INTEGRATED STUDIES IN SCIENCE, ENGINEERING, AND SOCIETY, CERTIFICATE

The certificate in Integrated Studies in Science, Engineering, and Society Undergraduate (ISSuES) offers undergraduate students an opportunity to explore the social sciences and humanities in a way that emphasizes the relationship between science, technology, medicine, engineering, and society. From energy to communications technologies to gene editing to automation, the interplay between researchers, developers, policy makers and the public is constantly shaping and reshaping our world. The ISSuES certificate allows undergraduate students to complement their majors with a set of courses aimed at helping them understand how society shapes science and how science shapes society.

Offered by the Holtz Center for Science & Technology Studies, ISSuES was designed to help STEM-field majors fulfill their liberal arts requirements, but is highly flexible and is available to all undergraduate students interested in exploring the complex interplay between science, technology, medicine, engineering, and society. For more information, see the program website (http://sts.wisc.edu).

HOW TO GET IN

The certificate in integrated studies in science, engineering and society is offered to all undergraduate students. To be considered for admission to the certificate program, students must be in good academic standing. Students should begin the application process by the end of sophomore year, but no later than the end of their junior year.

The first step in applying to the program is to consult with the ISSuES certificate advisor. To make an appointment, please send an email to sts@ssc.wisc.edu.

REQUIREMENTS

15 CREDITS, TO INCLUDE: ¹

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<tr>
<th>Code</th>
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9 credits from one focus area:

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Ethics:

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<td>The Origins of Scientific Thought</td>
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<td>The Making of Modern Science</td>
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<td>HIST SCI 203</td>
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Leadership:

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<td>Cross-Cultural Arts Around the Atlantic Rim: 1800 to the Present</td>
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<td>Race and American Politics from the New Deal to the New Right</td>
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<td>ZOOLOGY/ BOTANY/ ENVIR ST 260</td>
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Capstone—one from:

- ART 448 | Special Topics |
- ART 534 | Advanced Wood Working |
### Learning Outcomes

The Integrated Studies in Science, Engineering, and Society Undergraduate Certificate Program (ISSuES) offers undergraduate students an opportunity to interact with the social sciences and humanities in a way that emphasizes the relationship between science, technology, engineering, medicine and society.

Students in the certificate will:

1) Be exposed to the social sciences and humanities and see their relevance to scientific and technological enterprises;
2) Develop the capacity for interdisciplinary, critical thinking about the relationship between science, technology, engineering, medicine and society;
3) Develop a sense of personal and social responsibility for their engineering, scientific or other professional practice;
4) Strengthen written communication skills.

### Advising and Careers

#### Advising

To obtain advising assistance, students should consult with the ISSuES certificate advisor. To make an appointment, send an email to ststs@ssc.wisc.edu.

All UW–Madison undergraduates are encouraged to begin working on their career exploration and preparation soon after arriving on campus. We partner with the L&S Career Services office to help you leverage the academic skills learned in your major and liberal arts degree, explore and try out different career paths, participate in internships, prepare for the job search and/or graduate school applications, and network with professionals in the field (alumni and employers).

Letters & Science graduates are in high demand by employers and graduate programs, and the ISSuES certificate provides students with a way to integrate their liberal studies with the skills they are developing in their majors. It is important to us that our students are career ready at the time of graduation, and we are committed to your success. Students who have completed the certificate say that it helped them enhance the portfolio of skills they offered to employers and graduate programs by giving them foundations for understanding and communicating effectively about the ethical, policy, design and other non-technical aspects of science, engineering and medicine.

#### Career Resources

- Why the liberal arts? ([http://ls.wisc.edu/about/why-liberal-arts](http://ls.wisc.edu/about/why-liberal-arts))
- Set up a Career Advising Appointment ([http://careers.ls.wisc.edu/Undergraduate-Advising.htm](http://careers.ls.wisc.edu/Undergraduate-Advising.htm))
- L&S Career Services ([http://careers.ls.wisc.edu/students.htm](http://careers.ls.wisc.edu/students.htm)): We launch our students higher, sooner
- INTER-LS 210 L&S Career Development: Taking Initiative (1 credit, targeted to first and second-year students)
- Learn how we’re transforming career preparation: L&S Career Initiative ([http://ls.wisc.edu/about/lsci?p=careerinitiative.html](http://ls.wisc.edu/about/lsci?p=careerinitiative.html))

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<td>Environmental Law, Toxic Substances, and Conservation</td>
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Total Credits: 15

1 Courses taken with the pass/fail grade option do not apply to the certificate.
2 Courses used for the Focus area cannot also count for Capstone.

### Residence & Quality of Work

2.000 GPA on all certificate-approved courses

8 credits in the certificate, in residence