



San Bernardino

Valley College

DISTANCE EDUCATION ADDENDUM

COURSE ID:	ELEC 219C
DEPARTMENT:	Electrical/Electronics
SUBMITTED BY:	Anthony S. Ababat
DATE SUBMITTED:	4/19/20

For additional resources on completing this form, please visit the DE Website:

www.valleycollege.edu/onlinefacultyresources

- 1. Please select the distance education method that describe how the course content will be delivered. Check ALL methods that will be used for offering this course, even if previously approved.**

- FO – Fully Online
- PO – Partially Online
- OPA – Online with In-Person Proctored Assessments
- FOMA – Fully Online with Mutual Agreement

- 2. In what way will this course, being offered in distance education format, meet the needs of the campus? (Ex: Student Access, Campus Strategic Plan, Campus Mission Statement, Online Education Initiative (OEI), Student Equity, Student Needs). Please be specific.**

Presenting ELEC 219C Course through a distance education format will expand access to this class. Students who enroll in this course do so to enhance their skills in Industrial Automation. Historically, students enrolling in this course encounter time constraints in coming to School Campus and transportation as a barrier. Since 2019, most students that want to join Industrial Automation are working students. To eliminate these barriers, most students prefer to take this course online; By offering online classes, Electronic and Electrical technicians or working students from various companies can enroll this course and achieve their lifetime career goals.
(Student Access, Student Equity, Student Needs)

- 3. Will this course require proctored exams?**

- No
- Yes - If yes, how?

- 4. How will the design of this course address student accessibility? Are you including any of the following?**

- Captioned Videos
- Transcripts for Audio Files
- Alternative Text for Graphics
- Formatted Headings
- Other – If other, please explain.



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5. Provide a specific example of how the instructor will provide synchronous office hours for distance education students? (Ex: Online Conference Tool, Cranium Classroom, Zoom, Pisces, Skype, etc.)

Synchronous office hours can be implemented by the instructor using Online Conference Tool such as Microsoft Office Team or Confer Zoom meetings that can be done by sending students the invitation link schedule deemed appropriate for this specific course to help students understand the course materials and successfully complete the class.

6. Provide a specific example of how this course's design ensures regular and effective instructor-student contact? (Ex: Threaded discussion forums, weekly announcements, instructor prepared materials, posting video and audio files, timely feedback on exams and projects, synchronous online office hours, synchronous online meetings, synchronous online lectures, etc.)

To ensure regular and effective instructor-student contact, the course design include "Expectations for the Student and Instructor". The specific example as provided in this online course is given below:

Student Expectations

To be successful in this course, you are expected to:

- Complete the **Student Learning Contract** by Friday of the first week.
- Read the entire **Syllabus**.
- Consistently check **Announcements**, your school email account, and the Canvas Inbox.
- Review the **calendar** for due dates.
- Participate in **Discussions** (post weekly and respond to your classmates).
- Turn in your own work that has been thoughtfully completed. Proofread for errors in spelling and grammar.
- **Communicate** with your instructor of any problems or confusion well in advance of the due date.
- **Complete** all discussions, assignments, online quizzes, and/or exams on time.

Instructor Expectations

As your instructor, I will

- **Communicate** to you via Canvas announcements and Inbox.
- **Post** weekly course-related announcements.
- **Respond** to your email or phone message within 24-48 hours.
- **Monitor** all discussions and provide feedback to the entire class where needed at least weekly.
- Provide individual **feedback** on assignments/papers/projects within one week of the due date. (View [Finding Grades and Feedback](#))
- Work with you so you will have a **successful learning experience** in this course!
- Provide all course material in an accessible format.



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<https://www.valleycollege.edu/online-classes/faculty-resources/reg-effective-contact.php>

7. **Provide a specific example of how this course will ensure regular and effective student-student contact?**
(Ex: Threaded discussion forums, assigned group projects, threaded discussions, Notebowl, peer-to-peer feedback, synchronous online meetings, etc.)

A student-student contact is achieved by implementing the Threaded discussion forums where each student will reply to each of their peers in a weekly given topics, assigned group projects for students to collaborate their plans and ideas to successfully complete the required project for this course. Since the course is designed as Hybrid, students will have the opportunity to meet in campus for the laboratory portion of this class, physically work on their laboratory project and interact with each other.

8. **Describe what students in this online version of the course will do in a typical week on this class. Include the process starting after initial log in.**

We can achieve student-student contact by implementing the Threaded discussion forums where each student will reply to each of their peers in a weekly given topic. Assigned group projects for students to collaborate on their plans and ideas to complete the course's required project. This course is Hybrid, so students will have the opportunity to meet on campus for the laboratory portion of this class, physically work on their laboratory projects and interact with each other.

9. **Provide a sample statement that could be included in the syllabus for this course that communicates to students the frequency and timeliness of instructor-initiated contact and student feedback.**

Through discussion topics and monitoring student performance weekly. Email reminders and announcements. Phone calls and text messages if required. Specific example is provided below:

As your instructor, I will

- **Communicate** to you via Canvas announcements and Inbox.
- **Post** weekly course-related announcements.
- **Respond** to your email or phone message within 24-48 hours.
- **Monitor** all discussions and provide feedback to the entire class where needed at least weekly.
- Provide individual **feedback** on assignments/papers/projects within one week of the due date. (View [Finding Grades and Feedback](#))
- Work with you so you will have a **successful learning experience** in this course!
- Provide all course material in an accessible format.

10. **Provide a specific example of how regular and effective student-student interaction may occur in this online course.**

Since the course is designed as Hybrid, students will have the opportunity to meet in campus for the laboratory



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portion of this class, physically work on their laboratory project and interact with each other. The effective student-student interaction may also occur in this online course by providing socially focused exchanges such as a guided instruction, positive and healthy exchange of information, and participation in activities designed to increase a social rapport. For example, the collaborations and discussion among students in performing their labs on campus and building up the required Program to successfully implement the assigned laboratory work. Discuss among themselves the appropriate strategy to perform the required program as well as the required troubleshooting in situations that the PLC Program will not initially work as expected. Furthermore, it can also be done through weekly threaded discussions, Synchronous online meetings, and Peer-to-peer feedback.

11. Provide a specific example of how regular and effective instructor-student interaction may occur in this online course.

An effective instructor-student interaction implemented in this ELEC 219C class will be to encourage students in participating in discussions, providing students with feedback, listing the office hours availability and consistent communications. As a student, they can expect to interact with their instructor throughout the week, beginning with the weekly announcement posted each Sunday. Students should plan on checking Canvas at least three times during the week – once to post initial assignments, once to post feedback to other assignments, and responding to your peer and instructor’s feedback. This can include:

- Solving and working electrical tasks using the PLC Logix Simulation Software
- Follow up reminders or previews of upcoming assignments
- Comments on or a summary of a current discussion
- General comments on how the class did on a test or assignment
- Remediation on a misunderstood or muddy learning point, based on student work
- A link to a relevant video or article
- Perform the required laboratory work using their laptop along with the required Lab equipment such as PLC 1000 or RS Logix 5000

Instructor will assist and evaluate students work after performing each laboratory activity and will provide feedback and demonstration to successfully implement the required laboratory tasks.

12. Does this course include lab hours? No Yes – If yes, how are you going to accommodate the typical face to face activities in an online environment?

Laboratory Hands-on exercises provided every week can be done through, Industrial Automation, and Allen Bradley Emulation Software. Compact Logix Laboratory Equipment, along with other Software such as RS Link, RS Logix Micro English, and RS Logix Emulate 500. The FESTO Industrial Equipment used in SCADA and Simulation PLC Logix by "PLCLogix.com" reinforces excellent real-world, hands-on laboratory work. Future improvements for Laboratory Hands-on Experiment made through Arduino units or Actual Automation Project preferred by the students.

13. How will you accommodate the SLO and Course Objectives in an online environment?

Typically, SLOs and Course Objectives are addressed in lectures and evaluated based on assignments, discussions, and group presentations. These methods are still absolutely viable using a DE Hybrid format. The laboratory will be implemented by following the required social distancing guidelines and assigned approved schedule to perform the required weekly laboratory work. The students will use the laptop assigned to them along with the software and the PLC equipment needed for laboratory work. Each student will have their own laptop and will work individually



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to prove that their program will work using the PLC equipment and pre-built customize industrial application such as enhanced garage door opener, automatic car washer and other interesting Automation projects.

14. Are modifications needed to SLOs or Course Objectives in order to teach this course in the online modality?

No Yes – If yes, please explain the changes needed.

(It is advised that if you are changing course content or objectives that you speak with the Curriculum Co-Chair or Articulation Officer for guidance moving forward.)

To be completed by a member of the Curriculum Committee Review Team:

CURRICULUM CHAIR REVIEWED:		<input type="checkbox"/> YES <input type="checkbox"/> NO
DE REVIEW:		<input type="checkbox"/> YES <input type="checkbox"/> NO
CURRICULUM COMMITTEE DIVISION REPRESENTATIVE REVIEWED:		<input type="checkbox"/> YES <input type="checkbox"/> NO