

Course Title	Scientific Literacy
Registration Code	L100010001
Number of Credits	2
Years of Eligible Graduate Students	1
Semester	1st
Period	Intensive course, 1st-4/15(Sat) second-five, not decided next)
Room	A4-104 Conference Room(Nakamozu Campus, OPU)
Instructors	Atsuhiko Yoshida, Masahiro Morioka
Office hours	Ask
Contact	Mail to Prof. Morioka, morioka_osaka@yahoo.co.jp about lecture contents
Goals of the course	<p>Scientists have to clearly understand the essence of scientific knowledge and the way in which science is incorporated in today's complicated society in order for them to be able to lead contemporary science in the right direction in the age of globalization, capitalism, and high-tech warfare. In this lecture, the instructors teach the fundamental knowledge and methodology of social sciences and the humanities that is indispensable to promising natural scientists, and also ask students to discuss philosophical/ethical issues concerning conflicts of values, the relationship between humanity and technology, and gender/minority problems in contemporary society. The goal of this lecture aims to encourage students to become mature/sensitive scientists who can fully recognize their own social responsibility and ethical integrity.</p> <p><Achievement goal> The goal is to achieve the following abilities: 1. to acquire humanistic and social scientific knowledge essential to scientists 2. to learn thinking of scientists' social responsibilities 3. to acquire fundamental thinking of research ethics essential to scientists</p>
Textbooks	None
Books of reference	Instruct in the class
Allied subject	Other curricula in SiMS program
Homework (Preparing for the classwork)	To review the subjects dealt in the class from your own perspective and prepare final presentation
Course outline	Firstly, students learn some fundamental terms such as “systematic thinking” and “things and value.” Secondly, they learn various ethical issues arising from contemporary science and technology. Thirdly, they learn some fundamental key concepts in the area of social sciences and the humanities. Fourthly, they discuss the social responsibility of scientists using a variety of examples in the history of science and in our contemporary society.
Class schedule	1st Introduction: Awareness of research paradigm
	2nd Science technologies and ethics 1
	3rd Science technologies and ethics 2
	4th Science technologies and ethics 3
	5th Scientists' social responsibilities 1
	6th Scientists' social responsibilities 2
	7th Scientists' social responsibilities 3
	8th Scientists' social responsibilities 4
	9th Scientific research and gender 1
	10th Scientific research and gender 2
	11th Scientific research and gender 3
	12th Special theme lecture
	13th Presentation and discussion 1

	14th Presentation and discussion 2
	15th Presentation and discussion 3
	16th Final examination
Evaluation	<p>Assessment will be held , according to the level of "Achievement goal 1-3. To acquire credits, 1. Students have to acquire human science and social science knowledge essential to scientists. 2. Students have to learn thinking of scientists' social responsibilities. 3. Students have to acquire basic thinking of research ethics essential to scientists. Evaluation will be held by the student's attitude in the class like statement and comment and test. Percentage is 40% for attitude and 60% for test.</p>
Remarks	<p>Class schedule is a just plan, and contents can be changed depending on situation. Please note that the class does not proceed as scheduled. Contents will be proceeded according to "achievement goal". All of SiMS students should make presentation about the given assignment and discuss with Q & A in the 13th - 15th classes. The assignment will be decided through the themes in the class. The presentation is a part of test and the result will be reflected in the evaluation. The class will be intensively held on Sutuesday or during summer vacation. First time: From 2nd to 5th of April 15 (Sat), 2017, at coference room A4 1F Second time to fourth time: three days during the week of August 15 (discuss in the first class), room will not be changed.</p>