



**SOUTH DAKOTA BOARD OF REGENTS
ACADEMIC AFFAIRS FORMS**

Authority to Offer an Existing Course

SDSU
Institution

Jerome J. Lohr College of Engineering / McComish
Department of Electrical Engineering and Computer Science
Division/Department

Dennis D. Hedge
Institutional Approval Signature

4/16/2025
Date

1. Is this a request to offer an existing common course or an existing unique course (approval will change course status from unique to common)?

Common Course

Unique Course

2. Provide the complete description as it appears in the system database including pre-requisites and co-requisites.

Prefix & No.	Course Title	Credits
EE 447	Advanced Power Systems	3
EE 547	Advanced Power Systems	3

Course Description
Advanced topics in analysis of unbalanced/faulted three-phase systems using symmetrical components. Dispatch and coordination of interconnected systems. System protection, generation control, transmission line transient operation, and specialized problems in transient stability. Grid tie and DC link systems. The national regulatory environment. System simulation using Matlab, Simulink and PowerWorld.

EE 447 Pre-requisites or Co-requisites

Prefix & No.	Course Title	Pre-req	Co-req
EE 431 OR EE 434	Power Systems Power Systems Analysis	Yes	No

EE 547 Pre-requisites or Co-requisites

Prefix & No.	Course Title	Pre-req	Co-req
EE 531 OR EE 534	Power Systems Power Systems Analysis	Yes	No

****Prerequisites need to be updated to include EE 531 OR EE 534.****

3. Universities currently offering this course, or any equated courses:

BHSU DSU NSU SDSMT SDSU USD

4. Does Offering the Course Create FTE Implications? No

5. Does Offering the Course Create Schedule Management Implications? No

Explain: The department has workload available to teach this course. The course has been offered as EE 492-592 Topics.

6. Existing program(s) in which course will be offered: Electrical Engineering (B.S. and M.S.)

7. CIP Code for the course: 14.1001

- 8. Is the university currently authorized to use the course prefix (i.e., the prefix is used for a minimum of 6 courses, not counting x9x courses)?** Yes
- 9. Proposed instructional method by this university:** R - Lecture
- 10. Proposed delivery method by this university:** S01 – Face to Face
- 11. University Dept.:** Electrical Engineering and Computer Science
Banner Department Code: SEEC
- 12. Authority to offer effective beginning in what term?** Fall 2025
- 13. Section Restriction:** N/A
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SDSMT Approval

From: Zhao, Long
Sent: Sunday, September 22, 2024 1:10 PM
To: Won, Kwanghee; McGough, Jeff S.
Cc: Seefeldt, Teresa; Hoffelt, Janell; Briggs, Darcy G.; Burckhard, Suzette; Jung, Sungyong; Qi, Junjian; Hansen, Tim; Fourney, Robert
Subject: Re: [EXT] Authority to offer EE 447/547 and EE431/431L, EE531/531L

Dr. Won,

Thank you for your email and for providing the detailed explanation of your proposal.

After discussing the matter with our department head, Dr. McGough, we are pleased to inform you that we have no issues with what you have proposed. We support your request to offer our EE 447/547 Advanced Power Systems course at SDSU, as well as the use of your EE 434/434L Power Systems course as an alternative prerequisite for EE 447.

Please let us know if there are any further steps needed from our side.

Best regards

Long Zhao, PhD, Assistant Professor,
EE Graduate Program Coordinator
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