

**Outline of Proposal for SDGs Online Cross-Registration:  
Online Exchange Program (OEP) focusing on SDGs**

Name of University/ Institution		Toyo University			
General Information	Brief Introduction of the University/Institution	Toyo University is a comprehensive private university in central Tokyo. Toyo was selected for Top Global University Project by the Japanese government and has been striving for internationalization of the university. The Faculty of Global and Regional Studies aims to develop human resources with the ability to innovate on economic, social and various other systems based on their deep understanding of the relations between regional diversity and different global systems, and/or with the ability to contribute to the solution of problems and autonomous development in diverse regions, in the global society, where various challenges economic problems, poverty, resource issues, environmental challenges, armed conflicts, and so on continue to arise.			
	Country/Territory	Japan	City	Tokyo	
	Address	5-28-20 Hakusan, Bunkyo-ku	Telephone Number	N/A	
	Fax Number	N/A	Official University/Institution Website	https://www.toyo.ac.jp/	
	UMAP Contact Person	Name	International Affairs Office		
		Organization/Office	N/A		
Email Address		ml'sgu@toyo.jp			
Name of Subject	Science, Technology and Society	Name of Faculty	The Faculty of Global and Regional Studies		
Name of Department	The Department of Global and Regional Studies				
Program Information	Program Description & syllabus	<p><b>[Course Purpose and Description]</b> Science &amp; Technology Studies (STS) is a dynamic interdisciplinary field; it is a result of the intersection of work by sociologists, philosophers, economists and other scholars studying the processes and outcomes of science and technology. Because it is interdisciplinary, the field is extraordinarily diverse and innovative in its approaches.</p> <p>This course aims first at introducing students to central ideas in STS. Through discussions of key concepts and case studies, we will explore how specific scientific facts or technologies are constructed, developed and diffused. We will then collectively explore in-depth several scientific and technological controversies (such as global warming, vaccine hesitancy, or Covid-19 treatments). These topics will be the basis for in-class discussions (via the class forum), short essays and game-like applications.</p> <p>This course is related to SDGs: INDUSTRY, INNOVATION AND INFRASTRUCTURE</p> <p><b>[Learning Objectives]</b> The objectives of this course are to:  <ul style="list-style-type: none"> <li>Gain a basic understanding of the theoretical principles behind the STS research field;</li> <li>Learn about the ways in which science, technology, and society influence one another;</li> <li>Reflect critically on technological innovations and their implications for society;</li> <li>Analyze different models of science and technology policy issues and compare their benefits and limitations;</li> <li>Improve reading, writing, and research skills.</li> </ul> </p> <p><b>[Schedule]</b> Mapping Science and Technology Studies</p> <p>Session 1: Introduction: What is science and technology? · Lecture I            Session 2: The genesis of science studies: Meeting Karl Popper and Robert Merton · Lecture II            Session 3: Information vs. Knowledge vs. scientific research · Case Study            Session 4: Actor-Network Theory · Lecture III            Session 5: What about the scallops of St. Brieux · Readings and short essay</p> <p>What drives Science, Technology, and Innovation</p> <p>Session 6: Invention, Innovation, and Technological Change · Lecture IV            Session 7: The Diffusion of Technology: S-shape · Case Study            Session 8: The Evolution of Science and Technology Policy · Lecture V            Session 9: The Commercialization of Scientific Research: The case of CRISPER · Case Study</p> <p>Engaging contemporary scientific issues: Meet the public</p> <p>Session 10: Hydroxychloroquine and the French doctor · Case Study            Session 11: Scientific and Technological controversies: What about Covid-19 · Lecture VI and Case Study            Session 12: Public Understanding of Science: Shall I vaccinate my kids? · Case Study            Session 13: Fake news, BS and ultrarepidarian · Application            Session 14: Debate: SCOT framework · Forum Discussion            Session 15: Debate: current scientific controversies · Forum Discussion</p> <p><b>[Instructional Methods]</b> ToyoNet-ACE will be used to communicate with the students. This class is a remote-learning class. It will be delivered on-demand, all the content of the class will be available at the beginning of the quarter. Appointments will be available on demand.</p> <p>Through hands-on exercises and active participation, students will explore concepts addressed in the class while developing theoretical and analytical skills which will enable them to better grasp STS topics. Students will be encouraged to use creative tools to analyze and engage with complex STS issues.</p> <p><b>[Self-study before/after classes]</b> Students are expected to have read the assigned readings for a specific sessions, a detail schedule will be provided at the beginning of the quarter and the students will see all the deadlines. (Required time per class: 60-120 minutes)</p> <p>Post-lesson assignment tasks are expected to take approximately 120 minutes to complete.</p> <p><b>[Methods of Evaluation and Grading Criteria]</b> Participation: Students' participation grade will be based on their preparation for class, the quality of their participation in class discussions (online) and their responses to short quizzes and tests. (40%)            Case studies: students will explore STS policy debates in which there is no right or wrong answer. They will research the topic and answer short essay questions. (30%)            Research/Practice Paper: Each student will be assigned to research a STS issue related to the class. Students should submit a literature review that explores particular topics of interest to them. Grading will be based on the academic quality of the paper. (30%)</p> <p>Comply with Toyo University's Grading Criteria.</p> <p><b>[Pre-requisites]</b> Basic knowledge of innovation studies, sociology, and philosophy</p> <p><b>[Textbooks]</b> Sergio Sismondo. 2010. An introduction to science and technology studies. 2nd ed. Chichester, U.K.: Wiley-Blackwell (¥1,592)</p> <p><b>[Reference Materials]</b> For each class, handouts, a reading list, and media supports will be given.</p>			
	Degree Level and/or Grade	Undergraduate		Language of Instruction	English
	Number of Credits to Transfer (Timing of credit issuance)	University Credits	UTCS converted into University Credits	Definition of UTCS	
		2		The definition of UTCS is as follows: One (1) UTCS = 38 – 48 hours of student workload. This includes 13-16 academic hours of instruction. *FYI, please refer to UTCS Users' Guide on UMAP website: (http://umap.org/ucta/)	
	Means of Transmission (e.g. via Zoom, etc.)	Online		Number of Lectures	15
	Number of class Hours	1.5		Total Teaching Hours	22.5hours
	Independent Study Hours	15~30hours		Student's Total Workload	37.5~52.5hours
	Program Fee	None			
		None			

<b>Requirement</b>	Language Proficiency	We accept native English speakers and/or a certificate issued by the home institution if English is used as the medium of instruction.	Yes	
	GPA	None	Others (if any)	None
<b>Program Schedule</b>	Length	<b>1 quarter</b>		
	From	<b>23-Sep-22</b>	To	<b>18-Nov-22</b>
	Day of week	<b>Every Wednesday, Friday</b>	Time of class(Standard Time)	<b>16:30-18:00(JST)</b>
<b>Participants</b>	Number of acceptable participants	<b>Unlimited</b>		
<b>Application Period</b>	From	<b>11-Jul-22</b>	Until (Deadline)	<b>24-Jul-22</b>
<b>Others</b>	If there are any other facts to inform, please specify.	None		