



Youthentity Career Academy – Construction and Design
2020-2021 Academic Year

Grade level: 11-12, sophomores by exception

Lead Instructors: Kirsten Petre McDaniel (Youthentity), Greg Beachey (Youthentity) Mark Gould (Gould Construction), Sandy Lowell (formerly Wagner Equipment), Scotty Reardon (Gallegos), Independent Electrical Contractors Association, Additional Instructors TBD

Location: Gould Construction, 6874 CO-82, Glenwood Springs, CO 81601 (behind Thunder River Market). Youthentity office, Carbondale. Other local businesses.

Course Duration: 1 year

Prerequisites: none

Credits: 25

Hours of Instruction: 378 +. This program aligns with the Roaring Fork School District academic calendar.

Time: 1:00 pm – 3:30 pm Mondays & Tuesdays, Thursdays & Fridays

Time: 1:00 pm – 2:00 pm Wednesdays

Start Date: 8/24/2020

End Date: 5/27/2020

Phone: (970) 963-4055

Email: Greg Beachey, Greg@youthentity.org

Textbooks: none

Computers: Students must supply their own computer to access Youthentity University through the internet. You may use your school email address to access Youthentity University.

Required supply fees: \$200 supply cost each year (this includes a pair of work boots which are yours to keep)

Students are required to provide their own transportation to and from class. Youthentity will provide bus passes to students who need them.

This syllabus contains the policies and expectations established for the Youthentity Construction and Design Career Academy. Students and parents should read the syllabus carefully and understand that they will be expected to abide by these policies and expectations fully.

Youthentity Construction and Design Career Academy Description:

The Youthentity Construction and Design Career Academy will provide students with an introduction to a variety of careers in the construction and design industry including: workplace safety, architecture, landscape architecture, civil and structural engineering, construction design and estimating/budgeting, project management, framing, roofing, excavation, concrete, masonry, electrical, plumbing, and mechanical. Students will be able to apply their knowledge through a team-building project. The academy will help you decide if a

career in this industry is something you'd like to pursue. Students will earn OSHA certification, NCCER Construction Essentials certification, and an electrical pre-apprenticeship certification upon completion of the course.

The four elements of the Youthentity Construction and Design Career Academy are as follows:

1. Career Exposure and Industry Knowledge. As part of the academy, students will learn about a variety of aspects of and careers in the Construction industry as follows:
 - a. About the industry (growth, employment, etc.)
 - b. How to select a company to work for
 - c. Ways to get into the industry and career paths, education & training requirements and industry compensation
 - d. Building Information Modeling
 - e. How to use basic tools, blueprint reading, etc.
 - f. Architecture
 - g. Land selection criteria & ways to finance
 - h. General requirements
 - i. Budgeting & estimating
 - j. Primary construction teams
 - k. OSHA & building codes
 - l. Grading & excavation
 - m. Foundations & foundation elements including concrete and masonry careers
 - n. Framing
 - o. Mechanical
 - p. Electrical
 - q. Plumbing
 - r. Insulation & Roofing systems
 - s. Windows, doors, cladding
 - t. Drywall & painting
 - u. Landscape architecture
2. Team project. Students will complete a team project. As well as individual projects, that may align with a student's Capstone requirements.
3. Youthentity University. General employability skills are critical to being successful in your career. Students will complete online coursework during class time blended with group discussions and industry speakers. Students will earn course completion certificates to help build their resume.
4. Training & Education Planning. We'll help you develop a plan for the careers you are interested in including determining what type of training or education you need to achieve your goals, their costs, what you can expect in terms of future earnings while balancing this with the lifestyle you'd like to achieve. Regardless of the path you choose, it's important to "know before you go" so that you don't take on unreasonable debt.

Program Expectations & Requirements:

ATTEND ALL CLASSES- Students are required to attend all classes with two exceptions:

1. If you are traveling for sports or other extra-curricular activities, you should expect to make-up any *labs* missed through volunteer service as labs cannot be repeated.
2. Illness provided you bring a doctor's note to your next class and an email directly from parents/guardians.

If you have excessive absences, determined by the sole discretion of the instructor, you may be withdrawn from the program early and issued an "F" grade.

Whether your absence is excused or unexcused, students must call, text or email their instructor to let them know they will not be in class. 4-hour notice is expected.

BE PUNCTUAL- Early is on time. On-time is late. Late is unacceptable. Be ready to go at your table for lectures and labs before class officially begins.

BE PREPARED- It is an expectation for you to come to class with the proper materials (classwork, paper, pencil, your computer, etc.). This also includes homework assignments, which are due at the beginning of class and will be submitted through Youthentity University. Also, your cell phone should always be put away. On lab days, you must wear all personal protective equipment required (work boots, sturdy pants, gloves, eye protection, etc.). As part of a real-world learning experience, Youthentity expects students to have the maturity to keep up on their work and to attend all program classes. Reminders will not be made to parents.

PARTICIPATE- Participate in all your labs, lectures, and discussions fully. Do not rely on others to do all the work. This includes the cleanup of the lab and learning spaces. For lectures, you should be able to ask at least one question of the instructor or guest speaker.

BE A GOOD EMPLOYEE AND TEAM PLAYER – This program is more than constructing things. It's about learning how to work with others, assume leadership roles, being reliable and accountable to your teammates and coaches, volunteering to further the organization and developing basic employability skills such as timeliness, dependability, thinking critically, teamwork, written and oral communication.

Grading:

The student will receive a letter grade for first and second semesters. Grades are based on the following:

Participation* – 60%
Homework** – 20%
Academic Exam – 10%
Skills Exam – 10%

90 – 100% = A
80 – 89% = B
70 – 79% = C
0 – 69% = F

*The student's grade is based on attendance, participation in discussions and labs, attitude, proper dress, respect, professionalism, and teamwork. The participation grade is determined at the sole discretion of the instructor except for attendance.

**Homework – All homework will be completed on Youthentity University and will not be accepted after the module closes.