SEMICONDUCTOR DESIGN UNDERGRADUATE ACADEMIC CERTIFICATE

All required coursework must be completed with a grade of C or better (O-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.