

Course Requirements

- A. Graduation Credits: at least 18 credits (except research credits)
 - Mandatory Courses: 6 credits
- B. 3 credits of this research course can be earned by the internship program in a company.
- C. In case that STP courses (including both of the mandatory and the elective courses) overlap with the course requirement of major / double major / other minor / humanity, up to 9 credits can be counted in both requirements.
(In other words, double counting of courses is limited to 9 credits.)

3. Curriculum

Classification	Subject No.	Subject Name	Lecture:Lab.: Credit (Homework)	Remark
Mandatory Course	STP210	Power vs. Choice	3:0:3	*HSS141
	STP230	Science and Technology Policy	3:0:3	*HSS230
	STP243	Humans, Machines, and Society	3:0:3	*HSS243
Elective Major Course	STP211	Governing Emerging Technologies	3:0:3	
	STP212	Science, Technology, and Communication	3:0:3	
	STP311	Special Topics in Science and Technology Policy	3:0:3	
	STP411	Research Methodologies in Science and Technology Policy	3:0:3	
	STP412	S&T Policy in Future Society	3:0:3	
	STP483	Case Studies in Science and Technology Policy	3:0:3	*HSS483
	STP484	Special Topics in Policy	1:0:1	*HSS484
	HSS201	Revolutions in Science and Technology	3:0:3	
	HSS203	Environmentalism: A Historical Survey	3:0:3	
	HSS231	Science, Technology and Ethics	3:0:3	
	HSS232	Sociology of Science and Technology	3:0:3	
HSS244	Understanding Globalization	3:0:3		
HSS451	Sustainability: Agenda and Prospects	3:0:3		
Research	STP495	Individual Study, Bachelor's	0:6:1	
	STP497	Internship in Science and Technology Policy I	0:6:1	
	STP498	Internship in Science and Technology Policy II	0:12:2	

4. Course Description

STP 210 Power vs. Choice 3:0:3

This course provides basic conceptual tools for understanding various ways in which people and societies are organized and governed. We will learn about two competing logic of collective governance -power vs. choice perspectives- which pervade through well-known institutions, rules, process, policies, and collective behavior such as democracy, political parties & interest groups, national & local governments, international organizations, war & terrorism, mass mobilization, etc.

STP 211 Governing Emerging Technologies 3:0:3

This course helps students understand how novel technologies at the front end of technological advances are generated and managed socially. Emerging technologies are inherently Janus-faced with its potentials for higher-than-normal returns yet higher risk. This duality raises a policy challenge for national decisionmakers, as society would benefit greatly from policies and measures maximizing returns yet minimizing risk. In this course, we will examine how such challenges are handled across different societal systems.

STP 212 Science, Technology, and Communication 3:0:3

This course begins by examining a variety of predictions and depictions of the future with advanced information and communication technology. These accounts of the future are then interrogated to explicate what is presumed

about the role of technology in constituting societies, social arrangements, social relationships, and ways of life. A major theme of the course is to understand how technology shapes and is shaped by society. Equipped with a view of information and communication technology as a sociotechnical endeavor, several of the major challenges of the 21st Century are examined, including globalization, privacy, surveillance, risk-management and virtuality.

STP 230 Science and Technology Policy 3:0:3

This course is designed for those who do not have much experience in reading policy books and analyzing historical cases. The weekly worksheets will guide students to manage the reading assignments, and the historic photos and documentary films will be used in class to help them follow my lectures. The student participation is essential to class activities, including presentations of reading materials and research projects. The students should be prepared to answer or raise questions in class, as I will often mix lectures with discussions.

STP 243 Humans, Machines, and Society 3:0:3

This course surveys various perspectives on the relationship between humans and machines in historical, social, and cultural contexts. It examines the ways in which humans have designed, used, and co-existed with machines, and finally asks what it means to be human in technological society.

STP 311 Special Topics in Science and Technology Policy 3:0:3

This course provides an opportunity to learn about and engage in a variety of theoretical and practical debates in science & technology policy. Topics are selected from the historical and contemporary issues and problems of critical importance to the directions and implications of science and technology policy.

STP 411 Research Methodologies in Science and Technology Policy 3:0:3

This course is intended to provide research experience for undergraduate students interested in science and technology policy issues. Students will learn how to choose a research topic worth exploring, design a research process, collect appropriate data, and synthesize the findings of their inquiry.

STP 483 Case Studies in Science and Technology Policy 3:0:3

This course introduces basic methodologies in studying science, technology and innovation policy through case studies. It aims at enhancing the student's understanding and insight about policy orientation, policy process and substance. This course also outlines world science and technology policy trends in the 20th century and future prospects. It explores how Korea has adopted and implemented an appropriated policy at each development stage. Students learn about National Innovation System: theory and practices. Through this study, students get to know about why a certain state achieves better competitiveness than other countries and how government can foster innovation.

STP 484 Special Topics in Policy 1:0:1

This course is to look into case studies about social issues of political fields and political processes by inviting experienced experts in policies of science & technology, national defense diplomacy and economy. Through this, students can acquire a macroscopic view of national political situation and political mind.

STP 497 Internship in Science and Technology Policy I 0:6:1

STP 498 Internship in Science and Technology Policy II 0:12:2