

LEWIS & CLARK

CAREER CENTER

leading through innovation



COURSE CATALOG

www.lewisclarkcc.org • 2400 Zumbuhl Road | St. Charles, MO 63301



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City of St. Charles School District R-VI
2400 Zumbuhl Road
Saint Charles, MO 63301

Mr. Martin Hanley, Director
Dr. Steve Smith, Assistant Director
Dr. Jason Sefrit, Superintendent

636-443-4950

Dear Applicant,

Thank you for considering Lewis & Clark Career Center as one of your choices for next year! We're proud to be one of the largest and most successful Career & Technical Education (CTE) schools in Missouri—and we're right here in St. Charles County. Every year, from more than 11,000 juniors and seniors across the county, about 500 students are hand-selected to join our programs.

CTE is about more than just learning a trade—it's about preparing for your future. Employers today want people who not only know their craft but also have strong communication and teamwork skills. At Lewis & Clark, we give you both: hands-on experience and the confidence to succeed.

Here are just a few opportunities waiting for you:

- Health Occupations if you're interested in medicine.
- Computer Science if you love technology and apps.
- Building Trades, Electrical Trades, HVAC, or Brick & Stone if you enjoy working with your hands. (Fun fact: students in these programs build a real house every year—last year's sold for nearly \$450,000!)
- Early Childhood Careers if teaching is your passion.

Whatever your interests, Lewis & Clark has a program that can help you turn your goals into a career. If this sounds like the right fit for you, talk with your counselor and schedule a visit—we'd love to show you what makes our school such a unique and exciting place to learn.

If you have any questions, please don't hesitate to reach out.

We look forward to meeting you,

Martin Hanley
Director
mhanley@stcharlessd.org
636-443-4954

Steve Smith, Ed.D.
Assistant Director
ssmith@stcharlessd.org
636-443-4964

SCSD BOARD OF EDUCATION

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ENROLLMENT PROCESS

1. Prospective students apply online at lccc.enrolltrack.com
2. All students must complete the OASIS exam (Occupational Aptitude Survey and Interest Schedule) which is a timed, five-part, nationally-normed test that takes no more than 45 minutes in total to complete. Small group accommodations can be provided, and directions can be read to the student. It is administered by Lewis & Clark staff, usually at the partner school. (NOTE: Students applying for the Applied Retail & Business Skills (ARBS) Program are not required to take the OASIS exam)
3. It is strongly recommended that students with an IEP/504 who are interested in attending Lewis & Clark are referred for an ACE evaluation (ACE: Aptitude and Career Exploration test). This referral is made by the student's case manager or district's work experience coordinator at the partner school as soon as possible, preferably in the fall semester. ACE evaluations are not required for students applying for the Applied Retail and Business Skills program (ARBS). ACE evaluations can also be completed for students with disabilities who need assistance in determining appropriate career choices but who are currently not interested in attending Lewis & Clark.
4. Students must be currently enrolled and attending a public or private school in St. Charles County. Home-schooled students are encouraged to attend but will be admitted subject to the approval of the student's residential partner school and Lewis & Clark.
5. Applicants attending their district's alternative high school will be accepted on a case-by-case basis. They are subject to the enrollment and funding policies of the sending district. Students with behavioral problems are not appropriate candidates to attend Lewis & Clark based on the numerous professional occupational expectations and the many occupational safety hazards inherent in the programs.
6. The counseling offices in each high school will compile the application packet and upload it to EnrollTrack @ lccc. enrolltrack.com. This packet includes transcripts, attendance, and discipline reports.
7. All students must meet the criteria as set forth in the Missouri Safe Schools Act.
8. Late applications will only be considered after first-round applicants have been placed. At the discretion of L&C Administration, late applicants will be placed based on availability. There is no guarantee of admission.

9. Qualified applicants may be added through the tenth day of the first semester if space allows
10. Students who desire to transfer to Lewis & Clark from another technical school will be considered on a case-by-case basis.
11. Students must be in good academic standing and eligible to graduate with their original cohort class on time. This means a student coming over in his or her junior year needs to have enough credits to be considered a junior. Credit standing will be determined by the partner school and verified by Lewis & Clark.
12. The partner school reserves the right to remove a student from Lewis & Clark for lack of credits/academic progress or other concerns.
13. Lewis & Clark reserves the right to drop a student if his or her behavior is considered inappropriate or dangerous to him/herself or others, if the student is making a failing grade, or if the student becomes ineligible to earn a program certificate. Generally, students are dropped at the completion of a semester.
14. Students who are on a waiting list will be informed by either their home school or Lewis & Clark if an opening occurs and will also receive a letter from Lewis & Clark.
15. The partner school will notify Lewis & Clark of any drops or schedule changes. Lewis & Clark will notify the partner school of the same.
16. Lewis & Clark will inform each partner school counseling office of current openings after first-round enrollments are completed.
17. The Administration at Lewis & Clark reserves the right to make the final decision regarding any student's enrollment.

Lewis & Clark Career Center programs are offered without regard to race, color, national origin, gender, or disability.

FREQUENTLY ASKED QUESTIONS



Q How many schools attend Lewis & Clark Career Center?

A We are currently serving 16 partner schools in St. Charles County.

Q How many programs are there at Lewis & Clark?

A There are currently 17 programs.

Q How are slots for each sending school determined?

A Slots are determined by the sending school sophomore and junior population, as well as tuition money available from the sending district. The larger the school, the larger the number of slots.

Q Who chooses which students come to Lewis & Clark?

A Admissions decisions are made by the Lewis & Clark admissions committee who works collaboratively with each partner school.

Q What are the admission criteria?

A Each application is ranked by GPA, attendance, discipline, as well as additional factors such as whether or not a student participated in a Shadow Day or whether or not the student attended one of our Prospective Student Nights. These results are tallied along with the results of the written OASIS test to provide a baseline score to rank applicants. Students can be ACE tested as needed & ACE results are reviewed. In addition, the written section of the application is considered.

Q How and when will I know if my son/daughter has been accepted to Lewis & Clark?

A Students will find out by both their school counselor and from a letter of acceptance from Lewis & Clark. Enrollment decisions take place in February, March, and April.

Q My child's first choice of a program is full. What other options are there?

A Your child may want to consider another program that matches their aptitude and interest. Example: A student who is unable to get into Building Trades may want to consider Brick & Stone Masonry or Electrical Trades. Or, they may decide to stay on a waiting list in the event an opening occurs.

Q If my child is on a waiting list, how will I find out if an opening occurs?

A Lewis & Clark notifies the sending schools as openings occur. Spaces are then filled by the sending schools in coordination with Lewis & Clark. The sending school notifies its students who are on a waiting list.

Q How many students are in each program?

A There are approximately 16 students in each section (am & pm). Some classes are limited to 12, and others may have as many as 20.

Q How will my child get to Lewis & Clark?

A Each partner school provides bus transportation. Most schools do allow students to drive. Students must have a Lewis & Clark Career Center parking permit in order to drive to school.

Q What are the class times for Lewis & Clark?

A AM Session: 7:40am - 10:25am
PM Session: 11:10am - 1:55pm

Q Can I schedule an individual tour of Lewis & Clark?

A Certainly! Call 636-443-4950, and we will arrange a visit during regular school hours. You are also welcome to attend our Prospective Parent/Student Night usually held in November. Please visit us at www.lewisclarkcc.org or on facebook at www.facebook.com/LewisandClarkCareerCenter1

IEP STUDENTS

Q What is a CRE?

A A CRE is the Career Resource Educator of the school. The CRE has three primary duties: 1) serves as a liaison for Lewis & Clark and all partner schools for IEP meetings, 2) serves as a counselor for students with IEP's while at Lewis & Clark, and 3) is responsible for helping meet all modifications and accommodations for the students while placed in our programs.

Q How does an IEP or 504 work at Lewis & Clark?

A A student's IEP/504 works the same at Lewis & Clark as it does at their home school. All accommodations and modifications are met within the same guidelines as directed in the IEP/504. There are a few specific accommodations or modifications that cannot be met in certain Lewis & Clark programs due to the nature of the respective program. Sometimes these are based on safety concerns for the student or other students in the class. Any particular concerns regarding meeting accommodations or modifications will be addressed on an individual basis as necessary.

Q What about the testing requirements? Do you take into account a student's IEP during the entrance test?

A With one program exception (ARBS), all Lewis & Clark applicants are required to take the OASIS (The Occupational Aptitude Survey and Interest Schedule) test. It is a nationally normed test designed for students between the 8th grade and 12th grade. It is a test designed to rate students on whether or not they would be successful in the specific programs in which they are applying. Directions are read aloud and small group testing is provided. Many students with IEPs also take the ACE test. Please contact the case manager of the student as soon as possible to schedule an ACE test.



Precision Machining Tech (PMT)

Advanced Manufacturing

Overview

The goal of this program is to supply the industry a highly qualified workforce by graduating exceptional students that are highly motivated and skilled in the needs and requirements expected by the manufacturing community. The students will learn machine safety, blueprint reading, mechanical design, utilization of conventional machine techniques, and Computer Numerical Controlled (CNC) programming setup and operation.

The course will cover the following areas: Safety and OSHA, Blueprint Reading, Basic Mechanical Design, Machining Safety, Manufacturing Processes, Semi Precision Measurement, Precision Measurement, Layout, Metallurgy, Conventional Engine Lathe, Conventional Vertical Mill, Surface Grinder, CNC 3 axis mills, CNC lathes, Introduction to Computer Numerical Control Systems and G Code Programming, and MasterCam.

Prerequisite: Algebra I with "C" or higher (solid understanding of fractions and decimals important).

Employment Opportunities:

This is a high demand field of work and upon successful completion of the program, students can go on to work in any of the following areas as well as many others not listed: machinist, tool and die maker, production manager, quality control inspector, CNC operator, assembly supervisor, and aerospace machinist.

High School Credit Offered:

- 1 or 2-Year Program*
- 3 Electives junior year AND
- 3 Electives senior year

*In order to enroll in the second year of PMT, students may need to show exemplary machining and employability skills.





Welding (WE)

Advanced Manufacturing

Overview

Welding is the most common method for permanently bonding metal parts. Due to its strength welding is used to join beams and reinforcing rods. Students will design, engineer, build, and troubleshoot complex metal fabrication challenges. Program emphasis is on semi-automatic processes, Stick, MIG, & TIG welding in all positions, and various structural applications.

About This Occupation

Welding can be physically demanding and requires long periods of standing and the ability to lift 50 pounds. Welders must have arm/hand steadiness and good manual dexterity. For success in this career, you should also have problem solving skills, the ability to follow directions, and high school level math and reading skills.

Employment Opportunities:

Welding is an in-demand field of work and can be used toward a career in some of the following fields: structural iron & steel workers, welding inspector, boilermaker, sheet metal worker, pipefitter or steamfitter

High School Credit Offered:

- 2-Year Program
- 3 Electives junior year AND
- 3 Electives senior year

Certifications Offered:

- AWS D1.1 Qualification





Collision Repair (ACR)

Automotive & Mechanical Technology

Overview

The Collision Repair Program focuses on the repair and appearance of the interior and exterior of vehicles. Students learn how to assess, estimate, and repair using modern welding, sanding, masking and painting techniques, and the same advanced equipment found in professional auto collision repair companies. Students can earn ASE certifications, an industry standard for the auto collision repair business.

In one year of the two-year program, students will learn non-structural repair methods. These include MIG welding, straightening and aligning sheet metal, applying and shaping plastic fillers, plastic panel identification, and plastic repair methods. The other year will concentrate on painting and refinishing. Students will learn proper paint preparation procedures, masking techniques and detailing cars. Primer, sealer, and base coat/clear coat application will be covered along with paint defect identification and repair. Proper spray gun techniques will be taught and practiced with lots of hands-on spraying of primers, paints, and clears.

Employment Opportunities:

Successful completion of this program will allow the student to compete for any number of jobs in the automotive field.

High School Credit Offered:

- 2-year program*
- 3 Electives junior year AND
- 3 Electives senior year

Certifications Offered:

- ASE Certification
 - 1 year for refinishing
 - 1 year for non-structural repair
 - OSHA 10



*Students desiring to enroll for a second year must have at least earned a "C" on the final exam, at least a "B" in the course, shown exemplary citizenship in class, and have the ability and desire to be a leader to first-year students.



Auto Service Technology (AST)

Automotive & Mechanical Technology

Overview

This course is open to individuals who have an interest in auto service trades in terms of a career goal. It is recommended that students have course credit in general shop, general metals, and basic computer skills. Automotive instruction at Lewis & Clark consists of a two-year program that provides the student with the basic theory and skills needed to become an entry level automotive technician and service today's automobiles. Classroom instruction is followed by shop activities related to the lecture. Students will gain experience in shop management by writing repair orders, ordering parts, issuing supplies and tools used in the trade.

This course is ASE (Automotive Service Excellence) certified by NATEF (National Automotive Technician Education Foundation). Both NATEF and ASE are nationally recognized and provide certification for shops and technicians across the country. Both instructors for the course are ASE Master Certified Technicians.

Areas of instruction include: General Maintenance, Engine Repair, Brakes, Steering and Suspension, Heating/Air Conditioning / Electrical / Electronics, Engine Performance, and Manual/Automatic Transmission. Instructional time is approximately 50% class and 50% lab.

Employment Opportunities:

Students that successfully complete this program could work toward a career as an automotive service technician and mechanic or as a bus & truck mechanic/diesel engine specialist, among many other automotive careers.

High School Credit Offered:

- 2-year program*
- 3 Electives junior year AND
- 3 Electives senior year

Certifications Offered:

- 8 ASE Certifications
- SP2 - Safety Pollution Test
- Valvoline Oil Change Program
- B&G Flush Equipment Certification
- CFC's - A/C and refrigerant handling certification
- NC3 Meter Certification





Power Equipment Technology (PET)

Automotive & Mechanical Technology

Overview

This program prepares juniors and/or seniors to diagnose and repair two- and four-cycle engines on equipment such as lawn mowers, chainsaws, rototillers, edgers and trimmers. Power equipment instruction ranges from home-use equipment to commercial equipment.

Students will learn to adjust, clean, lubricate, and when necessary, replace worn or defective parts such as spark plugs, ignition parts, valves, and carburetors. Other skills taught include tire repair, deck repair, blade balancing, blade and chain sharpening, battery testing, and electrical repair. Troubleshooting and problem solving on all types of equipment is stressed.

Good reading & computer skills are required as students will need to refer to service manuals for detailed directions.

Employment Opportunities:

Students successfully completing this program have the opportunity to go into many different areas of mechanics such as RV service tech, aircraft mechanics, farm equipment service tech, and motorcycle mechanic as well as other opportunities in this broad field.

High School Credit Offered:

- 1 or 2-year program*
- 3 Electives per year

*Students desiring to enroll for a second year must have at least earned a "C" on the final exam, at least a "B" in the course, shown exemplary citizenship in class, and have the ability and desire to be a leader to first-year students. Students must also be approved for the second year by the instructor.





Brick & Stone Masonry (BSM)

Construction Trades

Overview

This program is designed to prepare students for apprenticeship or entry-level jobs in masonry construction. Students will learn to lay brick and block in various bond patterns used in commercial and residential construction. The course will include construction techniques for building fireplaces and chimneys, arches, special wall openings, double width and reinforced masonry, wall anchoring systems, flashings and prevention of water penetration, and masonry paving. Students will also gain knowledge of various types of stone construction and tuck-pointing. Students will also earn an OSHA 10 certification.

Students must be able to work at heights on scaffolds, lift and handle heavy materials, work in group situations as a team member, follow instructions, and accomplish all tasks in an accurate and safe manner.

Employment Opportunities:

Upon successful completion of this program, students can go on to successful careers in a number of fields including, among others: brickmasons & blockmasons, stonemasons, cement masons, tuckpointer, caulker, concrete finishers, and construction laborers.

High School Credit Offered:

- 2-year program*
- 3 Electives junior year AND
- 3 Electives senior year

*Students desiring to enroll for a second year must have at least earned a "C" on the final exam, at least a "B" in the course, shown exemplary citizenship in class, and have the ability and desire to be a leader to first-year students.





Building Trades (BT)

Construction Trades

Overview

This course is open to juniors who show an interest and aptitude in the field of construction as a wage earning occupation. It is recommended that students have one year of industrial arts. Students will earn an OSHA 10 card.

Students are familiarized with entry level skills for the major trades involved in residential construction such as carpentry, siding, interior trim, drywall hanging, roofing, concrete work, and landscaping.

Most of the program involves the actual building of a house in Lewis & Clark Career Center's own subdivision. Students not only gain experience in home construction but will also learn about subdivision construction. Houses are sold upon completion.

Employment Opportunities:

Students successfully completing this program will have the opportunity to earn employment in many different construction fields including, among others: carpenter, construction laborer, floor layer, drywall installer, and construction trade supervisor.

High School Credit Offered:

- 2-year program*
- 3 Electives junior year OR
- 3 Electives senior year

*Because of the high demand nature of this program, students interested in a second year must demonstrate a proficient level of ability in the field necessary to be recommended for hire by area contractors for a summer apprenticeship. Second year students are expected to act as foreman and leaders to first year students.





Electrical Trades (ET)

Construction Trades

Overview

This course will teach students to identify, install, and troubleshoot electrical wiring and associated devices that are commonly used in both residential and commercial environments. Students will participate in the construction of a new house. The program includes switches, receptacles, lighting, low voltage communications wiring, and service installation associated with residential electrical systems. Second year students will be introduced to industrial motor controls.

Students must be physically fit and capable of working under adverse weather conditions including both very hot and freezing cold temperatures. Students will work during all types of weather on the Lewis & Clark student-built house. Students will work with real circuits, so the ability to abide by strict safety rules is extremely important. An aptitude for math in general and algebra in particular is required as is an aptitude to read and produce technical documents and drawings.

Prerequisite: Algebra I with a "C" or higher or proficient on the Algebra I EOC

Employment Opportunities:

Upon successful completion of this program, students can go onto a successful career in any of the following electrical careers including: Electrical Power-Line Installer/Repairer, Electrical Installer & Repairer - Transportation, Electrician, Residential, Commercial, or Industrial Apprenticeships, and Electrical Maintenance.

High School Credit Offered:

- 2-year program*
- 3 Electives junior year AND
- 3 Electives senior year

Certifications Offered:

- OSHA 10, CPR
- Students will also spend time in the classroom learning the National Electric Code and how to use different formulas to calculate the size of conduit, junction boxes, wires, fuses, etc.



*Students desiring to enroll for a second year must have at least earned a "C" on the final exam, at least a "B" in the course, shown exemplary citizenship in class, and have the ability and desire to be a leader to first-year students.



Heating, Ventilation & Air Conditioning (HVAC)

Construction Trades

Overview

HVAC students will learn to design, install, repair, and maintain residential and commercial refrigeration and heating/air conditioning systems. Students will also learn duct systems fabrication, blueprint reading, electrical schematics, and operational sequence charts as they progress toward certification. They will also get the opportunity to install ductwork, a furnace, and an air conditioning unit at the Lewis & Clark student-built house.

Applicants should have a good mechanical aptitude and be able to understand both written and verbal instructions. Students should be in good physical condition and free from respiratory problems.

Employment Opportunities:

Successful completion of this program allows the student to go on to a number of different specific fields in the HVAC community including, among others: sheet metal worker, HVAC installers and technicians.

High School Credit Offered:

- 2-year program*
- 3 Electives junior year AND
- 3 Electives senior year

Articulating Institutions & Credits Offered:

- Test out option with Ranken
- ATS

Certifications Offered:

- OSHA 10 Certification - every year
- EPA Certification - every 2 years
- HVAC Excellence

*Students desiring to enroll for a second year must have at least earned a "C" on the final exam, at least a "B" in the course, shown exemplary citizenship in class, and have the ability and desire to be a leader to first-year students.





Early Childhood Careers (ECC)

Education

Overview

This course will prepare students for entry-level employment in the field of early childhood education, while providing the foundations for study in higher education programs that lead to certification in early childhood or elementary education. Students will gain the leadership, employment, and communication skills necessary for success in Early Childhood Careers.

Over the course of the program students will explore career opportunities and identify personal traits needed for success in careers working with young children. They will be given opportunities to work directly with children ranging in age from birth to age 8 in various childcare and elementary school settings. Students will earn certification in infant, child, and adult First Aid/CPR. In addition, students will earn a Missouri state certificate for the Infant Safe Sleep Course.

Students completing this program will be able to describe typical child development, demonstrate knowledge of creating safe and healthy learning environments, and be competent in lesson planning and implementation. Students will practice appropriate behavior management techniques, and will learn about nutritional guidelines, state licensing expectations, and the legal and ethical responsibilities of child care workers and/or classroom teachers. Students who have met all requirements and attended two years of the program will be eligible to test for the Missouri State Paraprofessional Certification.

Prerequisite: Prior Child Development course recommended.

Employment Opportunities:

Students that successfully complete this program will have the opportunity to work in the following fields, among others: Preschool Teacher, Aid in Preschool, Kindergarten Teacher, Elementary Schools, and other childcare settings. This is also a good program to explore teaching as a career.

High School Credit Offered: 1 or 2 Year Program (3 Electives Per Year)

Year 2 Program Requirements:

- Goal: prepare students for a college path to a certified teaching program through hands-on experience, written assignments modeled after current course assignments, serving as a mentor to first year students, and taking on an assignment schedule similar to the collegiate level
- Max Enrollment: TBD
- Requirements: Min overall ECC grade of 75% or higher, 94% attendance, and in good standing with all employability rules
- Short Answer Questions: Students take a short answer question portion in February. These will be professional questions similar to pre-service teaching programs.
- Interview Process: There will be a short interview process with 2 professionals that currently work in the education field.

Certifications Offered: YRI AAFCS Pre-professional (certification in Early Childhood - IRC) & YR2 MO State Paraprofessional Certification - IRC





Health Occupations (HO)

Health Sciences

Overview

The Health Occupations course offers learning experiences for juniors and seniors in high school designed to create or further stimulate their interest in the many career opportunities available in the health field. This course is designed to be challenging and meet the needs of all learning styles. The student will learn beginning skills and the basic procedures needed for an entry-level job and a sound basis for continuing their education in the medical field.

The first semester involves classroom theory, demonstrations and practice. During the second semester, students begin to draw upon previously acquired knowledge and basic skills by applying them to various health services through supervised clinical observations and hands-on clinical experiences.

Students must have an up to date immunization record, a negative TB test, a negative urine drug screen, a flu vaccine, must register on the Family Safety Registry, and maintain a 75% average and 90% attendance to remain in the program and be placed in clinical rotations. Students are placed in clinical rotations Monday through Thursday and continue classroom work on Fridays.

Prerequisite: It is recommended that students have earned at least a C in Biology and have strong study habits, as this course is intense. This course is intense in its preparation for clinical rotations. Successful students possess a strong work ethic and an interest in science and medicine.

Employment Opportunities:

Students who successfully complete this program would be able to work toward a successful career as a phlebotomist, EKG tech, or can use the certification as a jumping off point for furthering their career in the medical field. Students will obtain NHC certification as a Clinical Medical Assistant.

High School Credit Offered:

- 1-year program
- 3 Electives Junior Year OR
- 3 Electives Senior Year

Articulating Institutions & Credits Offered:

- Dual Credit with State Technical College of Missouri; 4 credits





Dental Assisting (DA)

Health Sciences

Overview

Students will learn dental examination, treatment, radiographic and laboratory procedures, patient scheduling, and record maintenance. Instruction is also provided in infection control and hazard management, chair-side assistance, emergency and preventative procedures, dental specialties and office administration. Students will become CPR certified and take the Missouri Basic Skills exam and may participate in a clinical internship. Upon completion of the program, and two years of full-time work experience students may take the National Board Exam to become a certified dental assistant.

Employment Opportunities:

Clinical & Chairside Roles

- General Dentistry Office Assistant – Work directly with a dentist during patient care.
- Specialty Practice Assistant – Opportunities in orthodontics, oral surgery, pediatric dentistry, periodontics, endodontics, and prosthodontics.
- Surgical Dental Assistant – Assist during oral surgeries and more complex procedures.
- Orthodontic Assistant – Focus on braces, aligners, and orthodontic treatments.

Administrative & Support Roles

- Dental Office Administrator – Handle scheduling, billing, insurance, and patient records.
- Treatment Coordinator – Explain treatment plans, financial options, and patient care pathways.
- Dental Receptionist – Manage front desk responsibilities and patient communication.

Expanded Function Opportunities

(after additional training/certification)

- Expanded Functions Dental Assistant (EFDA) – Perform advanced tasks like placing fillings, polishing, taking impressions, or applying sealants.

High School Credit Offered:

- 2-year program, 3 units of credit per year





Lewis & Clark Cyber Academy (LCCA)

Information Technology

Overview

Lewis & Clark Cyber Academy will provide a strong background in networking and cybersecurity. Completion of both years of this class provides excellent opportunities for entry level IT employment. Students will learn basic networking and cybersecurity skills, how to configure and troubleshoot networks, monitor networks, reconnaissance, incident response, enumeration, social and physical security. All students are required to take the TestOut Network Pro and Security Pro certifications. These certifications prepare students for the COMPTIA Network Plus and Security Plus.

Employment Opportunities:

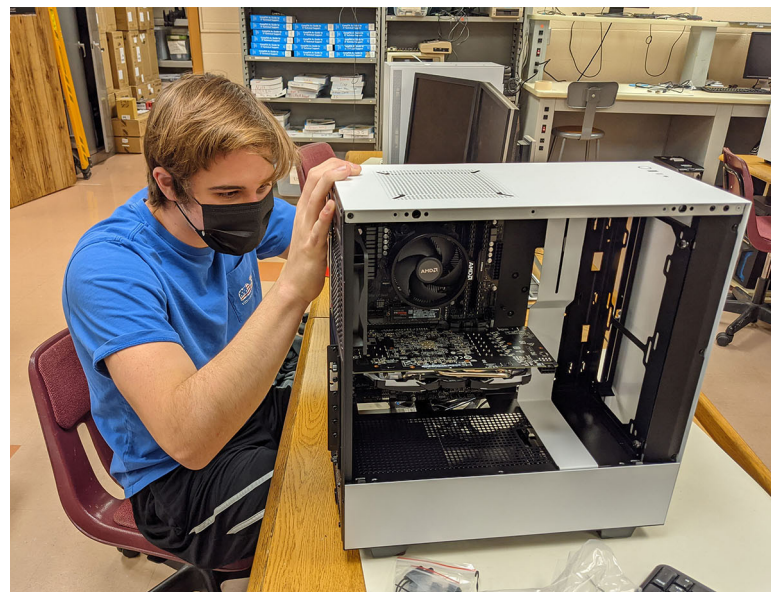
PC configuration specialist, network technician associate, help desk specialist, computer support intern, technical support representative, junior database analyst.

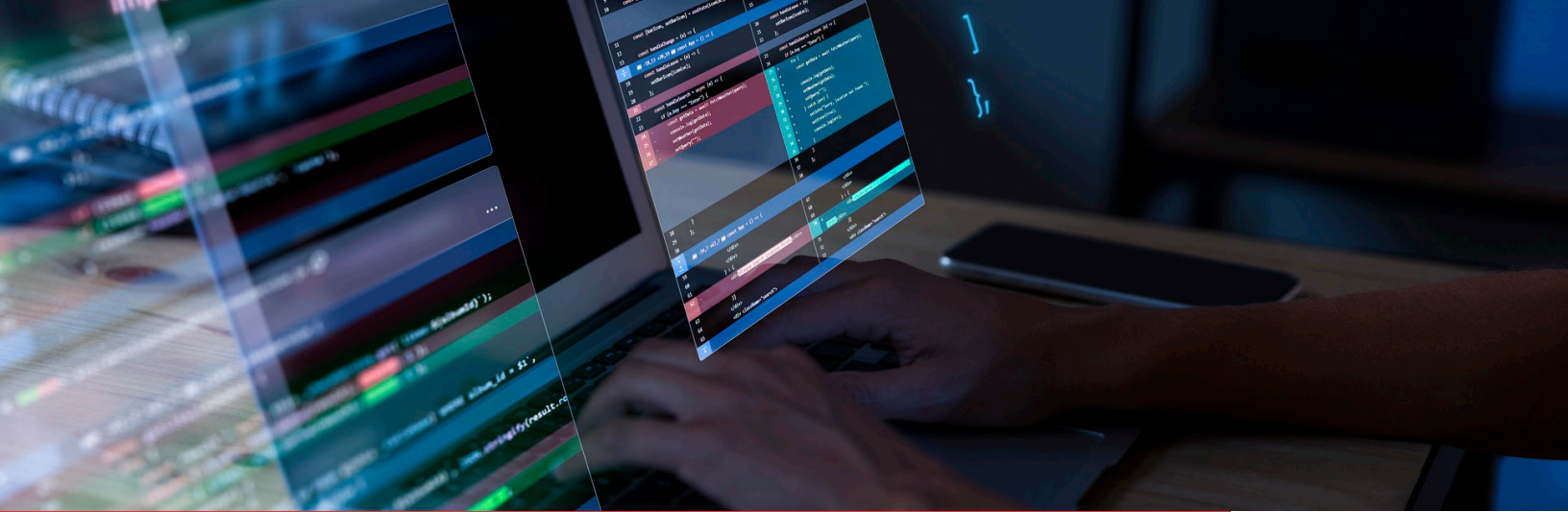
High School Credit Offered:

- 1-year program
- 3 Electives Junior Year OR
- 3 Electives Senior Year

Certifications Offered:

- TestOut Network Pro
- TestOut Security Pro
- Optional COMPTIA Network Plus
- Optional COMPTIA Security Plus





Computer Software Development 1 & 2 (CSD)

Information Technology

Overview

This comprehensive course is designed to guide students through the core principles of software development, starting with foundational programming structures and data types. Students will gain a solid understanding of how to write clean, efficient code using the C# language and standard practices.

Building on these fundamentals, the course takes a hands-on, project-based approach to full-stack web development. Students will work in collaborative teams to plan, design, and build dynamic web applications. Key components of the full-stack — front-end user interfaces (the UI), middle-tier development of API (Application Programming Interface) and business rule integration, and databases — will be explored and implemented using the most common development tools (Visual Studio and VS Code) and frameworks (.NET).

By the end of the course, students will experience real-world scenarios in version control, AGILE process workflows, testing, and support, culminating in a fully functional web application that demonstrates their skills across the entire software development lifecycle.

Employment Opportunities:

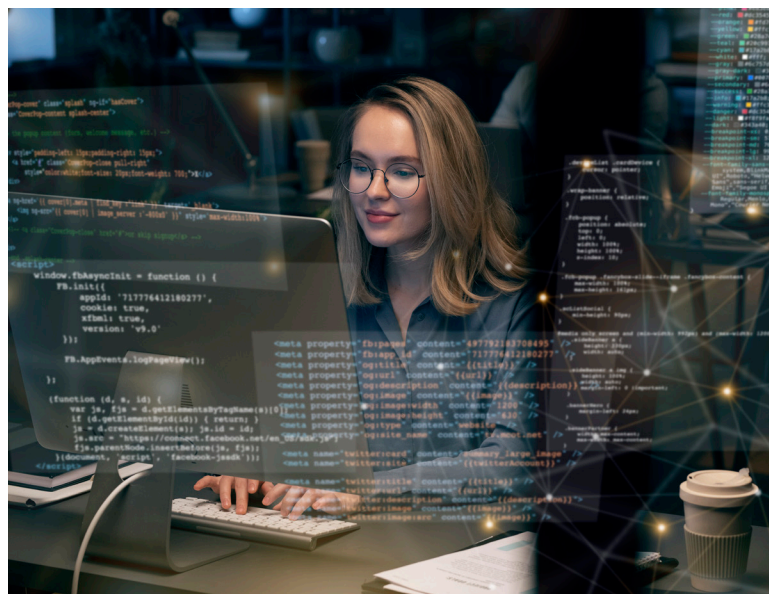
This is an in-demand field and skills learned are applicable to many different workplace environments including, among others: computer programmer, software developer/apps, web developer, network/computer systems administrator, computer systems analyst.

High School Credit Offered:

- 1 or 2-year program
- 3 Electives junior year OR
- 3 Electives senior year

Articulating Institutions & Credits Offered:

- St. Charles Community College; up to 6 credits





Applied Retail & Business Skills (ARBS)

Hospitality

Overview

This course is designed for juniors or seniors with special needs who have an interest in the retail industry. A prerequisite for the course is potential ability to work in competitive employment. The program provides an active, hands-on, multimedia approach that emphasizes instructional strategies that are successful with special needs populations. The students take “ownership” of and operate a fully functional store on the Lewis & Clark campus. The students in the Applied Retail & Business Skills program rotate through the following stations at JC’s, the school store: cashier, inventory control, maintenance, bookkeeper, food preparation, and shack station. The classroom instruction includes lessons to inform and enhance training and skills learned through operations. Also included are lessons on self-awareness, social skills, communication skills, and employability skills.

Second year students have the opportunity to work in an internship in local school cafeteria kitchens and local senior living facilities.

Prerequisite: Ability to work in competitive employment

Employment Opportunities:

Students that successfully complete this program will be well versed in operations for the retail industry and would be able to go into any of the following jobs among many others not listed: food prep worker, counter attendant, dishwasher, cashier, stocker, and warehouse worker.

High School Credit Offered:

- 1 or 2-year program;
- 3 Electives junior year OR
- 3 Electives senior year





Law Enforcement (LE)

Public Service & Safety

Overview

The purpose of this course is to provide students with a comprehensive introduction to law enforcement and related public safety career fields. Students will study such topics as the history of policing, law enforcement ethics, criminal law and procedures, and the United States court systems. Additionally, students will be exposed to the technical skills and police concepts and procedures utilized by modern police officers.

Much of this course is hands-on, scenario-based training. Students will learn pat down search techniques, traffic stop procedures, building search tactics, and crime scene evidence collection and processing procedures.

Students should have good oral and written communications skills. Students should also be prepared to participate in physical fitness and defensive tactics training. Students will wear a typical police academy uniform and be expected to maintain professional grooming standards.

Employment Opportunities:

Missouri law requires that applicants to Police Academies be 21 years of age upon graduation of the academy. However, students that successfully complete this program will be informed of job opportunities with law enforcement agencies that are available to them at age 18. These include Law Enforcement Telecommunications Operators, Police Service Officers, and Department of Corrections Officers.

High School Credit Offered:

- 1 year program
- 3 electives per year





Firefighting/EMT (FE)

Public Service & Safety

Overview

This hands-on, career-focused program is designed for high school students interested in a dynamic and rewarding career as a firefighter, paramedic, or in the broader field of emergency services. Students will receive academy-level training and gain the essential skills and knowledge needed to respond to critical situations.

What You'll Learn:

- **Firefighting Skills:** Master techniques for fire suppression, search and rescue, and hazardous materials response. You'll learn to operate fire apparatus, hoses, ladders, and other essential equipment.
- **Emergency Medical Training:** Develop life-saving medical skills as you train to become an Emergency Medical Technician (EMT). Learn patient assessment, trauma care, CPR, and how to manage a variety of medical emergencies.
- **Real-World Scenarios:** The curriculum goes beyond the classroom with realistic emergency simulations and field exercises. You'll apply your knowledge in high-pressure situations, building confidence and critical thinking skills.
- **Career Preparation:** This program prepares students for the physical and mental demands of the job, emphasizing teamwork, leadership, and effective communication—all of which are crucial for success in the public safety sector.

Certifications:

Upon successful completion, students will be prepared to take the exams for several industry-recognized certifications, which can provide a direct pathway to employment after high school. These may include: National Registry of Emergency Medical Technicians (NREMT) Basic Certification, Firefighter I and II certifications, Hazardous Materials Awareness and Operations, AHA Heartsaver CPR and First Aid.

Who Should Apply:

This program is ideal for dedicated, self-motivated students who are physically fit, possess a strong work ethic, and have a passion for serving their community.

Employment Opportunities:

Firefighter, EMT at a hospital, Urgent Care Clinic, ER Tech, Emergency Medical Dispatcher, Wildland Firefighter, EMT is the prerequisite for becoming a paramedic.



WHAT IS CAREER AND TECHNICAL EDUCATION?



7.8 million high school students and **3.3 million** college and adult students participate in CTE, learning skills in the classroom and on the job.¹

CTE is delivered at comprehensive and CTE-dedicated high schools, magnet schools, area technical centers, community and technical colleges and some four-year universities.

CTE students earn industry certifications and licenses, postsecondary certificates, associate degrees, bachelor's degrees and higher.

CTE is good for students, good for businesses and good for communities.

CTE high school students are college and career ready – **96%** graduate high school and most enroll directly in college.²

Associate degrees in CTE fields can pay **up to \$2.8 million** in lifetime earnings - and pay more than bachelor's degrees in other fields - while limiting student debt.³

CTE is the answer to the nation's projected deficit of **6 million** skilled workers through 2032.⁴

LEARN MORE ABOUT CTE AT [ACTEONLINE.ORG](https://acteonline.org)

¹ Perkins Collaborative Resource Network, Perkins Data Explorer, customized Consolidated Annual Report data, 2022-23.

² Perkins Collaborative Resource Network, Perkins Data Explorer, customized Consolidated Annual Report data, 2021-22; U.S. Department of Education, Office of Elementary and Secondary Education, Consolidated State Performance Report, 2010-11 through 2017-18; U.S. Department of Education, NCES, HSL:09, Base-year, 2013 Update, High School Transcript, and Second Follow-Up.

³ Carnevale, A. P., Cheah, B., & Wenzinger, E. (2021). *The college payoff: More education doesn't always mean more earnings*. Georgetown University Center on Education and the Workforce; College Board, Annual Survey of Colleges; NCES, IPEDS Fall 2021 Enrollment data and IPEDS 2022 Institutional Characteristics data.

⁴ Lightcast. (2024). *The rising storm: Building a future-ready workforce to withstand the looming labor shortage*.

CTE PREPARES THE
WORKFORCE ACROSS A
WIDE RANGE OF INDUSTRIES
AND OCCUPATIONS.



Agriculture

Construction



Arts, Entertainment
& Design

Management &
Entrepreneurship



Education

Energy & Natural Resources



Financial Services



Hospitality, Events & Tourism

Healthcare &
Human Services



Digital Technology

Public Service & Safety



Advanced Manufacturing

Marketing & Sales



Supply Chain &
Transportation





SkillsUSA is a national nonprofit organization that serves students preparing for careers in trade, technical, and skilled service occupations, including health occupations and related fields. Founded in 1965, SkillsUSA focuses on developing leadership, workplace, and technical skills through competitions, training programs, and community service. It partners with educators, industry leaders, and government agencies to ensure students are career-ready and equipped with the skills needed for success in the modern workforce. The organization emphasizes personal growth, responsibility, and professional development for its members, helping them transition smoothly into skilled employment or further education.

Students pay \$30 dollars to join SkillsUSA. This enables them to participate in the competitions held during the school year and earn an honor cord to wear at graduations.

SkillsUSA competitions start at the district level, where students showcase their technical and leadership skills in various career-related contests. Winners advance to the state competitions, which are larger and more competitive, drawing top talent from across the state. The best competitors at the state level then move on to the national championships, where they compete against peers from all over the country for recognition, scholarships, and career opportunities. These competitions help students demonstrate their skills, build confidence, and prepare for the workforce.

To earn an honor cord students must be a paid member, participate in at least one competition, participate in the school fundraiser, and participate in one of the community service programs hosted by Lewis & Clark Career Center. The student must also earn a certificate of completion in their program.



Lewis and Clark Career Center
2400 Zumbuhl Road | St. Charles, MO 63301
636.443.4950
www.lewisclarkcc.org