



H-Form ECE 243

| A Brief Course Description | | | |
|----------------------------|---|-----------------|-------------|
| College | Engineering | | |
| Department/ Program | Electrical Engineering - Electronics Engineering Program | | |
| Course Name | Introduction to Digital VLSI | | |
| Course Code | ECE 243 | | |
| Year / Level | 4/7 | | |
| Credit Hours | 4 | | |
| Contact Hours | Lecture: 3 | Lab/Tutorial: 2 | Training: 0 |
| Language | English | | |
| Track | <input type="checkbox"/> University <input type="checkbox"/> College <input type="checkbox"/> Department <input checked="" type="checkbox"/> Program | | |
| | <input checked="" type="checkbox"/> Required <input type="checkbox"/> Elective | | |
| Pre-requisites Course | ECE 241 | | |
| Co-Requests | - | | |
| Course Description | Theory and practice of very-large-scale integration (VLSI) circuit design. Metal-oxide semiconductor (MOS) transistors; static and dynamic complementary metal-oxide- semiconductor (CMOS) combinational and sequential circuits; design of adders, multipliers, and shifters; performance, power consumption and testing. CAD tools for layout, timing analysis, synthesis, physical design, and verification. | | |