Assessment: Course Four Column

Spring/Summer 2019

El Camino: Course SLOs (IND) - Construction Technology

ECC: CTEC 121:Concrete and Formwork

Course SLOs	*Assessment Method Description*	*Results*	*Actions*
SLO #2 Volume of Concrete - Students will be able to calculate the volume of concrete in “yards.” **Course SLO Status:** Active **Course SLO Assessment Cycle:** 2018-19 (Spring 2019) **Input Date:** 11/29/2013	**Exam/Test/Quiz -** Given the dimensions of a proposed foundation students will be able to calculate the volume of "yards" of concrete needed to successfully complete the job. **Standard and Target for Success:** The target passing rate is 75% of the class achieving a passing score of 70% or higher on the exercise.	**Semester and Year Assessment Conducted:** 2018-19 (Spring 2019) **Standard Met? :** Standard Met 80% of the class was successful in correctly calculating the volume of yards needed to complete the job (10/01/2019) **% of Success for this SLO:** 80 **Faculty Assessment Leader:** Ross Durand	**Action:** The Construction technology are would benefit from 2 modular classrooms so students may have study areas close to the laboratory areas instead of having to travel across campus for the lecture portion of the class. (10/01/2019) **Action Category:** Program/College Support
SLO #3 Auto Level - Students will be able to set up an auto level for use in the laboratory. **Course SLO Status:** Active **Course SLO Assessment Cycle:** 2013-14 (Fall 2013), 2018-19 (Spring 2019) **Input Date:** 11/29/2013	**Presentation/Skill Demonstration -** Students are provided with a an auto level and a tripod in the laboratory portion of the class. After being given instructions students should be able to correctly assemble the instrument on the first try. This is a pass/fail assessment, all students are required to correctly assemble the instruments. **Standard and Target for Success:** ???	**Semester and Year Assessment Conducted:** 2018-19 (Spring 2019) **Standard Met? :** Standard Met All students were successful in setting up the tripod and auto level. (10/01/2019) **% of Success for this SLO:** 100 **Faculty Assessment Leader:** Ross Durand **Semester and Year Assessment Conducted:** 2013-14 (Fall 2013) **Standard Met? :** Standard Met Students are provided with a an auto level and a tripod in the laboratory portion of the class. After instruction was given 18 out of 28 students were able to correctly assemble the instrument on the first try. This is a pass/fail assessment, all students are required to correctly assemble	**Action:** Auto levels need calibration and more are needed to fully support he program. (10/01/2019) **Action Category:** Program/College Support

Course SLOs	Assessment Method Description	Results	Actions
		the instruments. After remediation the remaining students were able to successfully complete the task. (10/09/2013) **Faculty Assessment Leader:** Ross Durand	

ECC: CTEC 150:Contract Estimating

Course SLOs	*Assessment Method Description*	*Results*	*Actions*
SLO #1 Residential Construction Estimating - Students will be able to demonstrate a basic knowledge of residential construction estimating. **Course SLO Status:** Active **Course SLO Assessment Cycle:** 2014-15 (Fall 2014), 2018-19 (Spring 2019) **Input Date:** 11/29/2013	**Exam/Test/Quiz -** During a scheduled Quiz, Construction Technology students in this class must be able to calculate the square footage of a given building to within the nearest foot. **Standard and Target for Success:** A successful standard for success is 85% correctly calculating the answer. In this class the success rate was 87% correctly answering the question.	**Semester and Year Assessment Conducted:** 2014-15 (Fall 2014) **Standard Met? :** Standard Met In this class the success rate was 87% correctly answering the question. (04/01/2015) **Faculty Assessment Leader:** Ross Durand	**Action:** Continue current course of action, reassess in 2 years. (04/01/2017) **Action Category:** Teaching Strategies
SLO #2 Window Estimate - Students will be able to prepare a window estimate from information found on a set of residential blueprints. **Course SLO Status:** Active **Course SLO Assessment Cycle:** 2015-16 (Fall 2015), 2018-19 (Spring 2019) **Input Date:** 11/29/2013	**Essay/Written Assignment -** Given a set of residential blueprints, students will analyze the information and prepare an accurate, written window estimate suitable for ordering the correct amount and styles needed for the individual project. **Standard and Target for Success:** Student success rate is targeted at 75% passing rate on the assignment. Passing is considered correctly identifying and sizing the needed windows.	**Semester and Year Assessment Conducted:** 2015-16 (Fall 2015) **Standard Met? :** Standard Met Nearly 80% of the students in the assessment performed as required to receive a passing grade on the assignment. Students who did not pass were gathered closely near the passing mark. (02/04/2016) **Faculty Assessment Leader:** Ross Durand **Faculty Contributing to Assessment:** Mximino Pena	**Action:** The college could help construction technology students performance in the future with the installation of wireless internet connections in the construction technology area. The addition of wireless internet would allow students to access the information they need while still at the lab or classroom, thus increasing chances of success. (02/05/2017) **Action Category:** Program/College Support

ECC: CTEC 160:Business and Legal Aspects of Contracting

Course SLOs	*Assessment Method Description*	*Results*	*Actions*
SLO #1 Legal Aspects - Students will be able to demonstrate a basic knowledge of the California Contractor License Law. **Course SLO Status:** Active **Course SLO Assessment Cycle:** 2014-15 (Fall 2014), 2018-19 (Summer 2019) **Input Date:** 07/01/2013	**Exam/Test/Quiz -** Construction Technology Students in this class will be able to pass a test generated from the reading and lectures on the basics of California Contractor License Law. The passing score is C or better. **Standard and Target for Success:** The standard for this SLO is 80% passing the test. This class had a passing grade of 85% on the license law portion of the class.	**Semester and Year Assessment Conducted:** 2018-19 (Summer 2019) **Standard Met? :** Standard Met This class had a passing grade of 85% on the license law portion of the class. (10/01/2019) **% of Success for this SLO:** 85 **Faculty Assessment Leader:** Ross Durand	**Action:** The number of students the college requires for the class is too large for the format (44). The ideal class size for this class is 25 students. (10/01/2019) **Action Category:** Program/College Support
		Semester and Year Assessment Conducted: 2017-18 (Fall 2017) **Standard Met? :** Standard Met This class had a passing grade of 85% on the license law portion of the class. (01/16/2018) **% of Success for this SLO:** 85 **Faculty Assessment Leader:** Ross Durand **Faculty Contributing to Assessment:** Joy Durand	**Action:** Continue to stay current on business aspects of the construction industry, reassess in 2 years. (01/21/2019) **Action Category:** Teaching Strategies **Follow-Up:** Continue to monitor the business side of the construction trades. Assess the class at that time. (01/18/2019)
SLO #3 Payroll Deductions - Students will be able to calculate payroll deductions. **Course SLO Status:** Active **Course SLO Assessment Cycle:** 2018-19 (Summer 2019) **Input Date:** 11/29/2013	**Homework Problems -** Students will create a document showing the correct payroll deductions for a construction business. **Standard and Target for Success:** 75% of students will successfully accomplish this assessment with a passing grade of C or better.	**Semester and Year Assessment Conducted:** 2018-19 (Summer 2019) **Standard Met? :** Standard Met 80% of students were able to successfully pass this test with a passing grade of C or better. (10/01/2019) **% of Success for this SLO:** 80 **Faculty Assessment Leader:** Ross Durand	**Action:** Enrollment size for this class is too large, a class size of 25 is needed to provide quality interaction with the students. (10/01/2019) **Action Category:** Program/College Support
		Semester and Year Assessment Conducted: 2017-18 (Fall 2017) **Standard Met? :** Standard Met More than 75% of students were able to create the required deductions on the payroll document. (01/17/2018) **% of Success for this SLO:** 75 **Faculty Assessment Leader:** Ross Durand **Faculty Contributing to Assessment:** Joy Durand	**Action:** This is an online class, more training for instructors to create online construction classes and hybrid classes. (02/19/2020) **Action Category:** Program/College Support

ECC: CTEC 180:Residential Plumbing

Course SLOs	*Assessment Method Description*	*Results*	*Actions*
SLO #1 Plumbing Materials and Methods - Students will be able to demonstrate a basic application of materials and methods commonly used in residential construction. **Course SLO Status:** Active **Course SLO Assessment Cycle:** 2014-15 (Spring 2015), 2018-19 (Spring 2019) **Input Date:** 11/29/2013	**Performance -** demonstrate a basic application of materials and methods commonly used in residential construction **Standard and Target for Success:** Students are able to complete the task correctly without any help, level 4. 70% of the students must meet this level. Students need a minor amount of help or hints to complete the task, level 3. 80% of the students must meet this level or a higher level. Students need a major amount of help to complete the task, level 2. 100% of the students must meet this level. Even with help, students quit or are unable to do the task, level 1. No student should meet this level.	**Semester and Year Assessment Conducted:** 2018-19 (Spring 2019) **Standard Met? :** Standard Met 90% of students were able to demonstrate a basic application of materials and methods commonly used in residential construction through laboratory assessments. (10/01/2019) **% of Success for this SLO:** 90 **Faculty Assessment Leader:** Ross Durand	**Action:** The college needs to replace the plumbing laboratory areas which were torn down in order to retrieve the soil needed to fill in the basement from the old administration building before starting construction on the new admin. building this past year. The construction technology area needs replacements for the lost laboratory space. (10/01/2019) **Action Category:** Program/College Support
		Semester and Year Assessment Conducted: 2014-15 (Spring 2015) **Standard Met? :** Standard Met Of the students tested, 70%appeared to have a mastery of the information, level 4, 90% or higher. 80% showed a strong understanding; level 3, 80% - 89% 100% had an basic understanding; level 2, 70% - 79% none fell short of understanding; level 1, below 70% (10/08/2015) **Faculty Assessment Leader:** Edwin Pasache	**Action:** Students met this with help and constant reviews. I will continue to review so that the pass rate will be obtained without any level of assistance (10/08/2016) **Action Category:** Teaching Strategies

ECC: CTEC 200:General Cabinet Making

Course SLOs	*Assessment Method Description*	*Results*	*Actions*
SLO #1 Cross-Cut Plywood - Using the panel saw, student will cross-cut plywood to specified dimensions. **Course SLO Status:** Active **Course SLO Assessment Cycle:** 2014-15 (Spring 2015), 2018-19 (Spring 2019) **Input Date:** 06/12/2015	**Presentation/Skill Demonstration -** Students will demonstrate ability to safely operate panel saw to cross-cut plywood. **Standard and Target for Success:** When presented with a piece of plywood, 95% of the students will be able to accurately cut it to within allowable tolerances to the specified dimension.	**Semester and Year Assessment Conducted:** 2018-19 (Spring 2019) **Standard Met? :** Standard Met Of the 16 students assessed, 14 successfully followed all safety procedures, 15 followed correct material-handling procedures, and 92% were successful in cutting the plywood to the specified dimension within allowable tolerances. Although this is an entry-level class, I would like to see a higher success rate. (04/22/2019) **% of Success for this SLO:** 92 **Faculty Assessment Leader:** Jack selph **Faculty Contributing to Assessment:** Jack selph	**Action:** Future lectures may include the topic of correct handling of heavy and awkward materials to prevent injury. (09/20/2021) **Action Category:** Teaching Strategies
		Semester and Year Assessment Conducted: 2014-15 (Spring 2015) **Standard Met? :** Standard Met Of the 19 students in the course, 18 successfully followed all safety procedures, 17 followed correct material-handling procedures, and 100% were successful in cutting the plywood to the specified dimension within allowable tolerances. Although this is an entry-level class, it was encouraging to see the students' level of performance and regard for safety. Only one student had to be reminded to put on safety glasses, two students needed advice on correct ergonomics for picking up heavy material, and all students were successful in achieving the desired results. (06/15/2015) **Faculty Assessment Leader:** Jack Selph	**Action:** Future students would benefit from a more current panel saw (automated or CNC). It would benefit students if they had additional lab time available to apply and perfect the skills learned. (06/12/2016) **Action Category:** Teaching Strategies

ECC: CTEC 203:Dedicated Use Cabinets

Course SLOs	*Assessment Method Description*	*Results*	*Actions*
SLO #1 S4S Stock Squaring - Presented with a piece of rough stock, student will utilize correct squaring procedure to produce stock in S4S condition **Course SLO Status:** Active **Course SLO Assessment Cycle:** 2014-15 (Spring 2015), 2018-19 (Spring 2019) **Input Date:** 11/29/2013	**Presentation/Skill Demonstration -** Students will demonstrate the ability to square rough stock on all six sides. **Standard and Target for Success:** When presented with a piece of plywood, 95% of the students are required to square rough stock to specific dimensions within allowable tolerance, following a seven-step procedure and all safety practices.	**Semester and Year Assessment Conducted:** 2018-19 (Spring 2019) **Standard Met? :** Standard Met Assessment was based on a performance test. Presented with a piece of stock in rough condition with random types of warp, students were required to produce a final product square on all six sides while achieving specified dimensions. Final evaluation was based on four criteria: safety, correct procedure, square condition and dimensional accuracy, with each area worth 15, 25, 30 and 30 points, respectively. The overall class average was 95%. Overall compliance with safety was very good. The most common mistake observed was using the planar before jointing one face flat before proceeding. (04/23/2019) **% of Success for this SLO:** 95 **Faculty Assessment Leader:** Jack selph **Faculty Contributing to Assessment:** Jack selph	**Action:** In order to achieve a flat piece of wood of consistent thickness, a greater emphasis is needed on jointing one face before proceeding to the planar. (09/21/2021) **Action Category:** Teaching Strategies
		Semester and Year Assessment Conducted: 2014-15 (Spring 2015) **Standard Met? :** Standard Met Assessment was based on a performance test. Presented with a piece of stock in rough condition with random types of warp, students were required to produce a final product square on all six sides while achieving specified dimensions. Final evaluation was based on four criteria: safety, correct procedure, square condition and dimensional accuracy, with each area worth 15, 25, 30 and 30 points, respectively. The overall class average was 98%. I was pleased with this result. I found the most common area of oversight to be students neglecting to square one end before cutting to final length. Overall compliance with safety was very good. (06/15/2015) **Faculty Assessment Leader:** Jack Selph	**Action:** Greater emphasis should be placed on the need for safety glasses, as one student needed to be reminded to wear them at all times while in the lab area. (06/15/2016) **Action Category:** Teaching Strategies

ECC: CTEC 212:Furniture Making Lab Developing Original Plans

Course SLOs	*Assessment Method Description*	*Results*	*Actions*
SLO #3 Final Product Critique - Student will critique final product. **Course SLO Status:** Active **Course SLO Assessment Cycle:** 2014-15 (Spring 2015), 2018-19 (Spring 2019) **Input Date:** 11/29/2013	**Presentation/Skill Demonstration -** Student will present the project he/she designed and the challenges encountered in fabrication, and will discuss alternative solutions with the class. **Standard and Target for Success:** The student will be assessed based on the quality of his/her presentation and openness to helpful critiques/input from the class, and 100% of the students will complete the presentation at an acceptable level of quality.	**Semester and Year Assessment Conducted:** 2018-19 (Spring 2019) **Standard Met? :** Standard Met 100% of the students participated in presentations. Some seemed nervous speaking in front of the class, others included excessive details and exceeded time limitations. All students were open to suggestions and responded well to class critique. (05/15/2019) **% of Success for this SLO:** 100 **Faculty Assessment Leader:** Jack selph **Faculty Contributing to Assessment:** Jack selph	**Action:** In the future, we will employ a time keeper to prevent students from exceeding time limits. We can administer a one or two minute warning to make them aware of their approaching time limit. (09/22/2021) **Action Category:** Teaching Strategies
		Semester and Year Assessment Conducted: 2014-15 (Spring 2015) **Standard Met? :** Standard Met 100% of the students achieved the goals in their presentations. Overall, students did well in their presentations. As expected, some seemed nervous speaking in front of the class but were open to suggestions and did interact well once they became involved in discussion with classmates. (06/15/2015) **Faculty Assessment Leader:** Jack Selph	**Action:** I think it would be helpful to encourage students to do brief presentations in small groups in order to build confidence. I also recommend that all students take at least one public speaking class during their academic career. (06/15/2016) **Action Category:** Teaching Strategies

ECC: CTEC 221:Drawer Systems

Course SLOs	*Assessment Method Description*	*Results*	*Actions*
SLO #3 Blum Soft-Close Drawer Slides - Students will install and adjust Blum motion soft-close drawer slides. **Course SLO Status:** Active **Course SLO Assessment Cycle:** 2018-19 (Spring 2019) **Input Date:** 11/29/2013	**Performance -** Students will be given a set of drawer slides and a drawer box to be installed in a provided cabinet. **Standard and Target for Success:** It is expected that 94% of the students will be successful with installing and adjusting drawer slides within industry standards.	**Semester and Year Assessment Conducted:** 2018-19 (Spring 2019) **Standard Met? :** Standard Met 92% of students were successful with installation of drawer slides. The most common mistake was not measuring carefully for front setback requiring additional adjustments later. (05/29/2019) **% of Success for this SLO:** 92 **Faculty Assessment Leader:** Jack selph **Faculty Contributing to Assessment:** Jack selph	**Action:** In the future, emphasizing the use of templates to achieve correct and consistent front setback distance would yield a more consistent result. (09/29/2021) **Action Category:** Teaching Strategies