科目名 Course Title	Inter-Graduate School Classes (General Subject): Inter-Disciplinary Sciences		
講義題目 Subtitle	Global Practical Course I		
責任教員 Instructor	WHITFIELD Dale Lee (Institute for Academic Innovation)		
担当教員 Other Instructors	YANG Zitong (Institute for Academic Innovation)		
科目種別 Course Type	Inter-Graduate School Classes	**他学部履修等の可否 Open To Other Faculties / Schools**	OK
開講年度 Year	2026	**期間 Semester**	1st (Spring Term)
授業形態 Type of Class	Seminar	**単位数 Number of Credits**	2
対象学科・クラス Eligible Department / Class	-	**対象年次 Year of Eligible Students**	-
時間割番号 Course Number	101229 (Tuesday class) 101295 (Thursday class)	**補足事項 Other Information**	-
ナンバリングコード Numbering Code		IGS_IDS 9211	
大分類コード・名称 Major Category Code / Title		IGS_IDS / Inter-Graduate School Classes_Inter-Disciplinary Sciences	
レベルコード・レベル Level Code / Level		9 / Others (e.g. study abroad)	
中分類コード・名称 Middle Category Code / Title		2	
小分類コード・名称 Small Category Code / Title		1	
言語 Language Type		Classes are in English.	
実務経験のある教員等による授業科目 Course list by the instructor with practical experiences		-	

キーワード Key Words

“3+1 Competencies” (Ability for Sustainable Personal Development; Team Organization & Management Skills; Capacity for Knowledge Sharing & Application for Social Benefit; and Professional Ethics), Systems Thinking, Transdisciplinary Co-Creation, Conflict Transformation, Psychological Safety, Responsible Innovation, Team Dynamics, Facilitation, Creative Thinking, Critical Thinking, Intercultural Communication, Leadership.

授業の目標 Course Objectives

In an era defined by complex global challenges, specialized knowledge is no longer sufficient for effective leadership. This course immerses graduate students in the practice of transdisciplinary co-creation, employing systems thinking to navigate uncertainty and bridge the gap between academic expertise and real-world needs. Through a rigorous active learning curriculum, students will develop the ability to achieve Sustainable Personal Development by examining personal biases and communicating effectively across cultures. They will develop skills in Team Organization and Management by fostering psychological safety and guiding diverse groups through conflict. Finally, by co-designing solutions with stakeholders, students will demonstrate competence in Knowledge Sharing and its Application for Social Benefit, grounded in Professional Ethics that emphasize integrity, responsibility, and social justice.

到達目標 Course Goals

By completing this course, students will actively advance their professional development by producing concrete evidence of their growth within the Nitobe College “3+1 Competencies” framework, specifically by learning to:

1) Use systems thinking and critical thinking to identify the true root causes of complex problems, instead of only addressing their visible symptoms.
2) Build strong team dynamics by fostering psychological safety and practicing intercultural communication to better understand others, while applying conflict transformation techniques to resolve disagreements constructively.
3) Practice transdisciplinary co-creation by applying creative thinking to develop physical prototypes and using facilitation skills to lead diverse groups toward shared solutions.
4) Demonstrate ethical leadership by adhering to the principles of responsible innovation, ensuring that all decisions respect the rights and well-being of community partners.

授業計画 Course Schedule

This course consists of eight weekly modules that incorporate Systems Thinking into an interconnected framework for Transdisciplinary Co-Creation, guiding students from self-reflection to leading diverse teams in solving complex systemic problems. Global Practical Course I classes are held on Tuesdays and Thursdays during periods 5 and 6 (16:30 – 19:45). Students should choose either Tuesday or Thursday and attend classes only on that selected day each week.

Week 1: Course Orientation & Understanding Your Own Bias (April 14 & 16)
Effective collaboration across disciplines requires recognizing how personal backgrounds shape one's perspective. This session helps students identify their own "blind spots" to foster trust and prevent misunderstandings within teams. It also serves as the course orientation, outlining the course structure, objectives, and connection to Nitobe College's educational philosophy.

Week 2: Seeing the Whole Picture (April 21 & 23)
Solving complex problems requires looking beyond visible symptoms to understand the underlying connections within a system. Through the lens of Systems Thinking, students will learn to identify the root causes of issues, ensuring their solutions lead to lasting change rather than mere temporary fixes.

Week 3: Building a Safe Team (April 28 & 30)
High-performing teams flourish in environments where members feel safe to take risks and make mistakes without fear of judgment. By fostering Psychological Safety, students gain the ability to quickly build trust and communicate effectively across cultural boundaries.

Week 4: Valuing Non-Academic Knowledge (May 12 & 14)
True innovation means recognizing that valuable expertise exists beyond academia. By embracing 'Mode 2 Knowledge', students can appreciate community wisdom and ensure their solutions effectively address real-world needs.

Week 5: Turning Conflict into Innovation (May 19 & 21)
Conflict is inevitable in diverse teams, but when managed effectively, it can fuel creativity. By developing Relational Intelligence, students can navigate disagreements constructively and turn potential friction into innovation.

Week 6: Making Ideas Tangible (May 26 & 28)
Collaboration often fails when teams rely solely on words to convey complex ideas. By using Rapid Prototyping to create Boundary Objects, students will learn how to build tangible models that bridge disciplinary gaps and help ensure everyone shares the same vision.

Week 7: Designing with Integrity (June 2 & 4)
Ethical engagement requires more than good intentions; it involves a clear understanding of power dynamics and responsibility. Through the principles of Community-Based Participatory Research (CBPR), students learn to build equitable partnerships and define ethical boundaries to protect the communities they serve.

Week 8: Rapid Co-Creation Lab (June 9 & 11)
In real-world settings, effective leadership requires swift action despite limited resources. During this session, students will work together to address a systemic problem under time pressure, using their combined skills to develop high-fidelity prototypes. These solutions will be defended in an interactive public review with stakeholders. This session also serves as the first session of "Global Practical Course II".

準備学習（予習・復習）等の内容と分量 Homework

To ensure the quality of learning, students are expected to prepare and review before and after each class, including going over course materials to enable active participation and refining their weekly "Reflective Evidence Logs" (see Grading System) to accurately record their competency development. While the main coursework is intended to be completed during scheduled class hours, students should also dedicate time outside of class for these review activities. Those who are absent or want to revise and resubmit assessments to enhance their competency levels must complete these tasks independently.

成績評価の基準と方法 Grading System

This course utilizes a Competency-Based Assessment model in which students are graded on their ability to demonstrate specific professional skills through the submission of weekly 'Reflective Evidence Logs.' To ensure this process is manageable, these assessments are designed to be conducted within class hours, with dedicated time set aside at the end of sessions for students to draft and submit their work.

These evidence logs contribute to the development of a professional portfolio based on the 27 elements of the Nitobe College "3+1 Competencies" and form part of the holistic journey toward becoming a Global Leader. Each element is evaluated based on a 5-point competency scale ranging from 0 to 4. As this is a formative process, students are encouraged to revise and resubmit their logs based on feedback to improve their competency level throughout the course.

テキスト・教科書 Textbooks

必要に応じて指示する。
Supplementary materials are instructed or provided when necessary.

講義指定図書 Reading List

必要に応じて指示する。
Supplementary materials are instructed or provided when necessary.

参照ホームページ Websites

https://nitobe-college.academic.hokudai.ac.jp/, https://nitobe-college.academic.hokudai.ac.jp/en/

研究室のホームページ Websites of Laboratory

N/A

備考 Additional Information

To take this course, please register in the course system and submit this form by 9:00 a.m., Apr 8:
https://forms.gle/6f1X6g7YyK6dNkcw8

We will email applicants on Apr 9 with first-class details and portfolio access.

Guidance sessions (JP/EN): encouraged to attend one of the below.
· JP: Fri Apr 3, 17:00–18:00
· EN: Mon Apr 6, 17:00–18:00
Venue: 2F Seminar Room, Frontier Research in Applied Sciences Building, Hokkaido Univ.

Additional info regarding course enrollment:
https://nitobe-college.academic.hokudai.ac.jp/en/preprogram_enrollment

Master's/Professional Degree students: This is part of the Nitobe College Graduate Pre-program. Completing the required Pre-program 2 courses makes you eligible to apply for the Honors Program (optional).

Doctoral students: May enroll, but Honors Program advancement is limited to Master's/Professional Degree students. If oversubscribed, priority may be given to those.

Inquiries: nitobecollegegraduates@high.hokudai.ac.jp