

# NSM 175: SUMMER UNDERGRADUATE RESEARCH EXPERIENCE SEMINAR

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## In Workflow

1. NSM College Committee Chair (tsk@csus.edu)
2. NSM Dean (datwyler@csus.edu)
3. Academic Services (torsetj@csus.edu; cnewsome@skymail.csus.edu)
4. Senate Curriculum Subcommittee Chair (curriculum@csus.edu)
5. Dean of Undergraduate (james.german@csus.edu; celena.showers@csus.edu)
6. Dean of Graduate (cnewsome@skymail.csus.edu)
7. Catalog Editor (torsetj@csus.edu)
8. Registrar's Office (wlindsey@csus.edu)
9. PeopleSoft (PeopleSoft@csus.edu)

## Approval Path

1. Wed, 01 Sep 2021 23:31:17 GMT  
Thomas Krabacher (tsk): Approved for NSM College Committee Chair
2. Thu, 09 Sep 2021 17:42:10 GMT  
Shannon Datwyler (datwyler): Approved for NSM Dean

## New Course Proposal

Date Submitted: Mon, 02 Aug 2021 18:59:55 GMT

**Viewing: NSM 175 : Summer Undergraduate Research Experience Seminar**

**Last edit: Mon, 02 Aug 2021 18:59:54 GMT**

Changes proposed by: Shannon Datwyler (102041314)

### Contact(s):

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### Catalog Title:

Summer Undergraduate Research Experience Seminar

### Class Schedule Title:

SURE Seminar

### Academic Group: (College)

NSM - Natural Sciences & Mathematics

### Academic Organization: (Department)

Natural Sciences and Mathematics

### Will this course be offered through the College of Continuing Education (CCE)?

Yes

### Please specify:

CCE Only

### Catalog Year Effective:

Spring 2022 (2022/2023 Catalog)

### Subject Area: (prefix)

NSM - Natural Sciences and Mathematics

### Catalog Number: (course number)

175

**Course ID: (For administrative use only.)**

TBD

**Units:**

1

**In what term(s) will this course typically be offered?**

Summer Only

**Does this course require a room for its final exam?**

No, final exam does not require a room

**Does this course replace an existing experimental course?**

No

**This course complies with the credit hour policy:**

Yes

**Justification for course proposal:**

This course is being designed to support students who are participating in the Summer Undergraduate Research Experience (SURE) program in the College of Natural Sciences and Mathematics. The course will meet two times over the summer to provide students with basic laboratory and field safety protocols, research ethics and basics of poster preparation in anticipation of their culminating experience for the SURE program.

**Course Description: (Not to exceed 80 words and language should conform to catalog copy.)**

This seminar supports students who have received a Summer Undergraduate Research Experience Award through the College of Natural Sciences and Mathematics. Seminar topics will include laboratory safety, research ethics and dissemination of research results. These sessions will prepare students to disseminate their research at the NSM Student Research Symposium.

**Are one or more field trips required with this course?**

No

**Fee Course?**

No

**Is this course designated as Service Learning?**

No

**Does this course require safety training?**

No

**Does this course require personal protective equipment (PPE)?**

No

**Does this course have prerequisites?**

No

**Does this course have corequisites?**

No

**Graded:**

Credit / No Credit

**Approval required for enrollment?**

Department Approval

**Course Component(s) and Classification(s):**

Seminar

**Seminar Classification**

CS#05 - Seminar (K-factor=1 WTU per unit)

**Seminar Units**

1

**Is this a paired course?**

No

**Is this course crosslisted?**

No

**Can this course be repeated for credit?**

No

**Can the course be taken for credit more than once during the same term?**

No

**Description of the Expected Learning Outcomes: Describe outcomes using the following format: "Students will be able to: 1), 2), etc."**

Students will be able to:

1. Demonstrate a clear understanding of laboratory/field safety protocols
2. Document research results both in a laboratory notebook and in formal written and oral communication
3. Distinguish between original work and plagiarism in a research context.

**Attach a list of the required/recommended course readings and activities:**

NSM175 syllabus.docx

**Assessment Strategies: A description of the assessment strategies (e.g., portfolios, examinations, performances, pre-and post-tests, conferences with students, student papers) which will be used by the instructor to determine the extent to which students have achieved the learning outcomes noted above.**

- Completion of required safety trainings/workshop (SLO #1)
- Completion of research ethics workshop (SLO #3)
- Completion of poster presentation workshop (SLO #2)
- Completion of a draft poster for the NSM Student Research Symposium (SLO #2)

**For whom is this course being developed?**

Majors in the Dept  
Majors of other Depts

**Is this course required in a degree program (major, minor, graduate degree, certificate?)**

No

**Does the proposed change or addition cause a significant increase in the use of College or University resources (lab room, computer)?**

No

**Will there be any departments affected by this proposed course?**

No

**I/we as the author(s) of this course proposal agree to provide a new or updated accessibility checklist to the Dean's office prior to the semester when this course is taught utilizing the changes proposed here.**

I/we agree

**University Learning Goals****Undergraduate Learning Goals:**

Competence in the disciplines

**Is this course required as part of a teaching credential program, a single subject, or multiple subject waiver program (e.g., Liberal Studies, Biology) or other school personnel preparation program (e.g., School of Nursing)?**

No

**GE Course and GE Goal(s)****Is this a General Education (GE) course or is it being considered for GE?**

No

Key: 14508