The student's major, as well as General Education requirements. Courses taken to complete the STS minor can also be used to satisfy the minor in STS is open to all undergraduate students at JMU. Students should take courses in at least three different disciplines from the following list:

**Required Courses**

- ECON 301. Economies in Transition
- GEOG 333. Russian and the Former USSR
- HIST 385. Russia to 1855
- HIST 386. Russia Since 1855
- HIST 475. Modern Russia
- POSC 337. Russia and Post-Soviet Politics
- RUS 286/DHUM 200. Russian Literature in Translation/Great Works
- RUS 300. Russian Conversation and Composition
- RUS 308. Introduction to Russian Civilization
- RUS 315. Russian Phonetics
- RUS 320. Advanced Russian Grammar
- RUS 405. Russian Literature of the 19th Century
- RUS 426. Russian Literature of the 20th Century
- RUS 438. Studies in Russian Literature

Students may include one course from the following list:

- ECON 409. Special Studies in Economics
- FL 490. Special Studies in Foreign Languages (Russian)
- GEOG 490. Senior Project II
- HIST 399. Special Studies in History
- POSC 490. Senior Tutorial in Political Science

With the approval of a program coordinator, six to eight hours of Russian language may be included. Students may also earn credit by studying in a program in Russia or any of the former Soviet states.

**Science, Technology and Society**

Dr. Jeffrey Tang, Coordinator

Phone: (540) 568-2758  E-mail: tangjd@jmu.edu

Web site: http://www.jmu.edu/sts/

Science, technology and society (STS) is an internationally recognized field of cross disciplinary study that integrates social scientific and humanistic studies to better understand the natural and human-built world. The minor offers students the opportunity to critically examine science, technology and medicine as expressions of human cultures, past and present. Students learn to scrutinize the ideas, values and materials embedded in the world they inhabit today and to relate them to other times and places. They explore how choices made within various social, economic and political structures influence the development of science, technology and medicine. They also see how the adoption and diffusion of ideas, artifacts and techniques can then influence individuals, society, politics and culture. Courses in this minor draw students together from diverse majors across the campus and encourage open inquiry into the role of science and technology in society.

The minor in STS is open to all undergraduate students at JMU. Courses taken to complete the STS minor can also be used to satisfy the student’s major, as well as General Education requirements.

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISAT 131. Technology, Science, and Society</td>
<td>3</td>
</tr>
<tr>
<td>SOCI 315. Science, Technology, and Society</td>
<td></td>
</tr>
<tr>
<td>HIST 327. Technology in America</td>
<td></td>
</tr>
</tbody>
</table>

**Elective courses**

Choose five from at least four different programs/majors

- ANTH/ARTH/HIST 492. American Material Culture
- ANTH/SOCI 313: Processes of Social and Cultural Change
- ANTH 340. The Invention of Race
- ANTH 360. Medical Anthropology
- ANTH 373. Anthropological Perspectives on Environment & Development
- ARTH 303. History of Design
- ARTH 474. The New Media and Contemporary Art
- ARTH 476. Modern Architecture
- GEOG 322. Agricultural Systems
- GEOG 325. Environmental Ethics
- GEOG 344. Economic Geography and Development Issues
- HIST 305. History of Science and Christianity
- HIST 326. The Automobile in 20thCentury America
- HIST 327. Technology in America
- HIST 328. History of Science, 1534 – 1859
- HIST 329. History of Science Since 1859
- HIST 405. Travel and Exploration
- HIST 427. U.S. Environmental History
- HIST 443. Modern American Technology and Culture
- HIST 481. Early Modern Europe: New Worlds of Exploration & Science
- ISAT 231. Political Economy of Technology and Science
- ISAT 311. Role of Energy in Modern Society
- ISAT 411. Energy Economics and Policy
- ISAT 421. Environmental Policy and Regulation
- ISAT 456. Ethical, Legal and Social Implications of Biotechnology
- ISAT 471. Transportation: Energy, Environment and Society
- ISAT 477. Complex Systems and How They Fail
- PHIL 300. Knowledge and Belief
- PHIL 395. Philosophy and Scientific Inquiry
- SOCI 311. Sociology of the Environment
- SOCI 316. Space, Time and the Human Social Environment
- SOCI 368. Sociology of Knowledge
- SOCI 375. Medical Sociology
- WRTC 350. Science and Technology in Literature

Special topics courses not listed can be applied to the minor with prior approval of the program coordinator.

**Substance Abuse Intervention**

Katherine Ott Walter, Adviser

Phone: 568-8972  E-mail: ottwalmk@jmu.edu

This 22-credit hour cross disciplinary substance abuse intervention minor prepares the student to understand the impacting forces on the abusing individual and help the individual seek aid as appropriate. The SAI minor also prepares the student to assist communities in designing science-based prevention programs. Course work in the SAI minor can lead to certification as a Certified Prevention Professional, Alcohol, Tobacco and Other Drug (CPP-ATOD).

There is a moratorium on the SAI minor for the 2010-11 academic year.

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HTH 378. The Use and Effects of Drugs</td>
<td>3</td>
</tr>
<tr>
<td>HTH 407. Health Education Facilitation/Synthesis</td>
<td>2</td>
</tr>
<tr>
<td>HTH 451. Strategies for Health Change</td>
<td>3</td>
</tr>
<tr>
<td>HTH 458. Health Program Planning and Evaluation</td>
<td>3</td>
</tr>
<tr>
<td>HTH 488. Substance Abuse Prevention Basics</td>
<td>1</td>
</tr>
<tr>
<td>SOWK 317. Skills for Generalist Social Work</td>
<td>3</td>
</tr>
</tbody>
</table>