*Content Area Prerequisites Course Equivalents*

**Number** P314 **Credits** 4

**Course Title** Digital Electronics

**Description** This is a course on digital electronics and its applications in modern electronic instrumentation. Emphasis is placed on gaining experience with the use of digital integrated circuits, especially TTL circuits. The course covers simple gates, combinational and sequential logic circuits, counters, shift registers, astable multivibrators, 555 timer, encoding, decoding, and multiplexing. The course is intended for natural science and computer science majors. Three lectures and a three-hour lab per week. Prerequisite: P170 or P201. Offered in alternate years.

**Number Course Title Distance Credits School**

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| PHYS 302 | Electrical Circuits | Traditional | 3 | Winona State University |
| PHYS 330 | Electronics | Traditional | 4 | Winona State University |
| PHY 335 | Electronics | Traditional | 4 | University of Wisconsin LaCrosse |
| ETEC 1863 | Electronics-Digital Circuits | Traditional | 3 | South Central Technical College |
| PHYS 311 | Electronics: Circuits & Devices | Traditional | 3 | University of Wisconsin River Falls |
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