

WILCO AREA CAREER CENTER

2019-2020 COURSE OFFERINGS

www.wilco.k12.il.us

Wilco's programs are designed to offer students career-based courses providing skills required for continuing education and/or employment upon completion. Students attend one of three sessions. Courses are scheduled at the home school. Some programs or levels may not be available each session.

Early Bird	6:25 a.m.	-	7:45 a.m.
Session 1	7:50 a.m.	-	9:50 a.m.
Session 2	9:55 a.m.	-	11:55 a.m.
Session 3	12:26 p.m.	-	2:26 p.m.

ACE: ARCHITECTURE, CONSTRUCTION MANAGEMENT, AND ENGINEERING

The ACE program is designed to provide seniors with a broad overview of the skills and knowledge necessary to pursue an exciting career in the architecture/construction/engineering field. Through relevant and challenging college courses, the student will receive a solid foundation in the introductory and fundamental coursework in the professional tracks of the building industry. The ACE program has been designed for those students interested in the built environment and who are considering career pathways in the field of architecture, engineering or construction management. With 12 hours of college credit to be earned, the student will explore each discipline and can apply those credits to the track best suited to their interest for further study. **Students will need their own transportation to and from class at Joliet Junior College Main Campus. Application to the program is required.** They will be dual enrolled earning high school and college credit for ARCH 100, CM 100, EGR 105/AEC 299, AEC 106, OPS 111 and SET 100, (12 credit hours). *Guidance Note: Recommended that students have earned a 'C' or higher in all mathematics courses and have achieved senior status.*

AIM: ADVANCED INTEGRATED MANUFACTURING

This senior only program is offered in partnership with **Joliet Junior College** and will be held at Main Campus on Hoboult Rd, Joliet, IL. Students will participate in four separate college courses building skills and awareness in heating, ventilation, and air conditioning, industrial maintenance, basic wiring/circuit design, and industrial fluid power. Students will learn about OSHA safety programs, maintenance physics, hand and power tools, precision measuring, technical diagrams and assembly prints, fastening devices, lubrication, basic pump operation, and basic pipefitting procedures. Students will study the principles of hydraulics and pneumatics as applied to the basic theory of fluids and typical industrial circuits. Students will build fluid power circuits as applied to industrial applications. Next, the fundamentals of electrical and electronic circuits, including the calculation and measurement of voltage, current, resistance and power will be instructed with emphasis placed on safe meter usage, print reading and exposure to a variety of electrical technologies currently used in industry. Topics include: introductory residential wiring, operation of AC motors, industrial solid-state devices, variable frequency drives, industrial controls, and single-phase/three-phase power distribution along with skills necessary to safely use electronic test equipment on low- and high-voltage components, the course will introduce students to the installation, service, troubleshooting, and repairs on various types of electrical controls, circuits and components. **Students will need their own transportation to and from class. Students must submit an application to the Technical Department at Joliet Junior College. Application to the program is required. Students will be dual enrolled earning high school and college credit: IMT101, IMT121, EEAS111, and EEAS101 (14 credits hours).** *Guidance Notes: Solid math skills needed with record of good attendance and behavior.*

AUTO SERVICE (MECHANICS) I

The two year auto service program, taught by ASE certified instructors, is designed to train students for entry-level automotive technician positions and/or preparation for post-secondary programs. Students' knowledge of measurement, estimation, and algebra, along with a technology course would be beneficial. First year students will develop skills in vehicle maintenance and repair including, brakes, steering and suspension, and will also learn the basics of electrical and engine performance (sensors). The curriculum follows the National Automotive Technicians Education Foundation (NATEF) format. This program will prepare students for the Automotive Service Excellence (ASE) certification exams. Students will be required to purchase tools, Wilco work shirt, safety glasses, and nitrile gloves. **Estimated cost of participation is \$50.00.** *Guidance Notes: 70% of time in lab, assignment and test for each area/chapter.*

The Wilco Area Career Center provides equal employment opportunities for all persons, and equal educational opportunities for all students, without regard to race, color, religion, creed, national origin, gender age, ancestry, physical or mental handicap or disability, or other characteristics protected by the law.

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AUTO SERVICE (MECHANICS) II

Second year students will continue their training in electrical and engine performance after successful completion of Auto Service 1. Students will be completing labs involving diagnosing electrical circuits, sensors, drivability problems, check engine lights, and emission related problems. Upon completion of this two year course, students may earn college credit towards Nashville- Auto Diesel or Joliet Junior College. Students are encouraged to continue their training through an appropriate technical school, college, or university. The curriculum follows the National Automotive Technicians Education Foundation (NATEF) format. This program will prepare students for the Automotive Service Excellence (ASE) certification. Assuming students continue to have their tools, safety glasses, work shirt, and nitrile gloves there will be no additional fees but replacement items will be available if needed. Dual credit may be available through **Joliet Junior College: AS106** (3 credit hours). *Guidance Notes: 70% of time in lab, assignment and test for each area/chapter.*

EARLY BIRD AUTO SERVICE (MECHANICS) II (2 CREDITS)

This course will mirror Auto Service II but will be offered from 6:25 am until 7:45 am. The course will encompass an accelerated curriculum preparing students in safety, maintenance, electrical, brakes, suspension and steering, and engine performance. **Students must have their own transportation to and from Wilco Area Career Center in Romeoville. Estimated cost of participation is \$50.00.** *Guidance Notes: 70% of time in lab, assignment and test for each area/chapter.*

BARBERING

This is a 13 month program for seniors or a 2 year program for juniors in Barbering. The barbering program is offered at Champions Beauty and Barber University in Crest Hill, IL, which is an approved and licensed school by the Illinois Department of Financial and Professional Regulations, Division of Professional Regulation and has met all state and federal regulations. This course offers students curriculum in both theory and practice in the following areas as they relate to the practice of barber science and art: anatomy; physiology; skin diseases; hygiene and sanitation; barber history; barber law; hair cutting and styling; shaving, shampooing, and permanent waving; massaging; and barber implements as they relate to the Barber, Cosmetology, Esthetics, and Nail Technology Act. Knowledge, skills, and activities completed in this course will also include advanced theoretical and practical skill development building to the 1500 hours of study needed in barbering and to prepare students for the barbering license exam. **Students must have their own transportation and pay additional tuition to Champions Beauty and Barber University, estimated cost is \$3,900 to \$2,500 depending on 13 month or 2 year.Certifications:** Program completion allows students to sit for the Illinois Department of Public Health Barbering license.

CERTIFIED NURSING ASSISTANT

The Certified Nursing Assistant program is a **senior** only program structured to prepare the student for employment as a Certified Nurse Assistant. The curriculum includes all standards and procedures contained in the Illinois Department of Public Health Certified Nurse Aide Instruction Model. The State Nurse Aide Examination can be taken through this course with the completion of 40 hours of on-site clinical experience at a local nursing facility, included in the class structure if student has a social security number. Students must have transportation to the clinical site, a physical, and TB test before September 15th. Before beginning the clinical experience, students must undergo a Health Care Worker criminal background check. Throughout the semester, students must maintain an 80% to remain eligible for Joliet Junior College credit and Illinois Department of Public Health Certified Nurse Aide Exam. Upon completion of this course, students may choose to continue their education in preparation for any of a number of careers in the health care field i.e.; Registered Nurse, Physical Therapist, Respiratory Therapist, Ultrasound Technician, etc. Students are required to wear appropriate clothing at clinical site. Student may receive **Joliet Junior College credit for NA101**(6 credit hours). **Estimated cost of participation is \$100 with an additional \$65 for the State CNA exam in the Spring.** *Guidance Notes: 30% of time in lab. Daily assignments and weekly tests. Emphasis on human anatomy. Certifications may include: American Heart Association Health Care Provider CPR and Certified Nursing Assistant License.*

COMPUTER TECHNOLOGY

This one year course is made up of the following components which may allow the student to receive college credits from Joliet Junior College: **Computing Information Systems Fundamentals:**. A first course for business or computer information systems majors planning to transfer to a four-year institution. A complete introductory study of information systems, computer programming and application software is presented. Course topics include the elements of a business computer system, system analysis and design, computer-to-mainframe systems, and program design and implementation.

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Also included will be an introduction to the Internet and its uses, computer application software and BASIC programming. The class meets in a PC-equipped classroom. **Joliet Junior College: CIS122** (4 credit hours).

Data Communications and Networking: This course discusses the basic concept of Local Area Networking. Topics include networking overview, sharing computer resources, using email, using file servers, protocols, different networking software, how to manage your network, and an introduction to Wilde Area Network. Students in this course are dual enrolled with **Joliet Junior College: CIS145** (3 credit hours). **A+ Guide to Managing and Maintaining Your PC:** This course investigates the hardware components of the personal computer. Heavy emphasis is placed on diagnosing and maintaining the PC. Students will learn to install and replace the major hardware component of the system. The students will learn to work the BIOS/CMOS, as well as what it takes to build a PC. This is the first course in preparation for taking the current A+ exam. **Joliet Junior College: CIS275** (4 credit hours). *Guidance Notes: Weekly assignments, projects, and quiz. Heavy reading and lecture format.*

CONSTRUCTION, LANDSCAPE, AND SPORTS TURF MANAGEMENT

Students will focus on the knowledge, hands-on skills, and work place skills applicable to construction. Major units of instruction include: personal safety, hand tools, power tools, blue print reading, surveying, construction, landscaping, turf management and business. Construction skills will include: carpentry, plumbing, electricity, concrete, block laying, drywall and painting. Components of landscaping will include landscape design and hardscape. Turf grass production and management will be instructed as applied to build and maintain a golf course at Wilco. In addition, business units will cover calculating prices for work, managing a business, advertising, and sales. Careers such as agricultural engineers, carpenter, plumber, electrician, concrete and block layers, finishers, safety specialists, landscape design, turf management, and other related occupations will be examined. Improving workplace and computer skills will be a focus along with participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects which is seen as an integral course component for leadership development, career exploration and reinforcement of academic concepts. *Guidance Note: Recommended that students have earned a 'C' or higher in Geometry.*

COSMETOLOGY

This off-campus course is open to students to attend a state-approved school of beauty culture. The professional school will provide the facility, instruction, and clinical training as prescribed by the Illinois Department of Public Health. **There is a substantial student fee for this course ranging from \$1,800 to \$7,500**, which varies by cosmetology school and is subject to change. **Students provide their own transportation.** Registration needs to be done by first year students in early January through a separate application process found online at www.wilco.k12.il.us. Students may select from four schools in Will/Grundy Counties: Professional Choice in Joliet, Franklin Institute in Morris, Champions Beauty and Barber University in Crest Hill, and Lemont Nail Inn and School of Cosmetology in Lemont. Professional Choice limits participation to seniors who must start the program in July before their senior year. Cost and attendance times and dates vary per location. Please contact Wilco or the cosmetology school for more information. *Guidance Notes: Clinical assignments, workbook assignments, and task signoffs. Emphasis on chemical reactions and human anatomy. Certifications:* Program completion allows students to sit for the Illinois Department of Public Health Cosmetology license.

CRIMINAL JUSTICE I

This course highlights the relevance of law enforcement by examining its history, relevant research pertaining to, and explores an in-depth analysis of our federal Constitution. We will also analyze modern changes in law enforcement and identify careers at the local, state, and federal levels. During second semester, students will learn the fundamentals of investigation and crime-scene application; the recording, collection and presentation of evidence; investigative techniques and procedures; and follow-up and case studies. In addition, they will understand the theories associated with the Criminal Justice system. Students will have a clear understanding on preconditions and limitations of a legal search. They will apply theories and concepts to current work environment; evaluate photographs used in criminal Investigations; and identify basic rules of evidence. *Guidance note: Heavy reading and report writing. Dual credit may be available through*

Joliet Junior College: LENF101 and CRJ100 (6 credit hours). *Guidance Notes: Daily assignments, projects, and quizzes. Heavy reading and report writing.*

CRIMINAL JUSTICE II

The first semester of the course will provide students with an opportunity to study juvenile delinquency theory, laws, policies, and practices within the Illinois juvenile justice system. Emphasis will focus on understanding the underlying causes of behavioral patterns; study and application of preventive methods and techniques; and analysis of juvenile case studies. The second semester of the course students will explore an overview of the evolution of the Department of Homeland Security (DHS) in the U.S. and survey the major policies, practices, concepts and challenges confronting the field. An analysis of various organizations under the authority of DHS and an assessment of the current threats from

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international and domestic terrorism will be examined. Students will also examine the role of government, private organizations, and citizens in protecting communities against and responding to terrorist threats.

CULINARY ARTS I

Students have the opportunity to build interest and master essential hands-on culinary techniques and theoretical academics for a career in the Hospitality Industry. The ProStart Program I & II is sponsored by the National Restaurant Association Educational Foundation and is an accelerated curriculum which is followed for Culinary Arts I students (taught in the first year of the program). Coursework topics include, but are not limited to: Foodservice History, Sanitation & Safety; Equipment Usage; Basic & Technological Aspects in Foodservice Preparation; Nutrition; Classical Cooking; Ordering; Purchasing; Receiving & Inventory Controls; Workplace Math & Accounting; Introduction to Lodging & Tourism; Workplace Skills in securing employment and in Customer Relations; and Career and Technical Ethics. Students will be directly involved in all aspects of a commercial kitchen operation. Students will participate in at least 10 hours per semester of outside community service (not including field trips), as offered by the instructor. Students will also have an opportunity to use their culinary and leadership skills through participation in FCCLA, ProStart, and/or SkillsUSA student organizations. Additional opportunities are made available for dual college credits, articulated college credits, and scholarship availability with completed coursework requirements. Foods I is recommended for participation in the class. Upon successful completion of this program and *COMPASS placement*, students may earn credit from **Joliet Junior College: CA105 and CA106**, (5 credit hours). **Estimated cost of participation is \$50.00.** *Guidance Notes: 60% of time in lab. Weekly assignments and quiz. Emphasis on mathematics at the Algebra level. Certifications may include:* State of Illinois sanitation certification, Illinois Restaurant and the National Restaurant Associations' certifications, and ServSafe manager sanitation certification

CULINARY ARTS II: Hospitality Careers and Event Planning

This course is designed to help students develop outstanding customer service skills. Students will learn how to interact with customers, resolve conflicts, understand the importance of customer satisfaction/retention, actively participate as a member of a team, and develop time management skills. In addition, students will develop the skills needed to become successful event managers. Students will learn how to design, plan, market, and stage an event. Field trips to various restaurants and event centers will be utilized to reinforce concepts. Staffing, risk management, event evaluation, legal and financial concerns will also be addressed. Students must have successfully completed Culinary Arts I at Wilco or Foods I and II at their home school to participate. **JJC dual credit pending: HOSP 110 and HOSP148**, (6 credit hours). *Guidance Notes: 60% of time in lab. Weekly assignments and quiz. Emphasis on mathematics at the Algebra level.*

EARLY CHILDHOOD EDUCATION I

Students will participate in assistant teaching by working directly with children ages 3, 4, and 5 years old in the Wilco Preschool Lab. The first year students will complete training for the first level of Early Childhood Education (ECE) Credential. The curriculum provides basic knowledge and skills for those working with or seeking to work with young children. Some of the topics presented are: health, safety and nutrition, how children learn, observation and assessment, family and community relations, child development and school aged children. After successful teaching experiences, completion of all modules and meeting attendance requirements, the students may earn their credential. Dual credit available with Joliet Junior College: CDEV201. **Estimated cost of participation is \$30.00.** *Guidance Notes: Weekly assignments, projects, and quizzes. 60% of time working with preschool children in lab. Certifications:* Students have an opportunity to earn the Gateways to Opportunity Early Childhood Education Level 1 Credential.

EARLY CHILDHOOD EDUCATION II

Second year students continue to teach in the preschool lab, but are considered "experienced teachers". Course content includes child development, including literacy and education issues. Their assignments include working individually with a preschool child to create a "case study book" along with other required projects as outlined by Joliet Junior College. Second year students have an opportunity to spend time within child care sites for observations, if their grades allow, and continue work on the Joliet Junior College coursework. Dual credit available with **Joliet Junior College: CDEV101 and 216** (6 credit hours). **Estimated cost of participation is \$25.00.** *Guidance Notes: Weekly assignments, projects, and quizzes. 60% of time working with preschool children in lab. Certifications may include:* American Heart Association CPR, and continued work toward the Gateways to Opportunity Early Childhood Education Level 2 Credential.

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EMERGENCY MEDICAL SERVICES

Students who enroll in the emergency medical technician program must have successfully completed the first year of **Fire Science or Introduction to Health Professions** with an 80%/B or better or have completed three years of science with a 'B' or better. The year will focus on preparing students for the multiple career areas related to the Fire Service/Health Care fields. Students will focus on the care, handling, and extrication of the critically ill and injured. Topics will include airway management, patient assessment, vital signs, cardiopulmonary resuscitation, lifting and moving patients, documentation, communication, pharmacology and cardiac emergencies. A heavy emphasis will be put on medical terminology. The EMT-B programs requires students spend sixteen hours off-campus in a hospital emergency room and twenty-four hours of ambulance ride-time in addition to the classroom. Students who successfully complete the course may take the EMT-Basic exam. Dual Credit available through **College of DuPage** with compliance with department requirements including COMPASS placement or an ACT composite of 20: **FIRE2271** (10 credit hours). **Estimated cost of participation is \$100 plus \$20 for the State Exam.** *Guidance Notes: 30% of time in lab. Heavy emphasis on medical terminology and human anatomy.* **Certifications may include:** American Heart Association Health Care Provider CPR and EMT-B License

FIRE SCIENCE

Fire Science will follow the curriculum set forth by the State of Illinois Fire Marshall's Office, the Illinois Department of Health, and the Department of Transportation. Students will learn through classroom and guided activities the essentials of firefighting which will include: fire chemistry, building construction, wearing personal protective clothing, identifying ropes, tying knots, using fire extinguishers, performing forcible entry, carrying and raising ladders, operating self-contained breathing apparatus, and auto extrication. Students will learn how to employ search and rescue techniques with ventilation tools and practice hose evolutions on an operating engine, all in a safe environment. Students will learn about equipment and assessment used to stabilize victims before the arrival of an ambulance. Dual credit available through the **College of DuPage and JJC: FIRE1100, and 2283/FIRE 101 and EMS 101** (7 credit hours). **Certifications may include:** First Responder and American Heart Association Health Care Provider CPR. **Expected cost of participation is \$75.00.** *Guidance Notes: 50% of time in lab. Emphasis on physical fitness, reading comprehension, and basic math.*

GAME DESIGN

This course introduces students to game design, theory, and game programming. Topics will include analyzing game genres, gameplay, artificial intelligence, storytelling, level design, and play testing. Students will design and write a simple game and design document, much like what is used in the profession. In addition, an introduction to computer programming in the BASIC language will teach students problem analysis, program design and programming in various languages. Students will use a PC-based programming environment. In second semester, students will be introduced to the development of computer and video games. Students will learn how to design and implement 2D games using game engines. **Students have an opportunity to earn dual credit from Joliet Junior College: GAME200** (3 credit hours).

HEAVY EQUIPMENT TECHNOLOGY

The heavy equipment technology program is designed to train students for careers as heavy equipment mechanics and is a senior only program. Heavy equipment includes: cranes, bulldozers, frontend loaders, rollers, backhoes, and hoists. Emphasis will be on the fundamentals as it relates to diesel engines and fuel systems used in heavy equipment. The

program will introduce students to units of measurement, electron theory, wiring diagrams, schematics and symbols, basic principles of hydraulics, basic engine components, intake and exhausts systems, introduction of welding and power train functions. This off-campus class is available through an application process only. Students must be willing to participate in drug testing and meet attendance, behavior, and grade requirements. The class will be located at ASIP-Local 150 in Wilmington. **Students must provide their own transportation daily to the Wilmington site and apply through Wilco and be interviewed.** Students have an opportunity to earn dual credit from **Joliet Junior College: OPS111**. Students must have steel toed boots and purchase program shirts at an estimated cost of \$45.00.

INTRODUCTION TO HEALTH PROFESSIONS

This course is an overview of the health care industry, including medical ethics and law, trends in health care, and exploration of career options. It includes an introduction to medical terminology, anatomy and physiology, vital sign measurement, math for conversions, standard precautions training, basic cardiac life support skills and first aid. The goal of the course is to assist students in making an informed choice about health care occupations and learn basic skills related to all facets of the health care industry. Dual credit available through the **College of DuPage: Health Sciences 1100 and 1110** (5 credit hours). **Certification may include:** American Heart Association Health Care Provider CPR.

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NAIL TECHNOLOGY

This off campus course is open to students to attend a state-approved school of nail technology. Students will develop good communication skills, time management, and an eye for detail. Emphasis will be placed on all aspects of nail care, nail problems, artificial nails, and nail products. Upon successful completion of the course the students will be eligible to sit for state certification. **There is a student fee of \$500 for this course. Students provide their own transportation.** This program is located in Lemont. *Guidance Notes: 80% of time in lab. Weekly assignments and quiz.* **Certification may include:** Illinois Nail Technician License.

VETERINARY ASSISTANT

Students learn animal science and the care of animals, including the fundamentals of companion animal species and breeds, behavior and training, animal anatomy and physiology, nutrition, and safety. This course will develop students' understanding of animal reproduction, animal ethics and welfare issues, animal health, veterinary medicine, veterinary office practices, and animal services to humans. Students develop basic skills and techniques for assisting the veterinarian/technician in the following areas: handling large and small animals, grooming animals/caring for coats, feeding animals, and maintaining equipment and facilities. Career exploration will focus on veterinarian, veterinary lab technicians, office lab assistant, small animal production, research lab assistant, and animal nutrition lab technician. Since FFA and Supervised Agricultural Experience Programs (SAEPs) are integral components of this course, students are required to maintain SAEP's, and be a member of the FFA while participating in activities of the FFA organization. Students will be encouraged to volunteer at local veterinary offices and/or animal shelters. **Dual credit available through Joliet Junior College: AGRI119** (3 credit hours). **There is a student fee of \$30 for this course.**

WELDING AND FABRICATION I

The students will learn to perform welds using all positions. The students' ability to operate, adjust, and safely control power sources and gas equipment is essential. Students will learn how to braze weld, gas weld, shielded metal arc weld, mig weld, gas cutting, and plasma arc cutting. Blueprint reading and the use of weld symbols are also stressed. Students will learn to be a combination welder and work toward certification. Upon completion of this course a student may earn college credits through Joliet Junior College. Students are required to purchase necessary tools and safety clothing. **Estimated cost of participation is \$90.00.** Proficiency credit may be available through **Joliet Junior College: WLDG 101, and WLDG 110** (6 credit hours). *Guidance Notes: 70% of time in lab. Weekly assignments and quiz.*

WELDING AND FABRICATION II

This course will emphasize development of advanced skills in metal arc welding, brazing, and flame-cutting. Instruction will include safety practices, properties of metals, electrical principles, and advanced welding methods and equipment. Students will utilize MIG, TIG, and semi-automatic equipment to complete their various projects and activities. The development of employability skills, as well as transition skills, and vocational ethics, will be included in the course. Proficiency credit may be available through **Joliet Junior College: WLDG 120** (3 credit hours). *Guidance Notes: 70% of time in lab. Weekly assignments and quiz.*



For more information on dual credit agreements with Joliet Junior College, please visit: <http://www.jjc.edu/academics/registration/dual-credit/Pages/default.aspx> and select Wilco Area Career Center as the school of participation. Agreements may change from time of publication based on program and instructor requirements. Students are responsible for applying and completing all requirements for course registration, ie COMPASS testing and submission of ACT/COMPASS scores.