

## Advanced Manufacturing I

Material covered in this course includes employability skills, safety, construction math and drawings, materials handling, tools, and more. This course also emphasizes the fundamentals necessary for a career in the advanced manufacturing field, including an introduction to fabrication, welding, and assembly.

## Advanced Manufacturing II

Material covered in this course includes precision measurement, circuits, electronics, hydraulics, and pneumatics. This course also covers more advanced segments of advanced manufacturing, such as programmable logic controllers and robotics. Along with some employability skills, the students will finish the course with a large amount of time spent doing assembly simulation in real-world applications.

The following student prerequisites are required:

- C or higher in English (the previous year)
- C or higher in Math (last course taken)
- Instructor approval



## Agricultural and Natural Resources I - Year 1

The first course is designed to introduce the student to fundamental concepts and principles of the modern agricultural and natural resources industry. Emphasis is placed on career and leadership skills; basic principles of plant, animal, and soil science; and basic mechanical technologies in the field.

## Agriculture and Natural Resources II - Year 2

The second course is designed to continue the exploration of fundamental concepts and principles associated with agriculture and natural resources. Emphasis is placed on the conservation and management of natural resources; agricultural business management practices; and the environment as it relates to water quality, forestry, and wildlife. Instruction is provided on basic agriculture construction techniques and agriculture business management and processes.

The following student prerequisites are required:

- C or higher in science (the previous year)
- C or higher in English (the previous year)
- C or higher in mathematics (last course taken)
- Instructor approval

## Culinary Arts - Year 1

The foundational skills necessary in the foodservice industry are included in Culinary Arts I. This course emphasizes the real-world, hands-on practice of food preparation. Food preparation techniques included in this course include breakfast foods, dairy, and sandwiches; fruits, vegetables, salads, and garnishes; and potatoes and grains. Students will also prepare to take the NRA's ServSafe exam to become ServSafe Food Safety certified.

## Culinary Arts - Year 2

Culinary Arts II emphasizes the hands-on practice of food preparation. The food preparation techniques in this course include desserts and baked goods; meat, poultry, and seafood; and stocks, sauces, and soups. This course also places emphasis on an internship experience.

The following student prerequisites are required:

- C or higher in English (the previous year)
- C or higher in math (last course taken)
- Instructor approval

## Construction Core - Carpentry Year 1

The Construction course introduces students to fundamentals of construction safety, tools, math, and blueprint reading, as well as basic carpentry, electrical, masonry, and plumbing skills.

## Carpentry - Year 2

The Carpentry course consists of an in-depth study of basic safety, construction math, materials, wall, ceiling, and roof framing; windows and doors; and construction essentials. This one-Carnegie-unit course should only be taken after students successfully pass Construction Core.

The following student prerequisites are in place:

- C or higher in English (the previous year)
- C or higher in math (last course taken)
- Instructor approval



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## Health Science Core - Year 1

The Health Sciences (Core) course introduces students to the theory and practical applications of tasks related to employment in the field of health science. Students will cover topics such as safety in the workplace, infection control, health care systems, and the vital organs of the human body. The course offers insight into careers in health care.

## Healthcare and Clinical Services - Year 2

The Healthcare and Clinical Services course helps the student establish insight in the healthcare field. Students will be exposed to the theory and applied tasks related to careers within health care. This course covers topics such as human growth and development, health informatics, information technology, and therapeutic and rehabilitative services.

The following prerequisites are required:

- C or higher in English (the previous year)
- C or higher in math (last course taken)
- C or higher in biology (or the last science course taken)
- Passing Score on Biology I state test
- Instructor approval



## HVAC - Year 1

HVAC I (Heating, Ventilation and Air-Conditioning) is an emphasis on Heating, Ventilation, and Air-Conditioning. Topics include employability skills, safety, construction math, construction drawings, materials handling, copper and piping, soldering and brazing, and basic electricity.

## HVAC - Year 2

HVAC II (Heating, Ventilation and Air-Conditioning) is an emphasis on Heating, Ventilation, and Air-Conditioning. Topics include employability skills, safety, carbon steel piping, introduction to cooling, introduction to heating, air distribution, leak detection evacuation recovery and charging, alternating current, and basic electronics. The course should be taken after the student has successfully completed HVAC I.

The following student prerequisites are required:

- C or higher in English (the previous year)
- C or higher in math (last course taken)
- Instructor approval

## Unmanned Aerial Systems - Year 1

Unmanned Aerial Systems (UAS) is a secondary CTE pathway in the STEM cluster for students interested in pursuing careers in the UAS field. Skills stemming from this pathway include electronics, avionics, aerospace science, GIS, airspace regulations/law, maintenance, mission planning, and flight control (manual and autonomous). Skills acquired in this course will be applicable in many industry sectors to include: military, agriculture, engineering, law enforcement, emergency management, forestry, real estate, marketing, and transportation.

## Unmanned Aerial Systems - Year 2

UAS II provides a more in-depth study of data processing. Along with capturing and editing video. Students will complete the program with a Capstone project.

The following student prerequisites are required:

- C or higher in pre-algebra
- Instructor approval

## Educator Prep - Year 1

Educator Prep I is an entry-level course. Students gain foundation competencies related to students as learners, planning and assessing teaching, teaching strategies, and communication skills. Students receive hands-on field experiences.

## Educator Prep - Year 2

Educator Prep II provides students with the opportunity to gain advanced skills needed to enhance them as learners, teachers, and communicators. Students receive advanced hands-on field experiences.

The following student prerequisites are required:

- C or higher in English (the previous year)
- C or higher in mathematics (last course taken)
- No more than two discipline referrals (the previous year)
- 90% attendance rate (the previous year)
- Instructor approval



The Lee County School District does not discriminate on the basis of race, color, national origin, sex, disability, religion, or age in the admission to and provision of educational programs, activities, and services or employment opportunities and benefits. The vocational department encourages males and females to enroll in non-traditional classes and to train for non-traditional jobs.