



## Syllabus

### SST 259 Cyberphysical Technology Special Projects

#### General Information

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**Date**

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**Author**

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**Department**

Science and Technology

**Course Prefix**

SST

**Course Number**

259

**Course Title**

Cyberphysical Technology Special Projects

#### Course Information

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**Credit Hours**

6

**Lecture Contact Hours**

6

**Lab Contact Hours**

0

**Other Contact Hours**

0

**Catalog Description**

Students will complete industry specific projects under direction of instructors and/or industry mentors, to prepare for careers across diverse industries. Examples of projects include study of robotic systems, alternative energy system, fuel cells, quality improvement in manufacturing, radio-frequency communication systems, vibration study geared towards preventive predictive maintenance, wearable devices, VR, AVR, AI, Big Analog Data, and Industrial Applications of Machine Learning.

**Prerequisites**

SST 232 and Permission of Instructor

**Co-requisites**

None

**Grading Scheme**

Letter

#### First Year Experience/Capstone Designation

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This course DOES NOT satisfy the outcomes applicable for status as a FYE or Capstone.

#### SUNY General Education

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This course is designated as satisfying a requirement in the following SUNY Gen Ed category

None

# FLCC Values

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## Institutional Learning Outcomes Addressed by the Course

Vitality

Inquiry

Perseverance

Interconnectedness

## Course Learning Outcomes

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### Course Learning Outcomes

1. Write a reflective journal describing troubleshooting equipment/process and documenting attention to safety considerations.
2. Demonstrate industry standard work habits for the given work environment.
3. Evaluate skills and knowledge acquired from the project.

## Program Affiliation

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**This course is not required as a core course in a program**

## Outline of Topics Covered

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- I. Consultation sessions with faculty about initial scope and goals of the projects.
- II. Journals on progress made including record of problem solving and troubleshooting.
- III. Mid-term evaluation and changes to scope and goals of the projects.
- IV. Project report and oral presentation.