



# HANYANG UNIVERSITY

## Hanyang International Summer School

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| <b>Faculty Information</b> | <b>Name</b>                | Matthew A. Shapiro                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                      |             |                |   |
|                            | <b>E-mail</b>              | <a href="mailto:shapiro@iit.edu">shapiro@iit.edu</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                      |             |                |   |
|                            | <b>Home University</b>     | Illinois Institute of Technology                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                      |             |                |   |
|                            | <b>Department</b>          | Social Sciences                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                      |             |                |   |
|                            | <b>Homepage</b>            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                      |             |                |   |
| <b>Course Information</b>  | <b>Class No.</b>           | 18010                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>Course Code</b>   | ISS1177     | <b>Credits</b> | 3 |
|                            | <b>Course Name</b>         | Politics of Science and Technology                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                      |             |                |   |
|                            | <b>Lecture Schedule</b>    | Mon-Thu / 13:00~16:00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                      |             |                |   |
|                            | <b>Course Description</b>  | <p>This is an intermediate-level course on the connections between politics (i.e. power-oriented relationships and dynamics) and science and technology (S&amp;T). The following patterns dominate our understanding of this relationship and will be covered during the course:</p> <ol style="list-style-type: none"> <li>1) Discussions of S&amp;T, broadly defined, are held among elites, including scientists and engineers.</li> <li>2) Communications about S&amp;T are problematic, reflecting strong media effects.</li> <li>3) The Internet simultaneously increases political participation while restricting liberties.</li> <li>4) Internationally, S&amp;T collaborations create synergies. Simultaneously, cybersecurity problems allow for the possibility of an S&amp;T-based Cold War.</li> </ol> |                      |             |                |   |
|                            | <b>Course Objective</b>    | <p>By the end of this course, students will be able to:</p> <ul style="list-style-type: none"> <li>- assess how politicians, scientists, and engineers affect the S&amp;T agenda;</li> <li>- recognize the function of specific communication strategies regarding S&amp;T;</li> <li>- understand the various innovations representative of "e-government";</li> <li>- detail how the Internet both fosters and hinders democracy;</li> <li>- analyze the potential for an ensuing S&amp;T Cold War, particularly one between the U.S./Europe and China.</li> </ul>                                                                                                                                                                                                                                                  |                      |             |                |   |
|                            | <b>Prerequisite</b>        | No prerequisite.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                      |             |                |   |
|                            | <b>Materials/Textbooks</b> | All readings will be available online.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                      |             |                |   |
|                            | <b>Evaluation</b>          | <b>Attendance</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 10 %                 | <b>Quiz</b> | %              |   |
| <b>Assignment</b>          |                            | 20 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>Mid-term Exam</b> | 25 %        |                |   |
| <b>Presentation</b>        |                            | 10 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>Final Exam</b>    | 25 %        |                |   |
| <b>Group Project</b>       |                            | %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>Participation</b> | 10 %        |                |   |



|                               | Etc.              |       | Evaluation Item                                        | Ratio |
|-------------------------------|-------------------|-------|--------------------------------------------------------|-------|
|                               |                   |       |                                                        | %     |
|                               |                   |       |                                                        | %     |
| <b>Daily<br/>Lecture Plan</b> | <b>Week<br/>1</b> | Day 1 | Orientation & Opening Ceremony                         |       |
|                               |                   | Day 2 | Framing the connections between technology and society |       |
|                               |                   | Day 3 | Underlying theories of the politics of S&T             |       |
|                               |                   | Day 4 | Politics and the S&T policy making process             |       |
|                               | <b>Week<br/>2</b> | Day 1 | Actors and their motivations                           |       |
|                               |                   | Day 2 | Research norms and the Bayh-Dole Act                   |       |
|                               |                   | Day 3 | Communicating science and technology                   |       |
|                               |                   | Day 4 | Midterm examination + debate/discussion                |       |
|                               | <b>Week<br/>3</b> | Day 1 | Effects of identity and communities                    |       |
|                               |                   | Day 2 | The Internet and our civil liberties                   |       |
|                               |                   | Day 3 | Connections between the Internet and politics, Part 1  |       |
|                               |                   | Day 4 | Connections between the Internet and politics, Part 2  |       |
|                               | <b>Week<br/>4</b> | Day 1 | Connections between the Internet and politics, Part 3  |       |
|                               |                   | Day 2 | Cybersecurity and prospects for the S&T Cold War       |       |
|                               |                   | Day 3 | Final examination + debate/discussion                  |       |
|                               |                   | Day 4 | Paper submission and presentations                     |       |