

OHS CTE Pathways Explanations 2024-2025

Class of 2025+ [Next Level Programs of Study: NLPS]

Ag Mechanical** 7117 Principles Ag* 5088 Ag Power* 7112 Ag Fab/Design 7228 Ag Mech CS	Agri-Sci Animals** 7117 Principles Ag* 5008 Animal Sci* 5070 ALS: Animals* 7230 Ag Research CS	Business Operations 7153 Principles Bus 7144 Bus Office Comm 7146 Digital Data App 7254 Bus Operation CS	Civic Arts/Art 4000/4002 Intro 2D/3D 4004/4006 Adv 2D/3D 7153 Principle Bus <u>QR</u> 7161 Principles Teach	Civic Arts/Band 4160 Begin Band 4168 Intermediate Band 4170 Adv Band <u>QR</u> 4210 Music Theory AP 7153 Principle Bus <u>QR</u> 7161 Principles Teach	Civic Arts/Choir 4182 Begin Chorus 4186 Intermediate Chorus 4188 Adv Chorus <u>QR</u> 4210 Music Theory AP 7153 Principle Bus <u>QR</u> 7161 Principles Teach
Hospitality Management 7173 Principles Culin/Hosp 7171 Nutrition 7172 Hospitality Management 7237 Hospitality Manage CS	Design Tech** 4802 Intro Engineer Design*/* 7196 Mech/Arch Design*/* 7202 Manufacture Principles/ Design*/* 7223 Mechanical Design CS	Education Professions** 7161 Principles Teach* 7157 Child/Adolescent Dev 7162 Teach and Learn* 7267 Ed Prof CS	Healthcare Specialist** 7168 Principles Healthcare* 5274 Med Terms*/* 7164 CCMA	Industrial Automation/Robotics 7108 Principles Adv Manufacture 7103 Adv Manufacture Tech 7106 Mechatronics Systems* 7224 Automation/Robotics CS	

**THD eligible *Dual credit class offered */*Two dual credits offered; one each semester ^Dual credit MAY be offered

***If you want to earn a Technical Honors Diploma (THD),** you need to take 6 college credits (usually two classes/two years, depending on the program) and complete the Pathway, so you need to look for classes that have a * next to two courses if this is a goal for you. NOTE: All dual credit does depend on teacher qualifications/availability; if there is a teacher change, that may change whether or not the DC is offered and whether or not you would be eligible for THD.

Pathway Information [Students must earn a C- or better in each Pathway course for it to count toward their Pathway requirement.]

- **Agri-Science Animals**--Agriculture class; covers general information on the subject. Agribusiness principles will be covered in depth. Pathway is decided in second course and would either be Ag Power (welding) or Animal Systems
 - **Subjects you need to be good at to be successful:** Math, biology, reading/comprehension skills.
 - **Skills you need to have to be successful:** Enjoy biology
 - **Things you need to enjoy doing:** Lab activities. You will be performing more dissections and related lab activities than any other course at Orleans. Approximately twenty-four dissections will take place over the course of your animal science career, in addition to other agriculture-related laboratory activities.
 - **Projects/Activities you will be doing:** Multiple dissections. This will include everything from a fetal pig lab to dissecting a squid. Labs which cover basic chemistry principles will also take place. Group activities that involve the management of an agriculture business will be included.
 - **AVOID this Major if...**you do not have a sincere interest in biology, agribusiness, or active membership in the FFA.
- **Ag Mechanical**--Agriculture class; covers general information on the subject; pathway is decided in second course and would either be Ag Power (welding) or Animal Systems
 - **Subjects you need to be good at to be successful:** Math, reading/comprehension skills, problem-solving. Must understand how to use equipment correctly and safely.

- **Skills you need to have to be successful:** Students must have the desire to work with their hands and learn to use tools correctly and responsibly. You will be expected to work in the shop, in addition to class work each day. Participants are required to clean the shop and return tools to their correct location at the end of each period.
- **Things you need to enjoy doing:** Developing skills that are actually useful in attaining a job after graduation.
- **Projects/Activities you will be doing:** Arc, MIG, TIG and Oxy-Acetylene welding. Plasma and O-A cutting will also be covered. In the 2022-2023 school year, small engines will be added to the curriculum
- **AVOID this Major if...**you do not wish to get dirty or work in hot/cold temperatures. Do not enroll in this major if you are not willing to perform manual labor each day in the shop. New shop assignments are made each class period. If you are not able to complete them in a timely manner you will fall behind and likely fail the course. Blueprint reading will be an important aspect of Ag Power beginning next year. You must be able to have the patience to understand the symbols in relation to welding a project.
- **Business Operations**--The Principles of Business Operations and Technology course will prepare students to plan, organize, direct, and control the functions and processes of a firm or organization and be successful in a work environment. Students are provided opportunities to develop attitudes and apply skills and knowledge in the areas of business, management, Microsoft office, and finance. Individual experiences will be based upon the student's career and educational goals
 - **Subjects you need to be good at to be successful:** English, technology
 - **Skills you need to have to be successful:** Ability to work independently and in groups, time management and organization, problem-solving, attention to detail, and persistence
 - **Things you need to enjoy doing:** Using the computer, working in an office setting, creating new things, and problem-solving.
 - **Projects/Activities you will be doing:** Creating Word documents, spreadsheets, slideshows, etc. using Microsoft software, creating business plans and learning about business operations
 - **AVOID this Major if...**you hate technology and/or computers, don't have any interest in working for or owning your own business, or you don't take the initiative to get things done.
- **Civic Arts: Art**--Exploring the world through creativity and expression
 - **Subjects you need to be good at to be successful:** Art
 - **Skills you need to have to be successful:** Creative, able to think outside the box, determination, ability to draw or work with hands
 - **Things you need to enjoy doing:** Drawing, making things, looking at things from a different perspective, problem-solving
 - **Projects/Activities you will be doing:** Drawing, painting, sculpting
 - **AVOID this Major if...**you love rules/facts, don't like to think about things, aren't creative, don't like to get messy
- **Civic Arts: Band**-- Individual Instrumental Performance
 - **Subjects you need to be good at to be successful:** You must complete: 5th, 6th, 7th, and 8th grade band unless approved by the director of bands.
 - **Skills you need to have to be successful:** Understanding of basic rhythm structures, intonation awareness, pitch accuracy (up to the octave in the key of Bb Major), proper breath control, basic articulation understanding, proper posture understanding, correct embouchure technique, and how to perform well with others (correct attitude to understanding a group setting)
 - **Things you need to enjoy doing:** Performing on your given instrument, playing music that interests you, performing with others on your given instrument, and working together to support the entire group.
 - **Projects/Activities you will be doing:** Individual solo or ensemble performances, concert band performances, pep band performances, marching band performances, jazz band performances, parades, and "Music in the Park" (ex. Kings Island, Walt Disney World, Holiday World) performances.

- **AVOID this Major if...**you do not wish to fall in love with music (both performing and listening),...do not like working in groups with others,...are sensitive to loud sounds and music,or...are unreliable (as a group, you will be expected to improve your performance, show up on time to events/concerts, and hit deadlines that are required to be the best performer possible)
- **Civic Arts: Choir**–Exploring the world through song
 - **Subjects you need to be good at to be successful:** Any
 - **Skills you need to have to be successful:** Being able to read music is helpful, willingness to perform in front of others
 - **Things you need to enjoy doing:** Performing, singing, listening to music
 - **Projects/Activities you will be doing:** Choir performances, individual solo or ensemble performances, and events
 - **AVOID this Major if...**you are really shy
- **Hospitality Management (name change from last year)**--This class will incorporate the knowledge of the kitchen, items used in a kitchen, and various food and preparations. It will now also have a focus to prepare students for all the hospitality industry offerings in our area.
 - **Subjects you need to be good at to be successful:** Math, science, English
 - **Skills you need to have to be successful:** Fractions, attention to detail, patience, good personal hygiene, teamwork, comprehension, time management, following directions, communication, people skills, problem-solving, ability to think quickly, and awareness of your surroundings
 - **Things you need to enjoy doing:** Cooking, baking, working with others, trying new foods and food experiences, working in a team, working with people
 - **Projects/Activities you will be doing:** Learning about safety and sanitation in the kitchen, knife-cutting techniques, baking various items, cooking an array of foods, using various methods to prepare food, piping on cakes and cookies, learning about menus and restaurant functions and responsibilities
 - **AVOID this Major if...**you do not enjoy cooking or baking, if you do not work well with others, and if personal hygiene is NOT important to you.
- **Design Tech**--Students will work in a class with some shop environment to apply engineering principles in design, production, and operation of products, structures, and systems to develop and present solutions to engineering problems. Students will make contacts and work with industry professionals throughout the pathway.
 - **Subjects you need to be good at to be successful:** Math, science, English
 - **Skills you need to have to be successful:** Problem-solving, creativity, critical-thinking, computer skills, can perform under pressure and deadlines, time management, visualizing concepts, high attention to detail
 - **Things you need to enjoy doing:** Figuring out problems or how/why things work, data, following processes, applying math to real-life situations, developing new ways to find solutions, learning new technology, designing things
 - **Projects/Activities you will be doing:** Drafting, 2-D CAD modeling, 3-D CAD modeling, design process activities, floor plan designs, using a CNC Machine and 3-D printer, programming, architecture projects
 - **AVOID this Major if...**math is not a strong subject, you do not like figuring out problems, do not have attention to detail, or are not well-rounded academically.
 - **NOTE:** THESE ARE DUAL CREDIT CLASSES AND ARE TAUGHT LIKE A COLLEGE CLASS. COURSEWORK IS COLLEGE LEVEL.
- **Education Professions**--A course that provides a general introduction to the field of teaching. Students will explore educational careers, teaching preparation and professional expectations as well as requirements for teacher certification. Current trends and issues in education will be examined.

- **Subjects you need to be good at to be successful:** If there's interest in being an elementary teacher, you need to be well-versed in all subjects; if you have interest in secondary education, you will need to be strong in the content area you choose to pursue (i.e. math, English, science, etc).
- **Skills you need to have to be successful:** Patience, communication, organization, teamwork, enthusiasm
- **Things you need to enjoy doing:** Working with students, collaborating with others, critical thinking, learning about new ways to teach (i.e. technology, project-based, etc.)
- **Projects/Activities you will be doing:** Designing your future classroom, observations of elementary and secondary classrooms, creating and implementing lesson plans
- **AVOID this Major if...**you don't enjoy public speaking, if you do not work well with others, you do not enjoy working with children of ALL learning abilities, or if patience and understanding are not skills of yours.
- **NOTE:** THESE ARE DUAL CREDIT CLASSES AND ARE TAUGHT LIKE A COLLEGE CLASS. COURSEWORK IS COLLEGE LEVEL.
- **Healthcare Specialist**--Presents information on the health care system and employment opportunities at a variety of entry levels. Includes an overview of health care development, how health delivery systems are organized, legal and ethical considerations of health care delivery, and an overview of various health care professions.
 - **Subjects you need to be good at to be successful:** Science, math
 - **Skills you need to have to be successful:** Good study skills, good listening skills, good "people" skills
 - **Things you need to enjoy doing:** Group work, presentations, notes
 - **Projects/Activities you will be doing:** We do several group projects and presentations, we will learn about general health occupations, learn basic patient care/assessment techniques, learn about charting and medical records, etc...
 - **AVOID this Major if...**you do not like lectures, you do not like studying, you have no interest in healthcare careers.
 - **NOTE:** THIS IS A DUAL CREDIT CLASS AND IS TAUGHT LIKE A COLLEGE CLASS. COURSEWORK IS COLLEGE LEVEL REGARDLESS OF WHETHER OR NOT YOU TAKE IT FOR DUAL CREDIT!!
- **Industrial Maintenance**-- Students start by learning the basic skills needed for the manufacturing field (safety, tools, terminology, technical drawings) while working on real-world projects. Students will make contacts and work with industry professionals throughout the pathway.
 - **Subjects you need to be good at to be successful:** Math, reading
 - **Skills you need to have to be successful:** Reading a ruler, teamwork, time management, attendance, good work ethic
 - **Things you need to enjoy doing:** Hands-on projects, using power tools and equipment, working with others, figuring out solutions to real-world problems, working in a variety of environments
 - **Projects/Activities you will be doing:** Technical drawings, working with industry partners, basic woodworking, Lean Manufacturing, industrial robotics. Students will obtain OSHA-10 and Six Sigma White Belt certifications.
 - **AVOID this Major if...**you don't like working with your hands, are allergic to wood dust, don't work well with others, dislike math, dislike using power tools, dislike an up-tempo working environment.