Lab Fees as of FA18 Term

Course Code	Course Description	Fees
ART-101-01	This course introduces the theory and practice of the elements and principles of 2-D design. Students experiment with a variety of media as they develop an understanding of the visual elements and principles of 2-D design.	$20.00
ART-102-FX1	This course introduces the theory and practice of 3-D design. Students work with a variety of three-dimensional media and techniques as they develop an understanding of form, mass, contour, space, and texture.	$20.00
ART-104-01	This course is an introduction to the materials and techniques of drawing as an art form. Working in black and white and colored media, students explore the formal, conceptual, and expressive dimensions of drawing. Emphasis is placed upon the observation, interpretation, and rendering of visible form.	$20.00
ART-106-01	ART 106 reinforces the formal and technical concepts introduced in Drawing I. Students build on their understanding of color concepts, investigating both descriptive and expressive dimensions. Students work with a variety of subjects and materials, exploring a wide range of conceptual approaches culminating in a final series of	$20.00
ART-115-01	This studio course introduces students to the history and use of computer applications in the visual arts. Students learn to generate, combine, and manipulate traditional and contemporary visual ideas using both raster paint/photo retouching programs and professional quality vector drawing programs. (same as GC 115)	$35.00
ART-201-01	This course introduces students to the technical and aesthetic dimensions of painting. Students address both formal and expressive qualities of painting as they observe and interpret a variety of subjects from life. A final portfolio is required.	$20.00
ART-202-01	This course is a continuation of ART 201 and introduces a wider range of both technical and conceptual approaches to painting. Students are encouraged to seek a more personal voice through exploring the expressive dimensions of painting and developing a final series of related works on a chosen theme.	$20.00
ART-246-01	The independent study in fine arts provides advanced students with the opportunity to pursue a specialized creative project that goes beyond the normal course offerings. Students contract a problem, present alternative directions to its solution and present a final portfolio of artwork accompanied by a written statement. Frequent critiques are conducted throughout the semester. May be repeated two times.	$20.00
ASTRO-104-00	This lab course is a one-semester conceptual study and investigation of astronomical phenomena. Topics include motions and cycles of the Earth, Moon, and Sun, the origin of modern astronomy, electromagnetic radiation and astronomical telescopes, characteristics of the solar system, comparative planetology, evolution and death of stars, structure of the Milky Way galaxy, types of galaxies, modern cosmology and astrobiology.	$5.00
ASTRO-104-01	This lab course is a one-semester conceptual study and investigation of astronomical phenomena. Topics include motions and cycles of the Earth, Moon, and Sun, the origin of modern astronomy, electromagnetic radiation and astronomical telescopes, characteristics of the solar system, comparative planetology, evolution and death of stars, structure of the Milky Way galaxy, types of galaxies, modern cosmology and astrobiology.	$5.00
AUTO-101-01	This course introduces automotive systems and service. It includes safety systems, drive lines, engines, transmissions, transaxles, heating and cooling systems, fuel systems, steering and brake systems, ignition systems, construction, and operating systems.	$45.00
AUTO-107-01	Specialized training is provided in the basic automotive electrical system, including the electrical circuits, storage batteries, cranking systems, charging systems, ignition systems, electrical system-circuit-component tests, and the testing equipment that pertains to the automotive diagnostic-service field.	$45.00
AUTO-108-01	This course covers component repair operations, adjustments, and performance testing of front and rear suspension systems. Service units include control arm pivot shaft bushings, ball joints, springs, shocks, MacPherson struts, bearings, wheels, tires, steering linkages, and gears.	$45.00
AUTO-205-IS	This course covers operation and maintenance service of clutches, standard transmissions, overdrives, drive lines, differentials, and major manual transaxles.	$45.00
AUTO-207-IS	This course focuses on component repair operations and adjustments. Performance testing on heating, defrosting, and air conditioning systems is included. Retro fitting and alternative refrigerants also are studied.	$45.00
AUTO-211-IS	Student technicians cover the operational aspects of automotive computer output/input control systems, performance diagnosis procedures, repair, service, and OBD I, OBD II, readiness monitors, and IM-240.	$45.00
BIOL-100-01	This one-semester introductory course for non-science majors is designed to fulfill the general education requirement for life science with a laboratory. The course covers cell biology, genetics, evolution and diversity, plant and animal structure and functions, animal behavior, and ecology. Students cannot receive credit for both BIOL 100 and BIOL 112.	$17.00
BIOL-111-01	This is a course designed for science and health majors. It provides an introduction to biochemistry, molecular genetics, cell structure, cell function, cellular process, and cell division. This course also includes an introduction to Mendelian inheritance and gene activity.	$17.00
BIOL-112-01	This is a course designed for science and health majors. It provides an introduction to the structure and function of microorganisms, fungi, plants, and animals. This course also includes an introduction to evolutionary and ecological principles. Students cannot get credit for both BIOL 100 and 112.	$17.00
BIOL-211-01	This is an introduction to the study of microscopic organisms, with an emphasis on bacteria. Special attention is given to their structure, physiology, and ecology. This course also includes an introduction to virology, medical parasitology, medical mycology, and immunological concepts. This course is especially beneficial for health profession majors because of the emphasis on the microbial role in the disease process focusing on the epidemiology, clinical manifestation, and treatment of microbial diseases.	$17.00
BIOL-221-01	This is part I of a two-semester sequence of study concerning anatomy and physiology of the human body. Part I includes the study of basic principles of chemistry, cell biology, cellular metabolism, and tissue histology. It also covers the integumentary system, skeletal system, muscle system, and the nervous system.	$17.00
BIOL-222-01	This is part II of a two-semester sequence of study on the anatomy and physiology of the human body. It also covers senses, endocrine system, digestive tract, nutrition, metabolism, respiratory system, cardiovascular system, lymphatic system, urinary system, water and electrolyte balance, reproductive system, human growth and development, and human genetics.	$17.00
BUS-107-01	This course emphasizes how to keep records rather than how to analyze them. Work is devoted to developing procedures within the framework of acceptable accounting concepts. Students also acquire the vocabulary necessary to understand communications with others in the field.	$10.00

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Lab Fees as of FA18 Term

Course Code	Course Description	Fees
BUS-131-01	This is an introduction to financial accounting and the communication of relevant information to external parties. It includes the development of the accounting model, internal control, measurement processes, data classification, and terminology. Interpretation and use of the resultant financial statements are emphasized. Sole proprietorships, corporations, service businesses, and merchandisers are covered. The additional feature of this course is the inclusion of computer applications.	$10.00
BUS-132-01	This is an introduction to managerial accounting emphasizing information required for internal decision making. The fundamentals of product costing, cost/volume/profit analysis, absorption costing, variable costing, budgeting, standard costs, variance analysis, cost control, responsibility accounting, short run decision analyses, capital budgeting, activity-based costing, just-in-time concepts, and quality management are included.	$10.00
CADMD-141-01	A beginning course in drafting for students who have little or no drafting experience. Principal objectives are basic understanding of orthographic, isometric, and assembly working drawings; understanding the principles and applications of descriptive geometry; experience in using handbooks and other resource materials; and use of simplified drafting practices in industry. ASA standards are stressed. Interpretation of industrial sketches and prints is introduced to emphasize accepted drawing practices.	$25.00
CADMD-201-01	An advanced course in graphics for all students taking the mechanical design curriculum. The instructional unit provides experience in mechanical layout and design. Design problems require solution by math, graphics, and creative imagination. Experience also is given in industrial filing systems, engineering specifications, blueprint corrections, manufacturing processes, and other products.	$25.00
CADMD-243-01	This is an introductory course in Computer Aided Drafting (CAD). Through lecture and hands-on experience, students learn to use the most popular microcomputer CAD software, AutoCAD. Students learn basic CAD skills that enable them to produce mechanical drawings. Topics include: setting up AutoCAD, utility commands, drawing construction techniques, editing, display controls, layers, drawing aids, dimensioning, and plotting. Although there are no specific prerequisites, prospective students should have a working knowledge of IBM-compatible PCs, an understanding of plane geometry, and be able to deal with both common and decimal fractions.	$45.00
CADMD-244-01	This course is a continuation of CADMD 243. Students learn to use advanced AutoCAD commands to create complex mechanical drawings. The topics to be covered include: attributes and polylines, AutoCAD 3-D, customizing AutoCAD, and a brief introduction to AutoLisp.	$45.00
CADMD-245-01	This is a course in Computer Aided Design for the advanced CAD user. Students learn to use a typical CAD system to design and analyze mechanical mechanisms. The course content stresses reinforcement of CAD capabilities covered in previous courses, creating AutoLisp programs using AutoCAD commands in AutoLisp, conditional and loop statements, and programming logic. Design concepts such as design automation and product design analysis are covered.	$45.00
CADMD-248-01	This course is an introduction to Autodesk Inventor, which is an advanced 3-D parametric solid modeling system with surface modeling capabilities. Students learn to create solid parts, assemblies of solid parts, exploded presentations of assemblies and engineering drawings.	$45.00
CADMD-249-01	2 lectures; 2 lab hrs: 3 hrs credit This is a course in computer aided design for the advanced 2D CAD user and intermediate 3D CAD user. Students learn how to use the advanced features of 3D solid modeling applications using the Solidworks CAD drafting program. Individuals will begin with the basics of the Solidworks program and will apply CAD knowledge to real industry applications by mastering complex surface modeling, mechanical design projects, rendering, and plotting. The course content stresses uses and reinforcement of 3D CAD capabilities covered in previous courses. Design concepts such as design automation and product design analysis are covered.	$45.00
CHEM-105-01	This course includes the basic concepts of general chemistry such as nomenclature, mass relationships, solutions, acids and bases, and bonding. Students cannot receive credit for both CHEM 105 and CHEM 110.	$32.00
CHEM-110-01	This is the first course of a two-semester sequence and is strongly recommended for all science majors and pre-engineering students. It includes the mole concept, bonding theory, formulas and equations, periodic classification of the elements, and physical properties of gases, liquids, solids, and solutions. Students cannot receive credit for both CHEM 105 and 110.	$32.00
CHEM-130-01	This is the second course of the two-semester sequence and is strongly recommended for all science majors and pre-engineering students. This class includes a study of acids and bases, general equilibria, qualitative analysis, electrochemistry, oxidation reduction, general descriptive chemistry, thermodynamics, molecular structure, coordination compounds, and introduction to organic chemistry.	$32.00
CHEM-203-01	This course covers the properties, preparation, and reactions of aliphatic and aromatic compounds, alkenes, alkynes, alkyl halides and alcohols, mechanism or reactions, stereochemistry, infrared, and nuclear magnetic resonance spectroscopy.	$32.00
COL-102-FYE1	This course provides the opportunity to explore career interests, skills, abilities, and work-related values. Topics include the nature of various careers, labor market trends, job search strategies, education and training requirements, and diversity in the workplace. Students learn to develop a career and educational plan based upon informed career decisions.	$10.00
COL-106-S1	This course is designed for those who want to improve their choice of lifestyle relative to personal responsibilities, balance, and personal enhancement of physical, mental, and spiritual health. The course also assists individuals in making voluntary behavior changes which reduce health risks and enhance individual productivity.	$20.00
DH-103-01	This course provides a detailed study of nomenclature, morphologic characteristics, and physiologic relationships of human primary and permanent teeth. The study of the anatomical structure of the head and neck region of the human body will serve as a foundation of anatomical knowledge that is essential for patient care, understanding function, oral pathology, local pain, and the administration of anesthesia.	$50.00
DH-108-01	This course offers an opportunity to develop competency in fundamental clinical skills in preparation for client treatment. The introduction of basic instrumentation principles and skills essential to assessment, planning, treatment, and evaluation of client care are emphasized. Focus on clinical procedures for patient assessment will include infection control, health history, extra and intraoral examination, gingival evaluation, and periodontal assessment. Students will practice on mannequins and partners in order to develop their skills.	$100.00

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Course Code	Course Description	Fees
DH-202-01	This course continues to build students' knowledge and competence in providing the process of care to clients in the dental hygiene clinic. Students will utilize didactic and previous clinical experience in order to provide comprehensive dental hygiene care to clients with simple to complex needs. Emphasis on the development of critical thinking skills will be encouraged in order to provide efficient and effective patient centered care. Additional non-surgical periodontal therapies will be introduced.	$185.00
DH-207-01	This course covers the basic science, clinical indications, manipulative variables and procedures, physical and mechanical characteristics and clinical performance of materials used in dentistry. Lecture and laboratory emphasizes an understanding of the science of dental materials, which is essential to assess patient needs, to plan for and treat those needs, and to evaluate treatment outcomes.	$110.00
ECED-299-IS	This course includes participation in the Prairie State College Children's Learning Center under faculty supervision. Students use knowledge and practice skills gained in early childhood education courses as they spend a minimum of 10 hours per week in the center. The course includes a one hour per week seminar that gives students a chance to discuss and review the internship experience.	$20.00
ELEC-101-01	This is an introductory course in direct current electricity. The student will analyze series, parallel, and combination circuits using Kirchoff's circuit and voltage laws, operation of measuring instruments and measurement techniques. This student will verify basic principles of electricity in the laboratory.	$45.00
ELEC-102-01	This is a fundamental course in alternating current theory and analysis. Students will analyze circuits that include series and parallel configuration of resistance, inductance and capacitance. The analysis will include vector operations, complex impedance, phase angles, single- and three-phase representations, Delta and Wye circuits, measurements and power relationships. This course includes the study of the principles of transformer operation including load conditions, efficiency and testing.	$45.00
ELEC-110-01	This is a course covering the principles of how electronic devices work and how they are connected into basic electronic circuits. The content includes introductory analysis of voltage, current, resistance and power as found in electronic circuits. Principles covering diodes, transistors, thyristors, SCRs, integrated circuits and digital electronic fundamentals will also be covered. Students will calculate, wire and measure electronic circuits.	$45.00
ELEC-120-01	This course is a study of DC and AC generators and motors. Topics covered include motor construction, basic principles, speed-voltage characteristics and regulation of the generator. Also covered are the principles, speed-torque characteristics, type of field excitation, and starting procedures of motors. Single phase and poly-phase generators, motors and switching equipment are covered. Motor theory wiring, troubleshooting, and safety will be emphasized.	$45.00
ELEC-121-01	This is a course in industrial controls which are frequently used in industry to control motors. Single and three-phase systems are covered. Industry standards and codes are presented throughout for promoting an understanding of safety and preventive maintenance. Practical experiences include wiring motor starters, reversing and motor sequencing and controlling these with different control devices and sensors.	$45.00
ELEC-130-01	This course is a course in residential wiring. The course is designed to help develop an understanding of the electrical principles involved and the physical wiring practices. The course focuses on the technical skills required to perform electrical installations, including calculating circuit size and voltage drops, ampacity, conductor/raceway sizing, service entrance requirements as well as grounding/bonding procedures.	$45.00
ELEC-131-LS	This course teaches how to calculate and bend EMT and PVC conduit up to one-inch for electrical use. Bending and threading of rigid conduit is also covered.	$45.00
ELEC-132-F1	This course provides the student a background in the reading and interpreting blueprints and wiring diagrams pertaining to single family dwellings, commercial locations, and industrial locations, special and hazardous locations as well as schematic drawings. students will be exposed to the codes and use of tables and schedules.	$45.00
ELEC-140-F1	This course covers the basic dangers and safety precautions that should be observed in an industrial or commercial workplace setting. Topics include tool and machine safety, lock out/tag out procedures, fire protection, eye safety, electrical safety, and chemical safety.	$45.00
ELEC-201-01	This course is a study of electronic instrumentation with applications to the control of the industrial processes. Topics covered include an introduction to process control, transducers, controller principles, control elements and instrumentation applications to the process control.	$45.00
ELEC-212-01	This is a course that studies programmable controller operations as used in industry. Topics include terminology, input/output relationships, processor section, programmable devices, memory and interfacing sections of the programmable controller. Ladder diagrams and programming techniques are explained along with integrated control processes, manipulation of data, wiring of devices and controller logic software/hardware troubleshooting.	$45.00
ELEC-290-ISS1	Topics pertaining to current and emerging technology in electricity will be covered. Content and format of this course are variable and may be initiated by company training needs, updates in technology in the electrical field and the need to adhere to rules such as the revisions that occur in the National Electrical Code. Subject matter will be indicated in the class schedule. The course may be repeated when topics are different. A lab fee may apply, depending on the topic.	$45.00
ELECT-103-ISF1		$10.00
ELECT-105-ISS1		$10.00
ELECT-106-ISS1		$10.00
ELECT-107-ISS1		$10.00
ELECT-108-IS		$10.00
ELECT-109-IS		$10.00
ELECT-112-ISS1		$10.00
ELECT-160-IS		$15.00
ELECT-209-ISS1		$10.00

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Course Code	Course Description	Fees
EMS-101-01	Care, handling, and extrication of the critically ill and injured is taught. Emphasis is on the development of student skills in recognition of symptoms of illnesses and injuries, and proper emergency care and procedures. Subjects covered include the human body, cardiac arrest, resuscitation, fractures, injuries, childbirth, lifting and moving patients, and extrication from automobiles.	$65.00
FRESP-101-F1	This course provides students with the knowledge and skills necessary in an emergency to sustain life, reduce pain, and minimize the consequences of injury or of sudden illness until advanced medical help can arrive.	$25.00
FST-119-01	This course equips students with basic knowledge and skills in areas such as fire behavior, equipment use, firefighter safety, rescue, and prevention. After successful completion of this course, students are eligible to write the State Fire Marshal Certification Exam. This program meets National Fire Protection Association (NFPA)	$50.00
GC-115-01	This studio course introduces students to the history and use of computer applications in the visual arts. Students learn to generate, combine, and manipulate traditional and contemporary visual ideas using both raster paint/photo retouching programs and professional quality vector drawing programs. (same as ART 115)	$35.00
GC-151-LS	Students are introduced to theoretical and practical aspects of visual communication. Techniques, processes, and terminology of graphic design are covered.	$35.00
GC-154-ISLS	This course investigates the effective use of type in visual design. Students experiment with the creation of original fonts using digital applications along with some traditional methods.	$20.00
GEOLO-101-01	Physical geology is a general education course which introduces basic geologic principles. It examines processes that have shaped the Earth including plate tectonics, earthquakes, volcanoes, mountain building, minerals, rocks, water, and glaciers. Laboratory work and field trips emphasize these topics and the scientific method.	$30.00
HVAC-120-LS	This course will cover the basic principles and theory of refrigeration. Focus will be placed on the basic refrigeration cycle, system components, metering devices, compressors and their application. Emphasis is placed on safe and efficient use of tools and brazing techniques	$45.00
HVAC-121-LS	This course provides a simple understanding of air conditioning fundamentals, applications, and terminology. Students will learn the required skills necessary to charge and recover refrigerant while working on air conditioning equipment in the lab.	$45.00
HVAC-122-01	This course provides an introduction to gas heating equipment which includes: theory of gas combustion, venting, operation and efficiency of heating units. Students will develop the required skills necessary to safely service various types of gas-fired heating systems.	$45.00
HVAC-123-01	This course covers electrical theory as it applies to servicing and installing air conditioning and heating equipment. Emphasis will be placed on electrical safety, electronic testing equipment on low and high voltage components, and electrical circuits.	$45.00
HVAC-124-LS	This course introduces sheet metal design and fabrication. Basic fitting, seams, edges, elbows and ducts will be fabricated in the lab with the use of hand and machine tools.	$45.00
HVAC-125-01	This course covers the installation, diagnosis, and servicing of electrical systems used in split residential and small commercial heating and air conditioning systems. Students will develop safe electrical troubleshooting practices and procedures.	$45.00
HVAC-127-IS	This course is designed to build student confidence in troubleshooting mechanical and electrical problems in heating, air conditioning systems, and motor control circuits. Students will learn troubleshooting techniques using simulators, computer-generated simulators, and actual heating and air conditioning equipment.	$45.00
HVAC-128-01	This course covers the proper procedures used during the installation and servicing of residential and commercial air conditioning, heating, and refrigeration equipment. Emphasis will be placed on weekly examinations on how to diagnose both electrical and mechanical service problems.	$45.00
HYDR-101-F1	This is a general course covering the basic components of hydraulic systems, and the basic laws and formulas involved in simple fluid power calculations. Topics include pumps, control valves, actuators, the use of ASAIS symbols, and maintenance procedures.	$10.00
HYDR-103-S1	This course provides a study of the various controls used in fluid power. Topics covered: pressure and volume theory, operation and construction of valves, and circuit applications. Also covered are valves and their assemblies, the relief, pressure reducing sequence, counterbalance, brake, volume and control and directional, in addition to various types of valve controls.	$10.00
HYDR-106-F1IS	This course offers a study of fundamental pneumatic principles, gas laws, calculations, ASAIS symbols and terminology. Also considered are the way air is compressed, the compressed air system, controlling pneumatic power, and the introduction of fluidics.	$10.00
IT-101-HYB1	This course enables students to analyze the field of information technology. The class will include a survey of IT professions, employment skills, definitions, current issues, salaries, and self-assessment survey of skills and competencies. This course will meet three times during the semester. Online course work is required. Students also will be required to create a student plan based on the degree and program requirements for the IT programs at Prairie State College. This is a co-requisite course taken prior to or in conjunction with the initial IT entry core	$10.00
IT-140-HYB1	This course describes the purpose of operating systems and how they work from a business, personal, and PC support perspective. This course provides hands-on experience in file maintenance, configurations, Windows customization, file systems, basic trouble-shooting, and running applications with Windows operating systems. Other operating systems (command prompt, Linux, and networking) are reviewed, compared and discussed.	$10.00
IT-240-01	This course provides an in-depth study of and hands-on experience with the primary functions of the Linux operating system. The major essential command-line commands, as well as use of the graphical user interface are covered. This course provides theoretical and practical concepts including file systems, elementary shell scripting, and other end-use knowledge necessary to move to the next level of basic system administration. Basic administrative tasks that are necessary for maintaining a working system are explored.	$10.00
ITAPP-101-01	This course provides an overview of current computer technology and trends. Topics include computer terminology, hardware, application software, networks, and the Internet. Students are also introduced to the latest business software - word processing, spreadsheets, database management, and presentation graphics.	$10.00

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ITAPP-125-IN	This course teaches students to use the latest spreadsheet software. Topics covered include creating and editing worksheets, creating formulas and functions, maintaining and enhancing worksheets and workbooks, and creating charts.	$10.00
ITAPP-128-IN	This course provides hands-on experience with the most current and widely used database software. Topics covered include creating and editing database files, queries, and forms; grouping data for reports; indexing; creating labels and menu structures; importing and exporting data.	$10.00
ITNET-160-LS	This course is an introduction to personal computer upgrades, maintenance, and repair. Topics include computer hardware, software, operating systems, troubleshooting, and how to fix, upgrade, and build a computer. This course covers the latest technologies and objectives of the CompTIA A+ certification exams.	$10.00
ITNET-165-F1	This course covers the skills and concepts needed to configure and operate a variety of networking products, including a wide range of vendor and product neutral networking technologies. Topics include networking theory, protocols, connectivity devices, Internet addressing, internetworking servers, security, and troubleshooting. Successful completion prepares students to pass CompTIA's entry-level networking certification exam.	$10.00
ITNET-175-S1	This class provides a hands-on learning experience in managing, supporting, troubleshooting and optimizing an organization's network infrastructure. This class introduces the installation, configuration and management of network switches and routers. Students will compare, contrast and troubleshoot different routing and switching protocols and services. The class will provide an overview of command and graphical interfaces used to access and configure network devices. Successful completion prepares students to pass Cisco's entry-level networking certification exam (CCENT).	$10.00
ITNET-260-01	This course covers the fundamentals of network security including communication security, infrastructure security, cryptography, access control, authentication, external attack, and operational and organization security. Successful completion prepares students for the CompTIA Security+ certification exam.	$10.00
ITPRG-103-01	This course introduces structured programming logic and includes reports, control breaks, extracts, tables, input validation, updates, and file handling concepts. Standard logic charts include flowcharting, pseudo-code, and other charting methods. Solutions to programming projects are in QuickBasic and Visual Basic.	$10.00
ITPRG-144-LS	This course provides an introduction to the capabilities of the C++ programming language. Topics covered include variables, operators, control structures, input and output, functions, simple data types, arrays, and strings.	$10.00
ITPRG-171-01	This course introduces students to basic game theory (including game play and strategy) as well as the historical development of all types of games. Games used for education, training, and entertainment are explored. Strong focus is on the design process, from developing a basic concept, to selling the proposal, to production and	$10.00
ITPRG-247-LS	This course is a continuation of ITPRG 147 and provides broader JAVA programming concepts. Object oriented programming concepts are covered as they apply to building event-driven JAVA applets, stand-alone JAVA programs, and GUI programming.	$10.00
ITWEB-101-01	This course is for students interested in developing specific Internet skills as a Web designer, developer or administrator. Topics include Internet fundamentals, Web page authoring with XHTML and CSS, and networking concepts. Successful completion prepares students to pass exams leading to various Certified Internet Webmaster (CIW) credentials. Please visit prairiestate.edu for the most current, updated catalog information	$10.00
MATH-090-01	This is a course in elementary algebra. Topics covered include linear equations and inequalities, graphs of linear equations, polynomials, factoring, rational expressions, and rational equations. Problem solving is emphasized throughout the course	$10.00
MATH-091-01	Mathematical Literacy is a one semester course for those whose major does not require a math class higher than General Education Math (MATH 112) or General Education Statistics (MATH 115). The course will integrate numeracy, proportional reasoning, algebraic reasoning, and an understanding of functions. Students will develop conceptual and procedural tools that support the use of key mathematical concepts in a variety of contexts. Throughout the course, college readiness content will be integrated with mathematical topics. Students in majors needing other college-level math courses such as MATH 151 need to take MATH 095 and any of its required prerequisites instead of this course.	$10.00
MATH-091-02	Mathematical Literacy is a one semester course for those whose major does not require a math class higher than General Education Math (MATH 112) or General Education Statistics (MATH 115). The course will integrate numeracy, proportional reasoning, algebraic reasoning, and an understanding of functions. Students will develop conceptual and procedural tools that support the use of key mathematical concepts in a variety of contexts. Throughout the course, college readiness content will be integrated with mathematical topics. Students in majors needing other college-level math courses such as MATH 151 need to take MATH 095 and any of its required prerequisites instead of this course.	$10.00
MATH-095-01	This is a course in intermediate algebra. It is a prerequisite for transferable college mathematics courses. Topics covered include functions and graphs, systems of linear equations, one- and two-variable inequalities, roots and radicals, complex numbers, and quadratic equations. Emphasis is placed on the development of algebraic skills.	$10.00
MATH-151-01	This course extends on the concepts previously studied in intermediate Algebra. Course material is approached both algebraically and graphically. The graphing calculator is used extensively. Topics covered include linear, quadratic, polynomial, rational, exponential, and logarithmic functions and their applications.	$10.00
MILL-101-F1	This course teaches reading and use of micrometers, vernier calipers, dial indicators, and other measuring tools. Other topics include hand and power tools used by the millwright, fastener identification, layout and drilling operations, as well as reaming and taping drilled holes.	$20.00
MILL-102-S1	This course covers the installation of machinery coupled with the principles of steel construction. Also covered are friction bearings, non-friction bearings, couplings, gearing, and reduction build-up.	$20.00
MILL-106-F1IS	This course introduces the installation and alignment of component parts found in industrial equipment and machinery. Topics include the mounting of bearings, gearings, couplings, pulley clutches, and belts. Conveyors and chaindrives are also covered. Equipment and coaxial alignment are stressed.	$20.00
MILL-107-S1IS	This course provides industrial maintenance technicians with an understanding of vibration analysis, rotating machine monitoring techniques, data collection, and analysis techniques.	$20.00

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Course Code	Course Description	Fees
MT-101-01	This course provides an exploration of the basics in machining, raw materials, use of hand tools, safety, and maintenance. Topics include an overview of measurement techniques, materials, safety, machine tool math, quality control, and maintenance. Teamwork, critical thinking, and problem solving are emphasized. Hands-on experience and practical applications are included.	$60.00
MT-102-01	This course provides an exploration of the basics of hand tools, understanding drawings, manual machines, and layout. Upon completion of this course the student will be able to interpret drawing information, describe basic symbols and notation, and interpret basic GD & T feature control frames. Teamwork, critical thinking, and problem solving are emphasized. Hands-on experience and practical applications are included.	$60.00
MT-105-01	This course provides students with information on horizontal milling, boring, drilling machines, and their operations. Coursework consists of lectures and demonstrations on the construction of the different types of horizontal machines, the type of work done, the workpiece setup, the tools used and safety practices.	$60.00
MT-210-01	This course introduces students to basic milling operations. Upon completion of this course, the student will have an understanding of manual and CNC milling practices and will have gained knowledge in tooling, machining practices, and applied mathematics. Teamwork, critical thinking, and problem solving are emphasized. Hands-on experience and practical applications are included.	$60.00
MT-211-01	This course introduces students to basic lathe operations. Upon completion of this course, students will have an understanding of manual and CNC lathe turning practices and wil have gained knowledge in tooling, machining practices, and applied mathematics. Teamwork, critical thinking, and problem solving are emphasized. Hands-on experience and practical applications are included.	$60.00
MT-214-IS	This course introduces students to the relationship, use, and operations of CAD and CAM systems to generate CNC programs. Students learn to create CAD files for use with a CAM system; to use a CAM system to create geometry, tooling, and post-processor files; and to transmit CAM-generated programs to CNC equipment.	$60.00
MT-215-IS	This course covers the identification, operation, and application of both basic industrial processes and various systems that can be integrated into a computer integrated manufacturing system (CIM). These include CNC, CAD, CAM, and robotics. Students design, program, and implement workcells that include material handling, manufacturing and assembly operations. Emphasis is placed on fully automated production system design and	$40.00
MUSIC-176-01	This course provides students hands-on training in recording audio of music and sound. Microphone types and set-up, mixing board set-up and management, room acoustics evaluation, sound isolation, and post-production techniques are covered.	$30.00
MUSIC-176-FX	This course provides students hands-on training in recording audio of music and sound. Microphone types and set-up, mixing board set-up and management, room acoustics evaluation, sound isolation, and post-production techniques are covered.	$30.00
MUSIC-181-FXA	Private instruction in voice or an instrument is provided for students who are not music majors. Students meet weekly with the instructor for a half-hour lesson emphasizing technique, reading skills and repertoires. Instruction is offered in voice, piano, brass, woodwinds, strings, percussion, organ, bass, or guitar. (may be repeated 3 times)	$220.00
MUSIC-182-FXA	Continued private instruction in voice or an instrument is provided for students who are not music majors. Students meet weekly with the instructor for a half-hour lesson emphasizing technique, reading skills and repertoires. Instruction is offered in voice, piano, brass, woodwinds, strings, percussion, organ, bass, or guitar. (may be repeated 3 times)	$220.00
MUSIC-191-FXA	Private instruction is provided in voice or an instrument, emphasizing techniques, performance, and pedagogical fundamentals. Students who plan to transfer to an upper-division program as music majors are required to enroll each semester in a selected area of performance concentration. Instruction is offered in voice, piano, brass, woodwinds, strings, percussion, organ, bass, or guitar. (may be repeated 3 times)	$440.00
MUSIC-192-FXA	Continued private instruction in voice or an instrument, emphasizing techniques, performance, and pedagogical fundamentals. Students who plan to transfer to an upper-division program as music majors are required to enroll each semester in a selected area of performance concentration. (may be repeated 3 times)	$440.00
MUSIC-291-FXA	Continued private instruction in voice or an instrument, emphasizing techniques, performance, and pedagogical fundamentals. Students who plan to transfer to an upper-division program as music majors are required to enroll each semester in a selected area of performance concentration. Instruction is offered in voice, piano, brass, woodwinds, strings, percussion, organ, bass, or guitar. (may be repeated 3 times)	$440.00
MUSIC-292-FXD	Continued private instruction in voice or an instrument, emphasizing techniques, performance, and pedagogical fundamentals. Students who plan to transfer to an upper-division program as music majors are required to enroll each semester in a selected area of performance concentration. (may be repeated 3 times)	$440.00
NURS-100-AA	This course teaches the basic nursing skills necessary to become a nursing assistant. Students are led from the integrated roles of the health care team to the specific duties of the nursing assistant and the skills necessary to give basic patient care and to deal with families.	$40.00
NURS-101-01	This theoretical and clinical course is course designed to assist the student in understanding concepts necessary to provide evidence-based, patient-centered care. Concepts include: communication, culture, development, palliation, safety, mobility, hygiene, perfusion, nutrition, gas exchange, and elimination. Emphasis is placed on developing intrapersonal and interpersonal communication skills while utilizing the nursing process to optimize health and wellness and differentiate the normal from the abnormal.	$95.00

Please note that some fees are subject to change

Lab Fees as of FA18 Term

Course Code	Course Description	Fees
NURS-201-01	This theoretical and clinical course focuses on theories and concepts related to communication problems, the expanding family, and microbial defense. Concepts include care of children from birth through adolescence, the effects of illness on growth and development, safety, health promotion, and disease prevention. Patient and family-centered care based on evidence-based recommendations is emphasized. Other topics include use of data related to patient care outcomes to evaluate and improve quality and safety of nursing care, collaboration, evaluating the risk of harm to patients, and compliance with the legal, ethical, and moral standards of nursing.	$95.00
PE-101-01	This course is designed to assist individuals in establishing a foundation for personal fitness. Students are administered basic fitness assessment and engage in a structured exercise program utilizing flexibility, strength, and cardiovascular efficiency. May be repeated three more times for credit.	$20.00
PE-102-01	A continuation of PE 101, this course is designed to assist students in achieving an intermediate level of fitness. Students are administered fitness assessments to determine progress in the areas of flexibility, strength and cardiovascular efficiency.	$20.00
PE-103-01	A continuation of PE 102, this course is designed to assist students in achieving a high level of fitness. Special emphasis is placed on maintaining target heart rate levels in order to determine further personal cardiovascular efficiency. Students are administered fitness assessments to determine personal progress.	$20.00
PE-104-01	A continuation of PE 103, this course is designed to assist students in maintaining a high level of fitness. Students achieve a basic understanding of the impact of increased duration, frequency, and intensity levels in regard to enhancing physiological performance.	$20.00
PE-105-01	This course assists individuals to improve strengthening, toning, and cardiovascular system through walking, Pilates, or yoga. (may be repeated 3 times)	$20.00
PE-106-01	This course assists individuals to improve cardiovascular conditioning through step aerobics, kickboxing or low-impact aerobics. Strengthening and toning exercises are also introduced. (may be repeated 3 times)	$20.00
PE-107-01	This course assists individuals to improve their cardiovascular conditioning through aqua aerobics. Strengthening and toning exercises are also introduced in the swimming pool environment. (may be repeated 3 times)	$20.00
PE-108-01	This course assists individuals desiring a higher level of intensity with choreography. This is accomplished through boot camp style, indoor cycling, or dance aerobics. Strengthening and toning exercises will also be introduced. (may be repeated 3 times)	$20.00
PE-151-S1	This course teaches the basic rules of basketball, playing court dimensions, and equipment needed. Fundamentals of passing, dribbling, shooting, rebounding, individual offense, and defense are emphasized.	$20.00
PE-162-S1	This course teaches students the basic skills and rules associated with the game of volleyball. Skills covering overhead passing, forearm passing, serving, spiking, and blocking are explored. Practice games are conducted to emphasize each skill.	$20.00
PE-163-F1	Examine rules and various skills associated with the game of golf. Techniques and skills such as proper grip, stance, swing, pitch, chip, sand shots, putting, and a variety of golf exercises are explored.	$20.00
PES-299-01	This course is designed to provide real-world experience. Students are supervised in Fitness Center arranged by the program coordinator.	$229.00
PHOTO-171-01	This course investigates the principles of photography. Students learn camera controls and apply the methods of photography and print techniques. The course explores the medium through a series of visual problems and emphasizes photography as a means of personal expression.	$40.00
PHOTO-175-LS	Students in this course are introduced to the mechanics of photographic lighting. It explores the following topics: application and practice of proper metering, studio set up, lighting adjustment, storage of equipment, and use of various accessories.	$40.00
PHOTO-268-01	This course investigates the principles and practices of event and wedding photography.	$40.00
PHOTO-276-01	This course concentrates on camera and lighting techniques used in the creation of product photography. It addresses the use of high-resolution digital camera equipment, tabletop setups, and studio lighting for the production of catalog, advertising, and special effects photography.	$40.00
PHOTO-286-IS	This course encourages individual exploration of a personal visual direction or idea with emphasis on the fine art approach to photography. A proposal outline and complete portfolio are required of each participant.	$40.00
PHOTO-292-S1IS	This advanced course explores a variety of specific subjects in a concentrated format. This course is repeatable (three times) for credit. (may be repeated 3 times for credit with different topics)	$40.00
PHYSC-111-01	This is an introductory lab course focusing on everyday experiences in physics, chemistry, and climate change. Basic ideas of motion, matter, and energy are explored and related to climate change and the importance of scientific discoveries to our society.	$30.00
PHYSC-112-01	Earth Science is a general education course which surveys topics in geology, meteorology and environmental science. The geology portion includes rocks, streams, glaciers, earthquakes, plate tectonics, volcanism, and mountain building. The meteorology portion focuses on the atmosphere, weather and climate. Man's influence on our environment is emphasized.	$30.00
PHYSI-101-01	This course is a one semester conceptual study of the major topics and concepts of physics. Topics include description of motion, Newton's laws of motion and universal gravitational law, the planets and Kepler's laws, energy, impulse and momentum, fluid mechanics, temperature, heat and laws of thermodynamics, electricity and magnetism, wave motion, sound waves and acoustic music, EM waves and optics, introduction to modern physics and cosmology, and solid-state physics.	$15.00
PHYSI-120-01		$17.00
PHYSI-210-01	University Physics I is the first course in a three-semester calculus-based sequence designed for pre-engineering, science, and mathematics majors. Topics include measurement and vectors, motion in one dimension, motion in two and three dimensions, Newton's laws of motion and applications of Newton's laws, work and kinetic energy, conservation of energy and momentum, rotation and angular momentum, gravity, static equilibrium and elasticity, fluid mechanics, and oscillations.	$18.00
PIPE-101-F1	This course covers the specifications, applications and maintenance of pipes, fittings and valves; simple pipe calculations and template development; tools used in piping; proper valve installation and maintenance; and consideration of safe working pressures of pipes and valves are covered.	$6.00

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Lab Fees as of FA18 Term

Course Code	Course Description	Fees
PIPE-102-S1	This course is designed to acquaint students with the proper materials for sewer, soil, vent, and waste pipes; principles of drainage flow and proper venting; traps and installation of unit sanitation equipment, and joints and fittings used on drainage systems.	$6.00
SRT-110-F1	The basic concepts and principles for developing skill competencies required to assist in surgery are covered beginning with the health care system and continuing with specifics of the surgical area. Microbiology and asepsis are stressed.	$100.00
SRT-120-S1	Basic surgical procedures including the pre-operative, intraoperative, and post-operative phases commonly performed in the operating room setting are covered. Emphasis is on general/ rectal surgery, obstetrical/gynecological surgery, and genito-urinary surgery.	$70.00
WELD-115-01	This course teaches procedures and techniques in arc and oxyacetylene welding. Topics include health, safety, and environmental practices, welding terminology, arc and oxyacetylene welding equipment, proper welding procedures for arc and oxyacetylene, arc and oxyacetylene steel welding, welding machines and polarities, filler metal identification, welding positions, and oxyacetylene cutting.	$65.00
WELD-215-01	Principles and techniques of joining metals with an electric arc as the source; includes arc welding uses, safety, techniques, flame cutting, joint design, welding costs, electric currents and power sources, carbon arc cutting, filler metal selection, hard facing, and metal identification. Procedures and techniques in Gas Metal Arc Welding (GMAW) and Flux Core Arc Welding (FCAW) processes. Includes health, safety, and environmental practices, welding terminology, GMAW and FCAW processes and equipment, equipment operation and welding techniques, power source and wire feed types and controls, welding currents and polarities, welding wires in GMAW and FCAW processes, shielding gases, and mild steel and aluminum welding.	$65.00
WELD-265-01	Procedures and techniques in the Gas Tungsten Arc Welding (GTAW) process. Includes health, safety, and environmental practices, welding terminology, GTAW process and equipment, equipment operation and techniques, power source types and controls, welding currents and polarities, tungsten electrodes, shielding gases, mild steel welding, aluminum welding, stainless steel welding, and GTAW certification. Principles and techniques of pipe welding. Includes introduction to pipe layout and drawing equipment. Also includes an introduction to performance testing, types of pipe, methods. and preparation of pipe joints and miter joints, methods of joining pipe and miter	$65.00

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