

Indianapolis Public Schools
Career & Technology Magnet
725 North Oriental Street
Morgan Hall
Indianapolis IN 46202
Phone: (317) 693-5429
Fax: (317) 693-5429



PROGRAM DESCRIPTION GUIDE 2012-2013

Advanced Manufacturing

The Advanced Manufacturing program is a highly specialized course based on the techniques and interrelationships found in high performance manufacturing and production. Instruction will focus on the critical actions, knowledge, systems, and processes necessary to participate in an advanced manufacturing enterprise. Activities include a focus on advanced manufacturing processes and production; quality and continuous improvement practices; maintenance awareness; and safety.

Program Time: Two year program, with a 3rd year option

Class Time: Two hours per day

Extra Costs: Certification test fee

Certification Available:

- Manufacturing Skill Standards Council-Manufacturers & Logistics Certificate

Dual Credit option for College

Internships Available

Automotive Collision Repair Technology

Automotive Collision Repair Technology is a two year program that covers all phases of repair on damaged vehicle bodies. This program includes metal straightening by hammering and or smoothing of areas by filing, grinding, or sanding; concealment of imperfections and painting; and replacement of various parts.

Program Time: Two or Three year program

Class Time: Two hours per day

Extra Costs: None

Internships Available

Related areas:

- Glass installation
- Insurance claims adjusting

Automotive Detailing & Maintenance

Automotive Detailing & Maintenance is a one year program suited for students who like to work on automobiles, but are not interested in major auto repair. Students will learn the techniques used in basic auto maintenance shops. The curriculum will include learning how to change engine oil, replace other necessary fluids, lubricate chassis and other basic car maintenance topics. Students will learn simple brake shoe changes and brake adjustments. Students will learn how to hand wash and dry, clean and dress tires and rims and the various facets of detailing.

Program Time: One year program

Class Time: Two hours per day

Extra Costs: None

Internships Available

Related areas:

- Auto dealerships
- Rental agencies

Automotive Service Technology

Automotive Service Technology is a two or three year program that will provide skills in the repair and maintenance of automobiles. Specialized experience will be provided in the areas of wheel and brake alignment, computer systems analysis, automotive tune-ups, and automotive electrical systems. This program also provides preparation for the Automotive Service Excellence (ASE) Certification.

Program Time: Two or three year program

Class Time: Two hours per day

Extra Costs: Certification testing fee

Certification Available:

- Valvoline Oil Safety Use & Disposal Certificate
- SP 2 Safety Certification

Internships Available

Building Facilities & Management

The Building Facilities & Management program provides instruction in basic maintenance and repair skills related to air conditioning, heating, plumbing, electrical, and other mechanical systems. Additional activities include classroom and laboratory experiences concerned with all phases of care and cleaning of buildings, fixtures, and furnishings.

Program Time: One year program

Class Time: Two hours per day

Extra Costs: None

Internships Available

Building Trades Technology

Building Trades Technology is a two year program designed to prepare students with skills in residential construction. Students are provided hands-on activities and building a model house as a lab activity. After successful completion of the program, a high school diploma and 90% overall attendance, students may qualify for direct admission into the Local Carpenter's Union.

Program Time: Two year program

Class Time: Two hours per day

Extra Costs: Certification testing fee

Certification Available:

- Indiana-Kentucky Regional Council of Carpenters Apprentice & Training Fund Certification

Dual Credit option for College

Internships Available

Related fields:

- Independent Contractor
- Construction Engineer
- Carpentry

Certified Nursing Assistant/Health Careers

The Certified Nursing Assistant(CNA) Program is a one year program open to **Seniors only** that will provide an exploration of various careers in the healthcare industry and prepare students for entry level certification as a nursing assistant in health care facilities. The CNA program is designed to meet the needs of persons who wish to work in long-term care settings.

Program Time: One year program—**Seniors Only**

Class Time: Three hours per day

Extra Costs: Certification Test--\$75.00 Uniform required

Certification Available:

- Indiana State Department of Health
 - Certified Nurses Aide
 - Certified Home Health Aide

Internships Available

Computer Repair & Maintenance Technology

Computer Repair & Maintenance Technology is a two year program that provides students with hands-on experiences in troubleshooting and repair of computer hardware and software. Students will learn basic systems technology concepts and management. Additionally, they will explore personal computer components and will solve common problems by identification and correction. Students will prepare to pass the Comp TIA A+ certification exam.

Program Time: Two year program

Class Time: Two hours per day

Extra Costs: Certification testing fee

Certification Available:

- The Computing Technology Industry Association
Comp TIA A+ Certification

Internships Available

Cosmetology

Cosmetology is a two year program that offers an introduction to the field of cosmetology with emphasis on basic practical skills and theories including roller control, quick styling, shampooing, hair coloring, permanent waving, facials, manicuring business and personal ethics, and bacteriology and sanitation. The State of Indiana requires a total of 1500 clock hours of instruction and passing a theory and practical exam. Students will be prepared to take the required Indiana State Licensing Examination. Students must be **18 years of age** to take the State Boards.

Program Time: Two year program

Class Time: Four hours per day

Extra Costs: Uniform required-Black scrubs and solid black shoes

Certification Available:

- Indiana Beauty Culture License

Dual Credit option for College

Internships Available

Culinary Arts Careers

The Culinary Arts program is a two year program where students learn current trends in the food industry, classical food preparation methods, restaurant management, culinary math skills, customer service, and hospitality basics through the National Restaurant Association ProStart Curriculum. Students will work in the Colonel's Cupboard restaurant which is open to the public and located on the campus of Arsenal Technical High School.

Program Time: Two year program

Class Time: Two hours per day

Extra Costs:

- \$45.00 Kitchen tool kit—Black safety shoes
- \$100.00 Certification testing fee

Certification Available:

- Pro Start National Certificate of Achievement
- ServSafe Food Safety Certification

Dual Credit option for College

Internships Available

Diesel Service Technology

(Powered by Navistar)

Diesel Service Technology is a two or three year program where students will explore and perform truck repairs from basic maintenance to high tech electronic diagnosis and repair. This program introduces students to engine operating principles and theories as well as diesel fuel systems and hands-on training related to modern diesel engines. The program covers inspection, troubleshooting, overhaul and engine replacement procedures. Also included are classroom and laboratory experiences concerned with all phases of repair work on diesel engines used to power buses, ships, trucks, railroad trains, electrical generators, construction machinery, and similar equipment. Additionally, instruction and practice is provided in the diagnostics and repair of engines.

Program Time: Two or Three year program

Class Time: Two year program—Two hours per day

Three year program--Two hours per day for year one, Three hours per day years two and three

Extra Costs: Certification testing fee

Available toward certification:

- One year's experience toward Automotive Service Excellence(ASE) Certification

Internships Available

Drafting and Computer Aided Design

Drafting and Computer Aided Design is a two or three year program where students will receive an overview of civil engineering and architecture while using state of the art software to solve real world problems. The program covers project and site planning, project documentation and animated presentation. Students will apply and adapt design processes found in architectural drafting scenarios. Student will integrate architectural concepts to produce industry standard drawings.

Program Time: Two or three year program

Class Time: Two hours per day

Dual Credit option for College

Internships Available

Emergency Medical Services Training (EMT)

(Partnership with Indianapolis Emergency Medical Service)

Emergency Medical Services Training prepares students for a State certification which could lead to a career in emergency medical services such as an Emergency Medical Technician or a Paramedic. This program is designed for persons desiring to perform emergency medical care. Students will learn to recognize the seriousness of the patient's condition, and to use the appropriate emergency care techniques and equipment to stabilize and transport the patient to the hospital. This program also addresses the handling of victims of mass casualty incidents.

Program Time: One year program

Class Time: Two hours per day

Extra Costs: Books and Certification testing fees

Certifications Available:

- Indiana State Certification Emergency Medical Tech(EMT)
 - Hazardous Materials Emergency Medical Services (EMS) Awareness
 - Basic Rescue Operations
 - Mass Casualty Operations
 - Helicopter Landing Zone Operations(L2)
 - Autism Awareness
 - Sudden Infant Death Syndrome(SIDS) Awareness

Department of Homeland Security

- Terrorism Awareness
- Weapons of Mass Destruction

Internships Available

Fashion & Textile Careers

Fashion Design & Textile is a two year program where students explore areas of interest which include clothing design, the fashion industry, fashion merchandising and retailing, and entrepreneurship related to textile-related occupations. Students will develop their clothing construction skills using industrial sewing machines and a computerized embroidery sewing machine.

Program Time: Two year program

Class Time: Two hours per day

Extra Costs: None

Internships Available

Fire Science I & II

(Partnership with Indianapolis Fire Department)

Fire Science I & II is a one year program for **Seniors only**. In this program, students will gain the skills necessary to join a fire department. Protecting lives and property is the core of the fire science curriculum. Students will learn about ladders, hoses, fire streams, fire extinguishers, auto extractions, ventilation, forcible entry, power tools and much more. Students will be able to earn several certifications on completion of this program.

Program Time: One year program (**Seniors only**)

Class Time: Three hours per day

Extra Costs: Books and Certification test fees

Certifications Available:

- National Fire Protection Association (NFPA), Certified Firefighter I & II
 - Hazardous Materials Awareness (HAZMAT)
 - Hazardous Materials Operations (HAZMAT)
 - Resuscitation (CPR)
 - First Responders
 - Basic Rescue Operations
- Department of Homeland Security
 - Weapons of Mass Destruction
 - Terrorism Awareness
 - Weapons of Mass Destruction

Graphic Imaging Technology

Graphic Imaging Technology is a two year program that includes lab activities in layout and design techniques, digital image preparation and output using digital cameras. Printing and graphic imaging is a process for creating images on websites, candy wrappers, T-shirts, textbooks and publications.

Program Time: Two year program

Class Time: Two hours per day

Extra Costs: None

Internships Available

Heating, Ventilation, and Air Conditioning

Heating, Ventilation and Air Conditioning (HVAC) program is a two year program where students gain classroom and laboratory experiences with heat generation, ventilation, air conditioning and cooling/refrigeration systems. This program is designed to provide information necessary to gain entry level positions in the industry. This is a national certification that will enable students to bypass cored subjects in this field when pursuing a journeyman's certification.

Program Time: Two year program, 3rd year option

Class Time: Two hours per day

Extra Costs: \$37.00 Certification testing fee

Certification Available:

- Heating Electrical, Air-Conditioning Technology EPA Certification (H.E.A.T.)

Internships Available

Mobile Electronics

Mobile Electronics is a two year program where students will receive hands-on instruction on installing and configuring mobile electronics systems. The Mobile Electronics program is a 120 or 180 hour program and provides each student with the knowledge and skills necessary to succeed in a fast-paced \$29 billion auto electronic industry as high-quality professional electronic installers.

Program Time: Two year program

Class Time: One and Two hours per day

Extra Costs: \$85.00 Certification testing fee

Certification Available:

- Mobile Electronics Certified Professional (MECP)
 - Basic Installer
 - Advanced Installer

Internships Available

Dual Credit option for College

Nail Technician

The Nail Technician program is a one year program available for **Seniors**. This program covers the following: manicures, pedicures, acrylics, fiber wraps, and gel nails as well as air and free hand nail art. Students will receive instruction on the latest nail technology and prepare for the State of Indiana certification exam. After successful program completion with 450 hours students can obtain licensing to work in a salon or spa.

Program Time: One year program—**Seniors Only**

Class Time: Four hours per day

Extra Costs: Uniform required-Black scrubs and solid black shoes

Certification Available: Indiana Beauty Culture License

Internships Available

Plant Science (Landscaping & Horticulture)

Plant Science is a program that provides the student with an overview of the many career opportunities in the diverse field of landscape management. Students are introduced to the procedures used in the planning and design of a landscape using current technology practices, the principles and procedures involved with landscape construction, the determination of maintenance schedules, communication and management skills necessary in landscaping operations, and the care and use of equipment utilized by landscapers. Greenhouse experience is included.

Program Time: Two year program

Class Time: Two hours per day

Extra Costs: None

Internships Available

Recreational & Portable Power Equipment

The Recreational & Portable Power Equipment program is a hands-on training for the repair of small engines. This training includes lawn mower engines, motor boats and recreational vehicles. Students will learn how to troubleshoot and repair engine components and systems, work with engines, ignition systems, and electrical circuits, inspect and repair small engine fuel systems, and disassemble and rebuild all types of small engines. These will include two-stroke, four-stroke, outboard, and riding mower engines.

Program Time: Two or three year program

Class Time: Two hours per day

Extra Costs: None

Internships Available

Visual Arts & Design

Visual Arts & Design is a two year program where students will be instructed in basic principles of advertising and design. This program explores the application of the tools, materials, and techniques used to design, produce, use, and assess systems of communication. Students will produce graphic and electronic media as they apply communication technologies. This program will also explore the various technical processes used to link ideas and people through the use of electronic and graphic media.

Program Time: Two year program, 3rd year option

Class Time: Two hours per day

Extra Costs: None

Dual Credit option for College

Internships Available

Welding Technology

Welding Technology is a two year program with instruction and activities in all types of metal, welding, brazing and flame cutting. Instruction emphasizes properties of metal, blueprint reading, electrical principles, welding symbols, and mechanical drawing in gas and arc welding. This program includes classroom and laboratory experiences that develop a variety of skills in oxy-fuel cutting and Shielded Metal Arc welding. The Welding Technology program is designed for individuals who intend to make a career as a Welder, Maintenance Technician, Designer, Researcher or Engineer. Emphasis is placed on safety at all times. OSHA standards and guidelines endorsed by the American Welding Society (AWS) are followed.

Program Time: Two year program

Class Time: Two hours per day

Extra Costs: Certification testing fees

Certification Available:

- Introductory Welding
- Shielded Metal Arc Welding
- Shielded Metal Arc Welding II
- Gas Metal Arc (MIG) Welding

Dual Credit option for College

Internships Available

Related fields:

- Plumbing
- Heating
- Air-conditioning
- Electrician
- Iron worker

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