

Providence Career & Technical Academy

General Construction 1

Syllabus

Instructor Name: Rick Goyette

Time Frame: 2019-2020

Email:

Course Description Students will continue with the LiUNA Chapter 74 framework with a heavy focus on Strand 2 and skills that will be evaluated during both the masonry and TeamWorks SkillsUSA competition.

Common Core Standards Addressed:

CTE Strand	Conceptual Category and Domain Code Learning Standard Number	Text of Mathematics Learning Standard
2.B.01	N-Q1 G-SRT1	Use units as a way to understand problems and to guide the solution of multi-step problems; choose and interpret units consistently in formulas; choose and interpret the scale and the origin in graphs and data displays. Verify experimentally the properties of dilations given by a center and a scale factor.
2.C.01	G-GPE7	Use coordinates to compute perimeters of polygons and areas of triangles and rectangles, using the distance formula.
2.F.01	N-Q1	Use units as a way to understand problems and to guide the solution of multi-step problems; choose and interpret units consistently in formulas; choose and interpret the scale and the origin in graphs and data displays.
2.L.01	2. Energy Resources in the Earth System 2.2	Describe the effects on the environment and on the carbon cycle of using both renewable and nonrenewable sources of energy.

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Required Textbooks, Reading and Supplementary Materials

- LiUNA training manuals to be provided in class and for homework by assignment.
- Bergwall Masonry Series Videos
- Project Based Learning Buck Institute (bie.org)
- IXL / Khan Academy

Assignment and Examination Schedule

Assignment	Date/Hours
Measuring and Cutting with wood	12 hours
Project Based Learning Greenhouse	12 hours
Supplementary Mathematical Learning	12 hours
Quarter 1 Mid Term	October 11 th
Grading and Material Movement	14 hours
Project Based Learning (Walkway)	16 hours
Confined Spaces	6 hours
Quarter 1 Final Exam	Nov 8th
Project Based Learning Greenhouse	10 hours
Skills USA Tasks Teamworks	10 hours
Quarter 2 Mid Term	Dec 13 th
Skills USA Teamworks	15 hours
Skills USA Teamworks Competition	10 hours
Quarter 2 Final Exam	Jan 22 nd
Project Based Learning Greenhouse	10 hours
Work Zone Safety 1	8 hours
Work Zone Safety 2	8 hours
Quarter 3 Mid Term	March 13 th
OSHA 10	10 hours
Project Based Learning Tool Maintenance	4 hours
Boomilever Project	10 hours
Quarter 3 Final Exam (Boomilever Weight Test)	March 31 st
Project Based Learning Greenhouse	10 hours
Concrete Construction	5 hours
Quarter 4 Midterm Exam	May 22 nd
Capstone (Pervious Concrete)	20 hours
Final Exam (Grade for Capstone Project)	June 12th

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Grading Policy:

Students are encouraged to come to class prepared, do their homework and participate in all class activities. However in an effort to measure students true knowledge only assessments will be used to calculate the score of all students. Assessments are end of units, end of chapters, projects, tests and quizzes. Summative assessments are worth **65%** and formative assessments are **20%** of students' final grade. Homework, and Employability Skills will be counted as **15%** of the assessment that it supports. Employability Skills are defined as those necessary to attain and maintain employment. These skills include attendance and timeliness, proper uniform, and maintaining safety at all times. Any student who obtains a score of less than 70% in any classroom assessment will be qualified to retake the assessment *only after he/she completes all necessary preparatory assignments. Employability Skills are assessed over the course of each week in shop and while the grade can always be improved it can't be replaced.*