



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

**Revised Course Request: Unique Course  
(Substantive Modification)**

|                    |                       |                                  |                  |
|--------------------|-----------------------|----------------------------------|------------------|
| <u>SDSU</u>        | <u>Sungyong Jung</u>  | <u>Suzette R. Burckhard</u>      | <u>3/18/2025</u> |
| <b>Institution</b> | <b>Form Initiator</b> | <b>Dean's Approval Signature</b> | <b>Date</b>      |

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

|                    |   |                  |
|--------------------|---|------------------|
| <u>SDSU</u>        | <u>Dennis D. Hedge</u>                  | <u>4/16/2025</u> |
| <b>Institution</b> | <b>Institutional Approval Signature</b> | <b>Date</b>      |

**Section 1. Existing Course Title and Description**

| Prefix & No. | Course Title                               | Credits |
|--------------|--|---------|
| EE 101L      | Introduction to Electrical Engineering Lab | 1       |

**Course Description**

An introduction to the study of electrical engineering using a hands-on electronics approach in a lab setting.

**Section 2. Modification(s) Requested**

**2.1. This modification will include:**

**Pre-Requisites** None to MATH 123 (Concurrent: Yes) or Math Index score 1300

**Co-Requisites** MATH 115 to EE 101

**Addition of a lecture component**

| Prefix & No. | Course Title                           | Credits |
|--------------|--|---------|
| EE 101       | Introduction to Electrical Engineering | 1       |

**EE 101 Course Description**

An introduction to the electrical engineering profession as well as fundamental electrical engineering concepts. Course topics include voltage, current, power, Ohms's law, sign convention, KVL, KCL, basic circuit components with applications, and computer simulation.

**If the addition of a lab/lecture component requires a change in pre-requisites or co-requisites, indicate below**

| Prefix & No.                | Course Title                               | Pre-Req/Co-Req?              |
|-----------------------------|--|------------------------------|
| MATH 123<br>OR<br>Placement | Calculus I<br><br>Math Index Score 1300    | Pre-Req<br>(Concurrent: Yes) |
| EE 101L                     | Introduction to Electrical Engineering Lab | Co-req                       |

\*EE 101 and EE 101L will be required co-requisite courses.

**Will the grade for this lab/lecture component be limited to S/U (pass/fail)?**  Yes  No

**Will section enrollment for the lab/lecture component be capped?**  Yes, max per section:  No

**Repeatable for Credit:**  Yes  No

**Instructional Method:** EE 101: R - Lecture

**Delivery Method:** EE 101: 001 - Face-to-Face

**Effective term of the change:** fall 2025

**2.2. Add justification for all changes noted above:**

The goal of EE 101 is to provide content that specifically prepares students for studying electrical engineering, with a focus on improving retention in the major and enhancing student performance in EE 216, a key introductory circuits course. The course will cover topics such as student success strategies, voltage, current, power, Ohm's law, sign conventions, Kirchhoff's Voltage and Current Laws (KVL and KCL), basic circuit components and their applications, as well as computer simulation. The course pre- and co-requisites were adjusted to require students to complete MATH 123 prior or concurrently to taking EE 101-101L. Students will complete EE 101 and EE 101L as co-requisite coursework.

**Section 3. Other Course Information**

**3.1. Will this course equate (i.e., be considered the same course for degree completion) with any other unique or common courses in the common course database?**  Yes  No

**Section 4. Department and Course Codes (Completed by University Academic Affairs)**

|  | <u>Current</u>   |    | <u>New</u> |
|--|--|----|------------|
| <input type="checkbox"/> <b>Change in University Department</b>    | McComish Electrical<br>Engineering and Computer<br>Science | to | No change  |
| <input type="checkbox"/> <b>Change in Banner Department Code</b>   | SEEC   | to | No change  |
| <input type="checkbox"/> <b>Change in <a href="#">CIP Code</a></b> | 14.1001  | to | No change  |