

# SUSTAINABILITY “CONCENTRATION”

# Faculty of Science

## FoS Sustainability Steering Committee

SCIE 220

Sustainability in  
Biology Committee

# CAPSTONE: SCIE/ASIC 420

## Sustainability “Project”

**Year 3-4**

**BIOLOGY CORE:**

*Examples include:*

- BIOL 416 (Conservation)
- BIOL 420 (Marine Conservation and Sustainability)
- BIOL 4xx/ENVR 430 (Integrating Environmental Sustainability)

**REAL WORLD ELECTIVE:**

**ACTIVITY OPTIONS:**

- SEEDS
- Community Service Learning (CSL)
- Co-op
- UBC Farm
- BIOL 448
- Go Global CSL

**SUSTAINABILITY ELECTIVES:**

*Includes:*

- Arts
- Breadth
- Program Requirements
- Other faculties

SUSTAINABILITY “CLUB”

**Year 2**

BIOL 230

**SCIE 220**

Fundamentals of Sustainability

**Year 1**

BIOL 140  
BIOL 112  
BIOL 121

**SCIE 120**

Topics in Sustainability Science

# Faculty of Science

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Formalize  
CSI

Sustainability in  
Biology Committee

USI

LFS

CSI

**Sustainability Electives** – List of courses from USI website, clustered for advising (recommendations)

**Real World Experience**

USI

CTLT

CSI

**Integrating Sustainability** into Curriculum/Courses

Fellows

USI

CTLT

TLF

**Capstone Course**

Fellows

Other  
FACULTIES

CSI

# CAPSTONE: ASIC 420

## Sustainability “Project”

Year 3-4

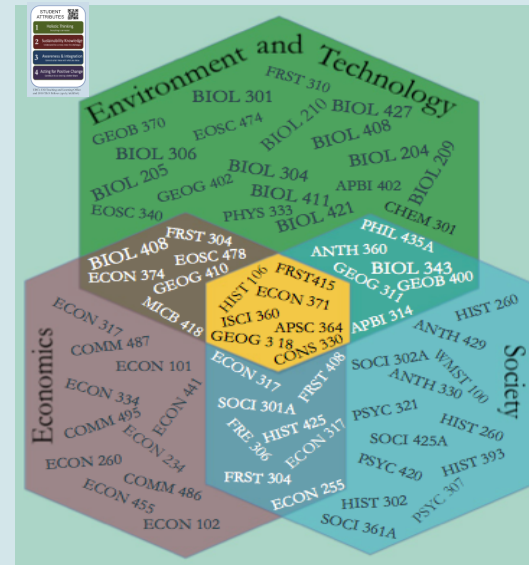
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#### ACTIVITY OPTIONS:

- SEEDS
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- Go Global CSL
- .....

### SUSTAINABILITY ELECTIVES:

- *Withn topic area*
- *Outside topic area*



SUSTAINABILITY “CLUB”

Year 2

APBI 100, ASIC 200, CONS 200/211, EOSC 217,  
GEOB 102/103, GEOG 211, SCIE(ASIC) 220,  
Fundamentals of Sustainability

Year 1

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Fellows

Other  
FACULTIES

CSI

# BUILDING A SUSTAINABILITY CAPSTONE

## COMMITTEE:

- **Andrew Riseman**, Applied Biology and Plant Breeding, **Faculty of Land and Food Systems**, **UBC Sustainability Initiative Teaching and Learning Fellow**
- **Eric Jandcui**, Strategist, Teaching and Learning Initiatives, **Faculty of Science**; FOS Sustainability Steering Committee
- **Gary Bradfield**, Department of Botany, **Faculty of Science**; FOS Sustainability Steering Committee; **Former UBC Sustainability Initiative Teaching and Learning Fellow**
- **Holly Schmidt**, Manager, **Community-Based Experiential Learning**
- **Kai Chan**, **Institute for Resources, Environment, and Sustainability**; Canada Research Chair, Biodiversity & Ecosystem Services; FOS Sustainability Steering Committee
- **Loch Brown**, Geography: Environment and Sustainability, **Faculty of Arts**; **UBC Sustainability Initiative Teaching and Learning Fellow**
- **Nicholas Coops, (Jean Marcus)**, **UBC Sustainability Initiative**, Director of Teaching and Learning (**Faculty of Forestry**)
- **Peter Nemetz**, Strategy and Business Economics Division, **Faculty of Commerce**; IRES: **Former UBC Sustainability Initiative Teaching and Learning Fellow**
- **Rob DeWreede, Ian Cavers**, **Associate Deans of Science**; FOS Sustainability Steering Committee
- **Shona Ellis**, Associate Head of Biology, **Faculty of Science**; FOS Sustainability Steering Committee
- **Susan Grossman**, Director, **UBC-Community Learning Initiative**
- **Susan Nesbit**, Civil Engineering, **Faculty of Applied Science**; **Former UBC Sustainability Initiative Teaching and Learning Fellow**
- **Tara Ivanochko**, Director Environmental Sciences, Earth, Ocean and Atmospheric Science, **Faculty of Science**; FOS Sustainability Steering Committee; **UBC Sustainability Initiative Teaching and Learning Fellow**



# BUILDING A SUSTAINABILITY CAPSTONE

## **First Steps:**

1. How could Capstone course fit into curricula in faculties outside of Science? Is there interest in collaboration on developing the Sustainability Concentration?

2. Draft Capstone Aims/Student Learning Objectives  
– subgroup develop draft and share with rest of the group prior to the next meeting

<http://blogs.ubc.ca/sustbiol>

# CAPSTONE: ASIC 420

## Sustainability “Project”

Year 3-4

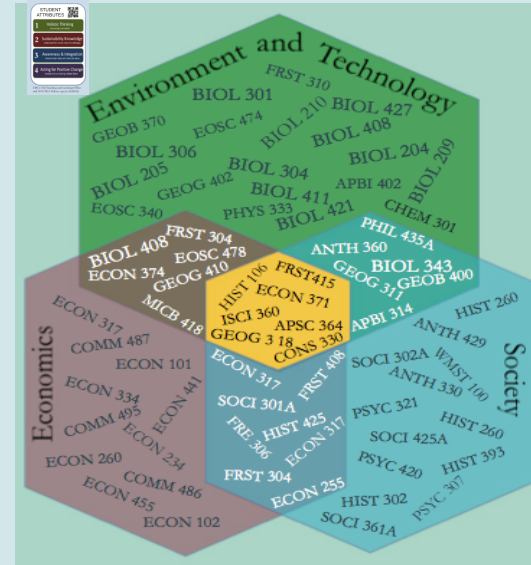
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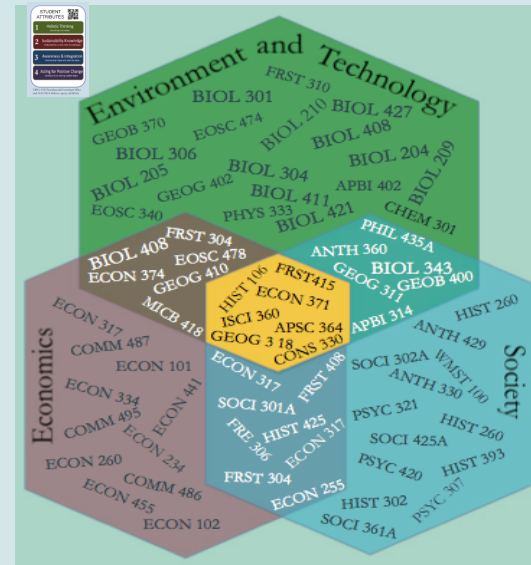
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Year 1

# SUSTAINABILITY “CONCENTRATION” TIMELINE

## **2013W (potentially year 1 of “pathway”):**

- SCIE 220 – first offering January 2014
- Formalize Electives, Finalize structure of pathway
- Develop framework for Real World Experience and Capstone course
- Curriculum forms for ENVR 430/BIOL 4xx

## **2014W:**

- Pilot Capstone as 448
- Curriculum forms (“Concentration”, Capstone, RW, other courses?)

## **2015W:**

- SCIE/ASIC 420 – September to April

# STRUCTURE

- Fundamentals Course, e.g. ASIC 220 (3 credits)
- Real World Experience (0-3 credits)
- Sustainability Electives:
  - Outside field of study (6 credits)
  - Within field of study (6 credits)
- Capstone – ASIC 420 (6 credits)
- Sustainability “Club”