

TECHNOLOGY AND SOCIAL CHANGE (T SC)

Courses primarily for undergraduates:

T SC 220: Global Sustainability

(Cross-listed with ANTHR, ENV S, GLOBE, M E, MAT E, SOC). (3-0) Cr. 3. F.S.

An introduction to the key global issues in sustainability. Focuses on interconnected roles of energy, materials, human resources, economics, and technology in building and maintaining sustainable systems. Applications discussed will include challenges in both the developed and developing world and will examine the role of technology in a resource-constrained world. Cannot be used for technical elective credit in any engineering department.

Meets International Perspectives Requirement.

T SC 341: Technology: International, Social, and Human Issues (3-0) Cr. 3. F.

Prereq: Junior classification

An interdisciplinary study of the international significance of technology and of the societal and human issues attending its development and adoption.

T SC 342: World Food Issues: Past and Present

(Cross-listed with AGRON, ENV S, FS HN). (3-0) Cr. 3. F.S.

Prereq: Junior classification

Issues in the agricultural and food systems of the developed and developing world. Emphasis on economic, social, historical, ethical and environmental contexts. Causes and consequences of overnutrition/undernutrition, poverty, hunger and access/distribution. Explorations of current issues and ideas for the future. Team projects.

Meets International Perspectives Requirement.

T SC 342H: World Food Issues: Past and Present, Honors

(Cross-listed with AGRON, ENV S). (3-0) Cr. 3. F.S.

Prereq: Junior classification

Issues in the agricultural and food systems of the developed and developing world. Emphasis on economic, social, historical, ethical and environmental contexts. Causes and consequences of overnutrition/undernutrition, poverty, hunger and access/distribution. Explorations of current issues and ideas for the future. Team projects.

Meets International Perspectives Requirement.

T SC 343: Philosophy of Technology

(Cross-listed with PHIL). (3-0) Cr. 3. F.S.

Prereq: 6 credits of social science or T SC 341 and 3 credits of social science

Moral and other philosophical problems related to developments in technology. Topics may include conditions under which technological innovations contribute to human emancipation, relationship of technology and democracy, utility and limits of technical rationality, and problems of ensuring that benefits of technological advance are communally shared. Topics discussed with reference to such issues as contemporary developments in microelectronics, technology transfer to the Third World, etc.

T SC 474: Communication Technology and Social Change

(Cross-listed with JL MC). (3-0) Cr. 3.

Prereq: Junior classification

Examination of historical and current communication technologies, including how they shape and are shaped by the cultural and social practices into which they are introduced.

Meets International Perspectives Requirement.

T SC 490: Independent Study

Cr. arr. Repeatable.

Prereq: T SC 341, permission of instructor and of T SC coordinator

Courses primarily for graduate students, open to qualified undergraduates:

T SC 543: Seminar in Social Change and Development

(Cross-listed with SOC). (3-0) Cr. 3. Alt. F., offered even-numbered years.

Prereq: 6 credits in sociology

Seminar in social change and development.

T SC 543B: Seminar in Social Change and Development: Sociology of Adoption and Diffusion

(Cross-listed with SOC). (3-0) Cr. 3. Alt. F., offered even-numbered years.

Prereq: 6 credits in sociology

T SC 543C: Seminar in Social Change and Development: Technological Innovation, Social Change and Development

(Cross-listed with SOC). (3-0) Cr. 3. Alt. F., offered even-numbered years.

Prereq: 6 credits in sociology

T SC 574: Communication Technologies and Social Change

(Cross-listed with JL MC). (3-0) Cr. 3.

Prereq: 6 credits in social science

Personal, organizational, and social implications of the use of communication technologies. Includes theories and empirical research across the continuum of perspectives, from techno-utopianism through an anti-technology stance.

Meets International Perspectives Requirement.

T SC 590: Special Topics: Technology and Social Change

Cr. arr.

Prereq: T SC 541, permission of instructor and of T SC coordinator

Individual study of topics concerning global and local implications of technological change.