ORIGINAL COURSE IMPLEMENTATION DATE: September 2023

REVISED COURSE IMPLEMENTATION DATE:

COURSE TO BE REVIEWED (six years after UEC approval)**:** December 2028

Course outline form version: 09/08/2021

OFFICIAL UNDERGRADUATE COURSE OUTLINE FORM

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

Course Code and Number: PLAN 366	**Number of Credits:** 4 Course credit policy (105)
Course Full Title: Resiliency Principles and Spatial Planning **Course Short Title:** Resiliency & Spatial Planning	
Faculty: Faculty of Science	**Department (or program):** School of Land use and Environmental Change

Calendar Description:

A survey of the effects of resiliency planning and spatial planning on communities and urban environments. Examples of how cities can survive, adjust, and flourish through common challenges and acute incidents such as natural disasters are examined. Environmental sustainability, health, resource conservation, and economic factors of resilient communities are discussed.

Note: Field trips outside of class time may be required.

Prerequisites (or NONE):	45 credits including (one of GEOG 241, GEOG 242 or GEOG 260) and (one of GEOG 253, CMNS 235, or CMNS 251).
Corequisites (if applicable, or NONE):	None
Pre/corequisites (if applicable, or NONE):	None

Antirequisite Courses *(Cannot be taken for additional credit.)*

Former course code/number:

Cross-listed with:

Equivalent course(s):

(If offered in the previous five years, antirequisite course(s) will be included in the calendar description as a note that students with credit for the antirequisite course(s) cannot take this course for further credit.)

Typical Structure of Instructional Hours

Lecture/seminar	45
Experiential (cultural/elder learning or participation)	5
Experiential (field trip)	10
Total hours	**60**

Scheduled Laboratory Hours

Labs to be scheduled independent of lecture hours: ☒ No ☐ Yes

Course Details

Special Topics course: **No**

(If yes, the course will be offered under different letter designations representing different topics.)

Directed Study course: **No**

(See policy 207 for more information.)

Grading System: **Letter grades**

Delivery Mode: **May be offered in multiple delivery modes**

Expected frequency: **Annually**

Maximum enrolment (for information only)**: 28**

Prior Learning Assessment and Recognition (PLAR)

PLAR is available for this course.

Transfer Credit *(See **bctransferguide.ca**.)*

Transfer credit already exists: **No**

Submit outline for (re)articulation: **Yes**

(If yes, fill in transfer credit form.)

Department approval	**Date of meeting:**	May 6, 2022
Faculty Council approval	**Date of meeting:**	May 27, 2022
Undergraduate Education Committee (UEC) approval	**Date of meeting:**	December 16, 2022

Learning Outcomes *(These should contribute to students' ability to meet program outcomes and thus Institutional Learning Outcomes.)*

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

1. Explain the basic concepts in resiliency planning.
2. Explain the basic concepts in spatial planning.
3. Describe challenges faced by cities to adapt and maintain environmental, economic, food systems security, and social well-being.
4. Discuss the methods for assessing a community's key sustainability quotient.
5. Recommend tools for establishing timely performance goals and metrics.
6. Develop strategies for evaluating, selecting, and implementing "high-leverage" interventions.
7. Interpret policies, codes, programs, plans, and practices for sustainable planning
8. Apply resiliency principles in First Nations and diverse environments.

Recommended Evaluation Methods and Weighting *(Evaluation should align to learning outcomes.)*

Quizzes/tests:	20%	Field evaluation:	10%	Assignments:	15%
Final exam:	15%	Project:	40%		%

Details:

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

Texts and Resource Materials *(Include online resources and Indigenous knowledge sources. Open Educational Resources (OER) should be included whenever possible. If more space is required, use the Supplemental Texts and Resource Materials form.)*

	Type	Author or description	Title and publication/access details	Year
1.	Textbook	Awotona. A;	Planning for Community-based Disaster Resilience Worldwide: Learning from Case Studies in Six Continents	2018
2.	Textbook	Yamagata. Y;	Resilience-Oriented Urban Planning: Theoretical and Empirical Insights	2018

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

N/A

Course Content and Topics

- Introduction to sustainable and resilient communities
- Urban resiliency: what is it and why does it matter?
- Resilience principles, priorities, and objectives
- Key elements for resiliency planning and spatial planning
- Climate change and disaster mitigation in built communities; mitigation versus adaptation, how to plan for and act on adaptation, mitigation efforts at national and international levels and the transformation of the same at provincial levels
- Measures for repairing, retrofitting, and transforming our built environments and spaces
- The politics of resilience for planning: resilience and robustness in policy design
- Built environments and supporting systems: transportation, energy, water, natural environment, solid waste, and economics
- Food systems: production, distribution, and shortage
- Integrating resilience into planning and land use decisions
- Community approaches to resiliency planning and best practices in urban resiliency planning on First Nation reserves