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. The STS minor requires 18 credit hours with at least one course each from the history, sociology and ISAT courses listed.

Required Courses  Credit Hours
Choose one:
- ISAT 131. Technology, Science, and Society 3
- HIST 327. Technology in America
- SOCI 316. Science, Technology, and Society

Elective courses
Choose five from at least four different programs/majors 15
- ANTH/SCI 313. Processes of Social and Cultural Change
- ANTH 340. The Invention of Race
- ANTH 360. Medical Anthropology
- ANTH 373. Anthropological Perspectives on Environment and Development
- ANTH/HIST 492. American Material Culture
- 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 20th Century America
- HIST 327. Technology in America
- 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 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 386. 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 Prevention

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This cross disciplinary substance abuse prevention minor provides the student with the foundational knowledge and skills necessary to assist communities in designing science-based prevention programs to encourage healthy attitudes and behaviors towards alcohol, tobacco and other drugs. Course work in this minor will help prepare the student for the Certified Prevention Professionals-ATOD exam, which they can take after one year of prevention-related paid work experience and additional prevention-specific training.

Required Courses  Credit Hours
One of the following (foundational knowledge): 3
- HTH 230. Community Health
- PSYCH 160. Life Span Human Development
- PSYC/GRN/NPS/SOWK 375. Grant Writing for Agencies
- HHS 415. Ethical Decision-Making in Healthcare: An Interprofessional Approach

One of the following (education and skill development): 3
- PSYC 308. Health Psychology
- HTH 451. Health Behavior Change

One of the following (alcohol, tobacco and other drug-specific): 3
- PSYC 285. Drugs and Behavior
- HTH 378. The Use and Effects of Drugs

One of the following (public policy-specific): 3
- PPA 359. Policy Analysis
- PPA 462. Social Welfare and Local Policy
- SOWK 335. Social Policy (SOWK majors only)

One of the following (population-specific): 3
- PSYC 250. Introduction to Abnormal Psychology
- PSYC 335. Abnormal Psychology
- SOWK 386. Youth Empowerment Strategies
- SOWK 387. Working with Teenagers

Required Capstone Course
- HTH 458. Program Planning and Evaluation
- HTH 389. Practicum/Internship (Optional) 1

1 This course is required for students whose major does not have a practicum or internship. A minimum of 100 hours must be completed in the field of ATOD prevention.

Telecommunications

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The cross disciplinary minor in telecommunications is designed to augment the student’s major program with a package of courses that will prepare the graduate to obtain a position as a telecommunication/network professional and fill a societal need in one of the fastest growing areas of technology. The program is developed as a minor principally for three major programs: computer science, integrated science and technology (for students not in the telecommunications concentration), and computer information systems. However, the program is open to any undergraduate with an interest in telecommunications and some computer background.

The telecommunications minor will instill knowledge of:
- Telecommunication terminologies, standards, policies and procedures.
- Basics of data transmission, digital signal processes and signaling hierarchies.
- Architectures, communications protocols and components of LANs, WANs and internetworks.
- The TCP/IP and ATM protocol suites.
- Switching, routing and traffic management in internetworked environments.
- Voice, video and data transmission over IP and ATM.
- Application development for the Internet.
- Distributed object systems programming and management.

Students are encouraged to check prerequisites. At most four courses can be used to satisfy both the telecommunications minor and a student’s major requirements.

http://www.jmu.edu/catalog/13