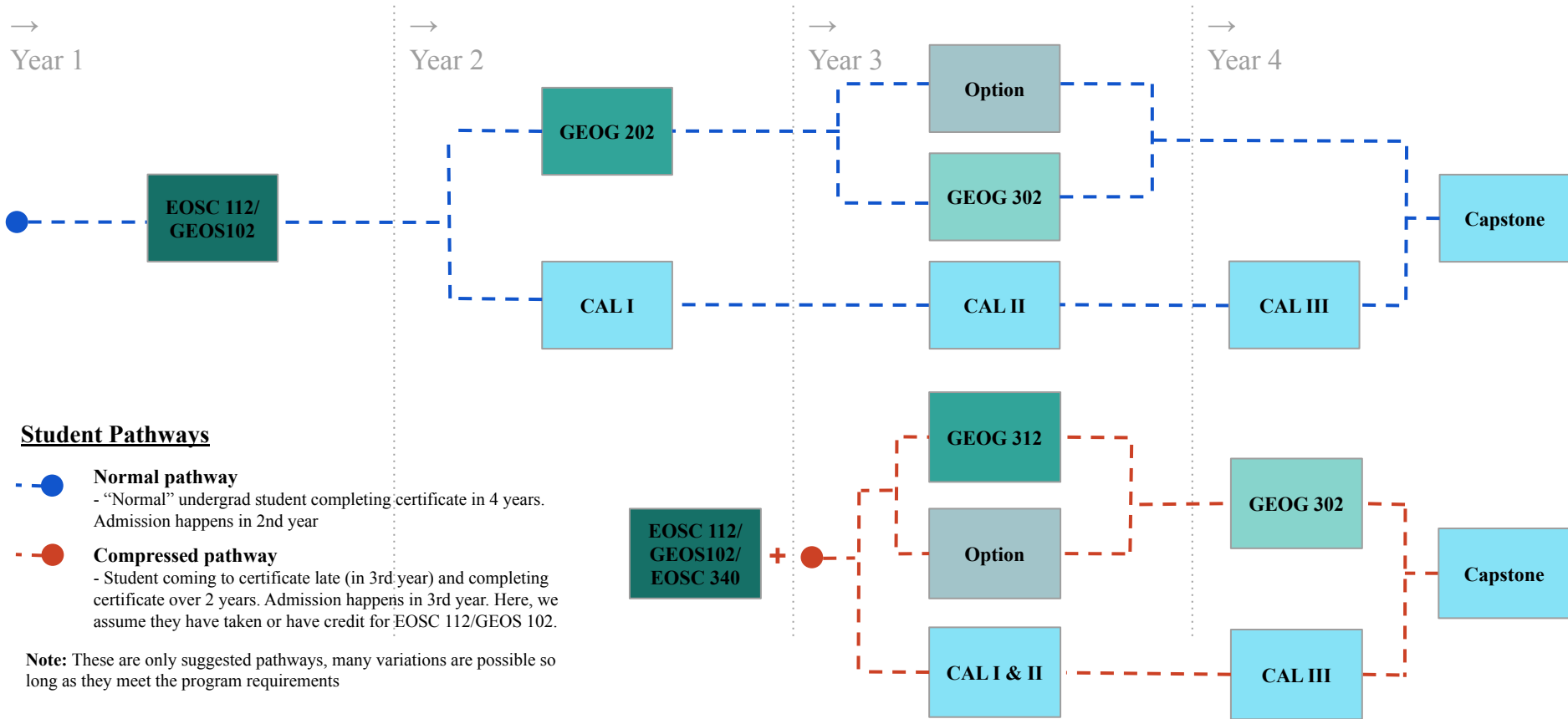
18 credits total, 5 required course sets, 8 individual courses

Climate Science (3 credits)	Climate Emergency (3 credits)	Climate Justice (3 credits)	Options (3 credits)	Climate Action (6 credits)
One of: GEOS 102, EOSC 112, EOSC 340	One of: GEOG 202 , GEOG 312, CONS 210*	GEOG 302	One of: CONS 310, CONS 425, ENVR 410, EOSC 340, GEOG 312, GEOS 408, NURS 290, POLI 351 or FNIS 401H	Climate Action Labs (ENVR 201, 301, 302, 401) and Capstone (ENVR/GEOG 402)

Notes:

- **Courses developed for the Certificate are in red**
- GEOS is the new GEOB
- 300-level options are included for Climate Science (EOSC 340) and Climate Emergency (GEOG 312) course sets to accommodate upper level students that need to meet upper-level credit degree requirements
- Credits can only be applied to one category (i.e. EOSC 340 and GEOG 312 can only be used in one course set)
- *The CONS 210 option in the Climate Emergency course set is only available to Forestry students
- ENVR 201, ENVR 301 and ENVR 401 are intended to be taken as three 1-credit courses over three years. ENVR 302 combines 201 and 301 into a 2-credit option. With approval from the certificate co-Directors, students needing to compress the certificate into two years can take ENVR 302.
- The ENVR and GEOG version of the capstone are equivalents. Students can take whichever course best fits their requirements
- FNIS 401H (Indigenous Peoples and Climate Change) is a new course and option this year. Class full as of 4 Sep 2023 but waitlist available.

Visual Summary



Climate Studies IBPOC Student Support Fund

Fund that provides assistance to undergraduate students from Indigenous, Black and other racialized communities of colour who are studying climate change at UBC.

To be eligible:

- Identify as IBPOC
- Be an undergraduate student
- Be actively involved in climate change work or studies

*preference given to students enrolled in the Certificate

Amount in 2023-24: \$1000 to one recipient or \$500 to two recipients

Deadline: September 30 2023

- Statement of intent (300 words max) and letter of reference

Apply online: <https://geog.ubc.ca/climate-studies-ibpoc-student-support-fund/>

How to apply + Resources

Admittance to the Certificate is on a **first-come-first-serve** basis but requires you to complete a statement of intent and a degree plan. Apply via the Certificate website!

Certificate website:

<https://geog.ubc.ca/undergraduate/climate-certificate/>

Calendar page:

<https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-arts/certificate-climate-studies-and-action>

Advising or application questions - reach out to the Certificate Administrator (Suzanne Lawrence): climate.certificate@ubc.ca

Questions?



Extra slides for each specific course set

Feedback for us:

What are you excited about?

What would you like out of a capstone class?

Why did you sign up?

Climate Science

Climate science, impacts, future scenarios, systems-thinking, using science in public spaces



EOSC 112

The Fluid Earth: Atmosphere and Oceans

- Introduction to processes in ocean and atmosphere. Heat, current, winds, clouds, marine life, resources. Effects of coupling, climate change, pollution.



GEOS 102

Our Changing Environment: Climate & Ecosystems

- Energy and water in the Earth-Atmosphere system, global climates and climate change, ecosystem properties and processes, human impacts



EOSC 340

Global Climate Change

- Mechanisms and processes of past and future global environmental and climate change.

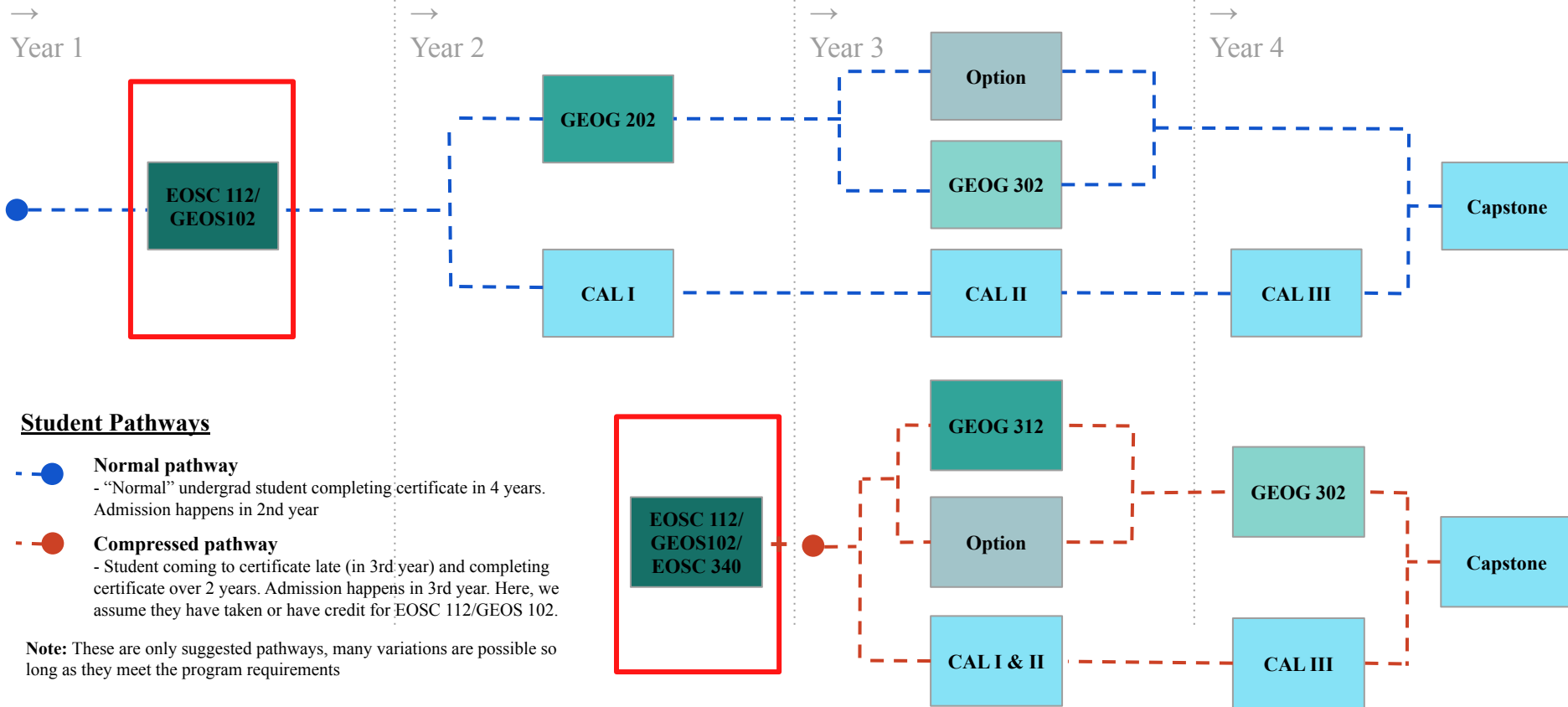


Normal Pathway



Compressed Pathway

Visual Summary



Climate Action: Climate Action Labs

2nd, 3rd and 4th year students work together in teams to develop proposals that meet the needs of the community partner organization



ENVR 201*

CAL I

- ENVR 201 will focus on learning from the perspectives and/or knowledge of Indigenous peoples relating to climate action.



ENVR 301*

CAL II

- ENVR 301 will focus on local climate action and develop systems thinking skills.



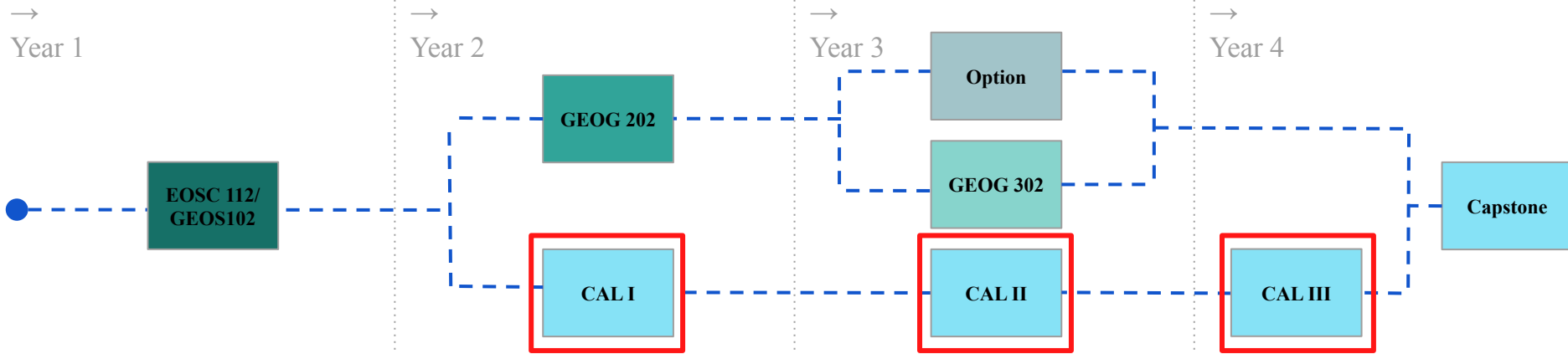
ENVR 401*

CAL III

- ENVR 401 is focused on facilitating conversations and leadership. 401 students will lead the teams in the climate action proposals and take a peer-teaching role by facilitating workshops.

Note: **ENVR 302** is also available as a 2-credit option, combining elements of 201 and 301 for students needing to complete the certificate in 2 years

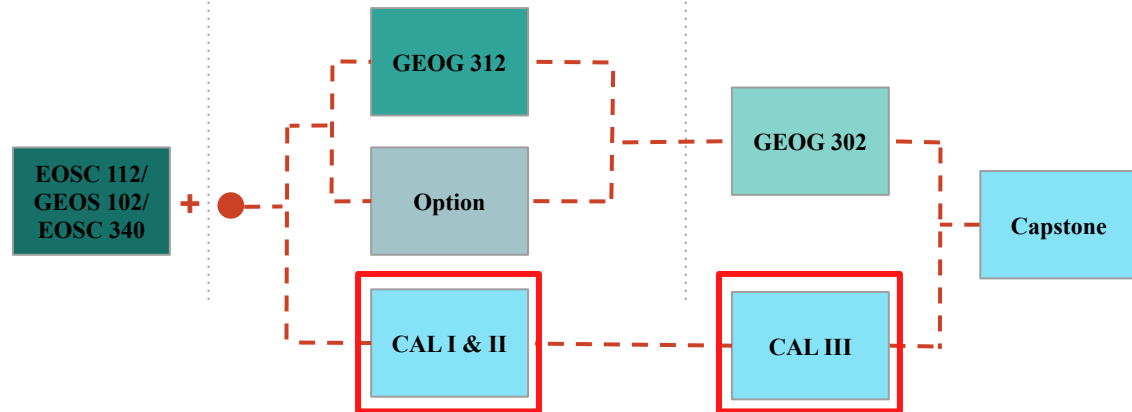
Visual Summary



Student Pathways

- ● **Normal pathway**
 - “Normal” undergrad student completing certificate in 4 years. Admission happens in 2nd year
- ● **Compressed pathway**
 - Student coming to certificate late (in 3rd year) and completing certificate over 2 years. Admission happens in 3rd year. Here, we assume they have taken or have credit for EOOSC 112/GEOS 102.

Note: These are only suggested pathways, many variations are possible so long as they meet the program requirements



Climate Emergency

* New Course

** Only available for Forestry students

Just and sustainable futures, decarbonization, living strategies to mitigation, adaptation and climate problems



GEOG 202*

Climate Emergency

- Science, impacts, and parallel crises of the climate emergency; decarbonization challenge and measuring progress towards emission targets; strategies and tools for climate action at local, national, and global levels.



GEOG 312

Climate Change: Science & Society



- Climates over the geological, historical and instrument periods. Theories of climatic change. Monitoring and modelling the climate system. Impacts of change on environmental and socio-economic systems.



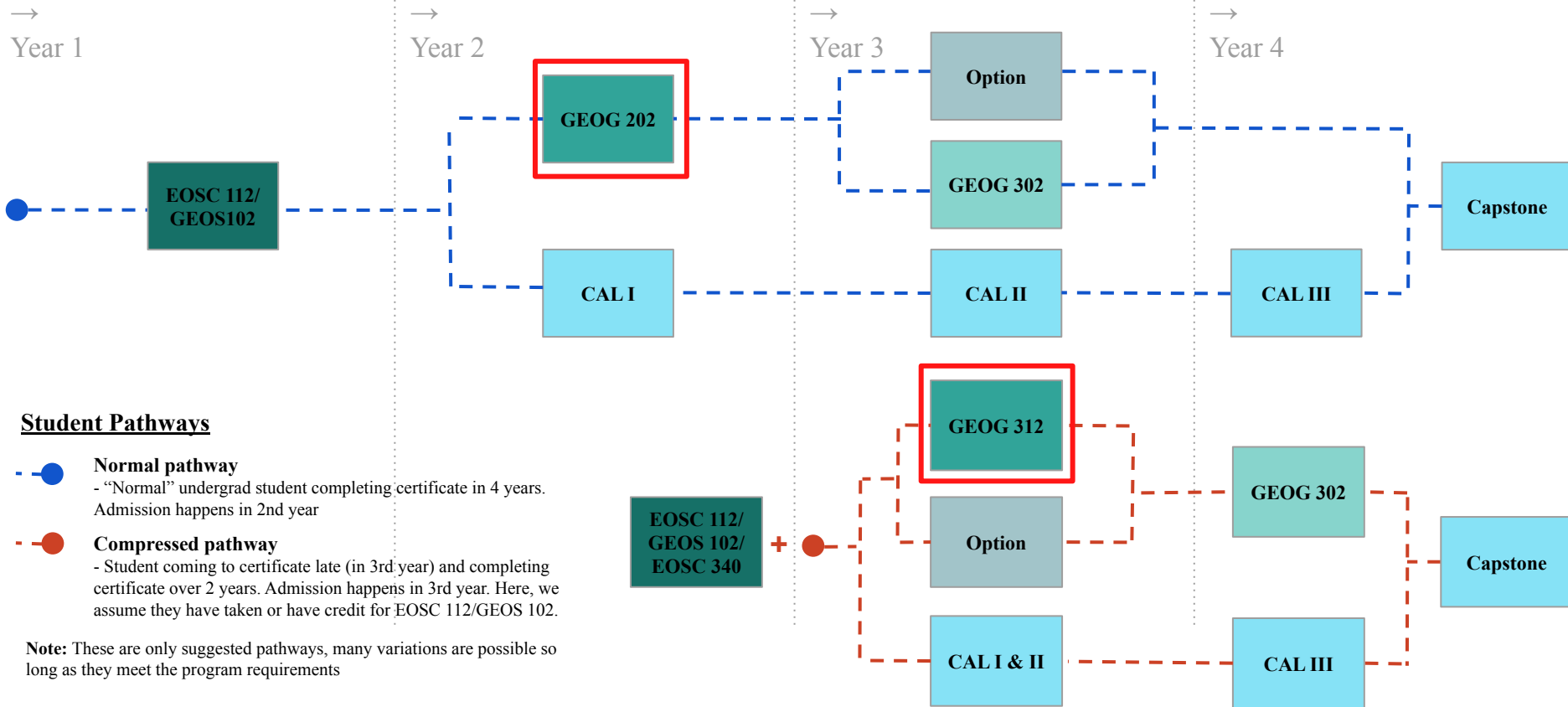
CONS 210**

Visualizing Climate Change

- Introduction to climate change through the lens of local landscapes and future scenarios, using visual media to communicate the underlying science and psychology, and engage communities in local climate change solutions.

 Normal Pathway
 Compressed Pathway

Visual Summary



Climate Justice

Concepts and debates in CJ, disproportionate impacts, socio-political-cultural-economic-historical drivers, intersectional lenses to climate



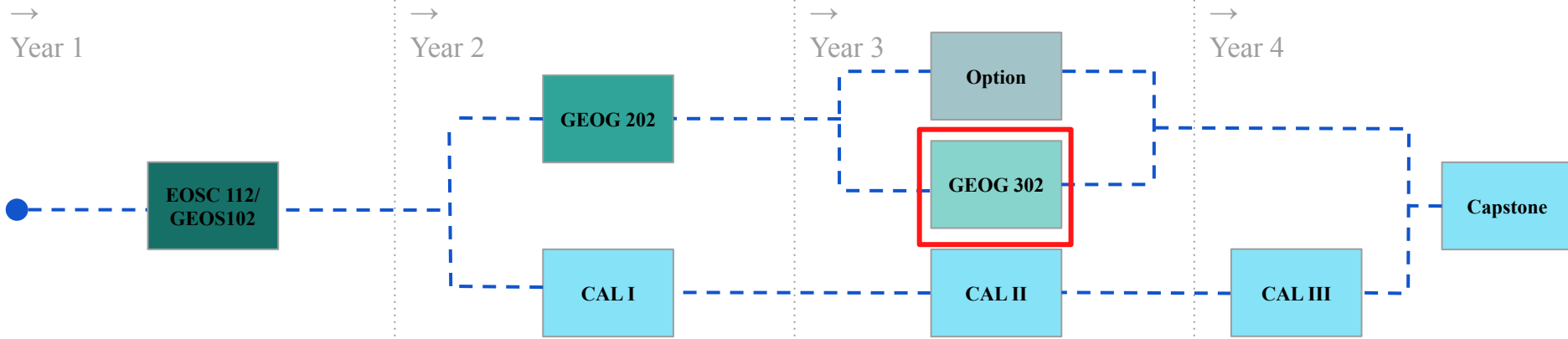
GEOG 302*

Climate Justice

- Concepts and debates in the interdisciplinary field and practice of climate justice; the role of systemic processes and patterns underlying climate change and climate injustices.



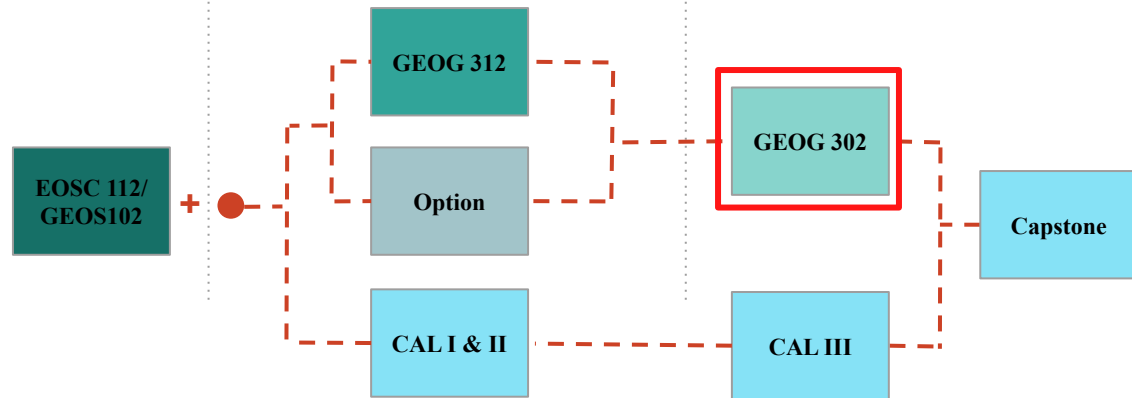
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Options

Criteria: (1) climate change is the core focus of the class (not a module or element but the core focus)
(2) allows specialization in a specific field or development of an advanced skill
(3) preferably is at the third-year level or higher.



EOSC 340: Global Climate Change



CONS 425: Sustainable Energy: Policy & Governance



ENVR 410: Energy, Environment & Society



NURS 290: Health Impacts of Climate Change



GEOG 312: Climate Change: Science & Society



CONS 310: Ecology in a Changing Climate



POLI 351: Environmental Politics & Policy

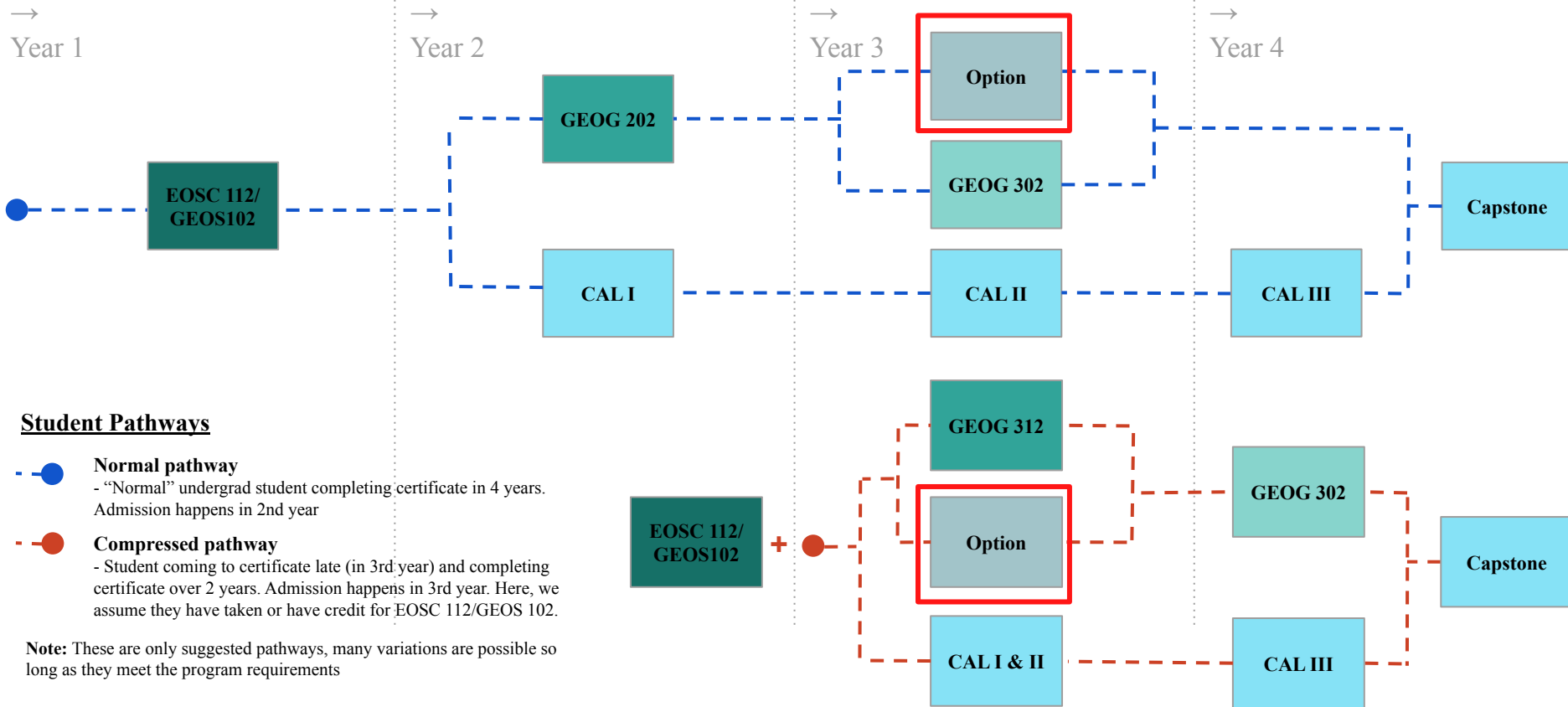


GEOS 408: The Changing Cryosphere



FNIS 401H: Indigenous Peoples and Climate Change

Visual Summary



Climate Action: Capstone

Training in climate action organized around community-engaged research project; builds iteratively through CALs into capstone



GEOG/ENVR 402*

Climate Studies and Action Capstone

- Instructor-guided collaboration between student teams and community partners on climate action projects.



Visual Summary

