



New  
Class  
Fall 2017

# **STUDIO: Electronics**

## **ATLS 4519/5519-080/081**

**Build Digital & Analog Circuits! Use Measuring Instruments!  
Make Your Own Arduino! Design Your Own PCBs...and MORE!**

This 3 credit hour course will take you beyond basic physical computing (as covered in OBJECT) to consider a broad range of electronic components and circuits in your ATLAS projects. We will cover topics based on class interests, including analog and digital circuits, interfacing with microcontrollers, electronic construction using breadboards, soldering, and an introduction to PCB (printed circuit boards) design. Lab experiments will introduce electronic concepts which will provide the foundations for individual or group final projects.

This course satisfies the TAM Focus Elective requirement.

Prerequisites: ATLS 3519 Object or permission of instructor.



**MON & WED | 3-4:50 pm**  
**ATLAS BTU LAB (ATLS 113)**

**Instructor: Wayne Seltzer** ([wayne.seltzer@colorado.edu](mailto:wayne.seltzer@colorado.edu))

Wayne is an ATLAS lecturer and interim director of the BTU Lab. He is also a Principal Product Manager at Oracle Corporation and organizes the Boulder U-Fix-It Clinic [[boulderufixitclinic.org](http://boulderufixitclinic.org)] where people learn to fix their broken stuff. He has M.S. and B.S. degrees from the Massachusetts Institute of Technology (MIT).

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