Science Policy for Scientists and Engineers

One Credit Course

Fall 2008 – Tuesdays 3:00 – 4:15pm
Location: TBA
CHM 501 (Section #1008 / Class #88187)
MAE 591 (Section #1003 / Class #88231)
BIO 591 (Section #1045 / Class #88207)
ASB 591 (Section #1014/ Class # 88220)

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Science and technology are powerful transforming forces in today's global society. They have fueled the world's economy to new heights; been an integral part of controlling disease; and provided new ways of traveling and communicating. But they have also been implicated in fostering unemployment, economic inequity, environmental destruction, and the development of new diseases. This class will examine the ways in which science and technology contribute to large scale societal transformations. As it analyzes the processes by which S&T are shaped, developed, and integrated into society, it will look for ways in which scientists and engineers can increase the likelihood that the social, political, economic, environmental outcomes of their work are desirable.

**Course Requirements**

Participation in Seminar – The primary component of the course will be the seminar. It is imperative that you not only attend the seminars but that you also engage and participate in seminars as well. To emphasize this, a significant part of your grade (50%) of the class will be based on your engagement in the seminar. This includes not only attending class, but participating in conversation and asking questions as well. You may be assigned specific responsibilities to facilitate discussion as well.

Critical Analysis – In order to participate in conversation well, you'll need to prepare. This means more than simply reading the required articles. You'll need to reflect on them as well. As part of this reflection, for each class you will write up 3 questions that will help us to explore the readings in class. These questions will count for 25% of your overall grade.

News Article Presentations – In addition to the assigned readings, on a regular basis we will also briefly discuss a recent popular news article that explores an interesting angle on some issue in technology and society. Each student will be responsible for submitting one to two articles during the semester. You will need to post the article to blackboard two days before class is held and lead a brief discussion about it at the beginning of class. This exercise will count for 25% of your overall grade.

**Course Calendar**
August 26 – Introduction and acronym assignment

The Nuts and Bolts of Science Policy


Science and Society


October 21 – The Precautionary Principle, Guest Lecture by Troy Benn


Science, Policy & Outcomes


November 11 – Veteran’s Day, No Class

