SEMICONDUCTOR DESIGN UNDERGRADUATE ACADEMIC CERTIFICATE

All required coursework must be completed with a grade of C or better (0-10-a (https://catalog.uidaho.edu/general-requirements-academic-procedures/o-miscellaneous/)).

Code	Title	Hours
ECE 410	Microelectronics II	3
ECE 415	Analog Integrated Circuit Design	3
ECE 445	Introduction to VLSI Design	3
ECE 460	Semiconductor Devices	3
Total Hours		12

Courses to total 12 credits for this certificate

Develop the ability to

- 1. identify, formulate, and solve semiconductor design problems by applying principles of engineering, science, and mathematics;
- 2. communicate effectively on topics related to semiconductor design concepts and technologies with a range of audiences; and
- 3. develop and conduct appropriate semiconductor design experimentation, analyze and interpret data, and use engineering judgment to draw conclusions about semiconductor design.

These learning outcomes demonstrate that students who have completed a certificate in semiconductor design have acquired the knowledge, skills, and abilities necessary to succeed in various fields of the semiconductor design industry. The students are well-prepared to pursue further education or employment in the semiconductor design field.