

EET 2259-100: Programming for Electronics Technology
Sinclair Community College, Spring Semester 2018
Tuesdays & Thursdays 9:00 - 11:15 AM, Room 1-230

INSTRUCTOR: Nick Reeder, Office Room 1-118, Phone 937-512-2303, nick.reeder@sinclair.edu
Office Hours: Mon. 11:30-12:30, Tues. 11:30-12:30 & 4:30-5:30, Wed. 11:30–12:30, Thurs. 11:30–12:30.

COURSE DESCRIPTION: Computer solutions of engineering technology problems using LabVIEW. Covers the LabVIEW programming environment and virtual instruments, datatypes, debugging, sub-virtual instruments, programming structures, arrays, graphical presentation and analysis, file input/output, instrument control, data acquisition, and applications to electronic circuits. Three classroom, two lab hours per week.

Credit hours: 4 credit hours (= 3 classroom hours and 2 lab hours per week)

Prerequisite: EET 1131 and EET 2201

TEXT & SUPPLIES:

- R. H. Bishop, *LabVIEW 2009 Student Edition* (Textbook plus software DVDs.)
- Scientific calculator
- Flash drive
- Safety glasses

TENTATIVE SCHEDULE:

Dates	Unit	Class Topics	Reading	Lab
January 9, 11	1	LabVIEW Basics	Chapter 1	Lab #1
January 16, 18	2	Virtual Instruments	Chapter 2	Lab #2
January 23, 25	3	Editing and Debugging Vis	Chapter 3	Lab #3
Jan. 30, Feb. 1	4	SubVIs	Chapter 4	Lab #4
February 6, 8	5	Loops	Sections 5.1, 5.2	Lab #5
February 13, 15	6	Shift Registers and Exam #1	Sections 5.3	Lab #6
February 20, 22	7	Case Structures; Sequence Structures	Sections 5.4, 5.5	Lab #7
Feb. 27, Mar. 1	8	Other Structures; Local Variables	Sections 5.6 to 5.12	Lab #8
March 6, 8		No class; Spring Break		
March 13, 15	9	Arrays	Sections 6.1 to 6.3	Lab #9
March 20, 22	10	Clusters and Matrices	Sections 6.4 to 6.10	Lab #10
March 27		Exam #2		
Mar. 29, Apr. 3	11	Charts and Graphs	Chapter 7	Lab #11
April 5, 10	12	Data Acquisition	Chapter 8	Lab #12
April 12, 17	13	Strings and File I/O	Chapter 9	Lab #13
April 19, 24, 26	14	Instrument Control	Appendix A	Lab #14
May 1, 3		Review & Final Exam		

HOW TO SUCCEED IN THIS COURSE:

- * Attend all scheduled hours of class.
- * Read the scheduled textbook sections before class.
- * If you are having any difficulties with the course, see me during my office hours, or contact me by phone or e-mail. If you get sick or have personal problems, contact me as soon as possible so that we can plan a strategy to keep you from falling too far behind.

GRADING COMPONENTS:

Homework: 15%
 Labs: 20%
 Quizzes: 15% (lowest quiz grade dropped)
 Oral Presentation: 5%
 Exam #1: 15%
 Exam #2: 15%
 Final exam: 15%

GRADING SCALE:	A	90% – 100%
	B	80% – 89.9%
	C	70% – 79.9%
	D	60% – 69.9%
	F	less than 60%

COURSE POLICIES:

- * I expect you to attend all class meetings, and I will take attendance. While attendance is not a direct part of your grade, missing class may cause your grade to drop, as described below.
- * Labs and homework assignments are **due at the beginning of class** on the due date. **I will deduct 25 percent from your grade on any late assignment that you turn in within one week of the due date. I will not give any credit for an assignment handed in more than one week late.**
- * If you miss a quiz for any reason, you'll receive a grade of 0 for that quiz; **I don't give make-ups for missed quizzes.**
- * If you miss an exam, contact me (either in person, by phone, or by e-mail) as soon as possible to arrange a make-up. **If you take an exam late, I will deduct 25 percent from your grade for that exam.**
- * Make sure that all assignments are complete when you hand them in. If you skip part of an assignment, I will take off points for the missing part, and I won't let you hand the assignment in a second time to regain the lost points.
- * Turn off cell phones, and do not use them during class. Do not use the computers for non-academic work.
- * No food or soft drinks in the classroom. Stow water bottles at floor level, never on the computer desk or lab bench.
- * While you may discuss assignments with other students, anything that you turn in must be your own work, not work that you have copied from another student. Cheating includes copying someone else's work, obtaining or distributing an advance copy of a quiz or exam, and allowing someone else to copy your work. Depending on the severity of the incident, the penalty for cheating ranges from a zero on that assignment to an 'F' in the course. See Sinclair's Academic Integrity Policy (below) for more on this topic.

COLLEGE POLICIES:

Sinclair Academic Policies. To view policies on topics such as dropping a course, late registrations, administrative withdrawal, grades, student behavior guidelines, safety and security, academic and other counseling, go to

<https://www.sinclair.edu/services/basics/registration-and-student-records/policies/>.

Sinclair Academic Integrity Policy. Conduct yourself in accordance with Sinclair's honor code and academic integrity policy at <https://www.sinclair.edu/services/conduct-safety/student-judicial-affairs/academic-integrity-policy/>.

Understanding these policies is your responsibility.

USEFUL CONTACT INFORMATION:

EET Dept. Chair: Paul Lawrence, Room 3-134, Phone (937) 512-2570,
paul.lawrence@sinclair.edu

Co-op Coordinator: Chad Bridgman, Room 3-134, (937) 512-2508,
chad.bridgman@sinclair.edu