

Applied Technology Center

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Introduction to Construction

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Course Description:

Construction Engineering is a 4 credit program designed to provide students with the skills needed for employment in both entry level and semi-skilled positions in the construction industry. Students will be in a position to continue their education at the post-secondary level.

Introduction to Construction is the first level of the program. This class is required to be considered a completer in Construction Engineering as well as Electricity and Masonry.

Intro to Construction Focus:

The main purpose of this class is for you will learn what types of careers are available for those willing to work hard and learn new things. We will learn the fundamentals of construction. The most important subject of this course is safety. We will cover safety with tools and on the jobsite, as well as how to correctly use personal protective equipment (PPE). Along with safety, employability skills are an area of study that is vital to students getting and maintaining employment. We will cover what it takes to be successful in the construction industry. We will engage in skill improving exercises, such as correct measurement practices, correct use of the equipment, and making precise cuts with different saws.

Course Goals and Objectives:

Upon successful and passing completion of the Construction Engineering program, students should be able to:

1. Perform the skills necessary for an entry level position in the construction field or post-secondary education.
2. Demonstrate pride and efficiency when performing customer service duties.
3. Demonstrate an understanding of the organizational structure of the industry.
4. Demonstrate proper work ethics and employability skills.
5. Demonstrate the ability to identify, use, and maintain tools and equipment.
6. Practice proper safety procedures when using tools, handling materials, or performing tasks.
7. Follow safety rules and regulations set up by the employer, the government, and OSHA.
8. Use appropriate planning and organization skills.
9. Develop leadership, interpersonal and technical skills needed in the work force.
10. Communicate effectively with employers, employees, and peers.

Intro to Construction Outline

1. NCCER Workplace Safety procedures
2. NCCER Introduction to the construction trades
3. NCCER Hand tool safety
4. NCCER Building materials and fasteners.
5. NCCER Basic communication skills
6. NCCER Power tool safety
7. Introduction to the electrical trades
8. Electrical materials.
9. NCCER Basic employability skills
10. Introduction to the plumbing trades
11. NCCER Introduction to blue print reading skills

School Policies:

The ATC has policies that are specific to this school and its programs. Such policies include the Driver/Rider agreement, Job/Work Sites Permission, Cell Phone Policy, and Course Syllabus. Other policies are the same as your home high school. These policies are the Media Consent Form and Internet Use Agreement.

These documents can be found online at the following web address: **www.rock-hill.k12.sc.us/domain/1354** If students or parents have any questions, please contact me and I can provide an answer.

Class Policies:

--This class will operate as close to a work environment as possible. This means you job is to be a student in this class. And yes, you do get compensated with the grade you earn. You can be fired from jobs if you do not do your work, show up late, being consistently unmotivated, being disrespectful, and putting forth no effort. If you come into class everyday with these actions and habits, it will be difficult to earn a passing grade in this class. I won't "fire" anyone who gives me a good effort and is trying to grasp the material or skills. Each day you have an opportunity to enhance your skill set and improve your grade.

--"Think Before You Do" This means to plan out what you are about to do in you mind and or on paper before you begin the work. It is not fun to find out half-way through a project that it won't work because angles are wrong or the material is not correct. Many problems can be solved before they happen if you "Think Before You Do."

--"Think About What You Are Doing While You Are Doing It" Stay focused on your task and you will reduce the amount of mistakes you make and the risk of injury.

Class expectations:

These expectations were developed by the students in previous classes and then approved by the instructor.

- 1- Work safely
- 2- No electronic devices unless authorized
- 3- Don't use tools as weapons
- 4- No sleeping on the job
- 5- Respect yourself- Live up to your potential
- 6- Respect others- treat others as you wish to be treated
- 7- Treat tools as if they were your own
- 8- Dress professionally
- 9- Be on time
- 10- Be prepared for class
- 11 -Work efficiently
- 12- Clean work areas

Disciplinary Actions:

If students do not observe the class expectations, the instructor will take certain actions to promote an effective and safe classroom environment.

First Offense: Verbal Warning/Correction. A brief conversation informing the student of the wrong behavior will take place.

Second Offense: Private Student-Teacher Conversation. A discussion with the student about how their behavior is affecting their performance and the classroom atmosphere will take place.

Third Offense: Writing Assignment. The student will be reminded of the classroom expectations that they have been violating. Then the student will write a short essay about what the class expectations mean to them, how their actions have not been aligned with the class expectations, and what are some of the consequences that may happen if their actions do not change.

Fourth Offense: Parent Contact. Parents will be contacted by the instructor if the student's behavior continues. Parents will be notified of the specific behavior issues the student is exhibiting. The instructor and parents will attempt to put a system in place to discourage the behavior further.

Fifth Offense: Formal Referral. Upon continued undesired behavior, the student will be referred to administrators for further action.

Note: Depending on the type of offense, the instructor may make a judgment call to immediately place a phone call to parents or write a formal referral.

Cell Phone Discipline Policy

1st Offense: Warning

2nd Offense: 1 Day ISS

3rd Offense: 2 Days ISS

More Offenses: Considered defiant behavior and punishment will be issued according to the student's discipline history.

Grading System:

Lab	30% - Day to Day Assignments and Weekly Grade
Project	25% - Grades for Completed Projects
Tests	20% - Regularly Scheduled Tests
Quizzes	15% - Quizzes During Instructional Units
Classwork	10% - Assigned classwork

Final Course Grade Breakdown:

Quarter 1(or 3) Grade: 40%

Quarter 2(or 4) Grade: 40%

Final Exam Grade: 20%

Grading Scale:

A: 100-90

B: 89-80

C: 79-70

D: 69-60

F: 59-0

Mid-Term Test:

There will be a mid-term assessment that takes place just before the end of the rotation period. It will be comprised of information and skills learned during that period. The score will not be entered into the grade book until the end of the semester.

Other Class Room Policies:

--Everyday, students have the opportunity to earn a 100 in the Lab category. Points will be assessed on the students safety habits(wearing safety glasses when using equipment, following safety guidelines, etc), engagement(staying on task, staying focused, completing assignments, etc), and employability skills(following instructions, being

prepared for class, wearing the proper clothing, etc). If students do not perform to these expectations, their daily score will reflect that.

--The weekly grade is a sum total of student's daily grades. This assignment category runs from Friday to Thursday. This schedule reflects a typical company's pay schedule. Each Thursday, this grade is recorded into the PowerSchool grade book.

--Engage during class time. As I am conducting class, I am looking for students to be active and involved in the projects. If students avoid the work and are consistently not involved, that qualifies them for a **zero**.

--Attendance will be taken each day. Attendance is logged in at the beginning of each class. If a student misses a class, they receive 25% for that day's lab grade. Students can complete make-up assignments if they ask the instructor to set something up for them. This will allow for some credit to be made up in the weekly grade category. If the student does not set up an assignment with the instructor, the grade will remain a zero.

-- Phone calls to parents will be placed after absences to keep parents up to date of their child's attendance in class.

-- **Failure due to absence:** If a student missed 7 or more classes in a semester, they will be placed into the automatic failure category. Students will be required to complete make up school or competency based credit application.

--If a student misses classwork due to an absence, they have 5 school days to turn it in for full credit. If they turn it in after 6-10 school days, they can get a maximum of 90 points. If they turn it in after 11+ days = 80pt max. **Until they complete the assignment, the grade is logged in as a zero.**

--Extra help time is available if the student schedules it with the instructor.

-- Be prepared for class. Have 3 pencils and paper always. The easiest way to keep these items is placing them in your locker. There will be days designated to working from the textbook.

-- **Safety Glasses will be worn AT ALL TIMES** when using tools, helping someone use tools, or standing near someone using tools. If students make cuts without using their safety glasses, it will be documented and it will affect their daily grade. If the problem continues, the student may be removed from working with the tools. The person using the tool is not the only one who could get hit in the eye while using the tool.

-- Students will be issued certain hand tools and a locker at the beginning of the year. It is the student's responsibility to keep up with the tools. A tool check-out form will be filled out at the beginning of the semester. This form lists the costs of the tools should they be misplaced or intentionally broken. **This form must be signed by the student and parent.**

-- Wear the proper clothing. Closed toe shoes are a MUST. Have clothes that can get dirty and dusty. At least bring a t-shirt to put on top of your other clothes so you don't mess up your normal clothes. The school district is not responsible for damaged clothing.

-- Do Not Use or pretend to use any tool as a weapon. Any actions like this will be immediate dismissal from class. You will be sent to an administrator's office, immediately.

-- There are cameras in the classroom that are recording each day. Your actions will be recorded in the case of inappropriate behavior or an accident.

--I want to challenge you to push yourself. Ultimately it is up to you whether you pass or fail this class and life. Apply yourself, try to learn some new skills, and make the most of this opportunity. See what you are made of, and let's see what you can make. I believe that there is a level of excellence that each student can achieve. My hope is that in this class, you can find that inside of you.