
SCIENCE, TECHNOLOGY, AND SOCIETY (STS) CERTIFICATE

15 Credit Hours | Interdisciplinary | Career-Ready Skills

Understand the World Behind Innovation

Science and technology don't exist in a vacuum. They shape, and are shaped by, culture, politics, ethics, power, and inequality.

The Science, Technology, and Society (STS) Certificate provides students with an interdisciplinary framework to critically examine how scientific knowledge and technological innovation influence social change. Students learn to evaluate emerging technologies like artificial intelligence, biotechnology, cyberwarfare, and digital media through ethical, historical, and sociological perspectives.

This certificate bridges the social sciences and humanities and prepares students to think critically about equity, access, responsibility, and global impact in a rapidly evolving world.

Total Credit Hours: 15

- 3 credit hours required core course
 - 12 credit hours restricted electives
 - Minimum 2.0 GPA in certificate coursework
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Required Core Course (3 Credit Hours)

SYP 2422 – Science, Technology, and Society (3)

Restricted Electives (12 Credit Hours Total)

Complete at least 2 Humanities courses (6 credit hours):

- HIS 3470 – History of Technology, Society and Affluence (3)
- ENC 3417 – Literacy and Technology (3)
- ENC 3455 – Writing about Science and Technology (3)
- HIS 3462 – History of Science (3)
- LIT 4433 – Literature of Science and Technology (3)

- ENG 3861 – Digital Humanities Approaches to AI (3)
- PHI 3626 – Advanced Ethics in Science and Technology (3)
- PHI 4400 – Philosophy of Science (3)
- WST 3610 – Gender and Technology (3)
- HUM 4381 – Race and Technology (3)

Complete at least 2 Social Science courses (6 credit hours):

- ANT 3082 – New Frontiers: Anthropology of Space (3)
- ANT 4535 – Scientific Prejudice and Anthropology (3)
- COM 4332 – Communication, Technology, and Change (3)
- RTV 4403 – Electronic Media, Technology, and Society (3)
- CPO 4705 – Politics of Artificial Intelligence (3)
- INR 4764 – Cyberwarfare Policy (3)
- SYO 3530 – Social Power and Inequality (3)
- SYP 3323 – Video Games in Society (3)
- EXP 3604 – Cognitive Psychology (3)
- EXP 3404 – Basic Learning Processes (3)

Student Learning Outcomes

Students completing the STS Certificate will be able to:

- Analyze how social, political, and economic forces shape scientific and technological development
- Evaluate ethical and policy implications of emerging technologies
- Apply interdisciplinary perspectives from sociology, history, philosophy, anthropology, political science, psychology, and communication
- Communicate complex technology-related issues clearly across academic and public audiences
- Critically engage with issues of power, inequality, global diversity, and representation in science and technology

Program Requirements

- Total Semester Hours Required: 15
- No foreign language requirement
- No credit by exam (TSD, military credit)
- Internship, Independent Study, or Independent Research credits may not be used
- At least 12 credit hours must be earned at UCF
- Course substitutions require approval from the Department of Sociology Undergraduate Program Director

Participating Departments

Sociology | History | Philosophy | Writing & Rhetoric | Anthropology | Psychology | Political Science | Communication

Prepare to Lead in a World Shaped by Technology

Add the STS Certificate to your degree and gain the tools to critically evaluate and responsibly shape the future.

For more information, contact the Department of Sociology Undergraduate Program Director.