

PHYS3427 - Electronics with Laboratory

[PHYS 3427](#) Electronics with Laboratory (4 semester credit hours) Topics include direct and alternating current circuits, diodes and transistors, feedback, passive and active filters, simple amplifiers, and combinatorial and sequential digital electronics. Includes laboratory where students will learn to use typical laboratory instruments to test and to diagnose and troubleshoot problems inherent in the circuits they build in lab. The lab exercises are closely tied to the topics covered weekly in the lectures. Lab fee of \$30 required. Prerequisite: [PHYS 2326](#) or [PHYS 2422](#). (3-3) Y