



SOUTH DAKOTA BOARD OF REGENTS
ACADEMIC AFFAIRS FORMS

New Course Request

SDSU	Jerome J Lohr College of Engineering / Mechanical Engineering
Institution	Division/Department
Dennis D. Hedge	4/24/2024
Institutional Approval Signature	Date

Section 1. Course Title and Description

Prefix & No. Course Title

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Pre-requisites or Corequisites

Prefix & No.	Course Title	Pre-Req/Co-Req?
ME 311	Thermodynamics I	Co-req
EM 331	Fluid Mechanics	Co-req

Registration Restrictions

None

Section 2. Review of Course

2.1. Will this be a unique or common course?

- Unique Course

Prefix & No.	Course Title	Credits
CEE 331	Fluid Mechanics Lab	1
ME 419L	Thermal Fluid Systems Design Lab	1

Provide explanation of differences between proposed course and existing system catalog courses below:

The proposed course would provide hands-on experience in the measurement of thermodynamics and fluid properties. CEE 331 is a course that covers civil engineering based measurements on fluids and does not cover any thermodynamics measurements. CEE 331 covers fluids in piping systems found in municipal areas as well as open channel flows. These flows do not represent the type of fluid flows found in mechanical engineering applications. ME 419L focuses on the design of systems and not the measurement of basic properties which is the focus of ME 377.

Section 3. Other Course Information

3.1. Are there instructional staffing impacts?

- No. Schedule Management, explain below. Faculty and teaching assistants are available to provide instruction for the mechanical engineering laboratory. ME 377 will be offered in the fall and spring.

3.2. Existing program(s) in which course will be offered? Mechanical Engineering (B.S.)

3.3. Proposed instructional method by university (as defined by AAC Guideline 5.1) L - Laboratory

3.4. Proposed delivery method by university (as defined by AAC Guideline 5.1) 001 - Face to Face

