

**Providence Career & Technical Academy**  
 General Construction Exploratory  
**Syllabus**

**Instructor Name:** Rick Goyette  
**Email:**

**Time Frame: 2019-2020**

**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 TeamWorks SkillsUSA competition.

**Common Core Standards Addressed:**

<b>CTE Strand</b>	<b>Conceptual Category and Domain Code Learning Standard Number</b>	<b>Text of Mathematics Learning Standard</b>
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)
- Khan Academy

#### Assignment and Examination Schedule

Assignment	Date/Hours
Exploratory Day 1	12 hours
Exploratory Day 2	12 hours
Exploratory Day 3	12 hours
Exploratory Day 4	12 hours
Exploratory Selection Process	Nov 1 <sup>st</sup>
Power Tool Safety and Use	10 hours
Construction Math and Tape Measure	10 hours
Quarter 2 Mid Term	Dec 9 <sup>th</sup>
Skills USA Teamworks	15 hours
Skills USA Class/ In House Competition	10 hours
Quarter 2 Final Exam	Jan 21 <sup>st</sup>
Masonry Basics	10 hours
Masonry Construction	8 hours
Project Based Learning Masonry Project	8 hours
Quarter 3 Mid Term Project Review	March 14 <sup>th</sup>
Intermediate Masonry	8 hours
Construction Drawings	4 hours
Firehouse Project	14 hours
Quarter 3 Final Exam Firehouse Plan	March 31 <sup>st</sup>
Greenhouse Project Based Learning	5 hours
LiUNA Block 1	10 hours
Quarter 4 Midterm Exam	May 23 <sup>rd</sup>
Capstone	20 hours
Final Exam (Grade for Capstone Project)	June 12 <sup>th</sup>

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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 timeliness, in 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.*