

## Kishwaukee Education Consortium

The Kishwaukee Education Consortium is a cooperative, Education for Employment Delivery System made up of area high schools, Kishwaukee College and other agencies. The KEC provides a variety of career and technical programs where students gain knowledge and skills for immediate employment after high school or for advanced educational programs. Work place, basic academic and transition skills are taught as an integral part of each course. **Student transcripts will be reviewed to determine if: 1) adequate progress is being made toward graduation; 2) graduation requirements for freshmen and sophomore year have been passed; 3) students have completed appropriate coursework for the KEC course.**

**Prerequisites** - Enrollment in KEC career and technical classes is open to high school juniors and seniors from KEC school districts. Some classes offered have high school or KEC course prerequisites. See course descriptions or your guidance counselor for information.

**High School Credit** - Students typically earn two high school credits for successfully completing KEC course requirements for the year.

**Tech Prep College Credit - Articulated Credit** - A student receiving a B average in a Tech Prep course is eligible for credit at Kishwaukee College when he/she enrolls in the related Kishwaukee College program within 18 months after graduation. After completion of 15 credit hours at the college, the student must contact the Kishwaukee College registrar to obtain the credit. The following Tech Prep Course is eligible for articulated credit in 2008-2009: Welding Technology. (Fire Science is articulated through other Community colleges.)

**Dual Credit/Dual Enrollment** – This allows students to be enrolled at Kishwaukee College and their home high school at the same time. Therefore, the student receives college credit as well as high school credit. Enrollment is taken care of through the KEC. The following Tech Prep Courses are eligible for dual credit/dual enrollment in 2008-2009: Auto Mechanics Technology, Aviation, Business & Information Technology, Collision Repair Technology, Computer Information Maintenance Systems, Construction Trades 1, Criminal Justice, Diesel Power/Heavy Equipment Technology, Early Childhood Education 2, Health Occupations 1, & Manufacturing Engineering Technology Academy.

**Transportation** - Your home school provides transportation to most KEC classes. Only after receiving permission from the KEC instructor, the home high school principal and parent/guardian is a student allowed to drive. Seniors in level 2 courses may have to provide their own transportation due to the college schedule. However, permission still must be obtained.

**Costs** - Certain classes require students to purchase tools of the trade and/or safety equipment. See course descriptions for further details.

**Additional Information – Note that the last day to drop a KEC class is August 15<sup>th</sup>.** If you require additional assistance selecting a KEC course, see your counselor or call the KEC office at 815-754-2400 or visit the KEC website at [www.kecprograms.com](http://www.kecprograms.com).

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### **AUTO MECHANICS TECHNOLOGY 1 89100**

Location: KEC Central & Kishwaukee College

2 High School Credits - 2 College Dual Credits/Dual Enrollment Available

This course offers classroom and laboratory instruction in basic automotive mechanics. Students receive hands-on skill training in the identification, selection, and safe use of automotive equipment and tools in a repair environment. Also included is the use of repair manuals, basic electrical theory, ohms law, starting/charging systems, lighting, and usage of related test equipment. Students will be required to use a text for reading and writing assignments. They will be using some algebra concepts with measurements in both English and Metric systems.

### **AUTO MECHANICS TECHNOLOGY 2 89110**

Location: Kishwaukee College

2 High School Credits - 8 College Dual Credits/Dual Enrollment Available

Prerequisite: "C" grade average and/or consent of instructor.

This advanced course allows students to use and add to the skills acquired in Auto Mechanics Technology I. Students study suspension, alignment and balance of front and rear suspensions in passenger cars and light trucks as well as automotive brake systems. Hands-on lab experiences include servicing of ball joints, springs, shocks and other suspension parts, and all aspects of brake service, including necessary rebuilding and machine work procedures. Students will be required to use a text for reading and writing assignments. They will be using some algebra concepts with measurements in both English and Metric systems.

### **AVIATION FLIGHT ACADEMY 1 & 2 89050/89060**

Location: DeKalb Airport

1 High School Credit, each course – 8 College Credits/Dual Enrollment Available

Prerequisite: Acceptance into academy, consent of KEC, parental orientation session at DeKalb Airport, acceptable GPA (determined by school), recommendation of high school, oral interview with KEC Coordinator, good attendance. All students are required, by law, to provide proof of U.S. Citizenship in the form of their birth certificate or U.S. Passport.

This course offers classroom and simulator instruction in aviation. The course will give an in-depth insight into the world of aviation and will prepare the student for the FAA Private Pilot written exam. Instruction consists of aerodynamics, FAA regulations, primary navigation, GPS navigation, the use of flight computers, weather, radio navigation, flight instrumentation, performance and limitations, and the ATC environment. In addition, the program will utilize a unique, state of the art flight simulator.

### **BUSINESS AND INFORMATION TECHNOLOGY 1 & 2 89380/89330**

Location: Kishwaukee College

2 High School Credits, each course - 11 College Dual Credits/Dual Enrollment Available

Prerequisite: At least 1 semester of keyboarding and/or demonstrated keyboarding proficiency.

Bus. & Info. Tech. 2 Prerequisite: "C" grade average and/or consent of instructor.

This course is designed to be a two-year program which includes computer training using the Windows XP, the Internet, and Microsoft Office 2003. Students will receive extensive instruction in Microsoft Word, Microsoft Excel (spreadsheets), PowerPoint (presentations), and Access (database). Some desktop publishing skills will be taught using Microsoft Publisher. Business-related accounting, written and oral communications, and other office skills will be integrated in the course. Students in the second year of the program may be placed in paid internships four days a week with one day in the structured classroom.

**COLLISION REPAIR TECHNOLOGY 1 (Auto Body) 89170**

Location: Kishwaukee College  
2 High School Credits - 7.5 College Dual Credits/Dual Enrollment Available

This first level course begins preparation for apprentice level entry in collision repair or further education in the field. Emphasis is placed on the fundamental aspects of collision repair and development of skills in the basic operations required to prepare an automobile for final paint application. Instruction includes safety principles and practices, collision repair nomenclature, function of individual components, parts manuals, and the use of filler and special body repair tools. Techniques stressed are straightening, shrinking, filling and the application of the hammer and dolly, installing body panels and paint preparation procedures. Welding is taught as it applies to collision repair. Students need to provide their own safety glasses, work clothing, paint respirator, and dust mask.

**COLLISION REPAIR TECHNOLOGY 2 (Auto Body) 89180**

Location: Kishwaukee College  
2 High School Credits - 6 College Dual Credits/Dual Enrollment Available  
Prerequisite: "C" grade average and/or consent of instructor.

In this course the student continues development of knowledge and skills needed for entry into the collision repair field or certificate and degree programs in the field. Work experience progresses into repairs of a more serious nature. Students build additional skills in basic sheet metal work and learn basic paint preparation and finishing techniques. Welding is taught as it applies to collision repair. Students in this course may be integrated with Kishwaukee College students and therefore, will be attending classes according to the college schedule which may require providing their own transportation. Students need to provide their own safety glasses, work clothing, paint respirator, and dust mask.

**COMPUTER INFORMATION MAINTENANCE SYSTEMS 1 & 2 89310/89320**

Location: KEC Central & Kishwaukee College  
2 High School Credits, each course - 11 College Dual Credits/Dual Enrollment Available  
Computer Information Systems 2 Prerequisite: "C" grade average and/or consent of instructor.

A one or two-year program open to juniors and seniors who want to work with the repair and maintenance of computers OR the networking of computers. **Repair and maintenance:** This class will prepare students with competencies essential for repairing and maintaining computer hardware and operating systems, as well as simple network concepts. Qualified students may enroll in coursework that may lead to certification as an A+ Computer Technician. **Networking:** Second year students may enroll in Cisco Academy or sample the high tech areas of computer usage that include internet concepts and applications and computer hardware and electronic interfacing projects. Qualified students may enroll in coursework that may lead to a Cisco Certified Network Associate (CCNA) or Network+ Certification.

**CONSTRUCTION TRADES 1 & 2 89630/89640**

Location: KEC Central & Building Job Site  
2 High School Credits, each course - 3 College Dual Credits/Dual Enrollment Available for Construction Trades 1  
Construction Trades 2 Prerequisite: "C" grade average and/or consent of instructor.

Construction Trades 1 provides basic training in a controlled lab environment in the following trades: Bricklayer, Carpenter, Cement Mason, Drywall Installer, Electrician, Plumber, and Tile Setter. In addition, Construction Measurement concepts and tool and job site safety are included. After satisfying the required labs, students will then be able to perform under direction from the instructor at a residential or commercial site. Student will have introductory instruction on blueprint reading, building codes, cost analysis and rough and finish carpentry skills. Students should have an understanding of basic math and geometry and be able to read a ruler. Students must also be able to lift heavy objects, work from ladders and not have a fear of heights. Advanced instruction on blueprint reading, building codes, cost analysis and rough and finish carpentry skills will be provided in the second year. Along with more responsibilities at the job site, there will be leadership roles assigned throughout the year.

**COSMETOLOGY 1 & 2 89400/89410**

Location: Hair Professionals Career College, DeKalb  
3 High School Credits, each course

This program, conducted through a contract with Hair Professionals Career College, is designed to begin to prepare students to qualify for the Illinois licensing examination in cosmetology. The program consists of approximately 450-900 of the 1,500 hours of instruction required for state licensing. The first 700-900 credit hours are typically earned over a two-year period. Classroom and practical experiences include a variety of beauty treatments including the care of hair, complexion and hands. Instruction includes giving shampoos, rinses, scalp waving and manicuring. Bacteriology, anatomy, hygiene, sanitation, salon management and customer relations are also emphasized. Students should expect to attend class and do clinical work that may extend beyond the regular high school day. They should plan to provide their own transportation. Students are responsible for the initial Hair Professionals registration cost as well as the purchase of the personal tools and professional kit which usually runs about **\$1,000**, as well as a lab fee each semester of \$200. They are also responsible for the final 450-900 hours of instruction typically completed after high school graduation.

**CRIMINAL JUSTICE 1 & 2 89140/89270**

Location: KEC Central  
2 High School Credits, each course - 12 College Dual Credits/Dual Enrollment Available  
Criminal Justice 2 Prerequisite: "C" grade average and/or consent of instructor.

This is a two-year program that introduces students to the various aspects of the Criminal Justice system. Course content includes basic principles of government, the Constitution, and the courts and legal system. Other topics covered are telecommunications, patrolling, crime lab techniques, investigation procedures, search and arrest techniques, fingerprinting and human relations and police ethics. Traffic accident investigation and driving under the influence enforcement are taught along with Illinois vehicle code, report writing, and community oriented policing. A criminal background check may be done on all students. Students enrolling in this course should not have any convictions.

**CULINARY AND HOSPITALITY MANAGEMENT 1 & 2 89340/89360**

Location: KEC Central

2 High School Credits, each course

Culinary and Hospitality Management 2 Prerequisite: "C" grade average and/or consent of instructor.

This course will provide students interested in the food service industry, including hospitality careers involving hotel and motel management, further work in advanced food preparation and food preparation management. Students will learn to use commercial food service equipment to prepare food in quantity. A broad range of current food and nutrition issues will be covered such as planning food service, purchasing food, safety of food preparation, presentation of food, preparation, employer and customer relationships and careers and advanced education in the industry. Students will prepare, sample and evaluate the products prepared. Students may need to provide their own transportation, uniforms, and other costs related to placement at some community training sites.

**DIESEL POWER/HEAVY EQUIPMENT TECHNOLOGY 1 89580**

Location: Kishwaukee College

2 High School Credits - 6 College Dual Credits/Dual Enrollment Available

This course offers classroom and laboratory instruction in basic diesel, heavy equipment mechanics and small engines to prepare for entry in related occupations or advanced education. Learning activities allow students to become knowledgeable in the fundamental aspects of safety practices, use of hand and power tools, diagnosis of malfunctions, fuel systems, disassembly and inspection, reconditioning, measuring, and assembling of heavy equipment components. Welding is taught as it applies to Diesel Power. Students provide their own safety goggles.

**DIESEL POWER/HEAVY EQUIPMENT TECHNOLOGY 2 89590**

Location: Kishwaukee College

2 High School Credits - 7 College Dual Credits/Dual Enrollment Available

Prerequisite: "C" grade average and/or consent of instructor.

This course offers more laboratory experience using the skills learned in Diesel 1 class. The student will learn trouble-shooting techniques for diesel engines and diesel fuel systems. Most of the projects for Diesel 2 class will be actual running engines brought in to simulate an equipment service shop. Diesel 2 students will also be called upon from time to time to give class demonstrations for Diesel 1 students. Students provide their own safety goggles. Level 2 students will meet Monday-Thursday from 1-3pm and may have to provide their own transportation.

**EARLY CHILDHOOD EDUCATION 1 AND 2 (ADVANCED) 89010/89020**

Location: KEC Central

2 High School Credits, each course - 3 College Dual Credits/Dual Enrollment Available for Child Care 2.

Child Care 1 Prerequisite: Successful completion of Child Care Development course(s) at home high school is encouraged.

Child Care 2 Prerequisite: "C" grade average and/or consent of instructor.

This advanced regional course is available to students who have successfully completed the Child Development Course sequence at their home high school. The course is designed to develop the skills required to plan and implement an early childhood program. Students will apply their learning experiences about children through participation in a school-based preschool and possibly an internship in a community child care facility. Interaction with parents, including conferences, meetings, phone and letter communications will be part of the course.

**FIRE SCIENCE 1 & 2 89080/89260**

Location: KEC Central & Sycamore Fire Department/DeKalb Fire Department

2 High School Credits, each course - College Articulated Credits and Advanced Placement Available

Fire Science 2 Prerequisite: "C" grade average and/or consent of instructor.

This two-year program enables students to learn curriculum in order to enter the fire service or emergency medical field. The first year will include the Firefighter II and CPR training. Curriculum is based on the standards set forth by the State of Illinois Fire Marshall's Office, the Illinois Department of Public Health, and the Department of Transportation. Curriculum for second year students will include EMS/First Responder and introduction to Fire Protection. Those students wishing to take the Firefighter II state tests will have their records forwarded to the fire department with which they are working. Any fees for state tests will be paid for by the students.

**HEALTH OCCUPATIONS 1 89030**

Location: KEC Central / Area Healthcare Facilities

2 High School Credits - 7 College Dual Credits/Dual Enrollment Available

This course provides a strong base for students who wish to gain experience and background for advanced study in the health and medical fields. Instruction includes orientation to health-related careers, basic patient care skills, medical terminology, nutrition, anatomy, physiology and first aid. In addition, this course prepares students for the Illinois Certified Nursing Aide exam for certification. Students must have a valid U.S. Social Security Number to take this test. Clinical experiences at community health care facilities are an integral part of the program. A criminal background check will be done on all students prior to the start of clinical rotations and students are not allowed to have any convictions. A mandatory urine drug screen will be conducted as well. The results of this screen must be negative in order for the student to remain a full participant in this course. Students may have to arrange for transportation to scheduled clinical experiences at regional health care facilities. Lab fees may be required for placement in clinical experiences.

**HEALTH OCCUPATIONS 2 89040**

Location: KEC Central / Area Healthcare Facilities

2 High School Credits

Prerequisite: Illinois Certified Nurse Aide Certificate and a minimum grade of "C" in Health Occupations I and/or consent of instructors

This course will continue to prepare students in the healthcare field for further certification and advanced work at the college level. Subject matter to be covered will include medical terminology, anatomy and physiology and careers in several health occupations. Students may be placed in unpaid internship positions at local medical facilities. Students must be able to provide their own transportation to internship sites. A mandatory urine drug screen will be required for students to participate in clinical experiences. Consent for the testing and a negative drug screen will be required for a student to remain a full participant in this course. Lab fees may be required for placement in clinical experiences. Excellent attendance at the home school is essential for success in this program.

**MANUFACTURING ENGINEERING TECHNOLOGY ACADEMY 1 & 2**

**89560/89550**

Location: Kishwaukee College/Local Industries

2 High School Credits, each course - *14 College Dual Credits/Dual Enrollment Available*

Prerequisite: Application and acceptance into the Academy. See your counselor for additional information and an Academy application.

The Manufacturing Engineering Technology Academy is a two-year high school Tech Prep program to prepare students to enter a broad range of career areas in manufacturing which may require an associate or other advanced degree. Students will take coursework at Kishwaukee College and at area industrial sites. Students are eligible to participate in paid internships sponsored by area manufacturing companies during the summer between their junior and senior year. Robotics, hydraulics, and pneumatics are taught through the use of high tech equipment modules. The program is intended to train students for industrial employment as entry-level toolmakers, tool designers, mechanical drafters, or production/engineering aides. Students provide their own safety goggles. (*Summer internship credit is also available*)

**WELDING TECHNOLOGY 1 & 2**

**89530/89540**

Location: Kishwaukee College

2 High School Credits, each course - *4 College Credits and Advanced Placement Available*

Welding 2 Prerequisite: "C" grade average and/or consent of instructor.

This course, designed to develop job entry skills or prepare for advanced college course work leading to professional welder certification, combines classroom instruction with "hands on" laboratory experience. Procedures covered in this course include shop safety, oxyacetylene welding, brazing and cutting, flat position electric arc and mig welding, pattern burning and blueprint reading. Students in the second year program gain experience in advanced welding practices (horizontal, vertical and overhead positions) using electric arc, and mig processes. All students are required to purchase and wear safety glasses, appropriate clothing, and equipment.