At the completion of the course, Introductory Microcomputer Interfacing Laboratory, students will be expected to:

1. To use the ANSI C programming language, and digital and analog interfacing in an interactive, microcomputer environment.
2. To learn to use digital timers, digital interfacing, and simple handshaking with expansion cards and external devices.
3. To learn the principles of operation and use of D/A and A/D converters and build a data acquisition circuit.
4. To learn to sample digital data, use anti-aliasing filters and windows, and perform the FFT.
5. To learn to use digital filters, and digital control strategies for both linear and non-linear systems.
6. To make programs and analog circuits work together (design and debugging).
7. To write clear, concise, informative laboratory reports.