

A photograph of a young woman with long, wavy blonde hair, smiling and looking upwards. She is wearing a black graduation cap with a red tassel and a black graduation gown with a bright orange stole. She is holding a red diploma folder. The background is dark and out of focus, showing other graduates in purple gowns.

**Jefferson  
Community  
College  
2007-2008  
Catalog**



## WELCOME!

Welcome to Jefferson Community College – the college of choice for over 36,300 students since 1968.

JCC continues to offer learning choices for students in all walks of life – degree seekers, career climbers, knowledge seekers. We have degrees, certificates, programs and courses to prepare you to transfer to a four-year institution, to ready you to enter the workforce immediately, to enrich your life and to broaden your horizon. In addition to the standard transfer degrees of Associate of Arts and Associate of Science, JCC offers dozens of programs in business, engineering and information technologies, health and biological sciences, and public services.

Credit classes and programs are supplemented by noncredit programs for local businesses training their staffs, for employees seeking advancement, for residents pursuing an avocation and for youth looking for improvement.

JCC also provides enrichment for residents seeking cultural events or a convenient place to hold a meeting or workshop.

Most of all, JCC's faculty and staff lend a helping and guiding hand to all students and residents seeking knowledge, guidance, and service. Our mission is to be student-centered, community-connected, and future-focused.

JCC gives residents many choices – make yours today!

## COLLEGE CALENDAR

### FALL SEMESTER 2007

August 27	Classes begin
August 27-31	Late Registration
September 3	Labor Day -- no classes
October 15-20	Mid-term
October 17	Employee Development Workshop -- no classes
November 2	Last day to withdraw from regularly scheduled classes
November 12	Veterans Day -- college closed
November 22-24	Thanksgiving Recess -- no classes
December 8	Last day of classes
December 10-15	Final examinations

### SPRING SEMESTER 2008

January 14	Classes begin
January 14-18	Late Registration
January 21	Martin Luther King Day -- college closed
February 15	President's Day - college closed
February 25-March 1	Mid-term
March 3-8	Spring Break -- no classes
March 20	Last day to withdraw from regularly scheduled classes
March 21	Spring Holiday -- college closed
May 3	Last day of classes
May 5-10	Final examinations
May 17	Commencement

### SUMMER TERM 2008

#### SUMMER SESSIONS I & II -- FIVE WEEKS EACH

#### SUMMER SESSION III -- TEN WEEKS

May 26	Memorial Day -- college closed
May 27	Classes begin for Sessions I and III
May 27-28	Late Registration for Sessions I and III
June 17	Last day to withdraw from classes for Session I
June 26-28	Final examinations for Session I
June 30	Classes begin for Session II
June 30	Late Registration for Session II
July 4	Independence Day -- college closed
July 11	Last day to withdraw from classes for Session III
July 22	Last day to withdraw from classes for Session II
July 31-August 2	Final examinations for Sessions II and III

Registration dates for all sessions are listed on the course schedule and at [www.jcc.edu](http://www.jcc.edu)

# JEFFERSON COMMUNITY COLLEGE

4000 SUNSET BOULEVARD STEUBENVILLE, OHIO 43952 (740) 264-5591 OR 1-800-68-COLLEGE

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## THE CATALOG PURPOSE

While this catalog is intended to be a fair summary of certain matters of interest to students, its readers should be aware (1) that this catalog is not intended to be a complete statement of all procedures, policies, rules, and regulations by which the college is operated, (2) that the college reserves the right to change without notice any academic or other requirements, course offerings, course contents, which may be contained in this catalog, and (3) that departmental procedures, policies, rules, and regulations, whether or not contained in this catalog, may be applicable to students in those departments. All policies, procedures, rules, and regulations mentioned herein are available for public inspection. ALL STATEMENTS IN THIS PUBLICATION ARE NOT TO BE REGARDED AS OFFERS TO CONTRACT.

A student is responsible for meeting all requirements for graduation. A student's advisor may assist in planning programs, but the final responsibility for meeting graduation requirements rests with each student. In addition, students planning to transfer to another institution have the sole responsibility to determine that their course of study at the college will qualify for such transfer.

Jefferson Community College does not discriminate on the basis of race, color, religion, sex, national origin, age, ancestry, or nonperformance related disabilities in the admission of students, employment of individuals, or in activities conducted by the college. The following person has been designated to handle inquiries regarding the non-discrimination policies: James Morgan, vice president for administrative services, Title IX and Section 504 coordinator,

Office 2625, 4000 Sunset Blvd., Steubenville, Ohio 43952, 740-264-5591, ext. 119, jmorgan@jcc.edu. The following person has been designated to handle inquiries regarding students with disabilities: Ella Paulman, director of Learning Skills Lab, Section 504 Student Manager, Office 3305, 4000 Sunset Blvd., Steubenville, Ohio 43952, 740-264-5591, ext. 214, epaulman@jcc.edu.

Jefferson Community College is an equal opportunity institution.

Student complaints/appeals about the application or misapplication of any policy or procedure contained in this catalog, including equal opportunity and sexual harassment, should be processed according to the procedures found in this catalog and/or contained in a separate student handbook provided in some programs.

Complainants are advised that, where practical, an attempt to resolve problems and concerns informally prior to submission of a formal appeal is recommended or required.

### Sexual Harassment Policy

In accordance with Equal Employment Opportunity Commission (EEOC) guidelines and Title VII of the Civil Rights Act of 1964, conduct creating an intimidating, hostile, or offensive working environment will not be tolerated. It is the policy of the college that sexual harassment or other offensive behavior as defined by the EEOC, will not be tolerated at any time while on college property by employees, vendors, students, or the Board of Trustees.

## GENERAL INFORMATION

### HISTORY

On October 29, 1965, the Battelle Memorial Institute of Columbus, Ohio, completed a survey financed jointly by the Jefferson County commissioners and the Steubenville Area Development Council to determine area needs for training and education. The Battelle findings indicated a definite need for post-high school technical education, prompting the creation of the Jefferson County Technical Institute District. The institute was chartered for operation on September 16, 1966, as a public two-year institute by the Ohio Board of Regents, and a Board of Trustees was appointed in compliance with Chapter 3357 of the Ohio Revised Code. Area acceptance and support for the technical institute was confirmed in fall 1966, when Jefferson County voters approved a one mill, 10-year levy to assist in the support of the facility.

An 84.7-acre tract of land in the northwest section of Steubenville, Ohio, was obtained by the trustees and construction of the building began in October 1967. Less than one year later, on September 23, 1968, the doors opened to admit the initial class of 320 students. Phase II of the campus building program, providing a second floor on the library, a nursing skills laboratory, student lounges, classrooms, and expanded parking lots, was completed in early 1972. In 1976, Phase III construction doubled the space in the lecture hall, increasing the capacity to over 300 students.

In 1976 and 1986, Jefferson County voters approved 10-year renewals of the one mill levy. The Ohio Board of Regents approved a name change for the institute to Jefferson Technical College in 1977.

In fall 1978, Phase IV was completed, providing three outdoor tennis courts and two outdoor basketball courts.

Phase V was completed in winter 1983. The health wing addition and room renovation provided the college with three new labs, two classrooms, and six faculty offices. The computer center was remodeled to accommodate a new computer. In addition, space was converted to the individualized industrial

engineering lab.

Phase VI was completed in early 1989 and includes three computer labs, a business/industry conference room and computer services facilities.

Phase VII was completed in fall 1993 with renovations to existing offices, construction of new offices and workspace, and the conversion of a large open court area into a fully enclosed year-round student lounge.

In 1992, the Board of Trustees empowered a citizens committee to study the idea of converting the college to a community college. The committee proposed the change in June 1993. In October 1993, the Ohio attorney general determined that the college could transfer the local levy to a community college operation. In September 1994, the Ohio Board of Regents approved a request from Jefferson Technical College to expand its charter from technical to community college. In February 1995, the Ohio Board of Regents approved a five-year operation plan and the North Central Association approved the change in the Colleges Statement of Affiliation status to include the Associate of Arts and Associate of Science degrees. On July 1, 1995, Jefferson Community College began officially serving the public.

In March 1996, Jefferson County residents voted to replace the one mill technical college levy with a one mill levy to operate the community college for 10 years.

Phase VIII was completed in August 1996. In addition to repairing the first floor of the health wing, a second floor was added. This floor contains one classroom, four labs, and nine faculty offices.

In 2004, JCC acquired a vacated business structure adjacent to the main campus. Following renovation of the first floor, the Department of Workforce and Community Outreach moved into the the training center in 2005. The department offers training classes in two computer labs and four classrooms. In addition to office space, there are a

kitchenette and work areas.

Since 1968, 36,320 different students have enrolled in one or more classes for credit applicable to a higher education degree or certificate.

### MISSION

**Jefferson Community College is an institution that is student-centered, community-connected, future-focused.**

The mission of Jefferson Community College is to provide a center of learning that enriches lives, connects with students, promotes diversity, builds community, and educates for tomorrow through **career, transfer, workforce, and community education programs.**

The college accomplishes this mission by offering each student the following opportunities which collectively provide enrichment, diversity, community experience, and a focus on the future through teaching excellence, community partnerships, life-long learning programs, and community outreach.

**1. Career-oriented** programs at the pre-baccalaureate degree level are the applied associate degrees and certificate-level technical education and training programs offered in business, engineering, health, education, and public service technologies.

**2. Pre-baccalaureate transfer-oriented** programs and courses lead to Associate of Arts Degrees that align with a variety of majors, an Associate of Science Degree, and the completion of the Ohio Transfer Module (OTM) and/or the Transfer Assurance Guides (TAGS). Both the Ohio Transfer Module and the courses listed in the Transfer Assurance Guides for various majors are or will be mandated transfer to all Ohio public institutions of higher learning.

**3. Workforce programs** provide contracted or open enrollment credit/non-credit training that fall outside the traditional college calendar for the emerging, incumbent, and/or transitional workforce. These programs respond to today's global marketplace, rapidly

based, transferable skills. These programs provide opportunities for the upgrading, retraining, and continuing education of individuals possessing the associate degree, certificate-level technical skills, and/or other externally obtained degrees or knowledge based on general education studies and other life experiences.

**4. Community-oriented programs** meet the personal enrichment needs of the community and service area residents, and are offered through a number of credit and noncredit courses. The courses are often designed specifically to meet requests made by the constituents of the service area, advisory committees, and/or the surveyed community as a whole.

## CORE VALUES AND GUIDING PRINCIPLES

In carrying out its mission, Jefferson Community College will manifest the following core values:

- Affordable and Accessible Programs and Services
- Teaching and Learning Excellence
- Quality Service
- Openness to Change and Innovation
- Respect for Diversity
- Ethical and Accountable Behavior
- Friendly Atmosphere and Promotion of Healthy Lifestyles

The strategic planning of Jefferson Community College will be guided by the following principles:

- Expand educational and training opportunities by responding to the needs of the surrounding communities
- Initiate and communicate new ideas and programs to the surrounding community in such a way as to encourage growth in learning
- Create an accessible and nurturing environment that promotes wellness and learning
- Effectively manage available resources to provide successful community service now and into the future
- Assure diversity in academic curriculum and in hiring practices
- Continuously improve the quality of student learning and support services.

## ACCREDITATION & MEMBERSHIPS

Jefferson Community College is accredited by the Commission on Institutions of Higher Learning of the North Central Association of Colleges and Schools (NCA), 30 N. LaSalle St., Suite 2400, Chicago, IL, 800-621-7440.

Jefferson County Technical Institute was initially accredited during the NCA's annual meeting on March 25, 1973. The college was reaccredited in 1976, 1981, and 1989. The college underwent a focused visit by NCA in 1994. In February 1995, the college received approval to change its College Statement of Affiliation status to become Jefferson Community College and to offer the Associate of Arts and Associate of Science Degrees. The college's student assessment plan also was approved. The college was accredited as a community college in 1997.

The college is a member of the American Association of Collegiate Registrars and Admissions Officers and has been a member of the American Association of Community Colleges since November 1971. Membership is also held in the Ohio Association of Community Colleges.

The college is a full member in the Ohio College Association, which is the association of private and state-assisted institutions of higher learning in Ohio.

Jefferson Community College is approved for veterans' training.

The Dental Assisting Certificate Program is accredited by the Commission on Dental Education, American Dental Association. The Emergency Medical Technician-Intermediate, and EMT-Paramedic courses are approved by the Ohio Department of Public Safety Services Division of EMS; the program number is 5-3-011. The JCC Medical Assisting Program is accredited by the Commission on Accreditation of Allied Health Education Programs ([www.caahep.org](http://www.caahep.org)), on recommendation of the Curriculum Review Board of the American Association of Medical Assistants Endowment (AAMAE), Commission on Accreditation of Allied Health Education Programs, 35 East Wacker Drive Suite 1970, Chicago, Ill., 60601-2208, phone 312-553-9355. The Clinical Laboratory Technician Program is accredited by the National Accrediting Agency for Clinical Laboratories Sciences (NAACLS) 8410 West Bryn Mawr Ave., Suite 670, Chicago, Ill., 60631, 773-714-8880; the program number is 034084.

The Practical Nursing Program is approved by the Ohio Board of Nursing (#20163). The Radiologic Technology Program is accredited by the Joint Review Committee on Education in Radiologic Technology (JRCERT). The program number is 0274000. The Respiratory Therapy Program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP) on recommendation of the Committee on Accreditation for Respiratory Care (COARC); the program number is 200326.

## FACILITIES

Jefferson Community College has two distinct facilities. The instructional building currently consists of approximately 160,000 square feet, housing 22 classrooms and 36 laboratories for business, engineering, health, public services, and general studies course work. The central focus of the multi-winged structure is the computer wing. In the computer wing there are three computer labs and a interactive TV classroom. There are two student lounges and faculty and administrative offices. A Preschool and bookstore are located on the lower level.

The college's Department of Workforce and Community Outreach occupies the Pugliese Training Center, adjacent to the main building. The training center contains two computer labs, four classrooms, office and work areas.

## ADMISSIONS

As a public institution of higher education, Jefferson Community College adheres to an "open door" admissions policy. Although the minimum requirement for college admission is a high school diploma, General Educational Development (GED) certificate, or completion of an approved home school program, applicants are not necessarily accepted to any course or program without adequate preparation.

Placement testing and admissions counseling are used by the Admissions Office to guide students to appropriate programs, classes, and career goals.

Details on admissions procedures and the various program requirements are available at the Admissions Office.

## CLASS SCHEDULE

Each semester the college publishes the class schedule, which is available through various sources including the web and at the college. The schedule contains course listings; dates and times of registration; exam schedules; the more pertinent guidelines; and other information of interest to the student. The schedule is subject to change.

The college reserves the right to cancel a course when the registration is not sufficient to warrant its continuance, divide a class if enrollment is too large for efficient instruction, change the time of a scheduled course or section, and/or change instructors when necessary.

## PRACTICUM EXPERIENCE

Practicum experiences, including clinical education and clinical laboratory, emphasizing observation and practice, have been established to enhance classroom instruction and laboratory practice. This concept is in operation in Business, Computer, and Office Information Technologies; Information and Engineering Technologies; Public Service programs such as education; and Health Sciences programs. Proof of health insurance may be required. Students participating in the practicum programs usually earn one credit hour for each seven clock hours/week/semester under the close supervision of practicing professionals or college faculty at cooperating agencies' locations.

## EVENING/FLEXIBLY SCHEDULED/ACCELERATED CLASSES

The evening classes offered by the college are an integral part of the majority of programs presented. The instructors, many of whom teach courses during the day, provide a quality experience for the evening students. These classes are organized so individuals from the community may obtain a degree, broaden their personal background, improve their present employment situation, or retrain for new occupational opportunities. Those individuals who desire to attend evening classes must make formal application and are responsible for meeting the matriculation and academic requirements of the college. Courses from the degree programs offered in the evening are scheduled on a rotating basis. Offices and personnel for

assistance and the college bookstore are open on specific evenings for the evening students' benefit. In addition, the college serves the community by offering courses to various groups when a need and interest are indicated. Announcement of evening courses, together with class schedules, fees, and other information are included in the class schedule. JCC also offers flexibly scheduled (or flex) classes, including late-start courses, accelerated courses, and one-credit five-week courses to accommodate students with unusual schedules. Listings for the non-traditionally scheduled courses and late-added courses may be found on the JCC web site at [www.jcc.edu](http://www.jcc.edu), in the printed schedule, on fliers, and by calling the HOST Center.

Some associate degrees and certificates may be attained by attending **only** evening classes. Students are advised to consult with a HOST Center advisor about the availability of the programs for evening study.

## CREDIT FOR LIFE EXPERIENCE

Jefferson Community College now awards credit for verified learning resulting from prior experience. This credit can be awarded when the learning is college equivalent, possessing value in and of itself and contributing to the personal career development of the learner in the concentration identified in the degree approval. This includes training classes and courses taken at non-accredited technical institutions. The advisor or faculty member helps the student to identify the learning outcomes of the experience in order to ascertain how well these outcomes match those of a particular course or program at JCC. If it is determined that 70% of the learning outcomes can be directly linked to an existing course, JCC course credit may be granted upon the presentation of a portfolio documenting the work that the student has done and/or relevant training coursework. If the learning is not closely allied to an existing course but is significant value and of college level, special topics credit may be granted. The dean, faculty members, and/or advisors of the student will make this decision based on the student's documented evidence of the learning experience. Students will be strongly advised to take the portfolio courses offered at JCC to help them more effectively present their

documentation to deans, faculty, and advisors.

A student applying for credit for life experience has several options. The credit awarded may be applied to the student's chosen degree program at JCC, or students may choose to enroll in one of two specialized degree programs for adults with varied experiences and education. The Associate of Technical Study Type B degree awards a degree to a student in a technical major not covered by current programs at JCC. The Associate of Individualized Study degree is a program designed to award a degree to a student in a specialized area not already covered in JCC degree programs or by the Associate of Technical Study Type B degree. (See page 9 in the catalog for a fuller explanation of these degree programs.) Both degrees are awarded for the satisfactory completion of a minimum of 60 semester credit hours in an individually planned program, which may include credits awarded by the college for courses completed or training received by a student at other post-secondary institutions, vocational centers and/or other education enterprises judged by the institution to be of college level and credit given for life experience.

For the application procedure prior to completion of 12 semester credit hours, an application form outlining the area of concentration and designating course areas for further study must be approved and signed by the appropriate dean. The student's individual curriculum must contain the designated minimums for technical studies (when applicable) and the general education courses applicable to that degree program or that designated for the Associate of Individualized Study or Associate of Technical Study (Type B).

If approved for an Associate of Technical Study Degree (Type B), Associate of Individualized Study degree, or for any other degree program at JCC, the candidate must complete no less than 18 semester credit hours of course work under the supervision at JCC.

A maximum of 42 credit hours can be recognized by JCC for course work and/or training completed in other public, private, or proprietary post-secondary institutions, vocational centers, and/or schools conducted by business and industry, credit-for-life experience prior to the declaration of candidacy for either the Associate of Individualized Study or the Associate of Technical Study degrees.

## ACADEMIC DEGREES

Jefferson Community College grants the Associate of Arts (AA) and Associate of Science (AS) degrees. The *Associate of Arts (AA)* parallels the first two years of a traditional university liberal arts degree. It provides the student seeking transfer to a four-year college or university with the lower-division courses generally required by the four-year institution. It provides an excellent academic background and will permit a student to select a major course of study in the arts or business. The *Associate of Science (AS)* parallels the first two years of a traditional university general professional degree with the first two lower-division year courses preparing the student to be able to select a major in science, business, engineering or technology. In addition to the general AA and AS degrees, the College has developed specialized AA degrees: the *Associate of Arts with English, Communications or Psychology concentrations*; *Associate of Arts: Educational Paraprofessional and Education Transfer*; *Associate of Arts: Business Administration Transfer*; and *Associate of Science: Biological Sciences Transfer*. These particular degrees are designed to more closely match those specialized majors than the general AA. If your baccalaureate interest lies in one of these fields, consult with your advisor, dean, or the transfer director for more information.

In addition to the AA and AS degrees, the college also offers the following associate degrees.

The *Associate of Applied Business Degree (AAB)* is a technical degree that prepares the student seeking immediate employment after graduation in the areas of accounting, business, and business-related technologies. The *Associate of Applied Science Degree (AAS)* is a technical degree which prepares the student in a professional area such as Information and Engineering Technology, Health Sciences, Pre-Kindergarten Education, or Criminal Justice.

The *Associate of Technical Study Degree (ATS)* is a technical degree which serves students seeking a specific employment position. A number of ATS programs can be found in the Engineering Technologies section of this catalog. The ATS degree offers, through the Type B Program, the option of using previously acquired education and skills to develop, in conjunction with an advisor, a portfolio granting credit for previous education and/or experience. These programs are described in more detail throughout the catalog.

The college currently offers five degrees with more than three dozen majors. These include the Associate of Arts and Associate of Science degrees; Associate of Applied Science, Associate of Applied Business, and Associate of Technical Study degrees. The number of certification programs exceeds 20. Technology programs are grouped by discipline into Business, Computer, and Office Information Technologies; Information and Engineering Technologies; Health and Biological Sciences; and Humanities and Social Sciences.

The technology degree programs require that approximately one-half of the individual's course work at the college be technical in nature. This work will be organized in such a manner as to present courses which offer preparation for gainful employment following graduation or which may form the basis for continued study. About one-fourth of the individual's course work will be completed in technically related subjects. This work, while related to the individual's technical area, may be readily adaptable to a number of practical life situations and may be used to increase the student's understanding of other technologies. The remaining approximately one-fourth of the student's course work will be composed of general studies courses. These courses attempt to provide additional growth in the student's social awareness, personal communica-

tions, critical thinking, problem solving, and, in most cases, computational and computer literacy skills.

Both the AA and AS degree can be ends unto themselves in a general education field or used as stepping stones to a baccalaureate degree at a four-year college or university.

The Associate of Arts Degree is intended for the student planning to complete the first two years of a Bachelor of Arts Degree at Jefferson Community College. The AA degree has special emphasis in the arts, business, social sciences, and humanities, and is for the student seeking two years of general education with the ability to transfer/articulate credits to another institution.

The Associate of Science Degree is intended for the student planning to complete the first two years of a Bachelor of Science Degree at Jefferson Community College. The AS degree prepares students in general education with special emphasis in biology, mathematics, chemistry, physics, and geology and also has the ability to transfer/articulate credits to another institution.

Overviews of each of the college degrees by program are listed in the sequences of study section (see index). The overview explains and expands the sequence of courses and other academic information to include expected learning outcomes. Specific course descriptions are arranged in alphabetical order by course code and number in the course description guide.

The Ohio Board of Regents (OBR) requires a *minimum* of 60 semester hours for an associate degree. Each degree program, major, and certificate offered by JCC has been approved by the OBR as outlined in the catalog. As a result, the student may be required to earn more than the minimum semester credit hours to complete the degree, major or certificate requirements as designed by JCC and approved by the OBR.

# ACADEMIC PROGRAMS

**Degrees Offered:** Associate of Arts (AA)  
Associate of Science (AS)  
Associate of Applied Business (AAB)  
Associate of Applied Science (AAS)  
Associate of Technical Study (ATS)

## Programs Offered:

### Associate of Arts and Associate of Science Degrees

**Associate of Technical Study** (Type A & B)  
Course of study developed to meet individualized needs of students, employers or the community (ATS)

### Business, Engineering, and Information Technologies Programs

Associate of Arts for Business Administration Transfer (AA)  
Accounting Technology  
Accounting (AAB)  
Business Management Technology  
Business Management (AAB)  
Business Management (Certificate)  
Real Estate Management (Certificate)  
Electronic Commerce (AAB)  
Electronic Commerce Marketing and Management (Degree)  
Electronic Commerce Marketing and Management (Certificate)  
Interactive Digital Media Design (Degree)  
Interactive Digital Media Design (Certificate)  
Web Design and Administration (Degree)  
Web Master (Certificate)  
Office Information Technology  
Executive Office Information (emphasis)  
Legal Office Information (emphasis)  
Medical Machine Transcription (Certificate)  
Medical Office/Coding Specialist (AAB)  
Medical Office/Coding Specialist (Certificate)  
Office/Assistant (Certificate)  
Computer Software (Certificate)  
Associate of Science  
(Mathematics, chemistry, physics and geology courses)  
Design Engineering Technology  
Drafting/Design (AAS)  
Electrical/Electronics Engineering Technology  
Electrical (AAS)  
Electronics (AAS)  
CISCO Certified Networking Associate (CCNA) (Certificate)  
CISCO Certified Networking Professional (CCNP) (Certificate)  
Computer Service A+ (Certificate)  
Programmable Logic Controllers (Certificate)  
Information Technology  
Information Technology (Type A-ATS)  
Computer Software Engineering (Certificate)  
Computer Systems Engineering Technology (Type A-ATS)  
Microsoft Certified Systems Administrator (MCSA) (Certificate)  
Mechanical Engineering Technology  
Mechanical (AAS)

Power Plant  
Power Plant (ATS)  
Technical Study  
Building/Construction Trades Technology (Type B-ATS)  
Electro-Mechanical Engineering Technology (Type A-ATS)  
Industrial/Manufacturing Trades Technology (Type B-ATS)  
Instrumentation and Control Technology (Type A-ATS)  
Utilities Services Production/Maintenance Trade Technology (Type B-ATS)  
Welding  
Welding (Certificate)

### Health and Biological Sciences Programs

Associate of Science for Biological Sciences  
Transfer (AS)  
Clinical Laboratory Technology  
Clinical Laboratory Technician (AAS)  
Dental Assisting Technology  
Dental Assisting (AAS)  
Dental Assisting (Certificate)  
Dental Assisting EFDA (Certificate)  
Emergency Medical Services  
EMT-Intermediate (Certification)  
EMT-Paramedic (Certification)  
Histotechnician  
Histotechnician (AAS)  
Medical Assisting Technology  
Medical Assisting (AAS)  
Medical Assisting (Certificate)  
Medical Office Management (Certificate)  
Phlebotomy (Certificate)  
Practical Nursing  
Practical Nursing (Certificate)  
Radiologic Technology  
Radiologic Technology (AAS)  
Respiratory Therapy Technology  
Respiratory Therapy (AAS)

### Humanities and Social Sciences Programs

Criminal Justice Technology  
Corrections (AAS)  
Forensics (AAS)  
Law Enforcement (AAS)  
Police Academy (Certificate)  
Education  
Educational Paraprofessional (AA)  
Prekindergarten Care and Education (AAS)  
Prekindergarten Care (Certificate)  
Interpreting for the Deaf (AAS)  
Liberal Arts  
General (AA)  
Communications Concentration (AA)  
English Concentration (AA)  
Psychology Concentration (AA)  
Social Work Concentration (AA)

than the minimum semester credit hours to complete the degree, major or certificate requirements as designed by JCC and approved by the OBR.

## COLLEGEWIDE GENERAL EDUCATION AND OUTCOMES FOR DEGREE PROGRAMS

The foundation of JCC's curriculum is the general education program. General education is designed to offer students the traditional objectives of higher education while encouraging students to develop themselves to the fullest extent possible. The role of general education in a contemporary college curriculum is to address needs and objectives not adequately served by the specialized and upper-division courses within a chosen academic program. Through general education, a student gains personal enrichment, cultural awareness, and breadth of knowledge. Additionally, it has been shown that a foundation in general education courses can better prepare students for today's ever-changing job market, easing the transition between careers. General education also creates in students an awareness of higher education's role within the larger community.

Therefore, JCC's specialized programs have established minimum standards in terms of credit hours, grade points, and distribution requirements within the general education program. Students should

consult their advisor, the HOST Center, or the current JCC catalog for more information regarding your specific program's general education requirements.

### GENERAL EDUCATION OUTCOMES

At the time of graduation, JCC students should be able to effectively demonstrate the following outcomes:

#### Communication Skill

- Exhibit oral and written skills through active listening and reading.
- Interpret language in a manner necessary for achievement of academic and professional goals.

#### Information Literacy

- Utilize a variety of public and private sources, including degree-specific technology, to retrieve and use data.
- Operate a computer in multi-tasking situations, creating documents with a variety of computer programs.

#### Critical Thinking Skill

- Solve critical thinking problems, gaining proficiency in making decisions and performing numerical operations.
- Display the ability to analyze, synthesize, make inferences and evaluate data.

### Cultural and Social Literacy

- Distinguish the principles underlying human, personal, and interpersonal relationships as well as the impact of local and national current affairs.
- Contribute as a member of social and professional groups, therefore developing a work ethic.
- Recognize the importance and value of diversity in personal, professional and academic situations.

## ASSOCIATE OF TECHNICAL STUDY

The Associate of Technical Study Degree (Type A or Type B) is awarded for successful completion of an individually planned technical education program designed to respond to needs for specialized technical education not currently available in the college's formal degree programs. As with all technical associate degree programs, the program leading to an Associate of Technical Study Degree must have an area of concentration which is the equivalent of 30 semester credit hours in technical studies. This concentration must be



Students participate in a quiz game during a campus activity.

clearly identifiable with a career objective. The general studies (approximately 14 credits) and basic technically related (approximately 14 credits) components must also be satisfied. A minimum of 60 semester credit hours is required for all degrees offered by the college.

#### ASSOCIATE OF TECHNICAL STUDY (TYPE A)

The area of concentration for a Type A degree consists of a coherent combination of technical courses selectively drawn from two or more technical programs currently offered by the college. This combination must serve a career objective which would not be adequately addressed by any single existing college program. A minimum of 16 credits concentrated in a particular technology is required. The technical study degree is usually a course of study developed by the college, the employer or potential employer, and the student to meet specific employment and academic needs.

#### ASSOCIATE OF TECHNICAL STUDY (TYPE B)

The Type B degree is awarded for successful completion of an individually planned technical education program designed to respond to the needs of a concentrated specialized technology. Some portion of the required level or expertise in this specialization must be currently held by the student. This technical specialization may have been obtained through formal education, apprenticeship, journeyman, other occupational skill training program or unique life experiences. This background **must** be documented as to the nature of the experience, identified learning outcomes of the experience, how the learning outcomes were obtained, how the learning was verified and by whom. It is the student's responsibility to develop a portfolio that specifically: (1) links the learning outcomes of previous learning experiences to an existing Jefferson Community College course for which direct course credit may be granted; or, (2) documents and provides rationale for previous learning to be of significant value and of an appropriate college level that internship credit or special topic credit, in the amount determined by the reviewing technical study council, may be awarded. The portfolio may result in credits granted for specific courses already offered at the college or in a specific number of credits

awarded as a block in the specialized area. Credits awarded for life experience that matches a specific course already offered at JCC also may be applied to the Type A program or the Associate of Individualized Study degree.

In all cases, the basic ATS degree requirements will apply. The block credit awarded for the specialized technology will not exceed 30 technical block credits where one block credit is the equivalent of 15 hours of college-level education, as a minimum. The individual, with the assistance of an advisor, can select from a list of electives provided by faculty advisors and the dean and complete the technical block of study. The remaining nontechnical academic portion of the program will be completed under other degree programs. Final approval of the ATS Type B degree and granting of the ATS degree rests with the department dean.

#### GENERAL

All Associate of Technical Study programs (Type A and B) are coordinated by the executive vice president for academic and student affairs, the department deans, and faculty. Portfolios are evaluated by the faculty connected to the specialized study program. The student interested in pursuing an ATS Type A degree must meet with the appropriate department dean who will assign a faculty advisor to assist the student. ATS Type A and B programs must be approved by the appropriate dean for award of credit. Exceptions to these requirements require approval. The student has the sole responsibility of developing the documentation (portfolio) for a Type B proposal. The student must provide all verification and supporting documents for the request and will usually be currently employed in the specialized technology undertaken. **The Veterans Administration requires prior approval of the Type B program before payment will be made.**

The college currently offers Type A programs in Instrumentation and Control and Type B programs in the general areas of Building/Construction Trades Technology, Industrial/Manufacturing Trades Technology, and Utilities Services Production/Maintenance Trades.

All student regulations and fees apply.

## ASSOCIATE OF ADULT INDIVIDUALIZED STUDY

Traditional degree programs are not totally appropriate for all students. Many students at the community college level, including non-traditional students, have unique educational and career goals. Jefferson Community College now offers the Associate of Individualized Study (AIS) Degree.

The AIS Degree program is designed by and for the student. The degree is built on the student's unique educational objectives. This AIS Degree is ideal for students who have a variety of college-level courses but no specific degree or who have attended different colleges so they have multiple transcripts. JCC advisors will work to combine these credits with JCC classes to create an individualized degree. Students also may request credit for life experience in place of a course offered at JCC. This request must be accompanied by a portfolio that clearly demonstrates that the student has achieved at least 70% of the course outcomes for which credit is requested. These credits may be applied to the AIS degree. The procedure for requesting credit for life experience will be explained to the student when he or she makes the request. Taking a class in assembling a portfolio is advised.

A series of steps and a three-member advisory committee will be used to ensure the success of a student who is a candidate for the AIS degree.

1. The student will be required to complete an application for admission to the AIS program. This will be reviewed by the program director for humanities and social sciences.
2. One person from the college (in most cases a faculty member) must serve as a representative for the student's concentration area. This will serve as an indication that the applicant has reviewed the proposed program with an appropriate advisory committee member.
3. An appropriate department dean also must sign off on the application form.

Each applicant will have an advisory committee comprised of three people to help ensure that the students is on track with degree requirements.

# DEPARTMENT OF WORKFORCE AND COMMUNITY OUTREACH

In today's global marketplace, rapidly changing job markets and new technologies, individuals are required to have broad-based, transferable skills. For this reason, lifelong learning for adults is becoming increasingly more important. In 1995, the National Clearinghouse for Educational Statistics (NCES) reported that 40% of employed adults participate in work-related courses. Since 1970, the Department of Workforce and Community Outreach has provided training and related services for approximately 68,000 individuals.

The global marketplace is mirrored right here in our community. The pace of technological change, corporate downsizing, the need to upgrade skills to secure new employment or advance to higher positions and the declining power of a high school education have sent many workers back to school. The Department of Workforce and Community Outreach works with professional associations, state and national agencies, JCC's academic departments, and business and industry to develop programs that fit the needs of the community.

The department is located in the college's Training Center at 110 John Scott Highway, Steubenville. The center is adjacent to the college's main building.

## CREDIT COURSES

Credit courses scheduled by the Department of Workforce and Community Outreach are designed to help community members enter the job market with the edge they need to succeed in today's competitive workforce.

**Tuition** for these credit courses follows the cost per credit hour structure of credit courses offered in other academic departments. Some courses may have nominal lab fees.

**Refund of fees** is in compliance with the guidelines set in the student catalog. These refund guidelines do not apply to classes that start after the first week of any semester (flexibly scheduled courses). The \$20 application fee is nonrefundable, regardless of when a course is scheduled to begin. Registration is through the HOST Center.

**New students** will receive an application and begin the one time registration process (\$20 application fee is nonrefundable). The process has three steps:

1. Completion of the application
2. Taking a proficiency examination prior to the first week of classes (registration fee includes this test)
3. Enrollment into the course of choice is through the college's HOST Center

**Returning students**, those with a JCC application on file, can also register in the HOST Center.

## PROFESSIONAL DEVELOPMENT CEUs

The department offers courses of an occupational nature which qualify professionals for continuing education units (CEU). The CEU's purpose is to give the individual a permanent, quantified record of courses taken to upgrade occupational knowledge and skills. Noncredit courses

which carry CEUs are so designated in the course description. Programs planned for local professionals are approved through 16 state and national agencies.

The department offers or is prepared to develop and implement programs in virtually any subject for which sufficient demand is indicated by local professionals and which is consistent with the institution's community college mission.

## ACADEMIC OUTREACH

Academic Outreach offers credit classes off campus. The program's goal is to reach out to all areas of the Tri-State that are not served by higher education and to offer a full range of programs provided by the college for traditional and nontraditional learners.

Courses include credit classes for the academic programs and credit classes for continuing education certificates. Tuition and fees follow the guidelines of credit and noncredit courses.



The Pugliese Training Center provides state-of-the-art facilities for classes and workshops.

## NONCREDIT COURSES

Noncredit courses provide the opportunity for lifelong learning for all members of the community. Each semester classes in a variety of subjects and skills are offered in an informal and noncompetitive environment where an interest in learning is the primary consideration. Admission requirements, entrance examinations, and application fees are not required for enrollment. Courses and special programs are designed for adults and children. Certificates of achievement are given for students who have successfully completed skills-related classes.

**Fees for noncredit courses** will vary according to the length of the course, use of consumable materials, and use of special equipment. The department strives to keep these costs within reach of all those who may benefit from the learning experience. Fees are payable in full at the time of registration. Ohio residents 60 or older may enroll tuition-free on a space-available basis once the course is financially self-supporting. Tuition is waived but senior citizens will be charged for applicable lab/accreditation fees and any related instructional materials.

## NONCREDIT ONLINE COURSES

Noncredit online courses from Education 2 Go are available in computer and Internet training, business management, small business development, and personal enrichment. A complete list of classes can be found at [www.jcc.edu](http://www.jcc.edu). Classes start the second Wednesday of every month and are usually six weeks in length. Students can register online but must submit payments to the Department of Workforce and Community Outreach.

## BUSINESS AND INDUSTRIAL TRAINING

Jefferson Community College specializes in working with local businesses to assist them in identifying training/retraining needs. Training developed as a result of various forms of needs assessments can be customized, scheduled on or off campus, and offered for credit or noncredit. Customized training topics include, but are not limited to:

- OSHA Requirements
- Technical Training (welding, electrical, hydraulics, and PLCs)
- ISO/QS/AS 9000 Compliance/Auditing
- State/Nationally Required Certifications
- Train-The-Trainer
- Supervisory Training
- Pre-Employment Training
- Computer/Software Applications

A grant funded portable computer lab can conveniently bring training to the worksite. This is just one of the ways the department returns state tax dollars to the community. Additional grant funding targets defraying training costs for local businesses/industries (when applicable).

## TRAINING GRANTS

Ohio employers are discovering a problem-solving resource for employee selection, training, and retraining. EnterpriseOhio Network is a statewide association of 54 public two-year colleges and university branch campuses. Since 1986, these schools have been partnering with businesses, organizations, and public service agencies and making learning in the workplace count.

Through this association, JCC has available Targeted Industries Training Grants. The TITG is a financial assistance award available for eligible employers who partner with an EnterpriseOhio Network campus to provide training and/or assessment services. The network:

- awards grants for pre-employment assessment, employee training, employee assessment, job analysis, and related services
- provides financial support for up to 75% of total eligible cost of training, assessments, and related services
- targets manufacturers and their suppliers, as well as companies experiencing a shortage of information technology skills.

## STEP UP PRE-EMPLOYMENT TRAINING

STEP UP, pre-employment training, offers area residents the opportunity to learn and improve needed workforce skills. Open to adults 18 or older, it is a free program designed to prepare participants for the world of work by improving their workplace readiness skills. **STEP UP can not be taken in individual modules; participants must commit to the whole program.**

Funding is provided by the Ohio Adult Basic and Literacy Education (ABLE) Program.

## OHIO VALLEY CRIMINAL JUSTICE TRAINING ASSOCIATION

The Ohio Valley Criminal Justice Training Association provides cost effective continuing education for local law enforcement professionals. A governing board of individuals employed in a variety of law enforcement careers determines training offerings based on input from the field. Membership requires individuals to be employed in the law enforcement profession and to pay an annual membership fee.

## ADMISSIONS

Jefferson Community College, as a state-supported, higher education institution, has an "open-door" admission policy. The minimum qualification for admission to the college is a high school diploma, a General Educational Development (GED) certificate, or completion of an approved home school program. This does not mean that any applicant is accepted directly to any course or program without an adequate background. Jefferson Community College offers many courses which provide applicants the opportunity to develop sufficient background to enter the program of their choice.

Persons lacking a high school diploma or equivalent may be admitted by the college as regular or special students if certain conditions are met. Information about the conditions is available in the Admissions Office at the HOST Center. If admitted, these persons will be permitted to accumulate a maximum of 30 semester credit hours while pursuing a GED. Proof of earning a high school diploma or a GED must be presented to continue taking credit courses at the college once this maximum is reached.

High school students who have completed their sophomore year may enroll in courses with the recommendation of their guidance counselor or principal as a special student. The college participates in the post-secondary enrollment option program approved by the Ohio legislature. Information is available through the Admissions Office or from a high school counselor. The college also has agreements with some secondary schools to allow credits to be granted for courses taken in high school via Tech Prep, or in criminal justice or education programs. Conditions for the granting of these credits are that the student attend JCC immediately after graduating from high school and successfully complete 12 credit hours at the college.

Jefferson Community College now grants credit for advanced placement courses in certain cases. The applicant should contact the dean of the appropriate department to find out about credit for advanced placement classes in a particular area. For example, the Humanities and

Social Sciences Department at JCC will grant credit for ENG201 Introduction to Literature to students who have completed an advanced placement literature class in high school and have successfully passed the English literature and composition advanced placement test with a score of 3 or higher. However, to receive ENG101 English Composition I credit, the student must also present a portfolio of writings that match certain criteria.

To apply to JCC, applicants may obtain an application from the Admissions Office in the HOST Center, use the application in this catalog, or print one from the college's web site at [www.jcc.edu](http://www.jcc.edu). This should be completed and returned to the Admissions Office. A nonrefundable admissions fee of \$20 will be assessed each student during registration at the first semester of enrollment.

High school graduates must request that their high school forward an official transcript of their high school grades to the Admissions Office. A transcript request form is located in the back of this catalog. If submission of a high school transcript is impractical, the director of admissions may accept other documentation of high school graduation such as military records, transcript of college degrees awarded, etc. Applicants having GED certificates are required to

have an official GED transcript sent to the Admissions Office by the department of education from the state in which the test was taken.

For persons wishing to transfer from another college to Jefferson Community College, an official college transcript must be forwarded to Jefferson Community College by the college(s) from which the credits are to be transferred.

All credentials submitted for admissions become the property of the college and are not returnable or transferrable.

The applicant is responsible to supply truthful and complete information on the application for admissions. If the college subsequently determines that financial aid or some other service was provided the student based upon inaccurate information provided, the student may be denied further consideration for the service and/or may be required to reimburse any overpayment resulting from the use of the invalid information.

Successful implementation of an "open-door" admissions policy requires an emphasis on pretesting and admissions counseling; therefore, a personal interview is in the best interest of the student.

Foreign student admissions requirements are listed under instructional fees.



The annual Honors Convocation recognizes academic excellence.

## STUDENT ADMISSIONS GUIDE

### DETERMINE YOUR STUDENT STATUS AND GOAL

	If you are	And your goal is	Step 1 Special Application Procedures	Step 2 Welcome	Step 3 Placement Testing	Step 4 Advising/ Registration
<b>N E W</b>	New, first time in college - seeking to enroll at JCC after graduation or GED completion and adults with prior college	Seeking a degree or certificate at JCC after graduation or GED completion and adults with prior college	None	Obtain information on the specific steps for enrollment from Admissions Office/ HOST Center	Schedule and complete placement testing for English, reading, and mathematics, etc. Schedule an appointment through the HOST Center	Go to the HOST Center to obtain help in: selecting and scheduling appropriate classes based upon placement testing results and/or college transcripts
<b>F O R M E R</b>	Former JCC student who has previous college experience/ JCC	Seeking a degree or certificate at JCC and/or other college/university	If you have not enrolled in classes for years, you must have your student file reactivated	Obtain information on the specific steps for enrollment from Admissions Office/ HOST Center advisor	Placement testing may be recommended if switching majors. Consult a HOST Center advisor	Make an appointment with the HOST Center or your assigned advisor
<b>T R A N S F E R</b>	Incoming transfer student who has attended another college or university	Seeking a degree or certificate at JCC other other college/ university	Have <b>official</b> transcript sent directly from the issuing institution to: JCC Admissions Office, 4000 Sunset Blvd., Steubenville OH 43952 <b>NOTE:</b> Hand carried transcripts are not considered official. JCC must have transcripts before starting classes	Obtain information on the specific steps for enrollment from Admissions Office/ HOST Center	Placement testing may be recommended even if you have previous college experience. Contact HOST Center staff	Make an appointment with a HOST Center advisor or your assigned advisor
<b>T R A N S I E N T</b>	Transient student who is attending another college or university and is taking JCC courses to transfer back to the home institution	Seeking a degree or certificate at another college/university	Declare transient as a major. Circle #4 on college application form to transfer before completing a degree or certificate	Obtain information on the specific steps for enrollment from Admissions Office/ HOST Center	If you intend to take English or math courses without record of transfer credit in English or math, you must complete placement testing	JCC counselors help you schedule your classes. NOTE: if you are a student at another institution, check with advisors at the home institution to set course transfer
<b>P I/ C D</b>	Taking a class for personal interest or career development	Not seeking a degree or certificate	Circle #1 on college application form (personal interest)	Obtain information on the specific steps for enrollment from Admissions Office/ HOST Center	If you intend to take English or math courses without record of transfer credit in English or math, you must complete placement testing	HOST Center advisor will help you schedule classes
<b>P S E O</b>	High school student enrolling in Post Secondary Enrollment Option (PSEO)-(SB-140) while still attending high school	Taking JCC classes while still a high school student	Complete placement tests for reading, math, and English,. Call 740-264-5591, ext. 142 for an appointment. After placement testing, obtain a PSEO application from JCC Admissions Office. Send the completed application & all requirements to JCC Admission Office .	Refer to written correspondence from the PSEO Program	Refer to special PSEO application process	Scheduling and registration process explained at mandatory PSEO orientation. High school guidance counselor to explain the equivalency of a given JCC course in meeting high school graduation requirements. JCC advisors advise about JCC academic programs

## HEALTH SCIENCES PROGRAMS

### SUMMARY OF PROGRAM APPLICATION/ADMISSION CRITERIA 2007-2008

Program	Clinical Lab Technician	Clinical Lab Accelerated	Dental Assisting	EFDA	Histotechnician	Medical Assisting
Medical History	Required	Required	Required	None	Required	Required
Health Insurance Verification	Required	Required	Required	Required	Required	Required
High School Transcript or GED Score of 45 or Certificate of Homeschool Completion	Required	Required	Required	Required	Required	Required
<b>For Associate Degrees and PN Program:</b> ACT Composite Score (for people who took ACT 10/89 and after) OR a SAT Score is Required Check with HOST Center if ACT was taken before 10/89	ACT 18* OR SAT 720	Not Required	ACT 17* OR SAT 680 Score not required for certificate	Not Required	ACT 18* OR SAT 720	ACT 17* OR SAT 680 Score not required for certificate
College Placement Tests English, Reading Math Anatomy Algebra Chemistry Other**	Required Required Required Required Required —	None required, student must have a BS with 16 semester or 23 quarter hours of sciences	Required Required — — — **	No Placement Tests Required	Required Required Required Required Required	Required Required — — — **
Courses to be scheduled based on placement scores	ENG081 ENG082 ENG093 CRS*** MTH081 MTH096 MTH097 MTH099 BIO101 CHM091	—	ENG081 ENG082 CRS*** ENG093 MTH081	—	ENG081 ENG082 ENG093 CRS*** MTH081 MTH096 MTH097 MTH099 BIO101 CHM091	ENG081 ENG082 CRS*** ENG093 MTH081
Program Pre-Entrance Exam and/or Professional Credentials	None	B.S. Degree	None	CDA, RDH or CODA Credentials	None	None
Maximum Class Size	16	included in CLT seats	24	7	6/8	25

**It is the responsibility of the applicant to submit completed program prerequisites to the Admissions Office.**

\* If ACT or SAT Scores are below the minimum required by a specific program but the student has achieved a GPA of at least 2.5 within the last 5 years (taking a minimum of 9 credits concurrently of college-level courses) then the ACT/SAT scores can be waived. Courses that begin with a 0 (zero) are not college-level courses. ACT/SAT scores are waived for students who have previously earned a minimum of an associate degree or completed an equivalent program approved by the program director/dean.

**\*\* Typing or computer course in high school or college or passing grade on typing proficiency test is required for dental assisting. Typing course in college or passing grade on proficiency test is required for medical assisting. Also, for the Medical Assisting Program, completion of BUS111, HSC101, and OIT102 courses are required for program acceptance. For Phlebotomy acceptance, completion of HSC101 with a grade of "C" or better is required.**

**Students who declare Practical Nursing as their major after April 30, 2007, must complete HSC101 with a grade of "C" or better and have a required ACT composite score of 17 for program admission.**

\*\*\* CRS091, CRS100, and CRS102

The Dental and Medical Assisting Programs offer both a one-year certificate and an associate degree.

## HEALTH SCIENCES PROGRAMS

### SUMMARY OF PROGRAM APPLICATION/ADMISSION CRITERIA 2007-2008

Program	Paramedic	Phlebotomy	Practical Nursing	Radiologic Technology	Respiratory Therapy
Medical History	Required	Required	Required	Required	Required
Health Insurance Verification	Required	Required	Required	Required	Required
High School Transcript or GED Score of 45 or Certificate of Homeschool Completion	Required	Required	Required	Required	Required
<b>For Associate Degrees and PN Program:</b> ACT Composite Score (for people who took ACT 10/89 and after) OR a SAT Score is Required Check with HOST Center if ACT was taken before 10/89	Not Required	Not Required	ACT 17* OR SAT 680	ACT 17* OR SAT 680	ACT 17* OR SAT 680
College Placement Tests English, Reading Math Anatomy Algebra Chemistry Other**	Required Required — — —	Required — — — HSC101**	Required Required Required Required — **	Required Required Required Required Required —	Required Required Required Required Required —
Courses to be scheduled based on placement scores	ENG081 ENG082 ENG093 CRS*** MTH081	ENG081 ENG082 CRS***	ENG081 ENG082 CRS*** ENG093 MTH081 MTH096 BIO101	ENG081 ENG082 CRS*** ENG093 MTH081 MTH096 MTH097 BIO101 CHM091	ENG081 ENG082 CRS*** MTH081 MTH096 MTH097 MTH099 BIO101 CHM091
Program Pre-Entrance Exam and/or Professional Credentials	EMS Exam	None	None	None	None
Maximum Class Size	16	16	44	16	21

**It is the responsibility of the applicant to submit completed program prerequisites to the Admissions Office.**

\* If ACT or SAT Scores are below the minimum required by a specific program but the student has achieved a GPA of at least 2.5 within the last 5 years (taking a minimum of 9 credits concurrently of college-level courses) then the ACT/SAT scores can be waived. Courses that begin with a 0 (zero) are not college-level courses. ACT/SAT scores are waived for students who have previously earned a minimum of an associate degree or completed an equivalent program approved by the program director/dean.

\*\* Typing or computer course in high school or college or passing grade on typing proficiency test is required for dental assisting. Typing course in college or passing grade on proficiency test is required for medical assisting. Also, for the Medical Assisting Program, completion of BUS111, HSC101, and OIT102 courses are required for program acceptance. For Phlebotomy acceptance, completion of HSC101 with a grade of "C" or better is required. Students who declare Practical Nursing as their major after April 30, 2007, must complete HSC101 with a grade of "C" or better and have a required ACT composite score of 17 for program admission.

\*\*\* CRS091, CRS100, and CRS102

The Dental and Medical Assisting Programs offer both a one-year certificate and an associate degree.

## PLACEMENT TESTING POLICY

As a means of assisting students in selecting appropriate courses, all new full-time and part-time degree- or certificate-seeking students, and students who wish to enroll in an anatomy, chemistry, math or English course or other course(s) requiring an English, math or related prerequisite, are required to take college placement tests, which are to be completed prior to class registration. The college currently uses the COMPASS placement test, which identifies students' academic strengths and weaknesses in the areas of writing, reading, and mathematics. This is supplemented by anatomy and chemistry placement tests specifically designed by JCC, and dependent upon the student's major. The test results will be used to determine whether a new student will register for college-level coursework, introductory course-work, or developmental coursework. Placement testing may be waived for persons presenting evidence of successful completion of college-level coursework in the subject areas tested (i.e., college transcript or grade report). Placement testing may also be waived for persons presenting official ACT/SAT sub-scores for English, reading, and mathematics. These sub-scores may be used alone or in conjunction with the COMPASS placement test to determine the correct placement for a student. ACT/SAT scores more than five years old will not be accepted.

Student who are attending JCC in the summer term from another institution may present a letter from his/her home institution stating the home institution will guarantee acceptance of a JCC course(s). This letter will waive required testing for the course(s) listed on the letter. JCC will assume the home institution has prepared the student for the JCC course(s).

Initial placement testing has no fee. One retest is permitted with a fee of \$5. Information about all testing requirements is available in the HOST Center.

The American College Test (ACT) is administered at selected sites throughout the year. ACT application packets listing the test dates and locations are available in the Admissions Office.

While placement test results will not affect admission to JCC, they may affect acceptance in a course or program. Each applicant is urged to complete placement testing as soon as possible. Further information on placement testing or select program entry requirements is available in the individual program descriptions, which appear in the catalog, or by contacting the HOST Center.

### SAT Scores and Placement

#### Reading:

- 0-274 ENG082 General Reading
- 275-374 ENG091 Intro to College Reading
- 375-800 No reading requirement needed

#### English:

- 0-299 ENG081 General English
- 300-399 ENG093 Intro to College English
- 400-499 Gray Area - student and advisor decide on ENG093 or ENG101
- 500-800 ENG101 English Composition I

#### Math:

- 0-440 Student must take COMPASS
- 441-620 Student may take any of these: BUS111, CIS230, MTH100, MTH101, MTH102, MTH110, MTH111, MTH120, MTH121, MTH128
- 621-800 Student may take any of these: Any course listed above for the 441-620 category and/or the following: MTH210, MTH220

### ACT Scores and Placement

#### Reading:

- 0-10 ENG082 General Reading
- 11-14 ENG091 Intro to College Reading
- 15-36 No reading requirement needed

#### English:

- 0-11 ENG081 General English
- 12-16 ENG093 Intro to College English
- 17-18 Gray Area - student and advisor decide on ENG093 or ENG101
- 19-36 ENG101 English Composition I

#### Math:

- 0-18 Student must take COMPASS
- 19-27 Student may take any of these: BUS111, CIS230, MTH100, MTH101, MTH102, MTH110, MTH111, MTH120, MTH121, MTH128
- 28-36 Student may take any of these: Any course listed above for the 19-27 category and/or the following: MTH210, MTH220

## ENTERING DATES

Students may enter Jefferson Community College at the beginning of any regular enrollment period. This does not mean, however, that the courses usually taken in the first semester of a given curriculum sequence will be offered each semester and courses with prerequisites may not be open to the new student. As a result, the length of time required for completion of most programs may be lengthened by entering the college at a time other than the fall semester.

## HIGH SCHOOL DIPLOMA/EQUIVALENCY

In order to enroll (except special students) and/or graduate from Jefferson Community College, a student must submit an official high school transcript or equivalency documenting a student's graduation from high school or completion of a high school equivalency program by the time the student has completed 30 credit hours. An official copy of a transcript or equivalency is one that has not been in the student's possession but has been mailed directly from the issuing institution to Jefferson Community College.

Jefferson Community College will consider the following appropriate documentation of high school graduation or equivalency:

1. High school transcript annotating high school graduation date
2. GED transcript from testing agency
3. Certificate of completion of an approved home school program signed by the program principal

## ADVANCED PLACEMENT CREDITS

Jefferson Community College participates in the Advanced Placement Program administered by the College Board. By enrolling in such courses during high school, and taking the Advanced Placement Tests at the end of the course, high school students may earn undergraduate credits in several academic areas at JCC. The student must provide official proof of AP scores. AP scores more than five years old will not be accepted. An Advanced Placement test score of three or higher is required to receive credit for the equivalent JCC course listed below.

### Advanced Placement Course

Calculus AB  
English Literature and Composition  
English Language and Composition

Chemistry  
Physics B  
US History

Government & Politics: US  
European History

Computer Science A  
Computer Science AB

Economics: Macro  
Economics: Micro  
Psychology  
Biology  
Spanish Language  
French Language

Note that the AP English Language and Composition course also requires a portfolio to receive credit for JCC's ENG101 English Composition I course. The portfolio must include a minimum of a research paper with MLA documentation (most updated version) and a non-research (expository) essay

### JCC equivalent course

MTH220 Calculus and Analytic Geometry I  
ENG201 Introduction to Literature  
ENG101 English Composition I  
**with presentation of portfolio\*\***  
CHM102 General Chemistry I  
PHY106 College Physics I  
HIS104 US History-The Formative Period  
**OR** HIS105 US History-The Modern Period  
PSC101 American Government  
HIS101 World Civilization I  
**OR** HIS102 World Civilization II  
CPS101 Introduction to Computer Science  
CPS101 Introduction to Computer Science  
**AND** CPS140 Visual Development  
Applications (JAVA)  
ECO101 Macroeconomics  
ECO102 Microeconomics  
PSY101 General Psychology  
BIO106 Introduction to Biological Sciences  
SPA101 Elementary Spanish I  
FRN101 Elementary French I

## EARLY ENROLLMENT HIGH SCHOOL STUDENT

Qualified high school students may register for courses at the college under terms and conditions prescribed by the Ohio General Assembly and the college. Information about early enrollment qualifications and the post-secondary enrollment option, and required application forms can be obtained from the high school guidance counselor or the college's Admissions Office.

Being placed in the college situation where the median age of the students is 28 and where it is taken for granted that a high level of social maturity exists in each student could make early enrollment

a negative experience for some high school students. For this reason, careful consideration should be given to not only the student's intellectual readiness to handle college-level work, but also to whether the student is emotionally and socially ready to function in a completely adult environment.

## RE-ADMISSION TO THE COLLEGE

A student who has been suspended from the college for academic deficiency may request readmission at the end of a minimum of one semester separation.

For further information, students should refer to the Academic Standards section of this catalog.

## FRESH-START POLICY

A student who has not attended Jefferson Community College or any other accredited higher education institution for a period of six years or more may request the college to invoke the "fresh-start" policy. The fresh-start policy is designed for students with poor past academic records and who desire an opportunity to begin anew. The policy requires college approval and should be discussed with an advisor, admissions officer, and/or appropriate dean. The fresh-start program is an all-or-nothing program in which the college either accepts all of a student's previous credits or, in the alternative, the college accepts none of the student's past credits -- a true "fresh start." Policy applications can be obtained at the student records office.

Students should note that federal financial aid regulations do not recognize academic forgiveness. In evaluating a student's satisfactory academic progress for financial aid purposes, all courses that apply must be included toward his/her program of study.

## STUDENT HOUSING

Because students commute daily to Jefferson Community College, no on-campus dormitories are available.

Dormitory rooms may be available through an agreement with the Trinity Health Systems School of Nursing on a space-available basis. Application for this housing is made through Jefferson Community College's Admissions Office. The selection and approval of housing facilities are entirely at the option of the student and/or parents. Therefore, Jefferson Community College accepts no responsibility for supervising off-campus housing.

# REGISTRATION

Class registration dates and times will be announced in the class schedule published twice a year. The registration dates and the class schedule also are posted at [www.jcc.edu](http://www.jcc.edu). All students are responsible for meeting all registration dates and procedures announced.

A student is not considered to be enrolled in a course until registration has been completed during the announced registration period. Each student must submit a schedule of classes, and all fees must be paid or payment arranged in order to complete the entire registration process.

## FACULTY ADVISORS

The advisory system is designed to assist each student with problems that affect academic progress. This often includes referral of the student to other resources on campus.

New students are advised in the HOST Center. As students progress towards their selected majors, they make a transition to a faculty advisor, who usually is actively involved in the student's major area of preparation.

The faculty advisor assists the student in the effective planning and successful completion of all phases of scheduling courses and the academic process. The advisor should be contacted immediately when encountering any academic program/concern and, as a minimum, once a semester for advice.

## SCHEDULING

Prior to the start of each semester, students should complete a schedule request form with the help of the faculty advisor. The class schedule indicates the courses and sections in which the student may enroll for that term. Students will obtain pertinent course information from the class schedule. They must be sure they complete the form accurately, particularly course number and credit hours, and then **obtain the advisor's signature**. Students will benefit greatly by spending a little extra time on their original schedule so they will not have to make changes later.

## ELECTRONIC REGISTRATION

Students who have already been accepted for admission to the college may take advantage of the college's electronic registration process, which is found under E-Registration at the college's web site [www.jcc.edu](http://www.jcc.edu).

In order to register a student must also have completed all required placement tests, met all prerequisites, and have no restrictions (academic or financial). Students should always consult with their advisors about scheduling.

The college will use a submitted schedule to register a student for the selected course(s). Available course openings and course prerequisites will be checked upon receipt of the schedule. The student will be advised by e-mail (by postal service if no e-mail address) regarding the status of the schedule.

## LATE REGISTRATION

Students may register for classes during the announced late registration period of the semester without special permission and without assessment of a late fee. Registration after the late registration period of the semester is permitted only under unusual circumstances and requires the approval of the course instructor and course department dean. The student may be required to provide written documentation to support the request for late entry and may be charged a late fee.

## AUDITING

A student with proper prerequisites may register for and attend certain courses as an auditor. The student is not held responsible for the regular class work and preparation of assignments and receives no credit for the course. All regular fees, as well as other applicable fees, are required and the course is considered part of the total course load. Audited courses will not apply towards the fulfillment of graduation requirements or to the total load in determining financial aid eligibility.

A student enrolling as an auditor will be permitted to enroll only after the

regular students have been accommodated and only with the approval of the assigned advisor, the instructor, and department dean based on the student's identified major.

A student who has registered with the HOST Center as an auditor may change from audit to credit or credit to audit **only during the first 14 calendar days** of each regular semester (first seven days of Summer Sessions I and II) with the approval of the assigned advisor, the course instructor, and the department dean. A student must complete and submit a student schedule change form.

## PROFICIENCY EXAMINATION

The purpose of this examination is to permit students who believe they are qualified through education, training, and/or experience the opportunity to pass over certain courses in order to take more advanced work.

The proficiency examination, which must be requested, will be comprehensive enough to be representative of the entire content of a course and is offered during the regular semester.

Students desiring to take the proficiency examination must apply to enroll in Jefferson Community College and secure the proper form from student records. The student must then receive approval of the appropriate department dean, after consultation with an advisor and/or the instructor involved. Upon approval, the student must pay the appropriate fee to the Business Office for each proficiency examination taken. The student will then return the form to the examiner. The examiner will record the grade, and the results will be reviewed by the department dean. The department dean will make the recommendation to student records that the credits passed by the examination become a part of the student's permanent record or to be maintained with the student admission application.

A student is not eligible to take a proficiency examination more than once for each course, nor is a student eligible to take a proficiency examination for a course the student has previously taken.

## CLEP TESTING

The College-Level Examination Program (CLEP) is a national testing program administered by the College Board designed to measure student academic proficiency gained through nontraditional educational experiences such as correspondence courses, military training, and on-the-job training programs. Detailed information about CLEP testing is available through the Admissions Office. A student can be granted college credit at Jefferson Community College for selected courses based on the results of CLEP testing. To receive credit, the student must achieve or exceed the American Council on Education (ACE) recommended minimum score.

Persons desiring to achieve credit through CLEP testing should have official copies of test scores sent to the registrar. The college will accept only scores less than six years old, and only exam scores for which there are equivalent courses offered at Jefferson Community College. It is also the decision of the department dean to determine if that CLEP exam credit will count toward graduation. Individuals who desire to take CLEP exams should make arrangements with Franciscan University of Steubenville, which is a national CLEP testing center.

## TRANSFER CREDIT

Transfer students must comply with all admission procedures.

Courses taken at another college in which a letter grade of "P" was earned can be accepted. All credits accepted in which a "C" or better was earned will be designated by "P" on the academic transcript. Credits may be transferred with the letter grade "D." Students transferring credit in which a "D" was earned will be designated by a "V" on the academic transcript. If the degree program at JCC allows a "D" grade, the course will be applied to that major. The grades earned at other institutions will not be averaged with the grades earned at JCC. Credits must have been earned within the last five years in order to be transferred to JCC unless approved by the department dean.

Credit from other institutions will be transferred at the discretion of the dean

and are subject to the following:

- no technical courses (as defined by each department and program) will be transferred unless equal to an existing technical course at JCC;
- general studies courses (as defined in this section) will be transferred if part of one of the following categories:

**Humanities:** literature, foreign language, art, music, philosophy, religion, theater, communication, art history, dance, film and linguistics.

**Social Sciences:** history, economics, psychology, social work, sociology, political science, women's studies, minorities studies, geography, anthropology and archaeology.

**Science:** chemistry, computer science, physics, biology, geology, ecology and astronomy.

**Mathematics:** quantitative analysis, linear algebra, modern mathematics, etc.

Determination for such general studies electives transfer will be made by the dean of the degree-granting department. This policy will apply only to general studies electives and not to specific degree requirements, whether or not part of the above categories. Transfer credits will be listed on the students' transcript as general studies credits in the appropriate category.

A request for credit evaluation must be initiated by the student and filed with the Admissions Office. Once a student has registered for classes, any request for the transfer of credits must be directed to the HOST Center. In order to receive a degree from JCC, a student must have successfully completed a minimum of 18 semester hours in courses within the designated program at JCC.

All JCC students who wish to complete course work at other institutions and have credit for such course work accepted by the college must obtain approval from their department dean prior to registration at the other institution.

Only credits from institutions accredited by regional accreditation agencies such as the North Central Association of Colleges and Schools, Accrediting Council of Independent Schools and Colleges and Distance Education Training Council will be accepted.

Credits from institutions not

accredited by one of the above commissions will be evaluated if the institution is accredited by the U.S. Department of Education. However, acceptance is not guaranteed but will be decided on a case-by-case basis.

## RETURNING STUDENTS

Students in good standing who have previously attended Jefferson Community College are welcomed to return to the college when they wish to continue their studies. Such students should contact the HOST Center prior to registration to update their status as returning students. They also should contact the Admissions Office to ensure that they meet the requirements for admission to their chosen major.

## ADDING COURSES

Students may add courses to their schedules during the first week of a regular semester and on the first two days of Summer Sessions I and II with the department dean's approval. The appropriate form can be obtained from the HOST Center. The completed form must be approved by the department dean and the HOST Center. The addition of credit hours may increase the student's tuition and fees. Students may change sections of the same course during the first two weeks of the semester (first week of Summer Sessions I and II). No student may change sections after the second week of classes, except self-paced classes, without approval of the dean.

## DROPPING COURSES

Students may drop courses from their schedules during the first two weeks of a regular semester and first week of Summer Sessions I and II. The Business Office will refund, where applicable, a student's fees during the first two weeks of a regular semester or first week of Summer Sessions I and II, according to the established refund schedule. Drops after the second week are considered to be withdrawals. Students may withdraw from a course through the 10<sup>th</sup> week of the regular semester (or its 60% equivalent for summer, flexibly scheduled, or mini terms).



JCC's flag football team takes on another college team on a sunny afternoon.

The student must obtain and sign a schedule change form to be returned to the HOST Center for processing. Dropping a course may affect student financial aid receipt and health insurance if carried on a parent's policy.

## WITHDRAWAL FROM A COURSE

Students will receive a grade for each class on their schedules after the second week of the semester (first week of Summer Sessions I and II). Students may withdraw from a course through the 10<sup>th</sup> week of the regular semester (or its equivalent for summer, flexibly scheduled, or mini terms). A student who wishes to withdraw from a class must obtain a request form from the HOST Center, have the form signed by the course instructor, and return the form to the HOST Center. A grade of "W" will be received.

To avoid the possibility of receiving an unfavorable letter grade for the course, this form must be completed with all required signatures and returned to the HOST Center.

Early withdrawal from a course does not prohibit the student, at the discretion of the instructor, from attending the remainder of the academic classes and sitting for the final examination in preparation for retaking the course. However, withdrawal from a course may affect financial aid benefits even if attendance and testing are continued.

Withdrawals are not subject to refunds. The grade of "W" is recorded as zero hours earned and zero quality points. Withdrawals from a course(s) may affect receipt of student financial aid.

## WITHDRAWAL WITHOUT NOTIFICATION

A full- or part-time student who withdraws, drops out, or stops attending a course without following the prescribed withdrawal procedure will receive an official transcript grade of "F" or "N" for the course and forfeit all fees paid.

## JCC ACADEMIC WITHDRAWAL GRADE ASSIGNMENT

JCC faculty are permitted to assign an academic withdrawal (AW) grade at any time during the semester in cases of excessive student absences. If the instructor intends to use AW, the conditions for assigning this grade will be stated clearly in the syllabus. Instructors will notify students of their use/non-use of AW on the first day of class and/or in the course syllabus. Stipulations for the use of this grade assignment option will be approved by the college and communicated by the instructor.

## TRANSCRIPT REQUESTS

Transcript requests must be made to the student records in writing and signed by the student. Transcript request forms are available from the student records. A student will be required to sign for release of academic records before a copy of the transcript is released.

A fee of \$5 will be charged for all copies. The fee is payable at the time the transcript request is made. Current students should allow at least 24 hours for processing of transcripts and other official documents. Other student requests will be processed within 14 days.

## CHANGES IN NAME, ADDRESS, MAJOR, ETC.

The student records office maintains a substantial amount of information about each student which is used by the college to forward official correspondence and communications and to administer and improve planned education. Keeping the college advised of current mailing and telephone information is the responsibility of the student. Students should notify student records immediately if the student's name, address, phone number, marital status, etc., changes during enrollment, by completing the change of name/address form, which is available at student records or the HOST Center.

Students must see their department dean to change their major field of study. The requirements to be met for completion of the new major will become those listed in the official catalog which is current at the time the change in major was approved and implemented.

In order to utilize the advantages of the computer, it is necessary for the student to use the Social Security number in addition to the student's name on many college forms. Incorrect numbers may cause serious errors in registration and grades.

# FINANCIAL AID

The Financial Aid Office administers federal, state, institutional and privately funded financial aid awards. Financial aid can be in the form of grants, scholarships, employment and loans. Financial aid is awarded to students enrolled in degree or certificate programs. A student must demonstrate financial need to be eligible for most student aid programs. A student's financial need is the difference between the student's cost of attendance (COA) at the school and the amount the family is expected to contribute to the student's education (EFC).

## DEFINITIONS OF FINANCIAL AID

### Scholarship:

Scholarships are a gift award of money, generally in combination with other types of aid, to a student of at least average academic qualifications with an amount determined by financial need.

### Grant:

Grants are a gift award of money based upon financial need.

### Loan:

Loans are a repayable award to a student eligible for admission with the amount determined by financial need. At this time, JCC does not participate in the Direct Loan Programs or the Federal Family Education Loan (FFEL) Programs.

### Work Study:

Federal Work Study allows students with demonstrated financial need, enrolled at least half time, to earn money at an on-campus or off-campus job to help pay for their educational expenses.

## COLLEGE GRANT PROGRAMS

**Horizon Grant** -- Jefferson Community College has established a tuition grant program for Jefferson County residents to help in their pursuit of higher education. Grants for the 2007-2008 academic year will be awarded to high school seniors applying to the college from state-chartered, public, and private high schools, and approved home school programs. The high school graduate

must be a Jefferson County resident and have a cumulative final high school grade point average of 2.5 or better. The grant will cover tuition charges for credit courses for four successive (excluding summer) semesters of attendance, provided the student enrolls full time starting with the fall of 2007. The grant does not cover books, supplies, lab/materials or technology fees.

Students must apply for and use, if eligible, all federal and state financial aid sources before this grant will be applied.

**Upper Ohio Valley Grant** -- Jefferson Community College has established a tuition grant program for Jefferson County high school graduates. Grants for the 2007-2008 academic year will be awarded to residents from the Upper Ohio Valley counties bordering Jefferson County and West Virginia reciprocity counties, who graduate in 2007 FROM A JEFFERSON COUNTY HIGH SCHOOL (or have successfully completed a program offered by the Jefferson County Joint Vocational School). Recipients must have a cumulative final high school grade point average of 2.5 or better. The grant will cover tuition charges for credit courses for four successive semester of attendance (excluding summer), provided the student enrolls full time starting with the fall of 2007. The grant does not cover books, supplies, lab/materials or technology fees.

Students must apply for and use, if eligible, all federal and state financial aid sources before this grant will be applied.

## FEDERAL AND STATE AID LOAN AND OTHER PAYMENTS

### Federal Student Aid Programs (FSA)

Students must complete the Free Application for Federal Student Aid (FAFSA).

**Federal Pell Grant** -- The Federal Pell Grant is gift aid, which does not have to be repaid. The grant is available to full and part time students. The U.S. Department of Education's Expected Family Contribution (EFC) determines eligibility. For example, for the 2007-2008 aid year, students who have an EFC between

0 and 4110 will qualify for the Federal Pell Grant. The maximum Pell grant award for the 07-08 year is \$4,310.

**Federal Academic Competitiveness Grant (ACG)** - The ACG is gift aid, which does not have to be repaid. An Academic Competitiveness Grant will provide up to \$750 for the first year of undergraduate study and up to \$1,300 for the second year of undergraduate study to full-time students who are eligible for a Federal Pell Grant and who had successfully completed a rigorous high school program, as determined by the state or local education agency and recognized by the Secretary of Education. Second year students must maintain a cumulative grade point average (GPA) of at least 3.0.

### Campus-Based Programs

The funds in these programs are awarded directly to the college to distribute among those students who demonstrate financial need. In order to qualify for these programs, a student must complete the Free Application for Federal Student Aid (FAFSA). Funding for these programs is limited and is awarded on a first-come, first-served basis.

**Federal Supplemental Educational Opportunity Grant (FSEOG)** - The FSEOG is gift aid, which does not have to be repaid, for students demonstrating financial need. FSEOG awards must be targeted to exceptionally needy students with priority given to Pell Grant recipients.

**Federal Work Study (FWS)** - This program allows students with demonstrated financial need, enrolled at least half time, to earn money at an on campus or off campus job to help pay for their educational expenses. Tutoring, mentoring and community service positions are also available. Part-time employment averaging 10-20 hours week is available for students on this program.

### State Based Programs

For Ohio programs (Ohio College Opportunity Grant, Ohio Instructional Grant, Part-time OIG, the student must be a resident of Ohio (according to Ohio Law) for 12 consecutive months.

**Ohio College Opportunity Grant (OCOG)** - The Ohio College Opportunity Grant is for new students who begin college enrollment on or after the 2006-2007 academic year. The Ohio College Opportunity Grant Program (OCOG) provides need-based tuition assistance to Ohio students from low to moderate-income families. This program is a result of the merging of the Part-Time Instructional Grant and the Ohio Instructional Grant, with the intent to increase access to higher education. A first time freshman enrolled as full-time, three quarters time, half time or one quarter-time may be eligible to receive the award. Awards are based upon EFC (Expected Family Contribution). Awards may not exceed tuition and general fees.

**Ohio Instructional Grant Program (OIG)** - This program is available only for full-time students who are continuing or returning to college enrollment. This program provides need-based tuition assistance to full-time undergraduate students from low and moderate-income families. Awards are based on family income with consideration given to the number of dependents in the family. Awards may not exceed tuition and general fees.

**Part Time Ohio Instructional Grant (PT OIG)** - This campus-based program is available only for part-time students with 1-11 credit hours who are continuing or returning students. It provides financial assistance to Ohio residents who are enrolled for part-time undergraduate study. Eligibility is based on Ohio residency and financial need. These funds are awarded on a first-come first served basis. The college selects the recipients of these benefits and determines the amount of each award within guidelines established by the Ohio Board of Regents. Awards may not exceed tuition and general fees.

**IMPORTANT NOTE:** The Ohio Instructional Grant (OIG) and Part-Time Ohio Instructional Grant (PTOIG) are being phased out and the anticipated phase-out is expected to be complete in 2010. The Ohio College Opportunity Grant (OCOG) replaces both of these state programs and awards funding to both full and part-time enrollees.

#### Alternative Education Loans

In addition to, or in place of federal, state, institutional and private financial aid programs, there are alternative loan

programs offered by various lending institutions to assist students in paying for their educational expenses. Jefferson Community College's Office of Financial Aid has information and applications for what third-party alternative loans that are available. The loans are negotiated between the student and the bank and often times a credit check is required for approval. Students may borrow up to the cost of attendance. Approval is solely at the discretion of the lending institution. Contact the Financial Aid Office for further information.

#### Other Sources of Aid

Jefferson Community College works closely with many local agencies to assist students in securing funds for college. The agencies include Workforce Investment Act (WIA), Bureau of Vocational Rehabilitation (BVR), and Trade Adjustment Act (TAA). For more information, students must contact the individual agency.

## SCHOLARSHIPS

Jefferson Community College offers a limited number of scholarships. Eligibility is based on academic excellence and personal achievement. Financial need is considered as an underlying factor. Applications for scholarship are taken each spring through March 1 (unless an earlier date is specified by the donor) for the following academic year. Applications are available at the Financial Aid Office. The college will not discriminate in the administration of these programs against any individual on the basis of race, color, national origin, sex, religion, or handicap.

**Alumni Scholarship** -- Two \$500 scholarships will be offered to full-time Jefferson Community College students who are in the last year of study. It is based upon student involvement, academic performance, and financial need.

**Douglas and Betty Applegate Public Service Scholarship** -- This scholarship will be awarded to a Jefferson County resident with a cumulative grade point average of 3.0 or better who has completed at least 12 semester credit hours of coursework at JCC. The student should be pursuing a degree in the field of political science, government or public administration. A student who is enrolled in the Associate of Arts or

Associate of Science program who intends to transfer to a four-year college to pursue a bachelor's degree in one of these fields would be eligible to apply. The recipient will receive an award of \$800 (\$400 per semester) for one academic year of full-time study at JCC. The recipient must maintain a 3.0 grade point average to retain eligibility.

**Bergholz Community Foundation Scholarship** - This scholarship was established by the Bergholz Community Foundation in 2005. The foundation's goal is to assist residents of the Edison Local School District pursuing an associate degree or certificate. Recipient must have a 2.5 GPA or above in high school or previous college work. The scholarship fund will be an endowed, restricted fund in which the interest income only shall be distributed for scholarship use.

**Berkman Scholarship** - The Berkman Scholarship was established in 2002 by Louis Berkman whose goal is to assist local residents pursuing an associate degree or certificate in higher education at JCC. The scholarship fund will award a scholarship up to the amount of tuition for an eligible recipient after all other aid is applied. Any employee or dependent of an employee of Louis Berkman Co. will receive first consideration for the scholarship. If there are no employees or dependents of employees eligible, the scholarship will be available to assist other qualified full- or part-time students.

**Blaner Gift in Memory of Barbara Blaner Shields** - This gift was established in 2002 by Dorothy Blaner in memory of her sister, Barbara. Barbara Blaner Shields enrolled at the Jefferson County Technical Institute in fall 1969 and graduated with an Associate of Applied Business Degree in business management in 1972. During her life, Barbara worked in visual fashion display, in a local credit bureau business, and in the food services department of a city school district. She was a beloved mother, wife, daughter, sister, and aunt. Her life is honored by providing a monetary gift in the amount of \$300. The scholarship will be awarded to a graduating JCC student who is transferring to a four-year college and is pursuing a bachelor's degree in the field of culinary arts, education, or business. The recipient must be a resident of Toronto, Ohio.

**Board of Trustees Academic Scholarship** -- An academic scholarship is offered to a member of the senior class from every high school in Jefferson County to attend Jefferson Community College full time. Eligibility criteria are high school class rank and overall quality point average. Applications are available through the high school guidance office and are due by April. The scholarship will cover four semesters of tuition, fees, and the cost for necessary books and supplies per semester.

**Civic Service League of Steubenville Scholarship** -- This scholarship is available to any Jefferson County resident who is enrolled full time or part time at Jefferson Community College. The scholarship is available to new or continuing students and there is no minimum number of credit hours required for eligibility. The award is \$200 per year with \$100 received each semester. The recipient will be required to maintain a 2.0 grade point average in order to continue receiving the scholarship for the second semester. The scholarship recipient must demonstrate outstanding scholarship.

**Rev. George Crenshaw Scholarship** -- The Rev. George Crenshaw Memorial Scholarship Fund was established in 1993 in memory of the Rev. George Crenshaw by family and friends. It is an endowed, restricted scholarship fund in which the interest income only will be distributed to needy and worthy full- or part-time students from Jefferson County. The scholarship is designed to assist students pursuing an associate degree or certificate at Jefferson Community College.

**Arthur J. D'Anniballe Scholarship** -- Founding member of the college, Arthur J. D'Anniballe established this scholarship in 2006. He served on the Board of Trustees for 25 years, 15 of those years as chairman. He is also a founding board member of the JCC Foundation Inc., on which he continues to serve. His goal is to assist local residents who are pursuing an associate degree or certificate. Recipient must be a graduate of Steubenville or Catholic Central High School. The student must have maintained at least a 2.5 GPA in high school or at JCC and be enrolled a minimum of 6 credit hours. The scholarship fund will be an endowed, restricted fund in which the interest income only shall be distributed for scholarship use. The scholarship amount

will be determined each year based on the estimated amount of the interest income. Students must first apply for all available federal and state funding. If an applicant has received financial aid to cover all costs, the student would be ineligible for the scholarship.

**Defenbaugh Scholarship** -- This scholarship is for second-year students who have completed 30 credit hours and are enrolled on a full-time basis, working toward an associate degree. The scholarship was established by the Board of Trustees at the college.

**Edith Forester Scholarship** -- The memorial scholarship in the amount of \$120 is for a full- or part-time student accepted in the Practical Nursing Program. Applicants must be Jefferson County residents, have a minimum 3.0 GPA, and have a high school transcript on file. All federal and state aid must be used first to cover costs.

**Nina Gentile Scholarship** -- The Nina Gentile Scholarship was established in 2002 by Tony Gentile to honor his wife, Nina. The Gentiles' goal is to assist residents of Jefferson County pursuing an associate degree or certificate in higher education at JCC. The scholarship will award two \$500 scholarships to incoming freshmen each academic year. The scholarship is for full- or part-time students.

**Thomas George Scholarship** - The Thomas George Scholarship will be awarded to a graduating senior of Edison High School. First priority is given to any "heirs at law" of Thomas George. If no George heir applies or is eligible, the recipient may be any other graduate. The student must have a cumulative GPA of 2.5. The recipient will be selected by officials at Edison High School. This award is for a full- or part-time student.

**Hart Scholarship** - The Thomas R. and Beth Hart Scholarship was established in 2003. Mr. Hart retired from Jefferson Technical College in 1990 as an associate professor in business technologies. The accounting program was Mr. Hart's interest and specialty. The Harts' goal is to assist residents of Jefferson County pursuing an associate degree in accounting technology at JCC. The scholarship will award a \$300 scholarship to an accounting student in his/her last semester of the accounting degree program providing adequate funding is available. Full- and part-time students may apply.

**JCC Foundation Scholarship** - This \$500 scholarship is to assist non-traditional students who are ineligible to receive financial assistance. Student must reside in Ohio or Brooke, Hancock, Marshall, Ohio or Wetzel counties in West Virginia. Students must apply for all assistance through the Free Application for Federal Student Aid (FAFSA). The recipient must take at least six credit hours.

**JCC Leadership Book Stipend** -- Any student attending or planning to attend JCC may apply for a book stipend for the first year (two semesters) at the college. The applicants must be a full-time student with at least 12 credit hours per semester and possess the following leadership skills: demonstrate leadership activities in high school or community service organizations, must join and take a leadership role in Student Senate upon acceptance at JCC, and maintain a 2.5 GPA. The stipend will pay for book charges of the student's first semester and will not exceed \$500 per semester. The second stipend is contingent on how well the participant has fulfilled his/her commitment. The student activities coordinator has application forms.

**JCC Scholarship** - This \$300 scholarship was established by the staff and faculty at JCC. The recipient must be pursuing an associate or certificate degree, must have a cumulative GPA of a 3.0 and have completed a minimum of 24 credit hours.

**JCC Second Chance Scholarship** -- The Second Chance Scholarship was established by JCC to aid students who have been determined ineligible to receive federal and/or state financial aid because of their previous academic record. The scholarship is designed to assist students pursuing an associate degree or certificate at the college. The scholarship can cover tuition, fees, books and supplies up to \$1,300 depending on the student's enrollment plans.

**Samuel and Grace H. Johnston Scholarships** -- The Samuel and Grace H. Johnston Scholarships are memorial scholarships established by the late Samuel and Grace H. Johnston. Samuel Johnston was a trustee emeritus of Jefferson Community College. Scholarships in the amount of \$1,200 will be awarded to students enrolled in the engineering or computer science programs at the college. Applicants must

be working toward an associate degree and enrolled on a full-time basis. The student must also have a minimum grade point average of 3.0 if matriculating from high school or JCC. Priority for these scholarships will be given to incoming first-year students.

**McClellan Trust Fund** -- The trust fund is a memorial established by the late Mrs. Lavina McClellan in memory of herself and her husband, the late F. Fred McClellan. Up to three recipients may be selected per year up to a maximum award of \$750. Student must have a 2.75 GPA or above. Three recipients pursuing an associate degree or certificate with demonstrated financial aid need will be selected.

**Nick A. Mougianis Memorial Scholarship** - The Nick A. Mougianis Memorial Scholarship was established in honor of Mr. Mougianis who served on the JCC Board of Trustees for 15 years and who served as board chairman for nine of those years. Mr. Mougianis was an insurance executive with Nationwide Insurance and his family and his fellow insurance professionals established the scholarship. The recipient must be pursuing an associate degree or certificate and must maintain a cumulative grade point average of 2.0 or better. A student is not eligible if (s)he has adequate funds from financial aid to cover all tuition, fees and book costs.

**Helen L. And James F. Murray Scholarship** - This scholarship was established by James F. Murray in loving memory of his wife, Helen Louise Poindexter Murray. The recipient must be a graduate from Steubenville High School and pursuing an associate degree at JCC. Applicants must have a minimum 2.0 GPA. The \$500 award is for a full- or part-time student.

**Naylor Scholarship** -- This is a scholarship established by Douglas F. Naylor to assist part-time students who have achieved at least 25 credit hours and who are working toward an associate degree. The scholarship will be in the amount of \$750. Two recipients are selected.

**Ohio Valley Panhellenic Scholarship** - The Ohio Valley Panhellenic Scholarship was established by the Ohio Valley Panhellenic Association. The scholarship is designed to assist nontraditional, part-time students pursuing an associate degree or certificate at the college. The

student must have completed at least six semester hours with a cumulative grade point average of 2.5 or higher prior to application. The scholarship is in the amount of \$400.

**Project BEST Scholarship** -- The Project BEST Scholarship Fund was established by the Board of Directors of Project BEST, (Building Efficiency by Striving Together), a construction industry labor-management cooperative committee. Any employee or dependent child of a participating contractor and/or participating construction trade union who plans to enter Jefferson Community College to pursue an associate degree is eligible to apply ("participating" means those contractors and/or construction trade unions participating in contributions made by Project BEST). The scholarship is to be used solely for educational expenses such as tuition, fees, and books. The basic eligibility criteria is determined by Project BEST. Two \$1,000 scholarships will be awarded.

**Senior Citizens** -- Ohio residents over 60 years of age may enroll for regular credit courses at the college and not be required to pay tuition or application fee through Jefferson Community College Senior Citizen Scholarship Program. The scholarship does not cover books, supplies, or lab/material or technology fees. Residents may enroll in credit courses on a space available basis provided they meet all prerequisites for the course.

**Steven E. Strupe Memorial Scholarship** - The family and friends of Steven E. Strupe established this memorial scholarship in 2005. The goal is to assist graduates of the Buckeye Local School District who exemplify the ideals Steven Strupe represented. The scholarship will be an endowed, restricted in which the interest income only shall be distributed for scholarship use. The recipient must be pursuing an associate degree or certificate in engineering at JCC. The student must have graduated from Buckeye Local with a 3.0 GPA or better. Additionally, if the applicant is currently enrolled at JCC, he or she must have maintained a minimum GPA of 3.0 at the college.

## APPLYING FOR AID

Financial aid applications are made available each January for the upcoming financial aid year, which begins with the Summer semester. Students should file their application as soon as their (and their parents, if applicable) tax information is available.

Completing the Free Application for Federal Student Aid (FAFSA) online is very efficient and convenient. Students who do not have Internet access can apply for financial aid by obtaining the paper FAFSA form from the Office of Financial Aid. Students mail the completed paper FAFSA to the federal processor. **Students should be aware this may take up to six weeks to process.**

The following steps should be taken when filing their FAFSA online:

1. Getting a PIN - Students and parents can save time by requesting personal identification numbers called PINs before the student applies for aid. If you are considered a dependent student for financial aid purposes, at least one of your parents must also have a PIN. The PIN can be used to electronically sign the FAFSA, which drastically decreases processing time. To request a PIN, go to [www.pin.ed.gov](http://www.pin.ed.gov)
2. Once a student receives their pin (usually within three to five days), they can apply for financial aid by visiting the US. Department of Education financial aid website at [www.fafsa.ed.gov](http://www.fafsa.ed.gov). Be sure to list the Federal School Code 007275 to ensure that your information is sent to Jefferson Community College. By completing this form, the student is applying for both federal and state grants. Students are encouraged to apply early for all grants, scholarships and awards for which they may be eligible. This avoids untimely delays and ensures maximum award eligibility.

### Verification:

The U.S. Department of Education selects approximately 30% of all FAFSA applicants for a process called verification. Verification is the process by which an educational institution confirms accuracy of the data reported (or not reported) on an individual student's FAFSA. If you are selected, students will

be asked to complete a Verification Worksheet (Independent or Dependent, as the case may be) along with certain documents. Such documentation may include signed copies of the most recent Federal income tax return for you, your spouse (if any) and your parents (if you are a dependent student), proof of registration with Selective Service, copies of Social Security benefit statements, W-2's and 1099 forms. Spouse or parents' information, as well as other supporting documents may be requested, and may require students obtaining documentation from local, state, or federal agencies.

**NOTICE:** If your application is selected for verification, you must complete the verification process before your eligibility for financial aid can be determined, and therefore, before financial aid can be disbursed to you.

The Financial Aid Office may select someone for verification in addition to those selected by the U.S. Department of Education. If you are selected for verification of information, you are required by federal regulations to cooperate in the verification process.

#### Eligibility:

Federal financial aid is available to anyone who meets the following criteria:

1. Have a financial need as determined by your financial aid application (FAFSA), and reviewed or certified by Jefferson Community College Office of Financial Aid.
2. Have a high-school diploma, a GED certificate, or pass an approved ability-to-benefit test.
3. Be enrolled or accepted for enrollment as a regular student in an eligible certificate, associate or transfer degree program.
4. Be a U.S. citizen or eligible non-citizen
5. Have a valid Social Security Number.
6. Meet standards of Satisfactory Academic Progress (SAP).
7. Not be in default on an educational loan nor owe a refund to any financial aid office. To track your federal student loans and grants, visit the National Student Loan Data System (NSLDS) Student Access Web Site at [www.nslds.ed.gov](http://www.nslds.ed.gov)

8. Certify that all information you provide on the Free Application for Federal Student Aid (FAFSA) application form is accurate and true, and that federal aid received will be used only for educational purposes.
9. Be registered, or formerly registered, with the Selective Service System, if you are a U.S. citizen or immigrant alien male aged 18 through 26. If you have not yet registered, you can do so at [www.sss.gov](http://www.sss.gov).

State and external scholarships/funding agencies may have their own eligibility requirements. It is the student's responsibility to learn and understand the eligibility requirements of the funds they apply for and/or receive.

Since financial aid is initially awarded without regard to any outside sources of aid other than those the student listed on the application forms, a student's aid may be adjusted if outside awards are received. It is the obligation of each financial aid recipient to report all external grants and scholarships to the Financial Aid Office.

## PAYMENT OF AID

**Jefferson Community College uses a "freeze" date each semester to determine a student's enrollment status for awarding financial aid. The number of credit hours in which a student is enrolled on the freeze date is used to calculate the amount of federal financial aid the student will receive. This means that if a student adds or drops classes before the freeze date, the amount of financial aid for which the student is eligible will be affected. If classes are added or dropped after the freeze date, the financial aid will not change.**

The exception to this policy is students who withdraw from all of their classes or who do not attend class(es). These students will have their financial aid recalculated based on their last day of attendance. As a result, a student could owe a refund to a grant program, to the college, and/or may jeopardize eligibility for future financial aid. Before withdrawing or dropping any classes that would reduce registered credit hours, students should consult with the Financial Aid Office staff to help determine the impact this would have on financial aid eligibility.

## ATTENDANCE VERIFICATION

To be eligible for federal financial aid, attendance in class must be verified. Instructors will provide attendance information directly to the Office of Financial Aid. Instructors will determine your attendance for all courses, including online courses. For online courses, attendance is monitored either by tests taken or assignments submitted.

Should a situation arise where you do not establish attendance, your financial aid will be reduced down to the amount of credit hours you actually attend. For example, if you register for 12 credits at the beginning of the semester and the financial aid office receives attendance information from one instructor stating you never attended a three-credit hour course, your financial aid will be reduced to three-quarter enrollment. This could leave you in an "owing" situation with the college.

For classes that begin later in the semester (flex classes), financial aid for those classes will be disbursed once the class has started and attendance has been confirmed. Once attendance has been verified, any refund to which a student is entitled will be mailed to the student.

## SATISFACTORY ACADEMIC PROGRESS (SAP)

The Higher Education Act (HEA) of 1965 mandates institutions of higher education to establish a minimum standard of academic progress for students receiving federal financial aid under Title IV programs. Students who receive financial aid at Jefferson Community College must maintain satisfactory academic progress in an eligible degree or certificate program. Federal regulations require that your entire JCC record be reviewed for satisfactory academic progress, including terms for which you did not receive financial aid. These standards should not be confused with Probation or Good Standing as defined by academic regulations.

The Standards of Academic Progress (hereinafter referred to as "SAP") are established within the framework of applicable federal regulations specifically for the purpose of determining the eligibility of students to receive aid under the

generally funded Title IV programs, which include the following: Federal Pell Grant, Academic Competitiveness Grant (ACG), Federal Supplemental Educational Opportunity Grant (FSEOG), and Federal Work Study (FWS). Additionally, JCC applies these standards to all institutional grant and scholarship programs (i.e. Horizon Grant, Upper Ohio Valley Grant and Board of Trustees Scholarship).

#### Semester SAP Review

The college will measure the satisfactory academic progress of students receiving financial aid at the end of each semester. It is the responsibility of the student to be aware of his/her Satisfactory Academic Progress status for financial aid eligibility. The Financial Aid Office will notify students in writing as to the status of their aid. However, due to the limited time period between semesters, it is not always possible to notify students of their financial aid probation/suspension status before the start of the subsequent semester.

The standards were established to encourage students to successfully complete courses for which financial aid is received and to progress satisfactorily toward degree completion. Successful completion of a course is defined as receiving any of the following grades: A, B, C, D, or P. These grades are not considered successful course completion: F, W, I, N, or U.

Standards of Satisfactory Academic Progress (SAP) are measured using the following criteria:

A. Qualitative Standard - The student must maintain a minimum cumulative 2.00 grade point average (GPA) after attempting 24 semester credit hours at the college.

Transfer credit hours will not be included in the qualitative GPA measure.

Except for courses, which are repeated as a requirement of a specific curriculum, the last grade earned will be used in the computation of cumulative GPA when multiple attempts of a course exist. However, grades otherwise forgiven in the computation of cumulative GPA under the college's Fresh Start policy will be included in the computation of cumulative GPA for financial aid purposes.

B. Quantitative Standard - Each semester, a student must complete a percentage

of all credit hours attempted, according to the following schedule:

Credit Hours Attempted	Credit Hours That Must be Completed
12	9
9	6
6	3
2-5	2
1	1

A student's academic progress will be measured by comparing the number of attempted credit hours with the hours successfully completed. The result will be one of the following:

**Good Standing** Student is eligible to receive all types of aid.

**Probation** Student will continue to receive aid, but will be monitored closely and must meet good standing criteria by the end of the probation term.

**Suspension** Student is not eligible to receive federal financial aid, but still retains eligibility for state funds for one additional semester.

C. Maximum Time Frame (MTF) - The student must complete his or her program of study in a time frame not to exceed 150 percent of the published length of the program for full-time students. This will be measured in credit hours (e.g., if the academic program length requires 60 credit hours, maximum time frame cannot exceed 90 credit hours attempted).

Students who have been accepted into a program which qualifies for federal financial aid and who are required to take developmental courses as determined by placement testing, may receive federal financial aid for up to 30 semester hours of developmental coursework. The student's maximum time frame will be extended by the number of credit hours earned in each developmental course, subject to the 30-semester hour limitation.

The maximum time frame measure includes all attempts at a course (includes repeated courses).

The maximum time frame measure includes credit hours otherwise marked as forgiven under the college's Fresh Start policy.

All transfer credit hours applicable to the student's program of study will be

included in the measurement of maximum time frame.

#### Change in Major or Degree

If a student changes majors, he/she is still required to complete the degree or certificate within the maximum time frame.

If a student graduates from a program of study at the college and desires to pursue another program, that student will assume the maximum time frame of the new program less any attempted hours related to courses not required in the program previously completed.

#### Appeal of Financial Aid Suspension

A student who has lost financial aid eligibility due to extenuating circumstances may appeal. Only one appeal is permitted throughout the student's academic career at JCC.

Extenuating circumstances that may be considered include:

- Personal illness or accident
- Serious illness or death within the immediate family
- Or other circumstances beyond the reasonable control of the student.

A completed "Appeal of Suspension of Financial Aid" form, including appropriate documentation, must be submitted to the Office of Financial Aid. Examples of documentation could include:

- An obituary notice, divorce decree, letter from a physician, attorney, social services agency, parole officer, etc.

#### Reinstatement of Financial Aid Eligibility

A student whose financial aid eligibility has been terminated or whose Appeal of Suspension of Financial Aid has been denied may conditionally regain his/her financial aid eligibility by successfully completing enough credit hours at his/her own expense and maintain all provisions of SAP. It is the student's responsibility to notify the Financial Aid Office when this condition has been met.

#### WITHDRAWING FROM JCC/R2T4

The Higher Education Amendments of 1998 mandates that students who withdraw (officially or unofficially) from all classes may only keep the financial aid they have "earned" up to the time of withdrawal. If you withdraw from school be-

fore 60% of the semester is over, you may have to return a portion of the funds received, even if your withdrawal is not determined until after the end of the term. Federal financial aid covered under this regulation includes PELL, ACG and FSEOG grants (Title IV Funds).

The withdrawal date used in the recalculation of a student's federal financial aid is the actual date the official withdrawal form is processed by the HOST Center. If a student stops attending classes without notifying the college, the withdrawal date will be the midpoint of the semester or the last date of recorded attendance in class.

Title IV funds that were disbursed in excess of the earned amount must be returned by Jefferson Community College and/or the student to the appropriate federal program.

The JCC Financial Aid Office will notify students if they owe federal funds back to the government. The student will be billed for the amount the student owes to the Title IV programs resulting from the Return of Title IV funds calculation. Any grant amounts the student has to return to the federal government must be repaid within 45 days after they receive notification from the Financial Aid Office. Students who owe an overpayment of Title IV funds are ineligible for further disbursements from the federal financial aid programs at any institution until the overpayment is paid in full or payment arrangements are made with the U.S. Department of Education. After 45 days, any Title IV repayment balance will be referred to the Department of Education for collection if satisfactory payment arrangements have not been made. Additionally, a national hold will be placed on a student's future aid eligibility at any institution through NSLDS (National Student Loan Data System).

The student may also be billed by the JCC Business Office for any amount due the college resulting from the Return of Title IV funds to cover a tuition and fees balance that resulted after the college returned its unearned portion of the federal funds calculation that were used to cover tuition and fees. If a student does not pay funds due to the college, the student's records will be placed on financial hold. This means the student will not

be permitted to register for classes or receive transcripts until the balance is paid. Additionally, after 60 days, the balance that remains on the student account will be turned over to the Ohio Attorney General for collection.

The JCC Financial Aid Office encourages students to read this policy carefully. If a student is thinking about withdrawing from all classes PRIOR to completing 60% of the semester, the student should contact the Financial Aid Office to see how the withdrawal will affect any financial aid.

## DENIAL OF AID

Aid may be denied for several reasons: no need or insufficient demonstrated financial need, lack of institutional funds, failure to make satisfactory progress toward completion of the certificate or degree, default on a federal student loan or failure to submit required documentation.

## RIGHTS AND RESPONSIBILITIES

Students should read all information provided in the process of applying for financial aid in order to gain a greater knowledge of all the rights, as well as responsibilities, involved in receiving aid.

## RENEWAL OF AID

Financial aid is NOT automatically renewed each year. Students must reapply each year to be considered for financial assistance.

## VETERANS EDUCATIONAL BENEFITS INFORMATION

Veterans attending JCC may be eligible to receive benefits through the Department of Veterans Affairs when pursuing most associate degree programs. The veteran's coordinator is located in the Financial Aid Office.

### How to Apply for Benefits:

Veterans or eligible dependents wishing to enroll should:

1. Contact the Financial Aid Office's veteran's coordinator.
2. Complete the VA Application Form for Education Benefits. The VA application form is available from the Veterans Office 1-888-GIBILL-1 or is online at [www.gibill.va.gov](http://www.gibill.va.gov). This form should be completed before the start of the enrollment period.
3. Provide a copy of the Veteran's DD214 (Authorization for Separation from Active duty) or Certificate of Eligibility for Chapter 1606.
4. Indicate the applicant's VA claim number on the application, if a prior claim was filed with the VA.
5. Enroll every term in courses meeting the curriculum requirements in the student's program of study.

Each term the college veteran's coordinator reviews and certifies each veteran for the number of credit hours taken.

### Change of Course Schedule

Veterans who wish to change their course schedules during the term should inform the veteran's coordinator immediately so that courses that are part of the VA approved program can be certified for payment.

### Responsibilities of Veteran Students

Veteran students should be sure to:

1. Consult with an advisor and enroll in courses meeting the curriculum requirements of the program of study.
2. Attend classes regularly and complete course requirements satisfactorily to continue receiving VA benefits.
3. Notify the veteran's coordinator when they:
  - Drop or add courses
  - Withdraw from classes
  - Stop attending classes on a regular basis
  - Change name, address and/or telephone number
  - Change educational major
  - Have any concerns or questions about benefits

# TUITION AND FEES

## INSTRUCTIONAL, GENERAL, AND SURCHARGE FEES

All instructional, general, and surcharge fees are based on the number of credit hours and the student's residency status. **Before calculating your fees, students should check at [www.jcc.edu](http://www.jcc.edu) for current fee rates.** The following are the 2006-2007 rates:

Jefferson County

\$90 per credit hour

Other Ohio Residents

\$96 per credit hour

Brooke, Hancock, Ohio, Marshall and Wetzel Counties in West Virginia

\$96 per credit hour

Out of State

\$123 per credit hour

Foreign

\$155 per credit hour

All residents of Ohio and of Brooke, Hancock, Ohio, Marshall, and Wetzel Counties in West Virginia not registered for Selective Service or not filing exemption statement

\$123 per credit hour

## SELECTIVE SERVICE REGISTRATION COMPLIANCE

House Bill 845 of the Ohio Revised Code requires that any male Ohio resident or male receiving benefits under Sections 3333.12, 3333.21, 3333.22, 3333.26, 3333.27, 5910.03 and 5910.032 of the ORC, being charged instate tuition by an Ohio public-assisted institution must be registered with or qualify for an exemption to registration of the Selective Service system in accordance with the Military Selective Service Act 62 Stat. 604, U.S.C.A.P.P. 453, as amended. Students not registered with the Selective Service will be charged out-of-state fees (\$123 per credit hour). This regulation includes West Virginia students attending through the reciprocity (\$96 per credit hour) arrangement.

## APPLICATION FEE

A one-time nonrefundable fee is assessed for all full-time and part-time students. The application fee is not refundable when courses are canceled. Foreign application fee is \$100 and the fee for all others is \$20.

## DOCUMENTATION FEE

A documentation fee of \$150 is assessed all full- and part-time foreign students each academic semester.

## LAB/PARTICIPATION/MATERIALS TECHNOLOGY FEES

Lab/participation/materials/technology fees are charged to students enrolling in most courses to cover the cost of consumable materials, supplies, film badges, liability insurance or other special costs. The fee is listed in the schedule of classes. All online courses are charged a \$25 technology fee.

## AUDITING FEE

The fees for auditing a course are the same as a course taken for credit.

## NONCREDIT COURSE FEE

Noncredit course fees vary. Area residents should contact the Department of Workforce and Community Outreach for courses being offered and costs.

## PROFICIENCY EXAMINATION FEE

A fee of \$30 must accompany each petition for a proficiency examination. This fee is paid at the cashier's window of the Business Office.

## GRADUATION FEE

A nonrefundable graduation fee of \$75 must be paid one month before expected date of graduation. This fee includes the cost of cap and gown rental. The purchase

of graduation announcements and college ring is optional and will be paid separately by the student. All students completing the degree or certificate requirements are required to participate in the graduation ceremony. Students must have submitted a graduation candidacy request form and have on file with the college an official copy of their high school transcript or GED score before graduation is permitted.

## PAYMENT PLAN

**Deferred Payment Plan** -- Students are required to pay a 20% down payment on the total bill of current tuition costs prior to the semester payment deadline. The balance of the semester's tuition is due by the deadline established by the college's Business Office. Students may make weekly, monthly, or a lump sum payment prior to the due date.

## FOREIGN STUDENTS

Any person holding a student or other temporary visa will be considered a foreign student and shall not be considered a resident of Jefferson County or the state of Ohio or the USA for purposes of tuition calculation.

Foreign student admission requirements are as follows:

1. Graduation from secondary school;
2. Minimum score of 500 on the Test of English as a Foreign Language (TOEFL);
3. Proof of ability to pay for the planned education; note: all financial aid programs at Jefferson Community College require U.S. citizenship; submit completed U.S. Immigration and Naturalization Service Affidavit of Support (Form I-134);
4. A sponsor in the Steubenville area who will provide housing.

The above requirements must be satisfied at least two months before the beginning of the first semester in which the foreign student wishes to enroll. Once the above requirements are satisfied, an I-20 Application for Visa and a college admission application will be sent to the foreign student.

Foreign student costs:

Application Fee: \$100 submitted with application

Documentation Fee: \$150 per semester

Tuition: \$155 per credit hour

## SENIOR CITIZENS

Ohio residents over 60 years of age may enroll for regular credit courses at JCC under certain conditions and not be required to pay tuition through the JCC Senior Citizen Scholarship Program. The scholarship does not cover lab/materials/technology fees, books, or supplies.

In order to participate in this program, Jefferson County residents should contact the Financial Aid Office.

## NON-PAYMENT OF FEES AND OTHER OBLIGATIONS

Official grade reports, transcripts, and diploma will not be issued until the student has cleared all financial obligations with the Business Office or returned all overdue library books. Students with outstanding debts or overdue library books at the college will not be permitted to register for classes until obligations are paid in full.

In addition, under Ohio Law, outstanding balances are turned over to the Ohio Attorney General for collection.

## FINES, RETURNED CHECKS, AND CHECK CASHING

Vehicles of any person violating the college parking regulations which prohibits parking in access routes will be towed at the discretion of the college. These routes have been posted.

A fee of \$20 per check will be assessed to any person whose check is returned by the bank for any reason. Returned checks will not be redeposited by the college. Only cash or certified checks will be accepted after a second returned check is received by the college.

An identification card must be presented by the student in order to cash checks at the receptionist/information area. Checks made payable to Jefferson Community College can be cashed for \$10 or less. Only one check per day may be cashed.

## STUDENT REFUNDS

Students who are to receive refunds due to the dropping of classes for which they have paid will be mailed their refund checks after the second week of classes for fall and spring semesters. The mailing of refund checks during the summer sessions will vary according to the length of the session.

## REFUND OF TUITION

To receive a refund of all or part of the tuition paid for a semester or summer term, a student must have completed the withdrawal process prescribed by the college. A student schedule change form must be signed by the student and submitted to the HOST Center. The date used in calculating the amount of fees to be refunded will be the date that the official completed student schedule change form is received by the HOST Center. Refunds will be issued according to the following schedule of refunds.

Students dismissed by Jefferson Community College are not entitled to any refund of tuition and fees. Students are entitled to a full refund if the college cancels the course or does not permit a student to enroll or continue. Fees subject to refund are instructional, general, surcharge, and lab fees.

Refund of fees upon withdrawal from JCC is as follows for fall and spring semesters, and Summer Session III:

	<b>Tuition</b>	<b>Lab Fees</b>
Prior to first calendar day of the semester/Summer Session III	100%	100%
First 14 calendar days of the semester/Summer Session III (Saturday and Sunday are counted as calendar days.)	100%	100%

Refund of fees upon withdrawal from the college is as follows for Summer Sessions I and II:

	<b>Tuition</b>	<b>Lab Fees</b>
Prior to 1st calendar day of the summer session	100%	100%
First 7 calendar days of summer session (Saturday and Sunday are counted as calendar days.)	100%	100%

The first calendar day of a semester or summer session is the day the semester or term starts.

After the refund period, as outlined above, full or partial tuition and fee refunds are not made unless there are extreme extenuating circumstances. The student must file an appeal form.

Refund of fees for short term/flexibly scheduled courses is as follows:

Prior to the first day of the course, tuition and lab fees are refunded 100%. One hundred percent refund of tuition and fees after the start of the course is determined by the number of weeks in the course.

<b>Length of course in weeks</b>	<b>Calendar Days for 100% Refund</b>
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11 & above	14

## DELINQUENT STUDENT ACCOUNTS

Any student registering at the college is reserving a space in those assigned classes and potentially limiting other students from enrolling in those classes.

Students enrolled in classes must follow the college's withdrawal procedures in the time periods indicated in order to relieve themselves of the responsibility of tuition and fees for that semester.

Nonattendance at classes does not relieve tuition and fee obligations if the student does not complete the college's withdrawal procedures.

As an institution that is supported by state and local tax funding, the college has an obligation to the taxpayers to collect all fees due the college.

According to Ohio Revised Code Section 131.02, state-supported institutions must certify their delinquent debts to the Ohio attorney general for collection.

# ACADEMIC STANDARDS

## DEGREE REQUIREMENTS

The Associate of Arts Degree, Associate of Science Degree, Associate of Applied Science Degree, Associate of Applied Business Degree, or Associate of Technical Study Degree is awarded to those who successfully complete:

1. A two-semester sequence in English or communications skills;
2. A minimum of 30 semester hours of technical courses (determined by the graduate's curriculum) if not in an AA or AS degree program;
3. The remaining required semester hours which include the general and basic-related required courses and appropriate electives;
4. A program curriculum chosen from the list of associate degrees available at Jefferson Community College;
5. A minimum of 18 semester credit hours completed in residence at Jefferson Community College;
6. Participation in the commencement exercises; all graduates are required to attend the May commencement ceremony; requests to be excused from attending must be based on extraordinary circumstances and must be **submitted in writing along with written documentation** regarding the circumstances to the executive vice president for academic and student affairs two weeks before the graduation ceremony; the executive vice president for academic and student affairs will approve or disapprove the request based upon the reason and evidence submitted;
7. A 2.00 overall average at Jefferson Community College and if in a technology obtain a minimum of a "C" in each of the core courses identified; exceptions may be made by the department dean;
8. A student who has attained a cumulative grade point average of 3.50 or higher will receive honors recognition. Students with a cumulative grade point average of 3.50 to 3.749 will be awarded the recognition of cum laude; students attaining a 3.75 to 3.899 will be recognized with the title magna cum laude; and students achieving a 3.90 or higher will be awarded a degree with summa cum laude.

Several programs offer certificates for graduation. The minimum requirements for certificate completion are found in the catalog description of the particular certificate program and are applicable.

All potential graduates must file an application for the associate degree or certificate through the executive vice president for academic and student affairs' office during the semester preceding the semester in which the program will be completed. The curriculum and degree requirements listed above are consistent with the Ohio Board of Regents' basic standards for granting the associate degree for approved Associate of Arts, Associate of Science and applied technical degrees. An official transcript, GED certificate, or other proof of graduation must be on file with the college before an associate degree or certificate can be awarded.

## STUDENT COMPETENCY

Jefferson Community College has developed a process of education which requires a student to be competent in a designated major field before the student can graduate. Competency is defined as the ability to apply the essential skill and knowledge to perform in an occupation. Faculty's objectives are to teach and assist the student in learning and demonstrating this competence. This requires the faculty member to use a number of measurement techniques: performance examinations, on-the-job observations, and evaluations of supervisors and the student. It is recognized that the measurement process is subject to financial, physical, and instrument limitation.

## ACADEMIC HONESTY AND STUDENT INTEGRITY

Student integrity and scholastic honesty are an integral part of the college's scholastic standard, academic quality, and a foundation for our society.

The college will not tolerate the breach of this integrity through cheating, plagiarism, or other forms of academic dishonesty. Faculty and staff will take precautions to prevent academic

dishonesty, but it is also the student's joint responsibility to report known infractions to any college employee. Infractions impact the final grade/CPA of **all** students as well as the reputation of the college and the value of the degree earned. Confirmed violations may result in a failing grade on an assignment(s) or in the course(s).

Repeated incidents of scholastic dishonesty or a flagrant single offense may warrant action beyond a failing grade in the course.

Offenses which may warrant additional disciplinary action including disciplinary probation, professional probation, suspension, or expulsion, include the following:

1. Cheating, plagiarism, or other forms of scholastic dishonesty, including the use, without permission, of tests or other academic material belonging to a member of the college faculty or staff.
2. Furnishing false information to the college with intent to deceive.
3. Forgery, alteration or misuse of college documents, records, or identification cards.
4. Misuse of computer privileges, including unauthorized use of software, an account number, password, program or file. (See Computer Use Policy)

The student may appeal any actions affecting enrollment or grade using the Student Complaints/Appeals Process described in this catalog applies.

Students should read the Academic Honesty and Student Integrity Policy posted on the college's web site [www.jcc.edu](http://www.jcc.edu).

## MARKING AND CREDIT SYSTEM

The quality of course work at Jefferson Community College is indicated by means of letter grades. Each letter grade, in turn, carries "quality points" which are used in computing the student's "cumulative point average (CPA)." Academic achievement which reflects competency will be recorded in letter grades at the end of each semester or summer term for all course work for which credit

is granted. The credit hours attempted and quality points attained will enter into the computation of the student's cumulative point average.

The marking system in tabular form is as follows:

	Quality Points Per Semester Hour
A - Superior Quality	4.00
B - High Quality	3.00
C - Average	2.00
D - Below Average	1.00
F - Failing	0.00

I - The grade of "Incomplete" (**I**) may be given if a student, for reasons beyond his/her control, is unable to complete the work of a course by the end of the enrollment semester.

The student **must** arrange with the instructor to complete the requirements of each incomplete course within six weeks of the end of the current semester. If the student does not fulfill the course requirements as arranged, the incomplete grade "I" will be automatically converted to an "F" on the student's transcript at the end of the six-week period.

W - The grade of "Withdrawal" (**W**) is given after the second week of each regular semester or first week of Summer Sessions I, II and III. A student submits a withdrawal request form to the HOST Center on or before the published withdrawal date. A "W" is recorded for the grade on the student's permanent record and is not computed in the CPA.

P - The grade of "Pass" (**P**) is given for a passing grade in a credit, non-degree course or a credit lab. Credit hours are recorded, but this grade is not included in cumulative point average computation. Credits are added to cumulative credits achieved. In addition, the grade of "P" is used to designate all "C" credit accepted as transfer from another institution.

V - The grade of "V" is used to designate the transfer of a "D" credit course.

N - The grade of "Non-Pass" (**N**) is given for a non-passing grade in credit, non-degree courses or a credit lab and is not computed in cumulative point averages.

U - The grade of "Audit" (**U**) is given for credit courses in which the student elects to be an auditor. This grade is not computed in the cumulative point average.

## CATALOG-IN-FORCE

1. Requirements to earn a degree or certificate are based on the Catalog-In-Force at the time of the student's first term of study in his/her major.

2. First term of study is defined as that semester in which a student:

A. Has satisfied all prerequisite course work and other preconditions;

B. Has been fully accepted into a degree or certification; and

C. Has officially declared a major and registered for courses in the prescribed curriculum or major.

3. Credits for technical courses that have been earned more than five years prior to graduation will be subject to individual evaluation by the department dean and may, in some cases, need to be repeated.

4. Students who have been absent from the college for more than one year or who have been suspended and readmitted **must** follow the Catalog-In-Force requirements at time of their return. Additional requirements in specific programs may be applicable.

5. Exceptions to the above may be necessary when changes in certification or licensure standards mandate changes in academic requirements or in college programs. Additionally, courses in some disciplines occasionally may be deleted, changed or developed; therefore, the college may require substitutions to reflect these changes.

6. Final decisions regarding the Catalog-In-Force policy will be the responsibility of the specific department dean.

## ATTENDANCE POLICY

Since the mission of the college is to provide training and education that enables students to transfer to other education institutions or to secure immediate employment, the development of effective work attitudes is as important as the acquisition of technical skills. In industry, there are many examples of personnel policies which define guidelines for tardiness and absenteeism with resulting disciplinary action for those employees habitually late or absent. There are also many learning objectives in a college course which can be accomplished only when the student is present and participating in class discussion, exercises, simulations,

and laboratory activities. Therefore, in the effort to encourage and develop responsible work habits and to assure maximum benefit from its course offerings, each academic program has an established attendance policy. Individual instructors are responsible for providing the details of the policy in writing during the first week of class.

Regular and punctual attendance may constitute one component of the student's ability to get an excellent final grade in a course. The makeup of missed class/course material is **solely** the responsibility of the student

## CUMULATIVE POINT AVERAGE

A student's cumulative point average (CPA) is the quotient obtained by dividing the total number of quality points earned by the total number of semester credit hours attempted. The CPA is computed at the end of each semester and is reported with the grades to the student. Credits achieved are not used in grade point average calculation.

## GRADE REPORTS

Grade reports are issued to students at the end of the semester and recorded on the student's transcript. Any student with overdue library books or unpaid fees at the Business Office will not receive a grade report.

Any student enrolled in a regularly scheduled course whose performance is unsatisfactory will be sent a deficiency notice near mid-semester. It is **required** that students receiving deficiency notices make an immediate appointment with their advisor and/or the instructor of the course in which the student is deficient. The student must assume the full responsibility for making conference arrangements.

## ACADEMIC HONORS

An academic honors list will be prepared and published each semester. Students shall be named for such recognition according to the following criteria:

A student who has achieved a minimum of 12 credit hours during the semester and has earned a grade point

average of 3.5 or higher shall have obtained outstanding academic achievement warranting recognition on the Academic Honors List. Students named on the Academic Honors List may be eligible to participate in Jefferson Community College's Alpha Omicron Nu Chapter of the Phi Theta Kappa honor society.

## ACADEMIC RECOGNITION -- LESS THAN FULL-TIME STUDENTS

Any student, who attempts six or more semester credit hours but less than 12 semester credit hours in any single academic semester, is eligible to receive a letter of academic recognition if a grade point average of 3.50 or greater is achieved during that academic semester. The recognition offers the student, enrolled for less than twelve semester credit hours and ineligible to receive normal academic honors, a form of academic recognition. The letter does not make the student eligible to participate in the college's Alpha Omicron Nu Chapter of Phi Theta Kappa, and it cannot be used to place the student on the academic honors list. Three levels of recognition have been established. A semester GPA of 3.50-3.75 will receive a letter of excellence; a GPA of 3.76-3.90 an outstanding letter of recognition; and a GPA of 3.91 or higher will receive a letter of exemplary academic recognition.

Any student request for correction and/or appeal concerning the academic recognition program will be processed through the normal college complaints/appeals process, see catalog listings.

## REPEATING COURSES

A student may repeat a course in which a passing or failing grade has been received. In any case, the last grade earned will be counted in computing the grade point average at Jefferson Community College.

The student must secure permission from the department dean to repeat a course more than once.

## MAXIMUM LOAD

The course load of a student may not exceed 18 semester credit hours of course work in a regular semester without the approval of the department dean or the executive vice president for academic and student affairs. A student may not ordinarily enroll in more than 21 semester credit hours of course work in a regular semester. Permissible exceptions to the 18-credit hour rule include

1. A prescribed curriculum requires the student to carry more than 18 credit hours in a semester;
2. A cumulative average for four years of work in high school is of 3.00 quality or higher if the student is beginning college-level work;
3. A cumulative average for course work taken at JCC or at another recognized college or university is of 3.00 quality or higher.

During any summer term the course load of a full-time student may not exceed six semester hours; the maximum course load during the summer may not exceed nine hours, except as stated in 1.

## INDEPENDENT STUDY

As a general rule, the college discourages independent study arrangements of courses normally offered through its regular academic schedule. Exceptions will be considered only when the following conditions exist:

1. The course in question lacks sufficient enrollment to be held, and;
2. The course in question is necessary to maintain appropriate sequencing, and/or;
3. The course in question is required for graduation and the student is in his/her final semester, and;
4. The student is a regular, degree-seeking student and has been continuously enrolled at JCC.

Independent study courses must follow the established course syllabus, use the approved textbook and generally cover the same content and assignments established for the course. The courses are to be taught by full-time faculty within the program (if one is available). Independent study courses will not generally be allowed during the summer term. Independent study courses must be approved by the program director, department dean and the executive vice president for academic and student affairs.

## PROBATIONARY AND ACADEMIC SUSPENSION POLICY

**The extent to which a student's academic record is below a 2.0 average determines whether the student will be placed on probation, continued on probation, or suspended from the college. Each departmental academic standards committee will determine whether a student is subject to academic probation and associated credit hour limitations, or suspension under the following criteria:**

1. A student who has attempted fewer than 30 semester hours is placed on probation when the cumulative average falls below 1.6. The student who has attempted more than 30 semester hours is placed on probation when the cumulative average falls below 2.0.
2. A student will remain on probation until the cumulative average is increased to 2.0 or higher.
3. A student who fails any **required** core or technical subject identified by the program will be placed on probation regardless of the cumulative average. This probationary status will continue until the failed course is repeated and passed. (For a list of required core and technical courses, refer to individual departments and programs elsewhere in this catalog.)
4. A student will be suspended from the college for one or more semesters when any one of the following occur:
  - a) Any student with a cumulative average of 1.0 or less (including freshmen);
  - b) Any student with up to 15 accumulated hours and a cumulative average of 1.3 or lower;

c) Any student with more than 15 accumulated hours and a cumulative average of 1.5 or lower;

d) Any student who has been on probation for two or more regular semesters (excluding summer.)

e) Any student who has been suspended for a second time within a five-year period will be suspended for a minimum of 2 calendar years.

5. Students enrolled in selected health programs who fail a **required** technical or **sequential** subject **will be dismissed** from the program.

6. A student placed on academic probation will be informed of this fact and the related load limitation after grade reports have been issued via a letter from the department dean. A copy of this letter will also be filed in the student's permanent record and with the student's advisor.

**A student's improved performance subsequent to academic probation or suspension will be considered in further academic decisions.**

Counseling services at Jefferson Community College serve the primary function of helping students overcome barriers which block them from pursuing an educational or occupational goal. These barriers may take the form of personal concerns, an inappropriate choice of a major course of study, poor study skills, etc. Testing, counselor interviews, and materials are available to help a student overcome these barriers.

## ADVISING

Advisors help students reach their academic goals by guiding the students in class selection and scheduling. New and undecided students are scheduled by a HOST Center advisor. Continuing and returning are to be scheduled by advisors in their major course of study. Students should initiate and maintain contact with their advisors through graduation. Deans assign advisors to every student, and the advisors' lists are maintained by the deans.

### UNDECIDED STUDENTS

Students who set career goals have been found to reach these goals more often than students who do not set goals. Undecided students are strongly encouraged to meet with the counseling staff to decide upon a major as soon as possible.

### ORIENTATION

All new first-time/full-time students are required to attend an orientation class. This program is conducted by the student affairs staff in conjunction with the faculty to familiarize students with student activities, library services, adjustments to college life, programs of study, study skills, and other topics.

### TUTORING

The Learning Skills Lab provides a variety of tutoring options for students. All tutoring through the lab is free to JCC students. Peer-tutoring is available for

most courses offered at the college. A peer-tutor is a student who has taken the course previously or is currently in the same course and has been recommended by the instructor. Tutor times are flexibly scheduled between the tutor/tutee.

Help sessions in chemistry and anatomy are arranged each semester and are ducted by JCC instructors. A Math Lab and a Writing Lab also are available. Students needing help with any math course and any writing assignment from an JCC course are welcome to use the labs for assistance. These labs are staffed by JCC instructors. Additional information regarding tutoring can be obtained from the Learning Skills Lab.

### DISABILITIES SERVICES

Jefferson Community College is committed to providing reasonable accommodations for students with disabilities within the classroom. Reasonable accommodations may include alternative methods of testing and/or showing mastery of required material, modification of time allowances for testing and/or required projects, note-takers, interpreters, and/or approved assistance equipment, access to lecture notes and materials such as overheads. Effective and reasonable accommodation in the classroom does not include fundamental alteration of the curriculum, classroom standards, or length of class. Accommodations will be made on a case-by-case basis by the college.

Students are responsible for notifying the college regarding any disabilities for which they may need special services. Students are provided a Health Information Form at the beginning of their first semester. Forms also may be obtained at the Admissions Office. At this time, the student also should make arrangements to meet with Section 504 Student Manager Ella Paulman in the Learning Skills Lab. The manager will assist students in resolving immediate issues, provide assistance with academic concerns, and attempt to answer student questions. Pertinent documentation from a medical professional, psychiatrist, or psychologist must be provided to the Section 504 student manager.

### COLLEGE ATTENDANCE AND EMPLOYMENT

Many students find it necessary to work while attending college. With careful and realistic planning, work and study may be combined successfully. Each semester hour in which the student is enrolled often requires hours of study/preparation outside class; therefore, the following guide is strongly recommended.

The faculty recommends students employed full-time (40 or more hours per week) should attempt to carry no more than two courses (six to eight semester hours). Those employed part-time should carry a course load proportionate to their hours of employment.

# STUDENT REGULATIONS

## STUDENT COMPLAINTS/ APPEALS PROCESS

The college complaints/appeals process is available to any student who has concerns about college policies, who believes that college policies have not been properly applied to them, who have complaints about the actions or omissions of college employees, or who desire to request that an exception be made in their particular case. This process is designed to assist in resolving conflicts informally and where applicable, to provide students with due process. Matters which can be pursued through this process include, but are not limited to, equal opportunity, Americans with Disabilities Act, sexual harassment, accommodations, probation and suspension, acceptance of transfer credits, financial aid procedures, social penalties, refunds, and grading practices (grade appeals will only be considered within 12 months of when the grade was earned).

The complaints/appeals process is composed of informal and formal steps. It is the goal of the policy to resolve problems informally whenever possible. For this reason, students are advised to first discuss the complaint/appeal with the faculty or staff member with whom there is a disagreement or with his/her immediate supervisor before filing a formal complaint/appeal. In the case of a sexual harassment allegation, the student is not required to discuss the allegation informally with the alleged perpetrator. The college reserves the right to require the student to attempt to resolve the complaint/appeal in an informal manner before accepting and processing a formal appeal. Where applicable, the college reserves the right to require appropriate documentation before formally resolving an appeal.

The college will consider formal complaints as only those received in writing, signed by the complainant, and mailed or delivered to the college president or a vice president in the manner outlined in this policy.

To initiate the formal appeal process, the student must secure the Student Complaints/Appeals Form from any

academic and student affairs office, complete the form fully, attach any relevant documentation, sign and date the form, and submit this material to the executive vice president for academic and student affairs' office within ten (10) calendar days from the date the student should have been aware of the situation giving rise to the appeal. The executive vice president for academic and student affairs will route the appeal form to the appropriate department administrator, who will review the information and if appropriate, conduct an investigation, including meeting with the student and others if necessary, and render a decision in writing to the student within ten (10) calendar days. The student may appeal the decision of the department administrator to the college president within ten (10) calendar days of the receipt of the response by obtaining, completing and submitting to the president's office an Appeal to President Form, which is available in the executive vice president for academic and student affairs' office. For the purposes of this policy, the date of receipt of the department administrator's response by the student will be the date the response was mailed to the student's last known address, plus two days. The decision of the president or his designee shall be final. The president may appoint a designee to review/render a decision on the appeal if the president is unavailable to personally consider the matter.

The college may be required to report information regarding complaints received to its accreditation agencies or various units of government. When this information is reported, the college will delete any personally identifying information unless a specific law or government regulation requires its inclusion.

## STUDENT REGULATIONS COMMITTEE

Admissions to JCC carries with it obligations in regard to conduct both on campus and during the course of recognized and authorized off-campus activities. Students are expected to act in such a manner as to be a credit to both

themselves and to Jefferson Community College. Students are answerable to the laws governing the community as well as college regulations.

In order to provide the college community with a means for investigating incidents of social misconduct, the college has established the Student Regulations Committee.

### PURPOSES

Specific committee purposes are:

1. To hear cases of social misconduct and recommend disciplinary measures to be applied in cases involving infraction of laws or regulations
2. To investigate and make recommendations regarding situations where an infraction of laws or regulations may exist but in which no person has been formally charged

The president and executive vice president for academic and student affairs reserve the option of referring or not referring specific cases and problems to this committee before imposing social penalties on a student(s). In those situations in which the president or executive vice president for academic and student affairs imposes penalties without consultation with this committee, the student(s) may request that the committee review the facts of the case and make a recommendation. The president of the college reserves the right to veto appeals and recommendations from this committee.

### MEMBERSHIP

Membership of the committee shall consist of: the executive vice president for academic and student affairs (ex-officio-chairperson), the staff advisor to the Student Senate, a student records staff member, one faculty member at large appointed by the executive vice president for academic and student affairs, and the members of the Student Senate Executive Committee representing Business Engineering and Information Technologies/Undecided, and Health/Public Services Technologies.

Further student policies found in the catalog's Student Policies section.

## COMPUTER USE POLICY

Rules and policies regarding use of the computer facilities at Jefferson Community College are listed below. Adherence to the following responsibilities and liabilities are designed to protect the college's computer equipment. This will enable everyone to be able to use the computers more effectively.

1. The computers are to be used only for the development of class work assigned by an instructor of a credit or noncredit class/laboratory, or in association with the Learning Skills Lab.
2. All students using the computer labs must be registered in a credit class, a current continuing education course or signed in with the Learning Skills Lab.
3. Unauthorized use (commercial applications for personal reimbursement) or misuse (using programs or files not related to an authorized application, tampering with institutional data or programs, tampering with the operating system and/or related files, and sending or printing obscene or nearly obscene messages) are prohibited. Such usage may result in academic suspension or expulsion depending on severity or if a previous official warning was given.
4. The Department of Technology Services will take no responsibility for information altered or destroyed through negligence on the part of the user.

## CHILDREN IN CLASS

In order to provide an environment conducive to learning for all students and for safety reasons, the college prohibits parents or guardians from bringing children to class with them. Because it is recognized that many parents have regular or emergency child care problems, an on-campus Preschool is operated. All parents are encouraged to use this service which can accommodate children from 18 months to 12 years of age. Preregistration of children is suggested, however, children can be placed in the Preschool on an emergency basis at any time. To arrange for regular or emergency service, students should contact the Preschool head teacher. Finally, the college maintains a working relationship with most area day care facilities.

## AUTO SAFETY AND PARKING RESTRICTIONS

Standard regulations of driving and safety are expected to be observed by all drivers on campus. The Security Office issues parking stickers to all students free of charge. Persons using the parking facilities should register their vehicles and display the registration sticker in the vehicle's rear window. Tickets are given and fines levied when regulations governing the parking facilities are violated.

Parking is not allowed in the main driveway surrounding the college. This is designated as a fire lane, and illegally parked vehicles may be ticketed by the Steubenville Police Department and/or towed at the owner's expense. Security personnel may place "boots" on illegally parked vehicles.

Using more than one parking space, parking on the grass, parking on pedestrian walkways and parking in spaces designated for handicapped individuals are strictly prohibited. The speed limit is 20 mph on campus. Stop signs are installed at all crosswalks for the safety of pedestrians. All vehicles must yield to pedestrians.

## SMOKING ON CAMPUS

The use of tobacco products is prohibited inside the college's facilities. All use of tobacco is restricted to designated areas outside of the building.

## CLASS CANCELLATION--WEATHER

Classes will be held on a regular basis. Should the cancellation of classes be necessary as a result of an emergency or severe weather, especially during the winter months involving a heavy accumulation of snow/ice overnight, announcements will be made by local radio and television stations. The following radio stations will be notified: WSTV 1340 AM, and WRKY 103 FM in Steubenville; WCDK 106.3 FM in Wintersville; WEIR 1430 AM in Weirton; WOHI 1490 AM in East Liverpool; WEGW 107.5 FM, WWVA 1170 AM, WBBB 1600 AM, WEEL 96 FM, WOVK 98.7 FM, and WKWK 1400 AM, 97 FM in Wheeling; WOMP 100 FM in Bellaire; and

television stations WTOV Channel 9 in Steubenville and WTRF Channel 7 in Wheeling.

Cancellations also are listed on the college's website at [www.jcc.edu](http://www.jcc.edu). Click on services then click on cancellations.

Jefferson Community College's students are expected to make their own decisions regarding travel on snow-covered or icy highways. The college does not follow the same procedures as the local secondary school systems, which are responsible for busing students to school. However, the college will attempt to make reasonable and timely decisions regarding delays (start times) and cancellations based on conditions which exist at the time.

When an announcement is made on radio/TV that the college start time is delayed due to weather or other on-campus emergency, classes scheduled during the time of the "delay" will be canceled. The starting time announced (end of the delay) will be for classes normally starting or in session at that time. If a class would have been in session at the new start time, it will resume at the new time (e.g., a 9-11 a.m. class will resume at 10 a.m. if the delay indicates classes will start at 10 a.m.). All classes scheduled to be in session will resume at the new start time. Off-campus classes and clinical education will be conducted unless notified by the instructor, the department secretary, or a specific program's "snowball" phone chain.

Students should plan ahead for days when the college is open and the public schools are closed. This may include and require child care and understandings in advance with instructors regarding the consequences of absences under such circumstances.

## LOST AND FOUND

Found articles are to be given to the person on duty at the information-visitors counter in the administrative wing or to the security person on duty. Individuals losing articles should check with the security person on duty periodically to see if the missing article has been turned into the college.

## STUDENT SERVICES

### PLACEMENT

One of the student services at Jefferson Community College is placement assistance. This service is offered to all students and alumni of the college and is designed to assist in the quest for part-time and full-time employment. An annual Job Career Day also is held on campus, and potential graduates and students are encouraged to participate.

Placement office services are especially important to students seeking full-time employment upon graduation. Placement registration may be made at any time by a JCC student, by submitting a resume to the placement office. Graduating students are encouraged to register during the first semester of the year they intend to graduate.

The Placement Office uses College Central Network for job postings and listings. Employer's employment postings may be listed at [www.collegecentral.com/jcc](http://www.collegecentral.com/jcc). Students, graduates, and alumni may register at [www.collegecentral.com/jcc](http://www.collegecentral.com/jcc).

### ALUMNI ASSOCIATION

The Alumni Association of Jefferson Community College is headed by the Alumni Council and is service-oriented. Association membership is on an annual basis and offers many advantages. All alumni are entitled to lifetime placement services. The *Alumni Messenger* is printed to provide current and updated information about the Jefferson Community College family and alumni.

Alumni may e-mail and keep JCC up to date on employment status, promotions, educational accomplishments, marriages, birth announcements, and other newsworthy events. Alumni are urged to stay in touch with the college by e-mailing [alumninews@jcc.edu](mailto:alumninews@jcc.edu).

The Alumni Association always is seeking members to assist in raising money for JCC scholarships and to provide "in-kind" service to the community. All alumni are encouraged to join the association and be active in assisting JCC students in accomplishing their goals.

### STUDENT MESSAGES

The staff at Jefferson Community College has many duties to perform so only emergency telephone messages will be delivered directly to the student. An emergency is defined as any unanticipated situation involving death, illness, health, or safety which requires the immediate attention of the student. Non-emergency messages will be posted on the electronic message board outside the student lounge.

### KEYS PROGRAM

The Keeping Education in Your Sight (KEYS) program is provided by the Ohio Appalachian Center for Higher Education at JCC to help participants 14 and older to overcome fears, set and achieve goals, and become aware of additional career alternatives. Seminars are conducted with students and parents regarding financial aid and career awareness in the areas of engineering, business and health technologies. This occurs both on and off campus. KEYS sponsors an annual College Application Fair.

The Education Opportunity Center (EOC) is a federal Trio program providing similar career development services to individuals 18 and older.

### TRIO STUDENT SUPPORT SERVICES

The TRIO Student Support Services (SSS) program provides opportunities for academic development, assists students with basic college requirements, and serves to motivate students towards the successful completion of their postsecondary and/or higher education. The goal of SSS is to increase the college retention and graduation rates of its participants and facilitate the process of transition from one level of higher education to the next.

#### WHO IS ELIGIBLE?

A student is eligible to participate in the TRIO Student Support Services Program if he or she meets all of the following requirements:

- Is a U.S. citizen or national of U.S.
- Is enrolled at JCC or accepted for enrollment in the next academic term.
- Is a low-income individual (as determined by the federal guidelines) or a first generation college student (neither parent has a bachelor's degree) or an individual with a disability (as determined by the JCC Learning Skills Lab).

The following services will be offered to eligible students:

- Transition-to-College workshops and success seminars
- Academic advising and registration
- Tutoring
- Mentoring
- Cultural enrichment activities
- Career and transfer activities
- Grant-aid funding

#### HOW DO STUDENTS BECOME INVOLVED?

Interested students should contact TRIO Student Support Services at 740-264-5591 ext. 114 or download the application and return it to JCC TRIO Student Support Services office. View the SSS program at [www.jcc.edu](http://www.jcc.edu) and view the Semester Calendar, TRIO newsletter, Help Sessions, and other items.

Student Support Services is a TRIO program 100% funded by the U.S. Department of Education.

## STUDENT ACTIVITIES

### STUDENT CLUBS AND ORGANIZATIONS

The formation of student groups on campus is encouraged, provided these groups serve a positive function and do not duplicate the functions of the Student Senate or other groups.

To receive official sanction, a club must have approval of its activities by the executive vice president for academic and student affairs and be chartered by the Student Senate. Information about the procedures for starting clubs is available from the executive vice president for academic and student affairs.

Clubs may sponsor major social activities, special engagements, and, in some instances, provide financial aid through scholarships. Requests for use of college facilities by clubs and organizations should be directed to the student group coordinator.

### STUDENT ADVISORY COMMITTEE

The Student Advisory Committee is another formal channel for student participation in institutional policy determination. The function of this group is to provide the college with feedback through meetings with the college president or vice presidents. This committee consists of the members of the Student Senate Executive Committee.

### STUDENT SENATE

The Student Senate's major purpose is to assist the college in the development and operation of student nonacademic activities and to provide student input to the administration. This is a central body through which all student organizations are coordinated. Clubs and other student groups on campus must be chartered by the Student Senate.

Student Senate officers are elected. The Student Senate is composed of eligible representatives from the various curricular divisions plus some delegates at large. The constitution and information about the Student Senate are available

from the coordinator of student groups who is the advisor to the Student Senate.

Student Senate oversees the Odyssey of the Mind (OM) Group, and the Student Activities Group (SAG), which is comprised of three main committees: Cultural Arts Committee, Entertainment Committee, and Sports Committee. *These student committees are not necessarily made up of student club officers and are open to all students who wish to participate.*

#### CULTURAL ARTS COMMITTEE

The Cultural Arts Committee membership includes student leaders who are primarily interested in helping to organize cultural events on campus. Some of the activities of this group during a school year will include hosting a Shakespeare play, organizing programs for Black History Month and hosting a jazz concert. *Students on this committee will help the organizers select, attend and host various cultural programs.*

#### ENTERTAINMENT COMMITTEE

Student leaders who are primarily interested in organizing campus entertainment comprise the Entertainment Committee. The group would assist in hosting professional entertainment; such as, comedians, magicians and musical entertainment that will appear on campus. *Students from this committee will help select and promote the type of entertainment that will appear on campus.*

#### SPORTS COMMITTEE

The Sports Committee is made up of students who are interested in organizing and participating in student sport activities, such as, flag football, soccer, basketball, golf, softball, and volleyball. Participation in these intramural sports is open to JCC students only. However, once the college's league play is completed, JCC teams have been sent to The Ohio State University in Columbus to participate in intercollegiate tournaments with other colleges. In addition to league play intercollegiately in basketball and flag football with other community colleges and university branches, JCC teams play regular season games with Franciscan University of

Steubenville and branches of Ohio University Eastern, Kent State University and Akron-Wayne College. *Students from this committee help organize and set rules and regulations for the particular sport of their choice.*

### INSTRUMENTATION, SYSTEMS, & AUTOMATION SOCIETY

ISA, the Instrumentation, Systems, and Automation Society, is a nonprofit organization dedicated to fostering technical, scientific, and educational advancement in the theory, design, manufacture, and use of instruments, computers, and measurement systems. JCC's student chapter was chartered on June 15, 1995, and is affiliated with the senior ISA chapter in Pittsburgh. ISA student membership provides increased career opportunities and broadens knowledge to the field of measurement and control. Activities include meetings, industry tours, and lectures.

Students also may obtain membership in the American Drafting and Design Association and the American Welding Society.

### PHI THETA KAPPA

Phi Theta Kappa is an international honor society, the purpose of which is to promote scholarship, leadership, fellowship and service among qualified students. To join, a student must maintain a GPA of 3.55 or higher and accumulate at least 16 credit hours toward an associate degree. Membership is by invitation only and is open to both men and women. The Alpha Omicron Nu Chapter was chartered in May 1989 at JCC.

### SOCIETY OF AFRICAN AMERICAN CULTURE

The Society of African American Culture, formerly the Black Student Union, opens its membership to any student without regard to race, sex, religion, or national origin. The purpose

is to promote African American educational, civic, and social activities, and to promote the general awareness of African/American minority cultures and achievements.

## INTRAMURAL AND CLUB PROGRAMS/STUDENT ACTIVITIES

Interested students at Jefferson Community College conduct informal programs of athletic competition in softball, basketball, flag football, soccer, golf, and volleyball. During the year, cultural, recreational, family and public interest activities also are offered. Suggestions for intramural programs should be directed to the Student Senate.

Student teams take part in intercollegiate tournaments in Ohio.

## JCC CHORUS

The JCC Chorus is a group that gets together purely for the enjoyment of singing choral music. The chorus is open to all students, faculty, and staff and usually meets once a week during a regular semester. No auditions are required for membership.

The JCC Chorus, formed in 2006, performs for events and holidays such as Christmas and the Martin Luther King Community Celebration.

## OTHER AFFILIATIONS

From time to time the college will assist students with membership to

national and international organizations; such as, American Welding Association, Collegiate Secretaries International, International Society for Measurement and Control, Society of African American Culture and Society for the Advancement of Management.

## NEWSBREAK

**Newsbreak** is a weekly student newsletter containing announcements and articles of interest to the college community. Information is given to the coordinator of student activities who prepares and distributes the **Newsbreak**.

# FACILITIES

## LIBRARY

The modern library is located in the center of the college's main floor and features an open-stack arrangement, with adjoining work areas designed to facilitate study, research, and reading.

The library is open from 8 a.m. to 9 p.m., Monday through Thursday and until 4 p.m., Friday, when classes are in session. Saturday hours are 8 a.m. till noon, but reference assistance may not be available.

The library is available for study and research to students, staff, and members of the public. Library materials are circulated to persons possessing a current, valid, unexpired library barcode. Books and other items may be circulated for a time period of overnight to two weeks, depending on the publication. Interlibrary loan services are available.

A multimedia lab allows students to scan and edit digital images and video clips. Software is available for creating webpages. Any student may use the lab, but library staff members request that you learn how to use the equipment and software first. The lab also may be used for group work with three workstations that each accommodate five persons with one PC at each workstation.

Equipment for using various audiovisual materials is available. A coin-operated copy machine is available for patron use. For research purposes, back issues of periodicals and newspapers are on file in hard copy and online. Online library services are available 24 hours a day, seven days a week for the use of all library patrons. These services include a card catalog for the local collection, borrowing from OhioLINK, and full-text retrieval of many periodical articles. OhioLINK is a statewide computer network that provides free access to the library collections of all state-related colleges and universities. OhioLINK also provides access to over 100 online research databases. Its services provide access to the same resources for the community college student as those enjoyed by students at the largest state institutions.

The upstairs area of the library is designated as a quiet study area (no conversation or noise permitted). Also in this area are two small study rooms where groups of up to four students may work together and not disturb other library patrons. To access the study rooms, contact library personnel.

Patrons may send FAX messages from the library by paying a cost recovery fee in the Business Office before requesting the FAX service. Incoming student FAXes may be sent to 740-264-1338.

Students not returning materials will have their grades held, have their transcripts held, may be refused re-registration, and may not be allowed to graduate. Patrons must pay for lost and/or damaged items.

## LEARNING SKILLS LABORATORY

The Learning Skills Lab coordinates the General Math, General English, and General Reading courses offered at Jefferson Community College. These courses are designed to assist students in improving their basic skills in each area. A complete explanation of each course is given in the course description section of this catalog.

Tutoring services for JCC students are also available through the Learning Skills Lab. A complete explanation of the tutoring services available is given in the Counseling section of this catalog.

## BOOKSTORE

Textbooks and supplies for each course may be purchased in the bookstore, which is located in the south wing. Clothing, assorted supplies, gift items, etc., also are stocked at very reasonable prices. The bookstore has special sales throughout the year and features holiday items.

Bookstore hours are posted for fall and spring semesters and the summer session. The textbook price list is posted on the college's website and is posted across the hall from the bookstore prior to each semester. Used books are sold when available. Book buy-backs are held by an outside book company at the beginning and end of each semester. Exchanges or refund(s) of textbooks will be made only during the allotted return period of the semester for which it was purchased. The sales receipt or financial aid charge slip must accompany a purchase return. Only unused, unmarked, and unwrapped (if wrapped when purchased) books will be accepted for exchange or refund. For purchases, the bookstore will accept cash, VISA, MasterCard, Discover, or a personal check for the purchase amount only.

A bulletin board, located across from the bookstore, is provided so students may post notices about used books for sale.

Gift certificates are available for purchase.

## COMPUTER LABORATORIES

The college provides open access computer laboratories, on a space available basis (classes and equipment) for the use of all registered students to do course work. Students are encouraged to use computer labs for all course work. A portion of materials fees paid for each course gives each student full access to computer labs when classes are not in session (see posted schedules) and equipment is available. Students enrolled with the Learning Skills Laboratory and students taking a continuing education course also may use the computer labs.

## FACILITIES FOR STUDENTS WITH SPECIAL NEEDS

The Jefferson Community College campus is designed to facilitate accessibility by students with disabilities and makes other reasonable accommodations consistent with the Americans with Disabilities Act. Entry ramps, automatic doors, an elevator, designated parking, and accessible restrooms are among the specific design features. Labs in the computer wing have several specially equipped computer desks.

## PRESCHOOL

To assist students in locating care for their children, the college operates a licensed Preschool for children age 18 months to 6 years. School-aged children also can attend the Preschool during the summer or when local schools are canceled. The service operates from 7:30 a.m. to 5 p.m. Monday through Friday. Parents are required to preregister children.

A nominal hourly fee is charged. Parents who qualify economically may receive financial aid to pay for this service. Students should contact the Preschool for information.

Phonics, pre-kindergarten math, reading readiness exercises, art, activities, and social skill development are incorporated into weekly themes. This program is conducted in a warm and loving atmosphere.

## LOCKERS

Lockers are issued by the security office on a first come, first served basis during the fall registration. The locker that is issued remains the individual's throughout the academic year (August-May). Lockers are to be cleaned and vacated during the second week of May. No personal locks may be used on the lockers. No fee is charged for locker use. Jefferson Community College retains the right to inspect the lockers at any time. The security office issues lockers.

## SNACK BAR, HOT FOOD SERVICE, AND LOUNGES

Hot breakfast and lunch service is available at the campus kitchen, which is located in the student lounge. This service is offered Monday-Friday. Coin-operated food machines dispensing sandwiches, snacks, hot soup, candy, and a variety of soft drinks are provided for the convenience of the students in the lounge. Lounge seating and televisions also are available.

Live entertainment is featured occasionally.

## EMERGENCY PHONES

Emergency phones are located strategically throughout the building. These phones are designed to call security and the receptionist and if no answer 911. These phones will automatically direct security to the exact location of the call. If a phone is activated accidentally, those responding should be informed that it is not an emergency.

# Humanities, Social Sciences and Transfer Opportunities



# HUMANITIES AND SOCIAL SCIENCES

The mission of the Department of Humanities and Social Sciences is to provide academic programming that prepares students for transfer to the baccalaureate level of study and enhances the knowledge of those pursuing a technical education at the college. Toward this end, the department offers a general Associate of Arts program of study as well as specific AA programs in English, education, psychology, and communications. The classes provide a solid core curriculum aimed at expanding and making concrete students' understanding of the foundations of our culture and language and how these relate to other world cultures. Finally, the department offers intensive developmental course work to improve the chances of successful learning for those students identified as needing tutoring in language and study skills. Public service programs in criminal justice and education also are under this division.

Many general education courses are located in the Humanities and Social Sciences Department. General education refers to the knowledge and skills that serve as the foundation to success within the program of study and throughout life. Minimum general education course requirements exist for most programs of study. Approximately one-fourth of degree requirements in most technical programs is comprised of general education courses. Additional general education courses are required for transfer and non-technical degrees.

## Objectives:

1. Students planning to transfer to a four-year higher education institution for a baccalaureate degree not only earn transferable credits from an extensive array of courses in literature, writing, history, economics, art, music, psychology, and sociology but achieve the oral and written language skills, research, and information skills, team-work skills, problem-solving proficiency and familiarity with cultural events and facts necessary for the attainment of higher education degrees.
2. Students acquiring technical and business degrees achieve the necessary proficiency in writing and communication, psychological principles, team-work, critical thinking, and cultural knowledge to be successful in their chosen careers.
3. Students pursuing a general AA degree or an AA degree with concentrations in English, communication, psychology, or education acquire a solid foundation in the concepts, language, and attitudinal requirements pertinent to a liberal arts program of study and/or to a specific humanities or social science area.
4. Students identified as less than proficient in language and/or student skills acquire the appropriate level of language skill to succeed in a college program of study.
5. Students acquire social and team-work skills and an understanding of others by participating in the societies, clubs, and other activities of the college's humanities and social science division.

To achieve these objectives the division offers courses in literature and composition; public speaking, journalism, psychology, economics, art, music, foreign languages, geography, history, political science, psychology, and sociology.

## ASSOCIATE OF ARTS DEGREE (AA) GENERAL

The Associate of Arts Degree (General) is awarded to a student successfully completing the requirements as identified in the catalog on page 46. The Associate of Arts (General) will provide the student with a strong liberal arts core curriculum with the flexibility to choose electives that will satisfy a student's interest and at the same time allows the student to include courses that will transfer to most four-year institutions as the first two years of a bachelor of arts degree. Since requirements at institutions vary widely, each student should consult with the catalog of the transfer institution and plan his/her program carefully with a college advisor.

Students seeking transfer to a baccalaureate degree in humanities or social sciences such as art, criminal justice, English, history, literature, political science, psychology, or sociology should consider taking additional courses in these disciplines.

Upon completion of the Associate of Arts Degree, the graduate will be able to:

1. Demonstrate skills as original and critical thinkers, readers and writers.
2. Describe the interaction of history, culture, literature, economics and science as studied within a broad liberal arts curriculum.
3. Analyze and solve quantitative problems.
4. Show evidence of breadth and scope of awareness of diverse approaches to knowledge.
5. Relate practice and/or lessons to the goals and outcomes of the degree, as appropriate.

## ASSOCIATE DEGREES WITH CONCENTRATIONS

An area of concentration is a group of courses recommended for inclusion in the Associate of Arts Degree program for students interested in pursuing the first two years of a program leading to a baccalaureate degree. The Humanities and Social Sciences Department offers concentrations in English, psychology, communications, and social work. Students majoring in these areas will receive Associate of Arts degrees. Interested students should check the college's web site, [www.jcc.edu](http://www.jcc.edu), for updates. Students should consult their advisors about majoring in these areas.

## PUBLIC SERVICE DEGREES

The Associate of Applied Science Degrees for students in the Criminal Justice, Education, Prekindergarten Care, and Interpreting for the Deaf are also offered in the Humanities and Social Sciences Department. Other public service programs are being planned.

## ACADEMIC STANDARDS

The faculty and dean work actively with each student but hold students accountable for their success. Students should review the standards in each course with the faculty or advisor. A

grade of "C" or higher is required of all specified courses to count for graduation (See degree requirements for each major). Students who score 68 or below on college reading placement test are advised to complete ENG091 before enrolling in general education content courses such as psychology, philosophy, or history.

## CAREER AND TRANSFER OPPORTUNITIES

The college has many transfer articulation agreements with four-year institutions and is developing new agreements on a regular basis.

Students should be familiar with the catalog and the program at the four-year college or university to which they wish to transfer. Students should discuss their program of study with an advisor at the desired transfer institution. Some requirements may vary from one four-year institution and from one program to another. **It is the student's responsibility to make proper course selections in keeping with transfer plans.** JCC's HOST Center advisors have access to transfer information. Both advisors and students may access the web-based Course Applicability System (CAS) at [www.transfer.org](http://www.transfer.org) for transfer and degree information.

# TRANSFER OPPORTUNITIES

Opportunities to transfer courses into four-year degree programs exist at Jefferson Community College in several ways: Many colleges accept two-year degrees in their entirety, articulation agreements exist with public and private schools and universities in the tri-state area, general education courses listed in the Transfer Module are guaranteed transfers to public institutions in the state of Ohio, and TAG (Transfer Assurance Guide) courses in over 40 different majors are guaranteed to transfer into all public institutions in the state of Ohio into the major indicated.

Student interested in transfer should immediately contact advisors so that early planning ensures success in the transfer process.

Students may also transfer credits into JCC. The college accepts courses from accredited institutions that are equivalent to courses offered at JCC. (See page 19 for more specific information on transferring credits into JCC.)

The Ohio Board of Regents, following the directive of the Ohio General Assembly, has developed statewide policies to facilitate transfer from one Ohio public

college or university to another. Private colleges and universities in Ohio may or may not participate in transfer policies, so students should always check with the institution of their choice regarding transfer requirements. Colleges in other states are also not obliged to follow Ohio directives. Note that agreements between JCC and private colleges and universities and between JCC and colleges and universities in the Tri-State area also exist, and also note that most colleges in the United States do accept general education credits and sometimes credits in the major field from students transferring into their institution. Again it is important that students plan transfer carefully and work with both JCC and the institution to which the student is transferring.

Once students are admitted to a transfer institution, they are subject to the same rights, privileges and degree requirements as native students at that institution. Students are subject to the residency requirements of that institution.

## TRANSFER ASSURANCE GUIDE COURSES (TAG's)

TAG courses are courses in over 40 different majors that have been approved the Ohio Transfer and Articulation Committee panels for guaranteed transfer into the major indicated at any public institution in the state of Ohio. Combined with general education courses from the Transfer Module (in some cases particular general education courses are recommended for the specific major), the student may be able to put together enough credit hours to equal three or four semesters of transferable courses. Keep in mind that this guarantee applies only to Ohio public institutions, although many private institutions in Ohio follow the same directives. Make sure to always work with advisors at both institutions when transferring.

TAG courses offered at JCC are listed below. Note that recommended Transfer Module courses are also listed. However, the student should note that these are not the only Transfer Module course they should take – but recommended choices.

TAG courses listed below are those offered at JCC that apply to the major indicated. **Always check with transferring institution before making decisions.**

**Arts and Humanities**

**English Literature major:** OTM Recommendations: ENG101, ENG102, ENG201, ENG202; TAG courses: Foreign Language (2 yrs); ENG251, ENG252; ENG253

**Art History major:** OTM recommendations: ENG101, HIS101/102 sequence; ASL20; TAG courses: Foreign Language (2 yrs); Survey of Art History I & II; ART103, ART107

**Studio/fine Arts major:** OTM Recommendation: ART101; TAG courses: Foreign Language (2 yrs); ART102; ART108; ART103; ART107

**Theatre major:** OTM Recommendations: THE101; THE201; TAG courses: Foreign language (2 yrs); THE150

**Dance major:** OTM Recommendations: TAG courses: Foreign Language (2 yrs)

**Music major:** OTM Recommendations: MUS102; MUS102; TAG courses: Foreign Language (2 yrs)

**Philosophy major:** OTM Recommendations: PHI101; PHI102; TAG courses: Foreign Language (2 yrs)

**Communications**

**Communication Studies major:** OTM Recommendations: COM101 TAG courses: Foreign Language (2 yrs); COM105, COM115

**Journalism major:** OTM Recommendations: COM101; JRN101; TAG courses: COM150; JRN201; ART107

**Public Relations and Advertising major:** OTM Recommendations: ECO101 & ECO102; TAG courses: foreign language 2 years; RET205; COM150;

**Telecommunications major:** OTM Recommendations: COM101; TAG courses: foreign language 2 years; COM150, ART107

**Social and Behavioral Sciences**

**Psychology major:** OTM Recommendations: PSY101; BIO106; TAG courses: Foreign Language (2 yrs); PSY203; PSY205; PSY211; PSY218

**Sociology major:** OTM Recommendations: SOC101; TAG courses: Foreign Language (2 yrs); MTH128; SOC205; SOC110

**Political Science major:** OTM Recommendations: ENG101; HIS101 & HIS102; HIS104 & HIS105: ECO102; TAG courses: Foreign Language (2 yrs); PSC101; PSC102

**History major:** OTM Recommendations: SOC101; TAG courses: Foreign Language (2 yrs); HIS101 & HIS102; HIS104 & HIS105

**Economics major:** OTM Recommendations: MTH224; TAG courses: Foreign Language (2 yrs); ECO101; ECO102

**Geography major:** OTM Recommendations: HIS101; HIS102; ECO102; SOC101 TAG courses: Foreign Language (2 yrs); GEO101

**Anthropology major:** OTM Recommendations: BIO102; BIO106; TAG courses: Foreign Language (2 yrs); ANT101

**Science and Mathematics**

**Biology major:** OTM Recommendations: MTH220; CHM102 & CHM103; TAG courses: Foreign Language (2 yrs); BIO114 & BIO115; PHY106 & PHY107 or PHY126 & PHY127;

**Chemistry major:** OTM Recommendations: MTH220; CHM102 & CHM10; TAG courses: Foreign Language (2 yrs); PHY126 & PHY127 (BS degree) or PHY106 & PHY107 (BA degree)

**Geology major:** OTM Recommendation: MTH120; MTH220; GEL111; GSC115; TAG courses: Foreign Language (2 yrs); CHM102 & CHM103; PHY106 & PHY107

**Mathematics major:** OTM Recommendations: MTH120; MTH220; PHY126 & PHY127; TAG courses: Foreign Language (2 yrs) MTH221; MTH222; MTH230

**Physics major:** OTM Recommendations: MTH120; MTH220; PHY126 & PHY127; TAG courses: Foreign Language (2 yrs) MTH221; MTH222; MTH230

**Engineering**

**Industrial Engineering:** OTM Recommendations: PHY126 & PHY127; TAG courses: PHY106 & PHY107

**Bioengineering, Biomedical Engineering:** OTM Recommendations: MTH220, BIO106; TAG courses: PHY106 & PHY107; MTH221; MTH222; CHM102 & CHM103

**Aerospace, Agriculture, Civil, Mechanical Engineering:** OTM Recommendations: PHY126 & PHY127; TAG courses: PHY106 & PHY107; MTH230; MCH201; MCH202

**Chemical, Environmental Engineering:** OTM Recommendations: MTH220;

CHM102 & CHM103; TAG courses: MTH221, MTH222; MTH230

**Computer, Electrical Engineering:** OTM Recommendations: MTH220; PHY106 & PHY107; TAG courses: MTH221; MTH222

**Business**

**Business major:** OTM Recommendations: ECO101, ECO102, MTH224; TAG courses: ACC101; ACC102; BUS201; BUS203; ENG103

**Health**

**Nursing major:** OTM Recommendations: PSY101, PSY205; SOC101, BIO102 or BIO112; BIO203; ; TAG courses: MTH128; PRN101/102/104; PRN106? PRN107? PRN103?

**Dietetics major:** OTM Recommendations: PSY101; SOC101; BIO102 or 112; BIO203; TAG courses: BIO103; MTH128

**Health Information major:** OTM Recommendations: BIO203; TAG courses: HSC103?/ HSC104; HIM103/210/214; BIO201

**Clinical/Medical Laboratory major:** OTM Recommendations: BIO203; CHM102/103; BIO114/115; TAG courses: CLT101/PLB101; CLT103; CLT202; MTH128

## COURSE APPLICABILITY SYSTEM

CAS is a web-based tool used to see how courses taken at one institution transfer and apply toward a degree at another institution. **All Ohio two-year and four-year public colleges and universities use CAS.** Directions for accessing and registering to use CAS are available in flyers and leaflets throughout the college. Once you become a member of CAS (free), you can:

- view course information and programs offered at any institution
- check course equivalencies between institutions as determined by the receiving institution
- research degree requirements at the institution of your choice
- discover how the courses you have already taken apply toward a degree at another institution.
- store your coursework so that the system can analyze your program and let you know what courses you need for the institutions with which you are working
- send additional questions regarding transfer to a college or university

## STUDENT RESPONSIBILITIES FOR SUCCESSFUL TRANSFER

The courses listed in the Transfer Module and as TAG courses, however, are not the only courses that may transfer to another institution. It is important that students work with advisors at both JCC and the institution to which they are transferring. The student needs to use all the resources available, i.e. CAS (Course Applicability System), advisors at both institutions, catalogs, institution websites, etc. to plan a course of study that will meet the requirements of degree or certificate programs at JCC (if desired) and also apply to the requirements of the degree program at the transferring institution.

Students will be more successful in transfer if they identify early in their studies an institution to which they desire to transfer and a major field of study. Students should also determine if there are foreign language requirements or any special course requirements that can be met at JCC. Students should seek information regarding transfer from both JCC advisors and the college or university to which they plan to transfer.

## APPEALS PROCESS FOR TRANSFER COURSES

Students may appeal if a course is refused for transfer at Jefferson Community College. The student should first appeal to the dean of the division or registrar who made the decision. If not satisfied, the student may appeal to the vice president of academic affairs, and ultimately to Ohio's Articulation and Transfer Appeals review committee.

If a course is refused by another institution, the student may also appeal, although this process depends upon the location of the institution, whether or not the institution is public or private, and what sorts of agreements exist between JCC and that institution.

Students should immediately notify JCC Transfer Coordinator if a course they believe should transfer is refused. The coordinator can then advise the student on how to proceed.

In Ohio, once all the appeals within the institution are exhausted, the student will be advised in writing by that institution of the availability of appeal to the state Articulation and Transfer Appeals

Review Committee. This committee will review and recommend to institutions the resolution of individual cases of appeal from transfer students.

## OTHER TRANSFER ADVANTAGES

JCC has 2+ 2 agreements with several institutions in the Tri-State area. For example, students can take two years at JCC and transfer into Franciscan University in 20 different majors, including education, English, psychology and business. In most cases, the two years at JCC also qualifies the student for an Associate of Arts degree from JCC. Students are encouraged to apply for the two-year degree as many institutions accept two-year degrees in their entirety, rather than evaluate courses one by one. Do keep in mind that successful transfer depends upon careful planning, good advising, and maintaining the goal of a particular major. Changing a major after transferring may result in the loss of transferable credits.

## TRANSFER MODULE

The transfer module was established by the Ohio Board of Regents Transfer and Articulation Policy Committee and consists of a set of 38 credit hours of general education courses that are approved as guaranteed transfer to public institutions in the state of Ohio.

# JEFFERSON COMMUNITY COLLEGE'S TRANSFER MODULE COURSES

COURSES APPROVED AS GENERAL EDUCATION TRANSFER

	Semester Credit Hours		Semester Credit Hours
I. English Composition/Communication, 6 Semester Hours advised		III. Social/Behavioral Sciences, 12 Semester Hours The student is advised to complete one of the following numbered 6-hour sequences:	
1. ENG101 English Composition I	3	1. a. ECO101 Macroeconomics	3
2. ENG102 English Composition II	3	b. ECO102 Microeconomics	3
3. COM101 Public Speaking	<u>3</u>	2. a. HIS104 U.S. History - the Formative Period	3
Total English =	6	b. HIS105 U.S. History - The Modern Period	3
II. Humanities/Literature, 9 Semester Hours The student are advisted to complete one of the following numbered 6-hour sequences:		3. a. PSC101 American Government	3
1. a. ENG201 Introduction to Literature <b>and</b>	3	b. PSC102 World Government	3
b. ENG202 Survey of World Literature <b>or</b>	3	4. a. PSY101 General Psychology	3
c. ENG251 American Literature <b>or</b>	3	b. PSY102 Psychology of Human Relations <b>or</b>	3
2. a. ENG252 Survey of British Literature I	3	c. PSY205 Human Growth and Development	3
b. ENG253 Survey of British Literature II	3	5. a. SOC101 Introduction to Sociology	3
3. a. HIS101 World Civilization I <b>and</b>	3	b. PSY203 Social Psychology <b>or</b>	3
b. HIS102 World Civilization II	3	c. SOC205 Social Problems	3
4. a. ART104 Art History I	3	In addition, the student may complete any <b>two</b> of the following.	
b. ART105 Art History II	3	The student is limited to 9 semester hours in any one subject area:	
5. a. PHI101 Introduction to Philosophy	3	1. GEO101 World Geography	3
b. PHI201 History of Philosophy	3	2. HIS104 U.S. History - The Formative Period	3
In addition, the student may complete any one of the following:		3. HIS105 U.S. History - The Modern Period	3
1. ART101 Survey of Art History	3	4. Any ECO course listed above	3
2. ART104 or ART105 if not already selected	3	5. Any PSC course listed above	3
3. MUS101 Music Appreciation	3	6. Any PSY course listed above	3
4. PHI101 or PHI102 if not already selected	3	7. Any SOC course listed above	<u>3</u>
5. ENG205 Women in Literature	3	Total Social Science =	12
6. ENG207 Film and Literature	3	IV. Science, 8 Semester Hours	
7. ENG208 Short Stories	3	1. a. PHY106 College Physics I	4
8. ENG220 Modern Poetry	3	b. PHY107 College Physics II	4
9. Any ENG listed in above sequences if ENG not already selected	3	2. a. PHY126 Science/Engineering Physics I	4
10. HIS101 or HIS102 if not already selected	3	b. PHY127 Science/Engineering Physics II	4
11. THE201 History of Theatre	3	3. a. CHM102 General Chemistry I	4
12. COM101 Public Speaking	<u>3</u>	b. CHM103 General Chemistry II	4
Total Humanities =	9	1. a. BIO102 Human Anatomy & Physiology	4
		2. a. BIO106 Introduction to Biological Sciences	4
		3. a. BIO203 Principles of Microbiology	4
		4. a. BIO112 Anatomy/Physiology	4
		5. a. GEL111 Earth Science	4
		6. a. BIO114 Principles of Biology I	4
		b. BIO115 Principles of Biology II	4
		7.. a. GSC102 Science and the Environment	<u>4</u>
		Total Science =	8
		V. Mathematics, 3-4 Semester Hours	
		1. MTH120 College Algebra	4
		2. MTH121 College Trigonometry	3
		3. MTH220 Calculus & Analytic Geometry I	<u>5</u>
		Total Mathematics =	3
		Total Module =	38
		Semester Hours	

**Students should check transfer requirements  
and recommended courses for majors.**

# ASSOCIATE OF ARTS - GENERAL (AA)

## SUGGESTED SEQUENCE OF REQUIRED COURSES

Semester I	Semester II	Semester III	Semester IV
<b>ENG101*</b> English Composition I  ▲ 3	<b>COM101</b> Public Speaking OR <b>COM</b> required or relevant to transfer  ▲ 3	<b>HUM121B</b> Cultural Heritages II  ▲ 1	<b>HUM121C</b> Cultural Heritages III  ▲ 1
<b>CIS or OIT</b> Elective(s) See List A below  3	<b>ENG102</b> English Composition II  ▲ 3	<b>PSY102</b> Psychology of Human Relations  ▲ 3	<b>ECO, HIS, OR PSC</b> Elective  ▲ 3
<b>CSS Series</b> <b>CCS106</b> Orientation to College required  ▲ 3	<b>HUM121A</b> Cultural Heritages I  ▲ 1	<b>SOC101</b> Introduction to Sociology  ▲ 3	General Studies OR Foreign Language Elective  ▲ 3-4
<b>MATH102**</b> Survey of Mathematics OR math required for transfer  ▲ 3-4	<b>PSY101</b> General Psychology  ▲ 3	<b>ART or MUS</b> Elective****  3	Humanities Elective  ▲ 3
Humanities OR Foreign Language Elective***  ▲ 3-4	General Studies OR Foreign Language Elective  ▲ 3-4	Humanities OR Foreign Language Elective****  3-4	Math OR Science Elective  3-4
	<b>**Science</b> Elective  3-4	Social Science OR Humanities Elective  ▲ 3	Social Science Elective  ▲ 3

Credits 15-17

Credits 16-18

Credits 16-17

Credits 16-18

63-70 Semester Credits

### Check transfer requirements when choosing electives.

\*All first-semester students are required to take an English composition course in their first term at JCC. Students are required to take an English composition course each semester until they have successfully completed ENG102.

\*\*At least one math or science must be four credit hours to fulfill Ohio Board of Regents requirements.

\*\*\*Four semesters of foreign language are recommended for transfer to four-year liberal arts degree programs.

\*\*\*\*Electives using letter prefix ENG, HIS, ECO, MUS, ART, etc. means that any class with that letter prefix qualifies to fill that requirement.

NOTE: All first-time, full-time students are required to take CCS106.

The dean may approve appropriate substitution if necessary to meet transfer requirements.

▲ Student must obtain a letter grade of C or better to progress to graduation/certification.

# ASSOCIATE OF ARTS - CONCENTRATION OUTCOMES

## ASSOCIATE OF ARTS DEGREE WITH COMMUNICATION CONCENTRATION

Upon graduation, the student will be able to:

1. Meet all outcomes of the AA General degree.
2. Demonstrate the ability to find, use and credit data in a piece of writing in appropriate manners, including primary sources (interviews, surveys, observations, experiments) and secondary sources (books, articles, other publications).
3. Identify the explicit and implicit goals, needs and expectations of the audience as well as the communicator in any communication situation, using the findings to clearly and articulately communicate in a variety of mediums, including composition, speaking, journalism and technology.
4. Adapt content, organization, language, tone, and medium of the appropriate communication to meet the demands of a specific situation and/or culture.
5. Evaluate communication through the development of critical listening skills, the examination of a communication's message and meaning, as well as the application of standardized criteria to the communication's impact and effectiveness.

## ASSOCIATE OF ARTS DEGREE WITH ENGLISH CONCENTRATION

Upon graduation, the student will be able to:

1. Demonstrate the meeting of all AA General outcomes.
2. Demonstrate a basic knowledge of English, including its history, rhetoric and literature.
3. Demonstrate an understanding of traditional literary genres and of the global dispersal of language and literature.
4. Use the tools, mechanisms and processes of critical thinking consciously and systematically, including demonstration of and use of logical arguments.
5. Produce organized and dependably sound written work, including independent research of some complexity and depth, related to the discipline.

## ASSOCIATE OF ARTS DEGREE WITH PSYCHOLOGY CONCENTRATION

Upon graduation, the student will be able to:

1. Demonstrate the meeting of all AA General outcomes.
2. Demonstrate recall, comprehension, and appropriate use of the vocabulary of the field of psychology.
3. Show themselves as conversant with the major approaches to the field of psychology, their origins, and their impact on today's society.
4. Show themselves as conversant with the major theories in the field of psychology, their origins, and their impact on today's society.
5. Critically examine psychological issues using psychological principles and concepts.

## ASSOCIATE OF ARTS DEGREE WITH SOCIAL WORK CONCENTRATION

Upon graduation, the student will be able to:

1. Demonstrate the meeting of all AA General outcomes.
2. Demonstrate knowledge of social work practice including the purpose, focus, objectives, history, knowledge, values, ethical code, and fundamental skills of the profession in order to prepare the student for direct service general practice in a variety of settings.
3. Develop an appreciation for the entire range of circumstances that bear on a social problem, including the social units involved, their expansive and dynamic characteristics, their interrelated properties, and the implications of change in one system as it affects all others.
4. Identify with an expanded view of the environment through which students can study the reciprocal effects of systems interactions and transactions, including the influence of social attitudes and political priorities in a multiracial and multiethnic society.
5. Develop a professional identity with an awareness of the unique qualities of the professional social work relationship; the broad range of career options and possibilities available to individuals with BA in social work degrees; the possibility of obtaining a baccalaureate degree in social work.

# ASSOCIATE OF ARTS - COMMUNICATIONS CONCENTRATION (AA)

## SUGGESTED SEQUENCE OF REQUIRED COURSES

Semester I	Semester II	Semester III	Semester IV
<b>COM101</b> Public Speaking  ▲ 3	<b>COM105</b> Interpersonal Communications  ▲ 3	<b>COM110</b> Conference and Group Discussion  ▲ F 3	<b>COM150</b> Survey of Mass Media OR <b>JRN201</b> Journalism and the Media  ▲ S 3
<b>CSS106</b> Orientation to College  ▲ 1	<b>ENG102</b> English Composition II  ▲ 3	<b>JRN101</b> Basic Journalism  ▲ F 3	<b>COM210</b> Advanced Presentation Skills OR <b>ART107</b> Photography Check transfer requirements ▲ 3
<b>ENG101*</b> English Composition I  ▲ 3	<b>ENG121</b> Writing for Publication  ▲ 1	<b>ENG OR</b> Literature Elective  ▲ 3	<b>COM290/COM291 OR</b> General Studies Elective Check transfer requirements ▲ 1-3
<b>PSY101</b> General Psychology  ▲ 3	<b>SOC101</b> Introduction to Sociology  ▲ 3	Foreign Language, Humanites OR Social Sciences Elective Check transfer requirements ▲ 3-4	Foreign Language OR General Studies Elective  ▲ 3-4
Foreign Language OR <b>CIS OR OIT Elective**</b>  3-4	Foreign Language OR Humanities Elective Check transfer requirements ▲ 3-4	Math OR Science Elective  3-4	Social Science Elective  ▲ 3
Science Elective***  3-4	Math Elective Check transfer requirements 3-4		<b>THE Elective OR COM115</b> Oral Interpretation ▲ S 3
Credits 16-18	Credits 16-19	Credits 15-17	Credits 16-19

63-73 Semester Credits

A list of humanities, social science, mathematics, and science electives can be found at the beginning of the course descriptions section.

\*All first-semester students are required to take an English composition course in their first term at JCC. Students are required to take an English composition course each semester until they have successfully completed ENG102.

\*\*Four semesters of foreign language are recommended for transfer.

\*\*\*At least one math or science must be 4 credit hours to meet the Ohio Board of Regents requirements.

CIS or OIT Electives: CIS100 series, CIS213, CIS215, CIS222, OIT103, OIT207, OIT208, OIT228

NOTE: All first-time, full-time students are required to take CSS106.

▲ Student must obtain a letter grade of C or better to progress to graduation/certification.

F -- offered fall semester; S -- offered spring semester

# ASSOCIATE OF ARTS - ENGLISH CONCENTRATION (AA)

## SUGGESTED SEQUENCE OF REQUIRED COURSES

Semester I	Semester II	Semester III	Semester IV
<b>CSS106</b> Orientation to College 1 ▲	<b>CIS205</b> Internet Research (recommended) OR General Studies Elective 3 ▲	<b>MTH120</b> College Algebra OR Math Elective * Check transfer requirements 3-4	<b>COM101</b> Public Speaking OR <b>COM115</b> Oral Interpretation Check transfer requirements 3 ▲
<b>ENG101*</b> English Composition I 3 ▲	<b>ENG102</b> English Composition II 3 ▲	British or American Literature Survey Course 3 ▲	<b>ENG230</b> Advance Composition and Rhetoric OR Literature Elective S 3 ▲
<b>HUM121</b> Cultural Heritages I, II, & III 3 ▲	<b>SOC101</b> Introduction to Sociology 3 ▲	English Elective 3 ▲	English Elective 3 ▲
<b>PSY101</b> General Psychology 3 ▲	Literature OR Foreign Language Elective Check transfer requirements 3-4 ▲	Social Science Elective* 3 ▲	Humanities OR Foreign Language Elective Check transfer requirements 3-4 ▲
<b>CIS or OIT Elective</b> 3 ▲	Science Elective*** 4	Writing OR Foreign Language Elective Check transfer requirements 3-4 ▲	Science OR Math Elective 3-4
Humanities OR Foreign Language Elective** Check transfer requirements 3-4 ▲			

Credits 16-17

Credits 16-17

Credits 15-17

Credits 15-17

62-68 Semester Credits

### Check transfer requirements when choosing electives.

A list of general studies, i.e. humanities, social science, mathematics, and science electives can be found at the beginning of the course descriptions section.

\*All first-semester students are required to take an English composition course in their first term at JCC. Students are required to take an English composition course each semester until they have successfully completed ENG102.

\*\*Four semesters of foreign language are recommended for transfer.

\*\*\*At least one math or science must be 4 credit hours to meet Ohio Board of Regents requirements.

Writing Electives

ENG103 ENG152

ENG104 ENG155

ENG121 JRN101

ENG151 JRN201

▲ Student must obtain a letter grade of C or better to progress to graduation/certification.

NOTE: All new first-time/full-time students are required to take CSS106.

F -- offered fall semester; S -- offered spring semester

# ASSOCIATE OF ARTS - PSYCHOLOGY CONCENTRATION (AA)

## SUGGESTED SEQUENCE OF REQUIRED COURSES

Semester I	Semester II	Semester III	Semester IV
<b>CIS100 Series</b> Computer Information OR <b>CSS100 Series</b> College Success ▲ 3	<b>ENG102</b> English Composition II ▲ 3	<b>MTH120</b> College Algebra ▲ 4	<b>PSY207</b> Adult Development ▲ S 3
<b>COM101</b> Public Speaking ▲ 3	<b>PSY201</b> Child Development ▲ 3	<b>PSY203</b> Social Psychology ▲ F 3	<b>PSY211</b> Abnormal Psychology ▲ S 3
<b>CSS106</b> Orientation to College ▲ 1	<b>SOC101</b> Introduction to Sociology ▲ 3	<b>PSY206</b> Adolescent Development ▲ F 3	<b>PSY230</b> Capstone Seminar OR <b>SOC205</b> Social Problems ▲ S 3
<b>ENG101*</b> English Composition I ▲ 3	Foreign Language* OR General Studies Elective Check transfer requirements ▲ 3-4	<b>PSY218</b> Personality Theories ▲ F 3	Foreign Language* OR General Studies Elective Check transfer requirements ▲ 3-4
<b>PSY101</b> General Psychology ▲ 3	Science Elective*** Check transfer requirements 3-4	Foreign Language* OR Humanities Elective Check transfer requirements ▲ 3-4	Science Elective** ▲ 4
Foreign Language** OR Humanities Elective Check transfer requirements ▲ 3-4			
Credits 16-17	Credits 15-17	Credits 16-17	Credits 16-17

63-68 Semester Credits

A list of general studies, i.e., humanities, social science, mathematics, and science electives can be found at the beginning of the course descriptions section.

\*All first-semester students are required to take an English composition course in their first term at JCC. Students are required to take an English composition course each semester until they have successfully completed ENG102.

\*\*Two years of foreign language are required in most four-year social science degree programs.

\*\*\*If transferring, science electives should be taken as two sequential courses, i.e. PHY106 and 107; CHM102 and 103; BIO114 and 115.

NOTE: PSY205 should not be taken by psychology majors unless advisor approves it as a free elective.

▲ Student must obtain a letter grade of C or better to progress to graduation/certification.

NOTE: All new first-time/full-time students are required to take CSS106.

F -- offered fall semester; S -- offered spring semester

# ASSOCIATE OF ARTS - SOCIAL WORK CONCENTRATION (AA)

## SUGGESTED SEQUENCE OF REQUIRED COURSES

Semester I	Semester II	Semester III	Semester IV
<b>CSS106</b> Orientation to College  1 ▲	<b>ENG102</b> English Composition II  3 ▲	<b>CJT215</b> Victimology  F 3 ▲	<b>CJT216</b> Domestic Violence  S 3 ▲
<b>CSS Series</b>  1 ▲	<b>HUM121A, B &amp; C</b> Cultural Heritage Series  S 3 ▲	<b>MTH120</b> College Algebra OR <b>MTH128</b> Statistics  3-4 ▲	<b>SOC110</b> Sociology of Marriage and Family  S 3 ▲
<b>COM105</b> Interpersonal Communications OR <b>COM110</b> Conference/Group Discussion F 3 ▲	<b>PSY205</b> Human Growth and Development  3 ▲	<b>PSC101</b> Political Science  3 ▲	<b>SOC205</b> Social Problems  S 3 ▲
<b>ENG101**</b> English Composition I  3 ▲	<b>PSY221</b> Alcoholism and Substance Abuse Series  S 3 ▲	<b>PSY211</b> Abnormal Psychology  3 ▲	Humanites/Literature Elective ENG215 recommended  3 ▲
<b>PSY101</b> General Psychology  3 ▲	<b>SOC111</b> Introduction to Social Work  S 3 ▲	<b>SOC216</b> Group Theories for Human/Social Services  F 3 ▲	Social Sciences Elective  3 ▲
<b>SOC101</b> Introduction to Sociology  3 ▲	Science Elective BIO115 recommended  3-4		
Science Elective** BIO114 recommended  4			

Credits 18

Credits 18-19

Credits 15-16

Credits 15

66-68 Semester Credits

Check transfer requirements before choosing program or courses. Accredited social work programs may not take all courses in transfer.

\*All first-semester students are required to take an English composition course in their first term at JCC. Students are required to take an English composition course each semester until they have successfully completed required composition courses.

\*\*At least one math or science must be 4 credit hours to meet Ohio Board of Regents requirements.

▲ Student must obtain a letter grade of C or better in all courses with this symbol for graduation/certification.

NOTE: All new first-time/full-time students are required to take CSS106.

F -- offered fall semester; S -- offered spring semester

## ASSOCIATE OF SCIENCE (AS)

(MATHEMATICS, CHEMISTRY, PHYSICS, AND GEOLOGY)

The Associate of Science Degree at Jefferson Community College requires a minimum of 60 semester hours. This degree provides a solid sciences education base and is flexible enough to permit the creation of a program to fulfill personal study desires or fulfill transfer requirements.

This degree gives substantial cost savings to the student completing the first two years of his/her baccalaureate program at Jefferson Community College. A student seeking this degree will work with a faculty advisor and the transfer director in planning the academic program. The student also should consult with an advisor at the institution to which transfer is desired.

The Associate of Science (AS) Degree is a two-year degree program which parallels the first two years of a Bachelor of Science Degree at most four-year institutions. Depending upon the selection of electives in the AS degree, the student can progress into baccalaureate programs such as biology, chemistry, physics, sciences, mathematics, and other fields of interest in the science disciplines.

Suggested course sequence for the AS degree appears in the following chart. A list of general studies electives can be found at the beginning of the course description guide. All course descrip-

tions, including electives, are found in the catalog course description guide. In planning a schedule, the student should know that all courses are NOT offered all semesters. Course sequencing and elective selection are critical. An appointment with an advisor or the director counselor is essential.

Jefferson Community College has articulation agreements with many local colleges and universities, both two- and four-year. Students may check with a dean or the transfer director for an updated list or consult JCC's web site or the Course Applicability System.

The AS is designed for students who are planning to transfer into baccalaureate degree programs in science-related disciplines offered at four-year institutions.

The coursework includes the basic courses that are generally acceptable to the transfer institution. The major emphasis is on completion of general education requirements that are part of the senior institution's requirements for science majors. These are in the areas of math, science, humanities and social sciences.

Students enrolling in this transfer program should be aware of the course requirements and application of transfer credits at the institutions to which they are considering transferring.

Working closely with the academic advisor and transfer director, a student will be able to tailor a program of study to fit the requirements of the desired transfer institution. It is the student's responsibility to meet requirements of a program and the needs in regards to transfer.

Upon completion of the degree, the student will be able to:

1. Communicate effectively, using language, concepts and models of science.
2. Use the scientific method to define and solve problems independently and collaboratively.
3. Use a wide variety of laboratory techniques with accuracy, precision and safety.
4. Interpret scientific information accurately.
5. Demonstrate proficient library, mathematical and computer skills in data gathering and analysis.

# ASSOCIATE OF SCIENCE (AS)

## SUGGESTED SEQUENCE OF REQUIRED COURSES

Semester I	Semester II	Semester III	Semester IV
<b>CHM102</b> General Chemistry I*  ▲ 4	<b>CHM103</b> General Chemistry II*  ▲ 4	<b>PHY126</b> Science/Engineering Physics I*  ▲ 4	<b>COM101</b> Public Speaking  3
<b>CSS106</b> Orientation to College  1	<b>ENG102</b> English Composition II  3	Foreign Language or Humanities Elective  3-4	<b>PHY127</b> Science/Engineering Physics II*  ▲ 4
<b>ENG101</b> English Composition I  3	<b>MTH221</b> Calculus & Analytic Geometry II  ▲ 5	Social Science Elective  4	Foreign Language or Humanities Elective  3-4
<b>MTH220</b> Calculus & Analytic Geometry I  ▲ 5	<b>PSY101</b> General Psychology  3	Social Science Elective  3	Social Science Elective  3
Foreign Language or Humanities Elective  3-4	Foreign Language or Humanities Elective  3-4		
Credits 16-17	Credits 18-19	Credits 13-14	Credits 13-14

60-64 Semester Credits

The student is encouraged to meet with his/her advisor to discuss additional classes offered at JCC that may transfer into a particular discipline. The student who would like to transfer JCC credits to another institution must meet the prerequisite(s) for the program at the college he/she wishes to transfer.

A list of general studies electives can be found at the beginning of the course descriptions section. The elective course descriptions are found in the course description guide of this catalog. Selection is critical, an appointment with an advisor or the transfer director is essential.

\* Check transfer requirements

▲ Student must obtain a letter grade of C or better to progress to graduation/certification.

NOTE: All new first-time/full-time students are required to take CSS106.

## ASSOCIATE OF APPLIED SCIENCE DEGREE (AAS) CRIMINAL JUSTICE

The field of criminal justice is never static. Changes in national and global society and technology have the collateral effect of altering the manner in which the justice system operates. Employment in criminal justice not only requires an individual to know how to perform duties but a further understanding of why these endeavors are necessary and what the anticipated outcomes are to accomplish is imperative.

Such knowledge is achieved through an understanding of the criminal justice system, the building of critical-thinking skills to understand, analyze, and synthesize problems and topics, and through the development of writing and interpersonal communication skills.

In order to achieve these desired attributes, the Criminal Justice Program has been developed into an

interdisciplinary course of study merging the liberal arts and technical studies into a well-balanced curriculum. A degree in criminal justice provides a foundation for employment in the criminal justice field, for continuation to a four-year degree-granting institution, and serves as a basis for advanced studies.

The core courses provide a basic understanding of the nature of and society's reaction to crime as well as an in-depth explanation of the various components within the criminal justice system. The technically related electives offered in the program allow the student to take courses more specific to his or her area of concentration providing a well-rounded and academically enriching course of study.

At the completion of the program, the student will be able to:

1. Identify and discuss the components of the justice system and recurring ethical issues.
2. Compare and contrast the criminological explanations of crime and criminality.
3. Describe the role, function, and responsibilities of American law enforcement at the local, state, and federal levels.
4. Summarize the function of American corrections and organize the process of justice as it relates to correctional involvement.
5. Explain the categories of laws, describe the elements of a crime, and discuss the constitutional rights afforded by the justice system.

## CORRECTIONS (AAS)

### DAY

Changing social conditions, shifts in crime patterns and the presence of street gangs has impacted the field of corrections. As a result correctional employees must have a grounding in human behavior, possess strong interpersonal communications skills, be able to solve problems and think critically.

The interdisciplinary nature of the corrections curriculum is designed to provide students with these abilities by combining courses in the social and behavioral sciences with core classes that examine the organization, operation, and philosophy of each component of the corrections system.

The corrections major in the Associate of Applied Science in Criminal Justice Program will prepare students for employment in local, state or federal correctional facilities, juvenile detention centers, probation and parole, or for transfer to a four-year degree granting institution.

Upon completion of the program, the student will be able to:

1. Discuss the organization, operation, and philosophies of the various correctional agencies.
2. Identify and describe how procedural law are applied to issues of prisoner rights and the operation of correctional facilities.
3. Compare and contrast the categories of community-based corrections and discuss their impact on rehabilitation and recidivism.
4. Relate how ethics effects professionalism, identify ethical issues encountered in corrections, and compose solutions to ethical dilemmas.

# CORRECTIONS

## SUGGESTED SEQUENCE OF REQUIRED COURSES

Semester I	Semester II	Semester III	Semester IV
<b>CJT101</b> Introduction to Criminal Justice ▲ F 3	<b>CJT202</b> Criminal Investigation ▲ S 3	<b>CJT212</b> Professionalism, Ethics, and Criminal Justice ▲ F 3	<b>CJT105</b> Information Technology and Criminal Justice ▲ S 3
<b>CJT102</b> Procedural Law ▲ F 3	<b>CJT215</b> Victimology ▲ S 3	<b>COR202</b> Correctional Institutions in America ▲ F 3	<b>CJT210</b> Introduction to Criminal Law ▲ S 3
<b>CJT103</b> Crisis Intervention ▲ F 3	<b>COR200</b> Facility Safety and Fire Protection ▲ S 3	<b>COR203</b> Criminology ▲ F 3	<b>COR204</b> Community-Based Corrections ▲ S 3
<b>CSS106</b> Orientation to College 1	<b>COR205</b> Juvenile Delinquency ▲ S 3	<b>COR208</b> Constitutional Rights of Prisoners ▲ F 3	<b>HSC102</b> First Aid/CPR ▲ 1
<b>ENG101</b> English Composition I 3	<b>ENG102</b> English Composition II OR <b>ENG104</b> Technical and Professional Writing 3	<b>PSY101</b> General Psychology 3	<b>PSC101</b> American Government 3
<b>MTH102</b> Survey of Mathematics 3	<b>SOC101</b> Introduction to Sociology 3		Technically Related Elective* 3
Credits 16	Credits 18	Credits 15	Credits 16

65 Semester Credits

\* Technically Related Electives

CJT204  
 CJT206  
 CJT207  
 CJT208  
 CJT209  
 CJT214  
 CJT216  
 CJT217  
 CJT218  
 COR206  
 FOR208  
 HIS240E

▲ Student must obtain a letter grade of C or better in all courses with this symbol for graduation/certification.

NOTE: All new first-time/full-time students are required to take CSS106.

F -- offered fall semester; S -- offered spring semester

## FORENSICS (AAS)

### DAY



*"Transferring to YSU was a breeze. All my credits transferred."*

EDWARD LULLA  
Graduate  
Wintersville

The Forensics concentration in Criminal Justice is a multi-disciplinary approach to the identification, collection, processing and analysis of crime scene evidence. Drawing from the natural and biological sciences, health technology, psychology, sociology, and criminal justice, students who successfully complete course requirements will be prepared to enter baccalaureate degree programs in Forensics at a four-year college or university. A four-year degree in physics, biology, microbiology, chemistry, medical technology, or genetics is required for entry-level positions in a forensics laboratory.

The following prerequisites have been established for acceptance into the program:

*Math:*

MTH096 or appropriate score on placement test; MTH128 Statistics;

MTH120 Technical Calculus; MTH120 College Algebra; MTH121 College Trigonometry.

*Chemistry:*

MTH099 Introduction to Algebra or acceptable score on placement test;

CHM091 Introduction to Chemistry; CHM102 General Chemistry I; CHM103 General Chemistry II; CHM201 Organic Chemistry.

### Employment Opportunities

Besides working for a law enforcement field, the following opportunities exist outside the traditional crime laboratory:

Forensic Pathology  
Forensic Anthropology  
Forensic Psychiatry  
Forensic Entomology  
Forensic Psychology  
Forensic Odontology  
Forensic Nursing  
Forensic Computer Science/  
Digital Evidence  
Forensic Engineering  
Forensic Toxicology

Upon completion of the program, the student will be able to:

1. Demonstrate proper laboratory testing and analytical procedures for examining various types of evidence.
2. Describe the appropriate mathematical formulae when measuring fluids.
3. Identify and explain how the rules of evidence are applied to forensic evidence and discuss the role of forensics in the justice system.

# FORENSICS

## SUGGESTED SEQUENCE OF REQUIRED COURSES

Semester I	Semester II	Summer I	Semester III	Semester IV
<b>BIO114</b> Principles of Biology  4	<b>BIO115</b> Principles of Biology II  4	<b>CHM201</b> Organic Chemistry  4	<b>CJT202</b> Criminal Investigation  S 3	<b>BIO205</b> Genetics  4
<b>CHM102</b> General Chemistry  4	<b>CJT214</b> Rules of Evidence  3	<b>PSY101</b> General Psychology  3	<b>CLT202</b> Analysis of Body Fluids  4	<b>CLT102</b> Immunology/Serology  4
<b>CJT101</b> Introduction to Criminal Justice  F 3	<b>CHM103</b> General Chemistry II  4		<b>ENG101</b> English Composition I  3	<b>COM101</b> Public Speaking  3
<b>CLT101</b> Introduction to Lab Science  4	<b>FOR208</b> Introduction to Forensic Sciences  3		<b>MTH121</b> College Trigonometry  3	<b>ENG102</b> English Composition II OR <b>ENG104</b> Technical and Professional Writing  3
<b>CSS106</b> Orientation to College  1	<b>MTH120</b> College Algebra  4		<b>MTH128</b> Statistics  3	
Credits 16	Credits 18	Credits 7	Credits 16	Credits 14

71 Semester Credits

▲ Student must obtain a letter grade of P (pass), or C or better in all courses with this symbol to progress to graduation/certification.  
NOTE: All new first-time/full-time students are required to take CSS106.

# LAW ENFORCEMENT (AAS)

## DAY



*“At JCC, you do extensive hands-on study.”*

DRAGAN LAZIC  
Graduate  
Steubenville

Law enforcement agencies have raised the standards of hiring in response to changes in society and technological advances. Today officers must be skilled in problem solving, critical thinking, interpersonal communications, planning and organizing, human behavior, and social ecology.

The interdisciplinary nature of the Law Enforcement major in the Associate of Applied Science in Criminal Justice Program is intended to fulfill these demands by melding the social sciences and humanities with theoretical and pragmatic courses related to policing. The program is designed to provide students with the knowledge and skills necessary for employment with local, state, or federal agencies or transfer to a four-year degree granting institution.

Upon completion of the program, the student will be able to:

1. Discuss the role and function of policing and compare and contrast how legal prescriptions and community demands effect the delivery of services.
2. Describe the purpose of the criminal law and explain the elements of various criminal offenses.
3. Identify the Constitutional amendments and court decisions which directly impact law enforcement and apply the provisions of these amendments to specific scenarios.
4. Explain the concept of professionalism and ethics, identify how ethics effects the justice system and relate how discretion effects ethical considerations in policing.

# LAW ENFORCEMENT

## SUGGESTED SEQUENCE OF REQUIRED COURSES

Semester I	Semester II	Semester III	Semester IV
<b>CJT101</b> Introduction to Criminal Justice ▲ F 3	<b>CJT105</b> Information Technology and Criminal Justice ▲ S 3	<b>CJT201</b> Traffic Accident ▲ F 3	<b>CJT210</b> Introduction to Criminal Law ▲ 3
<b>CJT102</b> Procedural Law ▲ F 3	<b>CJT202</b> Criminal Investigation ▲ S 3	<b>CJT204</b> Criminal Identification ▲ F 3	<b>CJT215</b> Victimology ▲ 3
<b>CJT103</b> Crisis Intervention ▲ F 3	<b>CJT213</b> Police Function ▲ S 3	<b>CJT212</b> Professionalism, Ethics, and Criminal Justice ▲ 3	<b>COM101</b> Public Speaking OR <b>COM105</b> Interpersonal Communications 3
<b>CSS106</b> Orientation to College 1	<b>COR205</b> Juvenile Delinquency ▲ S 3	<b>COR203</b> Criminology ▲ F 3	<b>HSC102</b> First Aid/CPR 1
<b>ENG101</b> English Composition I 3	<b>ENG102</b> English Composition II OR <b>ENG104</b> Technical and Professional Writing 3	<b>PSC101</b> American Government 3	Technically Related Elective* ▲ 3
<b>MTH102</b> Survey of Mathematics 3	<b>PSY101</b> General Psychology 3	<b>SOC101</b> Introduction to Sociology 3	
Credits 16	Credits 18	Credits 18	Credits 13

65 Semester Credits

\* Technically Related Electives

CJT207 COR203  
 CJT208 COR204  
 CJT209 COR206  
 CJT214 COR208  
 CJT216 FOR200  
 CJT217 FOR201  
 CJT218 FOR208  
 COR200 FOR205  
 COR202 HIS240E

▲ Student must obtain a letter grade of C or better in all courses with this symbol for graduation/certification.

NOTE: All new first-time/full-time students are required to take CSS106.

# POLICE ACADEMY (CERTIFICATE)

## EVENING

The one-year certificate program at JCC will prepare the student to take the required Ohio Police Officer Training Commission (OPOTC) certification test to qualify as a police officer in the state of Ohio. The one-year program, which consists of 30 credit hours of instruction, hands on training and physical conditioning, exceeds the minimum OPOTC curriculum requirements. Classes are scheduled Monday-Friday from 5-10:30 p.m. with some weekend sessions. Students must attend a mandatory orientation prior to the beginning of the semester.

### Eligibility Requirements

The first step in the application process is to determine program eligibility. The following guidelines established by OPOTC must be met in order to qualify for an "open enrollment" spot in the program (not sponsored by a police department).

1. Citizen of the United States
2. 18 years of age
3. High school graduate or equivalent (GED)
4. Possess a valid driver's license
5. No felony convictions. This may include felony convictions that have been sealed or expunged.
6. No domestic violence convictions

### Physical Standards

An integral part of the Police Academy curriculum is physical fitness and subject control (Defensive Tactics). Police Academy students are required to pass minimum physical conditioning as determined by OPOTC. These include timed pushups and sit-ups, a 1.5-mile run as well as other agility standards.

Those students who fail to meet the physical conditioning standards by the end of the second semester will not be permitted to sit for the certification exam.

### Equipment

In addition to purchasing books the student will need the following equipment:

1. Firearm/holster
2. Hand cuffs/case
3. Gun belt
4. Extra magazines/case
5. Belt keepers
6. Flashlight/holder

### Alternate Financing

The program is approved for Federal Financial Aid (Pell) funding for those who qualify.

# POLICE ACADEMY

## SUGGESTED SEQUENCE OF REQUIRED COURSES

Semester I	Semester II
<b>POA112</b> Self Defense F 2	<b>POA110</b> Firearms S 2
<b>POA113</b> Criminal Law F 3	<b>POA111</b> NHTSA Standards S 4
<b>POA115</b> Community Oriented Policing F 3	<b>POA114</b> Police Procedures S 3
<b>POA116</b> Physical Training F 1	<b>POA117</b> Physical Training II S 1
<b>POA119</b> Conversational Spanish F 3	<b>POA118</b> Self Defense II S 4
<b>POA120</b> Technical Report Writing F 4	
Credits 16	Credits 14

35 Semester Credits

# INTERPRETING FOR THE DEAF (AAS)

DAY



*“Compared to a four-year college, you just get so much more knowledge.”*

SUSAN RAYL  
Graduate  
Wintersville

The Interpreting for the Deaf Program (IDP) at Jefferson Community College provides candidates with an opportunity to enter a demanding but growing occupational field, i.e. as an interpreter for Deaf and hard of hearing persons in education, medicine, law enforcement, and at public events and speeches, including videos and televised programs.

The candidates who earn this Associate of Applied Science Degree will be capable of entering the market with the tools necessary to serve as effective, positive translators for Deaf and hard of hearing persons and will have the knowledge to pass the written portion of the NIC/RID test.

Admission to this program requires that the candidate:

- Has received a high school diploma, GED certificate, or has completed an approved home school program.
- Has completed the following prerequisites: ASL101 and ASL102 or demonstrate proficiency at the level of ASL201.

Once a candidate has been accepted into the Interpreting for the Deaf Program, the candidate must:

- Maintain a 2.5 GPA.
- Complete all course requirements for graduation.

The IDP course of study includes 68 semester hours, 42-44 of which are social science and humanities courses that will transfer into other degree programs.

Upon completion of the program, the student will be able to:

1. Demonstrate ability to pass the written portion of the NIC/RID test and sufficient interpreting skill to begin practice and preparation for the performance portion of the test.
2. Demonstrate ability to translate between English and ASL in a variety of situations, sufficient for beginning interpreters.
3. Demonstrate an understanding of the role of the interpreter/transliterators to both Deaf, hard of hearing, and hearing consumers in accordance with legal and ethical codes.
4. Demonstrate knowledge of the Deaf community and understanding of and sensitivity toward the cultural traditions of this community.

Although the IDP degree is considered a terminal degree meant to prepare students for a particular occupation, many of the courses will transfer into other degree programs, i.e. Intervention Specialist and/or Deaf Education at the University of Akron and Youngstown State University or University of Pittsburgh and deaf studies programs offered at a variety of institutions.

# INTERPRETING FOR THE DEAF

## SUGGESTED SEQUENCE OF REQUIRED COURSES

Semester I	Semester II	Semester III	Semester IV
<b>ASL200</b> American Deaf Culture ▲ 3	<b>ASL202</b> Intermediate ASL II ▲ 4	<b>ASL204</b> Advanced ASL ▲ 4	<b>IDP204</b> Transliteration ▲ 3
<b>ASL201</b> Intermediate ASL I ▲ 4	<b>ASL203</b> Seminar in Syntax ▲ 1	<b>COM105</b> Interpersonal Communications ▲ 3	<b>IDP205</b> Voicing ▲ 4
<b>CSS105</b> Introduction to Education ▲ 1	<b>ENG101</b> English Composition I ▲ 3	<b>ENG102</b> English Composition II ▲ 3	<b>IDP210</b> IDP Capstone: Interpreting Environments ▲ 4
<b>IDP150</b> Introduction to Interpreting ▲ 3	<b>IDP201</b> Interpreting I ▲ 4	<b>IDP202</b> Interpreting II 4	<b>IDP211</b> IDP Practicum 1
<b>PSY101</b> General Psychology ▲ 3	<b>IDP203</b> Introduction to Audiology ▲ 1	Science Elective 3-4	<b>IDP212</b> IDP Seminar ▲ 1
Math OR CIS Elective* 3-4	<b>SOC101</b> Introduction to Sociology ▲ 3		Recommended IDP209 Internship 1-4
Credits 17-18	Credits 16	Credits 17-18	Credits 14-17
64-69 Semester Credits			

Students are advised to take the ASL and IDP courses in the semester indicated as these courses may be offered only in this sequence.

\*A list of humanities, social science, mathematics and science electives can be found at the beginning of the course descriptions section. Choose an elective that relates to the environment in which you wish to interpret. Students also are advised to take CIS courses if they do not have technological/computer proficiency.

Prerequisite: Before being accepted into the program, students must demonstrate a proficiency in American Sign Language equal to that achieved at the end of ASL101 and ASL102.

% Student must obtain a letter grade of P (pass), or C or better in all courses with this symbol to progress to graduation/certification.

NOTE: All new first-time/full-time students are required to take CSS106.

## EDUCATIONAL PARAPROFESSIONAL (AA)

The Educational Paraprofessional Associate Degree provides students from the Tri-State area with courses applicable to a career in elementary and secondary education.

The program is designed to license graduates to work as certified educational paraprofessionals in grades Pre-kindergarten through 12 and to transfer into baccalaureate programs in Early Childhood (P-3), Middle Childhood (4-9), Secondary (10-12), or Intervention Specialist (Special Education).

Admissions to this program requires that the candidate:

- Has received a high school diploma, GED certificate, or has completed an approved home school program.
- Has completed and submitted for approval the Ohio Department of Jobs and Family Services Form for a criminal background check.
- Has completed and submitted for approval a records check through the Ohio Bureau of Criminal Investigation and Identification.

Once a candidate has been accepted into the Education Paraprofessional Associate License Program, the candidate must:

- Maintain a 2.0 GPA.
- Compile the professional portfolio required for graduation and transfer.
- Complete all course requirements for graduation.

The course of study for the educational paraprofessional includes 15 credit hours of general studies, 7-10 credit hours in natural science, 3 credit hours in fine arts, 6 credit hours in social sciences, 9 credit hours in general studies for education major, and 22-25 credit hours in teacher education courses such as Foundations of Education, Instructional Technology, Classroom Management, Characteristics of Exceptional Children, and Educational Psychology. Students should choose both grade level and transfer institution before making final choices in regard to course selection.

This program is designed to prepare students entering the education profession with the following attributes:

- Communication skills focusing on effective written and oral communication in an educational setting with parents, fellow professionals, and community and business leaders.
- Knowledge of how to identify, assess, and assist with the education of a diverse student population.
- A working foundation of the historical, philosophical, theoretical, and legal issues of education.
- Practical professional skills to assist in the establishment and maintenance of an effective, productive, and safe educational setting.
- Personal ethical standards and professional practices used by successful education professionals.

Articulation agreements between Jefferson Community College and both Ohio and West Virginia four-year colleges allow for easy transition into a baccalaureate program. JCC also has articulation agreements with teacher education programs in regional high schools.

# EDUCATIONAL PARAPROFESSIONAL (AA)

## SUGGESTED SEQUENCE OF REQUIRED COURSES

Semester I	Semester II	Semester III	Semester IV
<b>COM101</b> Public Speaking ▲ 3	<b>ART101/ART102/ART104</b> Art Appreciation/ Fundamentals/History OR <b>MUS101/MUS102</b> Music Appreciation/Fundamentals 3	<b>EDU202</b> Classroom Management ▲ F 3	<b>EDU201</b> Instructional Technology ▲ S 3
<b>CSS105</b> Introduction to Education ▲ F 1	<b>EDU200</b> Foundations of Education ▲ S 3	<b>EDU203</b> Literacy, Language, and Phonics ▲ F 3	<b>EDU206</b> Classroom Practicum ▲ S 2
<b>CSS106</b> Orientation to College ▲ 1	<b>ENG102</b> English Composition II ▲ 3	<b>GEO101</b> Geography ▲ 3	<b>EDU207</b> Classroom Seminar ▲ S 1
<b>ENG101</b> English Composition I ▲ 3	<b>EDU210</b> Children's Literature OR (Pre-K-9) <b>ENG201</b> Introduction to Literature (Secondary) ▲ S 3	<b>PSY201</b> Child Development OR <b>PSY206</b> Adolescent Development ▲ 3	<b>PSY220</b> Educational Psychology ▲ S 3
<b>MTH100</b> Mathematics for Teachers I OR <b>MTH102</b> Survey of Mathematics ▲ F 3-4	<b>PSY101</b> General Psychology ▲ 3	<b>PSY219</b> Characteristics of Exceptional Children ▲ F 3	Elective Check transfer requirements ▲ 3
Natural Science Elective Must include a lab ▲ 4	<b>SOC101</b> Introduction to Sociology ▲ 3	Natural Science Elective OR <b>MTH101</b> Mathematics for Teachers II ▲ 3-4	Elective Check transfer requirements ▲ 3

Credits 15-16

Credits 18

Credits 18-19

Credits 15

66-68 Semester Credits

Degree modification for transfer purposes permitted with approval of advisor or program director **and** dean.

Natural Science Elective: one natural science elective must include a lab component.

Electives:

ASL100	ECE111	HIS101	MTH101
ASL102	ECE112	HIS102	PSC101
ASL200	ECE113	HIS103	PSC102
ECE101	ECE114	HIS104	PSY205
ECE102	ECO101	HIS105	PSY211
ECE110	ECO102	HUM121A, B, C	

▲ Student must obtain a letter grade of C or better to progress to graduation/certification.

NOTE: All new first-time/full-time students are required to take CSS106.

F -- offered fall semester; S -- offered spring semester

## PREKINDERGARTEN CARE AND EDUCATION (AAS)



*"The teachers are willing to help. JCC has a friendly atmosphere."*

AMBER CRONIN  
Salineville

The Prekindergarten Care and Education Program is designed to provide the educational background needed for graduates to pursue careers in preschool/childcare centers, and to meet state licensing requirements for an administrator as specified by the Ohio Department of Job and Family Services, Licensing Rules, #5101:2-12-25. The practicum will include placement in an infant/toddler or social service agency.

This option blends the early childhood preschool courses, which stress the care of the child from birth through age 4, with early childhood education courses now required by the state of Ohio. Requirements for entrance into the associate degree program include a records check through the Bureau of Criminal Investigation and Identification. Other requirements, as specified by the Ohio Department of Job and Family Services, must be completed prior to all practicums.

Upon completion of the Prekindergarten Care and Education Program, the graduate will be able to:

1. Apply principles of human growth, development and learning to the teaching of young children.
2. Plan appropriate learning experiences for individual children and

groups of children.

3. Develop appropriate educational practices for young children to promote communication skills, and to foster the growth of skills in problem-solving, decision-making and critical thinking.
4. Recognize individual needs and use appropriate teaching strategies to address children's differences in developmental levels, ethnic backgrounds and learning styles.
5. Use effective communication skills with children, families and co-workers.
6. Recognize emergencies and provide appropriate first aid and CPR.
7. Assisting in designing an environment for child guidance, including daily program structure, to create and sustain a positive learning environment for children.
8. Prevent, recognize and manage communicable diseases including the protection of child care staff members.
9. Assist in initiating assistance for recognized child abuse and neglect.
10. Meet the Ohio Department of Job and Family Services requirements for child day care providers.

# PREKINDERGARTEN CARE AND EDUCATION

## SUGGESTED SEQUENCE OF REQUIRED COURSES

Semester I	Semester II	Semester III	Semester IV
<b>CSS105</b> Introduction to Education  ▲ 1	<b>ECE102</b> Social and Emotional Development of the Child  ▲ S 3	<b>ECE103</b> Communicable Disease/ Child Abuse Recognition  ▲ F 1	<b>ECE106</b> Care and Development of Toddlers  ▲ S 3
<b>CSS106</b> Orientation to College  1	<b>ECE104</b> Early Childhood Practicum  ▲ S 2	<b>ECE111</b> Society, Family and Diversity in Early Childhood Curriculum  ▲ F 3	<b>ECE108</b> Early Childhood Practicum II  ▲ S 2
<b>ECE101</b> Cognitive and Physical Development of the Child  ▲ F 3	<b>ECE105</b> Early Childhood Seminar  ▲ S 1	<b>ECE112</b> Integrating Language Arts and Literacy in Early Childhood Curriculum  ▲ F 3	<b>ECE109</b> Early Childhood Seminar II  ▲ S 1
<b>ECE110</b> Wellness and Safety in Early Childhood  ▲ F 3	<b>EDU200</b> Foundations of Education  ▲ S 3	<b>EDU202</b> Classroom Management: Issues and Trends  ▲ F 3	<b>ECE113</b> Integrating Math and Science in the Early Childhood Curriculum  ▲ S 3
<b>ENG101</b> English Composition I  3	<b>EDU210</b> Children's Literature  ▲ S 3	<b>ENG102</b> English Composition II  ▲ 3	<b>ECE114</b> Integrating Music, Art, and Play Concepts in the Early Childhood Curriculum  ▲ S 3
<b>MTH100</b> Mathematics for Elementary Teachers I  F 4	<b>HSC102</b> First Aid/CPR  ▲ 1	<b>PSY219</b> Characteristics of Exceptional Children  ▲ F 3	<b>EDU201</b> Instructional Technology  ▲ S 3
<b>PSY101</b> General Psychology  ▲ 3	<b>PSY201</b> Child Development  ▲ 3		<b>PSY220</b> Educational Psychology  ▲ S 3

Credits 18

Credits 16

Credits 16

Credits 18

68 Semester Credits

Technical Electives: ACC100, BUS101, BUS111, BUS206, ECE107, EDU200, EDU201, EDU203, MTH100, MTH101, PSY220

▲ Student must obtain a letter grade of C or better in all courses with this symbol for graduation/certification.

NOTE: All new first-time/full-time students are required to take CSS106.

# PREKINDERGARTEN CARE (CERTIFICATE)

## EVENING

The Prekindergarten Care Program was designed for the student interested in job titles of preschool teacher, nursery school teacher, preschool teacher's aide, or nursery school teacher aide.

To become a teacher's aide in a public school system, candidates must complete the Associate of Applied Science Degree in Prekindergarten Care and Education.

The prekindergarten development classes are available for current practitioners who are interested in meeting state licensing requirement or increasing their employment opportunities.

The student may elect to take only ECE103 Communicable Diseases/Child Abuse Recognition or HSC102 First Aid/CPR, both one-credit courses. Upon satisfactory completion, the required Ohio Department of Job and Family Services' Certification of Day Care Center Personnel form will be completed by the college's instructors.

Upon completion of an Prekindergarten Care Certificate, the student may choose to complete the Prekindergarten Care and Education Associate of Applied Science Degree.

On October 30, 1993, with the enactment of Senate Bill 38, a new law went into effect in Ohio which requires people who plan to enter certain human service professions including child day care and early childhood education to complete a criminal records check. The student enrolled in ECE101 will be given the Ohio Department of Job and Family Services' form for completion and return prior to the scheduled practicum in spring or summer semesters.

Requirements, as specified by the Ohio Department of Job and Family Services' Licensing Regulatory Unit, must be completed prior to the practicum.

Upon completion of the certificate, the student will be able to:

1. Use oral, written and listening skills to relate effectively with children, families and fellow employees.
2. Design a positive learning environment for child guidance.
3. Identify problems, and use problem-solving skills to make appropriate professionally ethical decisions.

# PREKINDERGARTEN CARE

## SUGGESTED SEQUENCE OF REQUIRED COURSES

Semester I	Semester II
<b>CSS105</b> Introduction to Education ▲ 1	<b>COM101</b> Public Speaking 3
<b>ECE101</b> Cognitive and Physical Development of the Child ▲ F 3	<b>ECE102</b> Social and Emotional Development of the Child ▲ S 3
<b>ECE103</b> Communicable Diseases/Child Abuse Recognition ▲ 1	<b>ECE104</b> Early Childhood Development Practicum ▲ S 2
<b>ECE110</b> Wellness and Safety in Early Childhood ▲ 3	<b>ECE105</b> Early Childhood Development Seminar ▲ S 1
<b>ENG101</b> English Composition I 3	<b>EDU202</b> Classroom Management: Issues and Trends ▲ 3
<b>HSC102</b> First Aid/CPR ▲ 1	<b>EDU210</b> Children's Literature ▲ 3
<b>PSY101</b> General Psychology ▲ 3	<b>PSY219</b> Characteristics of Exceptional Children ▲ 3
<b>PSY201</b> Child Development ▲ 3	
Credits 18	Credits 18

36 Semester Credits

▲ Student must obtain a letter grade of P (pass), or C or better in all courses with this symbol to earn one-year certificate and/or continue towards an associate degree in prekindergarten care and education.

NOTE: All new first-time/full-time students are required to take CSS106.

# Business, Engineering and Information Technologies



# BUSINESS, ENGINEERING, AND INFORMATION TECHNOLOGIES

A large proportion of the employment opportunities in the United States and abroad are in business, engineering and IT fields. Students at Jefferson Community College are afforded the opportunity to prepare for a career in business, engineering, information technology and related fields and/or transfer to a four-year institution to further pursue a baccalaureate degree in majors related to those fields.

For business-minded students, Jefferson Community College offers the option of pursuing an Associate of Applied Business degree in one of seven technical programs, an Associate of Arts Degree designed for business transfer, and eight certificate programs. For the student interested in engineering and information technology fields, the college offers Associate of Applied Science degrees and Associate of Technical Studies degrees in eight technical programs, as well as six certificates. The Associate of Science degree is designed for transfer.

General studies courses are offered in chemistry (general and organic), computer science, mathematics (college algebra and trigonometry, calculus and analytic geometry, and statistics), physics, geology and earth sciences.

It is imperative that entering students be adequately prepared for college-level study in mathematics, science and English, and begin their studies with the fall semester. Therefore, the student entering in a semester other than fall or not prepared for college-level courses, should expect to take extra time to satisfy degree requirements. Many courses in both the business and engineering areas are offered once a year. Students beginning out of sequence may also take extra time to satisfy degree requirements.

## ACADEMIC PROGRAMS

The Business, Engineering and Information Technologies Department offers a number of degrees and certificates from which students may choose:

### Associate of Arts (AA) Degree

Associate of Arts: Business  
Administration Transfer

### Associate of Science (AS) Degree

Associate of Science  
(Mathematics, chemistry,  
physics and geology)

### Associate of Applied Business (AAB) Degrees

Accounting  
Business Management  
Internet and Interactive  
Digital Media Design  
Medical Office/Coding Specialist  
Office Information Technology  
Required Emphasis: Executive  
or Legal

### Associate of Applied Science (AAS Degrees)

Drafting/Design  
Optional Emphasis: Mechanical  
Electrical  
Electronics  
Mechanical

### Associate of Technical Studies (ATS-A) Degrees

Electro-Mechanical Engineering  
Information Technology  
Instrumentation and Control  
Power Plant

## Certificates

Business Management  
CISCO Certified Network Associate  
(CCNA)  
CISCO Certified Network  
Professional (CCNP)  
Computer Software  
Microsoft Certified Systems  
Administrator (MCSA)  
Medical Coding Specialist  
Medical Machine Transcription  
Office Assistant  
Programmable Logic Controllers  
Real Estate  
Welding

In addition, the following ATS-B interdisciplinary programs are also available. These degrees require that courses or other training in the area of concentration be completed at other higher education institutions, educational centers and/or other education enterprises judged by the college to be college level. It is the student's responsibility to provide validation of this training. See the dean for more information.

### Building/Construction Trades Technology (ATS-B)

### Industrial/Manufacturing

### Trades Technology (ATS-B)

### Utilities Services Production/ Maintenance Trades Technology (ATS-B)

## ACADEMIC STANDARDS

The faculty and dean work actively with each student providing leadership, motivation and holding students accountable for their academic success. The faculty represent diverse backgrounds and expertise. They are highly qualified and are committed to the success of all students. Faculty and staff serve as academic advisors to students in all majors. Students should refer to faculty and advisors for standards in each course.

All students are strongly encouraged to carefully study the collegewide academic standards found in the Student Handbook section of this catalog. In addition, the following department standards must be met in various programs and majors:

- Each program is composed of required technical courses in which a minimum of "C" is needed for successful progress toward a degree (these courses are identified on individual degree sequences).
- Credits transferred from other institutions which are more than five years old will be subject to evaluation on a course-by-course basis.
- Students who have been absent from the college for more than one regular semester (excluding summer) will be subject to re-evaluation on an individual basis. Students who have technical credits that are more than five years old will also be subject to a re-evaluation on an individual basis.
- The sequences of study outlined in this catalog are the responsibility of the student to complete to earn a degree. Any changes (including practicum) to these requirements must be pre-approved through the dean's office.

Any questions and/or concerns regarding academic standards should be addressed to the dean's office.

## LABORATORIES

The college has computer labs where all computer-related courses meet. The computer labs provide the student with state-of-the-art computer hardware and software that will aid in preparing work for all of their classes. Open lab time is available for usage outside of class time as well. Students are encouraged to maximize their use of computers in all of their coursework.

Business, Engineering and Information Technologies laboratories are representative of a strong commitment to state-of-the-art technologies. Current laboratories include: up-to-date computer software applications, digital electronics, electrical systems, hydraulic, mechanical, CAD, computer science, physical science and chemistry.

Some highlights of technologies available in these labs include the latest programmable logic controllers, microcontrollers, power distribution and control systems, mechanical test equipment, plasma cutting system, infrared spectrophotometer and gas chromatograph, AutoCAD and CISCO routers and the latest technology in computer hardware and networking.

## CAREER AND TRANSFER OPPORTUNITIES

To aid the student in job placement and determining career opportunities, Jefferson Community College provides placement and counseling services. Faculty and staff are also valuable resources in career and job opportunity searches. The dean of humanities and social sciences, the HOST Center staff, and faculty are resources to those students seeking transfer opportunities. The college has many transfer articulation agreements with four-year institutions and is developing new agreements on a regular basis.

The Associate of Arts (AA) for Business Administration Transfer is offered as a major for students who wish to prepare for pursuing a bachelor's degree in business. Its liberal arts based curriculum combined with basic business courses prepares the student to transfer to a four-year institution with the courses that are in most cases the base of a four-year business degree.



Using the latest equipment in JCC's labs gives students extra knowledge.

The AS program has been designed as parallel curricula to those of universities. These include transfer to programs in chemistry, geology, mathematics, and physics. A student may also pursue engineering technology and industrial technology fields at the baccalaureate level.

Current articulation agreements exist with many universities and colleges. For the most up-to-date list, students should check in the HOST Center.

Many diverse career opportunities exist for the graduates of business, engineering and information technology programs. Students are prepared to undertake professional positions in management, computer information, networking, maintenance, testing, design and fabrication of various industrial systems. Many corporations (small and large) seek successful graduates of these

programs both within and outside the Ohio Valley. Every attempt is made to prepare graduates of a caliber suitable for responsible positions in business and industry. The Placement Office can provide more information regarding placement of past graduates.

The programs offered through the Business, Engineering and Information Technologies department will enhance a student's opportunities for success in achieving their career goals and in life.

## FACULTY AND STAFF

Students have many opportunities to study and work with some of the most highly qualified faculty. Furthermore, the small size of business, engineering and science classes is a major help in student learning. The department faculty represents top academic credentials, many years of industrial work experience and many additional years of college teaching experience. On a continuous basis, all department faculty and staff seek to update and/or gain the knowledge and expertise necessary to remain at the cutting edge of science and technology. Students are encouraged to seek out such knowledge in the pursuit of their academic, career and professional growth goals.

## ASSOCIATE OF ARTS: BUSINESS ADMINISTRATION TRANSFER

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*"The tuition is so affordable and the credits transfer."*

DEBBIE BONAFEDE  
Mingo Junction

The Associate of Arts for Business Administration Transfer Program is designed for students who are planning to transfer into baccalaureate degree programs in business administration, management, marketing, finance and accounting along with other business programs offered at four-year institutions.

The coursework includes the basic business courses that are generally acceptable to the transfer institution. The major emphasis is on completion of general education requirements that are part of the senior institution's requirements for business majors. These are in the liberal arts areas of math, science, humanities and social sciences.

Students enrolling in this transfer program should be aware of the course requirements and application of transfer credits at the institutions to which they are considering transferring.

Working closely with the academic advisor and transfer director, a student will be able to tailor a program of study to fit the requirements of the desired transfer institution. It is the student's responsibility to meet requirements of a program and the needs in regards to transfer.

The graduate will be able to:

1. Demonstrate basics of business short- and long-range planning and organizational skills.
2. Identify problems and use of problem-solving skills to make appropriate ethical decisions.
3. Exhibit oral and written communication skills through active listening and reading.
4. Use a wide variety of public and private sources, including degree specific technology, to retrieve and use data.
5. Distinguish the principles underlying human, personal, and interpersonal relationships as well as the impact of local and national current affairs.
6. Contribute as a member of social and professional groups, therefore developing a work ethic.
7. Apply theory and practical applications in identifying and solving accounting and business problems.

# ASSOCIATE OF ARTS: BUSINESS ADMINISTRATION TRANSFER

## SUGGESTED SEQUENCE OF REQUIRED COURSES

Semester I	Semester II	Semester III	Semester IV
<b>ACC101</b> Financial Accounting I ▲ 4	<b>ACC102</b> Financial Accounting II ▲ 4	<b>ECO101</b> Macroeconomics ▲ 3	<b>COM101</b> Public Speaking ▲ 3
<b>BUS101</b> Introduction to Business ▲ 3	<b>BUS203</b> Business Law I ▲ 3	<b>MTH121*</b> College Trigonometry ▲ 3	<b>ECO102</b> Microeconomics ▲ 3
<b>CIS100 Series</b> Check transfer for best selection 3	<b>ENG102</b> English Composition II ▲ 3	<b>MTH128*</b> Statistics ▲ 3	Social Science Elective** 3
<b>CSS100 Series</b> 2	<b>MTH120*</b> College Algebra ▲ 4	<b>PSY101</b> General Psychology ▲ 3	Humanities Elective** 3
<b>CSS106</b> Orientation to College 1	Science Elective 4	Humanities Elective** 3	Science Elective 4
<b>ENG101</b> English Composition I ▲ 3		Humanities Elective** 3	
Credits 16	Credits 18	Credits 18	Credits 16

68 Semester Credits

\* Enrollment eligibility determined by math assessment score or successful completion of prerequisites.

\*\* Refer to the first page of the course description section for appropriate humanities and social sciences electives. Student should consult with advisor before choosing any electives.

▲ Student must obtain a letter grade of C or better to progress to graduation/certification.

Note: All new first-time/full-time students are required to take CSS106.

## ACCOUNTING (AAB)

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*"I had a lot of good teachers. Now I want to help students get started on their careers."*

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GREG ANTINONE  
Graduate  
Steubenville

The Accounting Program is designed to prepare students for employment in entry-level positions in both public and private accounting. The program also will prepare the student who wishes to continue towards a four-year degree in accounting.

As a paraprofessional, the program graduate is an important member of the management team performing cost analysis, analyzing the strengths and weaknesses of conventional financial statements, and utilizing knowledge of a firm's records to suggest improvements.

Students will have experience using computers for accounting applications, including spreadsheets, integrated general ledger packages, and payroll packages.

Jefferson Community College accounting graduates are currently employed by both public and private accounting firms and by a broad variety of large and small businesses, government agencies, and nonprofit organizations. Many of our accounting graduates have also successfully pursued bachelor's degrees and CPA licenses.

The graduate will be able to:

1. Prepare and maintain a set of manual or computerized financial accounting records for a corporation or a sole proprietorship in accordance with generally accepted accounting principles, including daily transactions and the analysis of complex transactions.
2. Complete all end-of-period work, including the adjusting and closing process, and the preparation and analysis of the four financial statements.
3. Apply theory and practical applications of managerial accounting systems, including cost principles, for a manufacturer, merchandiser, and a service provider.
4. Prepare simple individual income tax returns and research tax questions.
5. Prepare and maintain payroll records.

# ACCOUNTING

## SUGGESTED SEQUENCE OF REQUIRED COURSES

Semester I	Semester II	Semester III	Semester IV
<b>ACC101</b> Financial Accounting I  ▲ 4	<b>ACC102</b> Financial Accounting II  ▲ 4	<b>ACC211</b> Intermediate Accounting I  ▲ F 4	<b>ACC204</b> Introduction to Income Taxes  ▲ S 3
<b>BUS101</b> Introduction to Business  3	<b>ACC105</b> Payroll Accounting  ▲ S 3	<b>ACC215</b> Accounting Applications on Computers  ▲ 3	<b>ACC212</b> Intermediate Accounting II  ▲ S 4
<b>ECO102</b> Microeconomics  3	<b>CIS222</b> Spreadsheet Concepts  3	<b>ACC220</b> Managerial/Cost Accounting I  ▲ F 4	<b>ACC221</b> Managerial/Cost Accounting II  ▲ S 4
<b>ENG101</b> English Composition I  3	<b>ENG102</b> English Composition II or <b>ENG103</b> Business Communications  3	<b>BUS203</b> Business Law I  3	<b>ACC260</b> Accounting Capstone  ▲ S 1
<b>CIS100E, CIS100W</b> and one other CIS100 series  3	<b>MGT201</b> Principles of Management  3	<b>COM101</b> Public Speaking  3	<b>MGT206</b> Career Success Seminar  S 1
<b>CSS106</b> Orientation to College  1			General Studies Elective  3
Credits 17	Credits 16	Credits 17	Credits 16

66 Semester Credits

A list of general studies electives can be found at the beginning of the course descriptions section.

▲ Student must obtain a letter grade of C or better to progress to graduation/certification.

Note: All new first-time/full-time students are required to take CSS106.

F -- offered fall semester; S -- offered spring semester

## BUSINESS MANAGEMENT (AAB)

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*“The staff helps and supports you throughout your education.”*

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RHONDA LOUK  
Steubenville

The Business Management Program is designed to provide the educational background to enable graduates to pursue careers in management. Employment forecasters predict that a shortage of supervisors will exist during the next decade. Business management technicians will be needed to fill these openings.

As a result of analyzing the business world, the business management courses have been developed so that the business management technician will understand all the interdependent aspects of business activities. This knowledge will make the business management technician a valuable member of the management team.

Areas of concentration in this program are leadership, human resources, finance, marketing, total quality management, accounting, and computer information.

Graduates are employed in career areas such as credit, real estate, purchasing, public relations, retailing, operations, account representatives, and banking. Numerous graduates are self employed. The technical business training provided at Jefferson Community Col-

lege lends itself to employment in a wide variety of business positions

The graduate will be able to:

1. Demonstrate the ability to influence individuals or group performance of assigned tasks.
2. Develop oral, written, and listening skills to relate effectively with fellow employees.
3. Demonstrate ability to work in groups/teams.
4. Demonstrate basics of business short- and long-term planning and organizational skills.
5. Identify problems and use of problem-solving skills to make appropriate ethical decisions.

# BUSINESS MANAGEMENT

## SUGGESTED SEQUENCE OF REQUIRED COURSES

Semester I	Semester II	Semester III	Semester IV
<b>BUS101</b> Introduction to Business ▲ 3	<b>BUS201</b> Principles of Marketing ▲ 3	<b>ACC101</b> Financial Accounting I 4	<b>BUS221</b> Business Ethics S 3
<b>BUS111</b> Business Math OR <b>MTH120</b> College Algebra 3-4	<b>BUS203</b> Business Law ▲ 3	<b>CIS222</b> Spreadsheet Concepts 3	<b>COM101</b> Public Speaking 3
<b>CIS100 Series</b> Any three 3	<b>MGT201</b> Principles of Management S 3	<b>ECM101</b> Foundations of E-Commerce F 3	<b>ENG102</b> English Composition II OR <b>ENG103</b> Business Communications 3
<b>CSS106</b> Orientation to College 1	<b>MGT202</b> Organizational Behavior S 3	Emphasis Course 4	<b>MGT206</b> Career Success Seminar S 1
<b>ECO101</b> Macroeconomics 3	General Studies Elective 3	Emphasis Course 3	Emphasis Course 3-4
<b>ENG101</b> English Composition I 3			Emphasis Course 3
Credits 16-17	Credits 15	Credits 17	Credits 16-17

64-66 Semester Credits

### Emphasis Requirements

Student must complete one of the following emphasis tracks.

**Marketing Emphasis:** PSY 102 Human Relations  
BUS 205 Advertising and Promotion (S)  
BUS 207 Salesmanship (S)  
Humanities Elective

**Entrepreneurship Emphasis:** BUS 206 Small Business Management (S)  
BUS 210 Entrepreneurship (F)  
MGT 210 Leadership Development and Teambuilding (F)  
ACC 102 Financial Accounting II

A list of general studies electives can be found at the beginning of the course descriptions section.

▲ Student must obtain a letter grade of C or better to progress to graduation/certification.

Note: All new first-time/full-time students are required to take CSS106.

F -- offered fall semester; S -- offered spring semester

## INTERNET AND INTERACTIVE DIGITAL MEDIA (AAS)

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*"My education  
at JCC changed  
my life."*

---

TONI HEAVILIN  
Graduate  
Hopedale

The Internet and Interactive Digital Media Program is designed to prepare professionals to become leaders in the emerging field of electronic commerce.

Students can receive a foundation in both business aspects and technological competencies demanded by both small and large businesses. The mixture of these skills is necessary so graduates can apply their technical expertise within the context of a business setting.

To enhance the competencies acquired, students gain the opportunity to earn technical certifications that are both recognized and in demand by those in hiring situations. Information technology certifications that may be earned include Certified Internet Webmaster, Microsoft Office Specialist, and Comp-TIA E-Biz+, and I-Net+.

Many courses in e-commerce provide an opportunity to build a portfolio of work to provide to potential employers.

The graduate will be able to:

1. Analyze business problems and provide technological solutions under the appropriate conditions.
2. Design web sites that integrate multiple design technologies.
3. Implement a successful Internet marketing strategy.
4. Describe in detail the technology of the Internet and how it relates to business.
5. Use the techniques of project management to coordinate, set, and meet deadlines for ongoing e-commerce and other business technology activities.
6. Understand the promotion of business through the web and other media.
7. Integrate database technologies into websites and other business applications to manage customer service, inventory, and sales.
8. Articulate the technological need of a business and recognize emerging trends in markets and technology.
9. Develop multimedia tools to enhance web sites and business presentations.
10. Demonstrate independent work habits.

# INTERACTIVE DIGITAL MEDIA DESIGN

## SUGGESTED SEQUENCE OF REQUIRED COURSES

Semester I	Semester II	Semester III	Semester IV
<b>CSS106</b> Orientation to College  1	<b>COM101</b> Public Speaking  3	<b>CIS225</b> Database Concepts  3	<b>IDM222</b> Game Development  4
<b>ENG101</b> English Composition I  3	<b>ENG104</b> Technical and Professional Writing  3	<b>IDM203</b> Digital Animation  3	<b>IDM251</b> Capstone in Internet and Interactive Digital Media  3
<b>IDM101</b> Foundations of Digital Media  3	<b>IDM201</b> Digital Images and Graphics  4	<b>IDM221</b> Advanced Digital Media Programming  3	General Studies Elective  3
<b>IDM111</b> Professional Internet Foundations  3	<b>IDM211</b> Site Design Methodologies  4	Technical Elective**  3	Technical Elective**  3
<b>IDM121</b> Digital Media Programming  3	<b>MTH128</b> Statistics  3	Technical Elective**  3	Technical Elective**  3
<b>ART Elective*</b>  3			
Credits 16	Credits 17	Credits 15	Credits 16
64 Semester Credits			

\*Choose one: ART102, ART103, ART107, ART108

\*\*Choose from the following courses: ART 101, ART102, ART103, ART107, ART108, ART111, ART121, (Art course must be in addition to the course chosen for the ART requirement), BUS101, BUS201, BUS206, CIS222, IDM204, IDM275, ENG103, ENG151, ENG152, JRN101, JRN201, MGT201, MGT202, RET201, RET203, RET205

▲ Student must obtain a letter grade of C or better to progress to graduation/certification.

Note: All new first-time/full-time students are required to take CSS106.

F -- offered fall semester; S -- offered spring semester

## MEDICAL OFFICE/CODING SPECIALIST (AAB)



*"I feel like  
education is a  
privilege.  
You should  
cherish it."*

VINCETTA TSOURIS  
Graduate  
Steubenville

The Medical Office Coding Specialist Program prepares students for positions as medical secretaries. The curriculum emphasizes familiarity with the terminology of the medical profession and the basic techniques of medical office procedures. Graduates are prepared to become confidential assistants in medical management. Graduates may work as secretaries to physicians, to staff members in a medical or health clinic, or to select personnel in a hospital.

The graduate will be able to:

1. Keyboard accurately at a minimum of 45 words per minute.
2. Use the computer to produce mailable letters and business documents.
3. Apply, pronounce and spell medical terms accurately, including various medical areas of specialization and terminology for diagnostic procedures, surgical procedures and common prescription drugs.
4. Apply proper formatting, grammar, spelling, and punctuation in production and proofreading of documents utilizing reference materials.
5. Use a personal computer to word process, manage databases, prepare spreadsheets, research, and communicate internally and externally in the office.
6. Integrate graphics into documents using computer software.
7. Transcribe a variety of medical documents accurately and efficiently using a transcribing machine.
8. Maintain manual and electronic records control systems.
9. Apply quantitative skills and principles to solve business problems.
10. Cope with interruptions, work under pressure and exercise sound judgment in daily operations of an office.
11. Perform, act, react and dress professionally in business and office settings.
12. Use decision making, management principles and knowledge to solve practical business and office problems.
13. Use communication and interpersonal skills to foster productive work environments and internal and external office communications.
14. Conduct a job search, research job possibilities, create a resume, write letters of application, interview effectively and follow up with thank you letters.

### MICROSOFT OFFICE SPECIALIST CERTIFICATION COURSES

OIT203 Advanced Word Processing  
CIS222 Spreadsheet Concepts  
CIS225 Database Concepts  
OIT208 Graphical Presentation Concepts



Successfully completing any or all of these courses will enable the student to prepare to take the Microsoft Office Certification Test in each specific application.

# MEDICAL OFFICE/CODING SPECIALIST

## SUGGESTED SEQUENCE OF REQUIRED COURSES

Semester I	Semester II	Semester III	Semester IV
<b>BIO101</b> Basic Anatomy  3	<b>ENG101</b> English Composition I  3	<b>ACC100</b> Office Accounting  F 3	<b>ACC105</b> Payroll Accounting  S 3
<b>CSS106</b> Orientation to College  1	<b>BUS111</b> Business Math  3	<b>COM105</b> Interpersonal Communication  3	<b>HIM214</b> CPT-4 Procedural Coding  ▲ 3
<b>HSC101</b> Medical Terminology I  2	<b>CIS222</b> Spreadsheet Concepts  ▲ 3	<b>ENG103</b> Business Communications  3	<b>HSC104</b> Medical Insurance  ▲ S 2
<b>OIT103</b> Keyboarding/ Speedbuilding/Formatting  ▲ 3	<b>OIT113</b> Advanced Formatting/Speedbuilding  ▲ 3	<b>HIM103</b> Law and Ethics  ▲ 3	<b>OIT222</b> Advanced Medical Machine Transcription  ▲ 2
<b>OIT108</b> Document Editing/ Proofreading/Formatting  ▲ F 3	<b>OIT203</b> Advanced Word Processing  ▲ 3	<b>HSC103</b> Law and Ethics  ▲ 1	<b>OIT250</b> Office Practicum  ▲ S 2
<b>OIT224</b> Records Management  ▲ 3	General Studies Elective*  3	<b>HSC106</b> Business Administration Health Office  ▲ 2	<b>OIT251</b> Office Practicum Seminar  ▲ S 1
		<b>OIT212</b> Medical Machine Transcription  ▲ 2	<b>PSY102</b> Psychology of Human Relations  3
Credits 15	Credits 18	Credits 18	Credits 16

67 Semester Credits

\* A list of general studies electives can be found at the beginning of the course descriptions section.

▲ Student must obtain a letter grade of C or better to progress to graduation/certification.

Note: All new first-time/full-time students are required to take CSS106.

F -- offered fall semester; S -- offered spring semester

## OFFICE INFORMATION TECHNOLOGY (AAB)

The Office Information Technology Program will prepare students for the continuously changing role of the office professional. Graduates will be proficient in basic secretarial skills, interpersonal skills, personal computer use, communication skills, and will be familiar with all aspects of office management.

The graduate will be able to:

1. Keyboard accurately at a minimum of 45 words per minute.
2. Use the computer to produce mailable letters and business documents.
3. Apply proper formatting, grammar, spelling, and punctuation in production and proofreading of documents utilizing reference materials.
4. Use a personal computer to word process, manage databases, prepare spreadsheets, research, and communicate internally and externally in the office.
5. Integrate graphics into documents using computer software.
6. Transcribe a variety of documents accurately and efficiently using a transcribing machine.
7. Use decision making, management principles and knowledge to solve practical business and office problems.
8. Maintain manual and electronic records control systems.
9. Apply quantitative skills and principles to solve business problems.
10. Use communication and interpersonal skills to foster productive work environments and internal and external office communications.
11. Cope with interruptions, work under pressure and exercise sound judgment in daily operations of an office.
12. Perform, act, react and dress professionally in business and office settings.
13. Conduct a job search, research job possibilities, create a resume, write letters of application, interview effectively and follow up with thank you letters.

### MICROSOFT OFFICE SPECIALIST CERTIFICATION COURSES

OIT203 Advanced Word Processing  
CIS222 Spreadsheet Concepts  
CIS225 Database Concepts  
OIT208 Graphical Presentation Concepts



Successfully completing any or all of these courses will enable the student to prepare to take the Microsoft Office Certification Test in each specific application.

# OFFICE INFORMATION TECHNOLOGY

## SUGGESTED SEQUENCE OF REQUIRED COURSES

Semester I	Semester II	Semester III	Semester IV
<b>BUS101</b> Introduction to Business  3	<b>ENG103</b> Business Communications  3	<b>ACC100</b> Office Accounting  F 3	<b>ACC105</b> Payroll Accounting  S 3
<b>BUS111</b> Business Math  3	<b>CIS222</b> Spreadsheet Concepts  ▲ 3	<b>CIS225</b> Database Concepts  ▲ 3	<b>COM101</b> Public Speaking  3
<b>CSS106</b> Orientation to College  1	<b>OIT113</b> Adv Formatting/Speedbuilding  ▲ 3	<b>OIT208</b> Graphical Presentation Concepts  ▲ F 3	<b>OIT207</b> Office Publications  ▲ S 3
<b>ENG101</b> English Composition I  3	<b>OIT203</b> Advanced Word Processing  ▲ 3	<b>OIT210</b> Executive Office Transcription  ▲ 4	<b>OIT214</b> General Office Procedures  ▲ S 2
<b>OIT103</b> Keyboarding/ Speedbuilding/Formatting  ▲ 3	<b>PSY102</b> Psychology of Human Relations  3	<b>OIT228</b> Web Concepts for Administrative Assistants  ▲ F 3	<b>OIT250</b> Office Practicum  ▲ S 2
<b>OIT108</b> Document Editing/ Proofreading/Formatting  ▲ F 3			<b>OIT251</b> Office Practicum Seminar  S 1
<b>OIT224</b> Records Management  ▲ 3			General Studies Elective*  3
Credits 19	Credits 15	Credits 16	Credits 17

67 Semester Credits

\* A list of general studies electives can be found at the beginning of the course descriptions section.

% Student must obtain a letter grade of C or better to progress to graduation/certification.

Note: All new first-time/full-time students are required to take CSS106.

F -- offered fall semester; S -- offered spring semester

## BUSINESS MANAGEMENT (CERTIFICATE)

The certificate in Business Management is for individuals who desire knowledge of supervisory skills, or are employed in supervisory positions, or already hold a degree in a nonbusiness area. The program is designed to improve leadership, communication, and management skills. These 12 courses are also required in the associate degree program in business management technology for those who wish to

continue their college education after earning the certificate.

The graduate will be able to:

1. Demonstrate the ability to influence individuals or group performance of assigned tasks.
2. Develop oral, written, and listening skills to relate effectively with fellow employees.

3. Demonstrate ability to work in groups and teams.
4. Identify problems and use of problem-solving skills to make appropriate ethical decisions.
5. Identify government regulations of business operations.

## BUSINESS MANAGEMENT (CERTIFICATE)

### SUGGESTED SEQUENCE OF REQUIRED COURSES

Semester I	Semester II
<b>CIS100 Series</b> Any three courses OR <b>CIS222</b> Spreadsheet Concepts 3	<b>BUS203</b> Business Law I 3
<b>COM101</b> Public Speaking 3	<b>BUS221</b> Business Ethics S 3
<b>CSS106</b> Orientation to College 1	<b>ENG102</b> English Composition II OR <b>ENG103</b> Business Communications 3
<b>ENG101</b> English Composition I 3	<b>MGT202</b> Organizational Behavior ▲ S 3
<b>MGT201</b> Principles of Management ▲ 3	<b>MGT206</b> Career Success Seminar ▲ S 1
<b>PSY102</b> Psychology of Human Relations 3	<b>MGT210</b> Leadership Development and Team Building ▲ S 3
Credits 16	Credits 16

32 Semester Credits

▲ Student must obtain a letter grade of C or better to progress to graduation/certification.

Note: All new first-time/full-time students are required to take CSS106.

F -- offered fall semester; S -- offered spring semester

## COMPUTER SOFTWARE (CERTIFICATE)

The Computer Software Certificate program is designed to prepare students to work in entry-level positions where knowledge of application software is essential. Graduates will be proficient in personal computer use, a variety of common software packages, and communication skills.

The graduate will be able to:

1. Learn and master keyboarding skills.
2. Manipulate databases and spreadsheets for business use, including planning and structuring, data retrieval, report generation and screen design.
3. Prepare professional presentations.
4. Create documents using HTML.

## COMPUTER SOFTWARE (CERTIFICATE)

### SUGGESTED SEQUENCE OF REQUIRED COURSES

Semester I	Semester II
<b>ENG101</b> English Composition 3	<b>ENG103</b> Business Communications 3
<b>CIS225</b> Database Concepts ▲ 3	<b>CIS222</b> Spreadsheet Concepts ▲ 3
<b>CSS106</b> Orientation to College 1	<b>OIT207</b> Office Publications ▲ S 3
<b>OIT108</b> Document Editing/ Proofreading/Formatting ▲ F 3	<b>OIT203</b> Advanced Word Processing ▲ 3
<b>OIT208</b> Graphical Presentation Concepts ▲ F 3	<b>PSY102</b> Psychology of Human Relations 3
<b>OIT228</b> Web Concepts for Administrative Assistants ▲ F 3	
Credits 16	Credits 15

31 Semester Credits

Prerequisite: OIT103 or proficiency before entering program.

▲ Student must obtain a letter grade of C or better to progress to graduation/certification.

Note: All new first-time/full-time students are required to take CSS106.

F -- offered fall semester; S -- offered spring semester

# MEDICAL CODING SPECIALIST (CERTIFICATE)

The Medical Coding Specialist certificate program prepares students to become coding professionals. The curriculum emphasizes familiarity with the terminology of the medical profession, basic medical office procedures and CPT-4 coding and HCPCS codes. Graduates may work in a variety of settings, including physicians' offices, hospitals and other medical facilities.

The graduate will be able to:

1. Keyboard accurately at a minimum of 45 words per minute.
2. Apply, pronounce and spell medical terms accurately, including various medical areas of specialization and terminology for diagnostic procedures, surgical procedures, and common prescription drugs.
3. Maintain manual and electronic records control systems, including scheduling of patients and completing various insurance forms.
4. Use CPT-4 coding and HCPCS codes.

# MEDICAL CODING SPECIALIST (CERTIFICATE)

## SUGGESTED SEQUENCE OF REQUIRED COURSES

Semester I	Semester II
<b>BIO101</b> Basic Anatomy ▲ 3	<b>HIM103</b> Introduction to Classification Systems ▲ 3
<b>CSS106</b> Orientation to College 1	<b>ENG101</b> English Composition I 3
<b>HSC101</b> Medical Terminology ▲ 2	<b>HIM214</b> CPT-4 Procedural Coding ▲ 3
<b>HSC103</b> Law and Ethics ▲ F 1	<b>HSC104</b> Medical Insurance ▲ 2
<b>HSC106</b> Business Administration Health Office ▲ F 3	<b>PSY101</b> General Psychology 3
<b>OIT103</b> Keyboarding/Speedbuilding/Formatting ▲ 3	
Credits 13	Credits 14

27 Semester Credits

▲ Student must obtain a letter grade of C or better to progress to graduation/certification.  
 Note: All new first-time/full-time students are required to take CSS106.  
 S -- offered spring semester

# MEDICAL MACHINE TRANSCRIPTION (CERTIFICATE)

The Medical Machine Transcription certificate program prepares students to become transcription professionals. The curriculum emphasizes familiarity with the terminology of the medical profession, basic medical office procedures, and basic and advanced transcribing techniques. Graduates may work in a variety of settings, including physicians' offices, hospitals and other medical facilities.

The graduate will be able to:

1. Keyboard accurately at a minimum of 45 words per minute.
2. Apply, pronounce and spell medical terms accurately, including various medical areas of specialization and terminology for diagnostic procedures, surgical procedures, and common prescription drugs.

3. Transcribe a variety of medical documents accurately and effectively using a transcribing machine.
4. Maintain manual and electronic records control systems, including scheduling of patients and completing various insurance forms.

# MEDICAL MACHINE TRANSCRIPTION (CERTIFICATE)

## SUGGESTED SEQUENCE OF REQUIRED COURSES

Semester I	Semester II
<b>BIO101</b> Basic Anatomy ▲ 3	<b>ENG103</b> Business Communications 3
<b>CSS106</b> Orientation to College 1	<b>OIT203</b> Advanced Word Processing ▲ 3
<b>HSC101</b> Medical Terminology ▲ 2	<b>OIT222</b> Advanced Medical Machine Transcription ▲ 2
<b>HSC103</b> Law and Ethics ▲ 1	<b>PSY101</b> General Psychology 3
<b>HSC106</b> Business Administration Health Office ▲ 3	
<b>OIT103</b> Keyboarding/Speedbuilding/ Formatting ▲ 3	
<b>OIT212</b> Medical Machine Transcription ▲ 2	

Credits 15

Credits 11

26 Semester Credits

▲ Student must obtain a letter grade of C or better to progress to graduation/certification.

Note: All new first-time/full-time students are required to take CSS106.

## OFFICE ASSISTANT (CERTIFICATE)

Special programs leading to a one-year office assistant certificate or a computer software certificate are available for those students not seeking an associate degree. These programs seek to provide students the necessary skills to obtain entry-level office assistant positions.

The graduate will be able to:

1. Keyboard accurately at a minimum of 45 words per minute.
2. Use the computer to produce mailable letters and business documents.
3. Apply proper formatting, grammar, spelling and punctuation in production and proofreading of documents utilizing reference materials.
4. Use a personal computer to word process, manage databases, prepare spreadsheets, research and communicate internally and externally in the office.
5. Maintain manual and electronic records control systems.
6. Apply quantitative skills and principles to solve business problems.
7. Use proper telephone etiquette.
8. Cope with interruptions, work under pressure and exercise sound judgment in daily operations of an office.
9. Perform, act, react and dress professionally in business and office settings.
10. Conduct a job search, research job possibilities, create a resume, write letters of application, interview effectively and follow up with thank you letters.

## OFFICE ASSISTANT

### SUGGESTED SEQUENCE OF REQUIRED COURSES

Semester I	Semester II
<b>ACC100</b> Office Accounting F 3	<b>ACC105</b> Payroll Accounting S 3
<b>BUS111</b> Business Math 3	<b>CIS222</b> Spreadsheet Concepts ▲ 3
<b>CSS106</b> Orientation to College 1	<b>ENG103</b> Business Communications 3
<b>ENG101</b> English Composition I 3	<b>OIT203</b> Advanced Word Processing ▲ 3
<b>OIT103</b> Keyboarding/ Speedbuilding/Formatting ▲ 3	<b>OIT214</b> General Office Procedures ▲ S 2
<b>OIT108</b> Document Editing/ Proofreading/Formatting ▲ F 3	<b>PSY102</b> Psychology of Human Relations 3
<b>OIT224</b> Records Management ▲ F 3	

Credits 19

Credits 17

36 Semester Credits

▲ Student must obtain a letter grade of C or better to progress to graduation/certification.  
Note: All new first-time/full-time students are required to take CSS106.

## REAL ESTATE (CERTIFICATE)

The Real Estate certificate program prepares students for careers as real estate agents. The courses in the program cover the objectives of the Ohio Real Estate Sales Associate License exam. Students will gain knowledge in business practices and ethics; agency and licensing; property characteristics, descriptions, ownership, interests and restrictions; property valuation and the appraisal process; sales contracts, financing resources, closing/settlement and transferring title; and property management. Students may complete all four courses in one semester, if they so choose.

Although the four courses listed below adequately prepare a student to sit for the licensing exam, students may wish to expand their business knowledge and communication skills. Students may wish to take other courses such as, but not limited to: Introduction to Business, Small Business Management, Principles of Marketing, and Interpersonal Communications.

The graduate will be able to:

1. Interpret real estate law as it pertains to real estate brokers and salespersons.
2. Have a working knowledge of financing processes such as mortgage loans and the mortgage market.
3. Use theory and principles of appraising urban property.

## REAL ESTATE (CERTIFICATE)

### SUGGESTED SEQUENCE OF REQUIRED COURSES

#### Semester I

<b>REA201</b> Principles of Real Estate	3
<b>REA202</b> Real Estate Law	3
<b>REA211</b> Real Estate Finance	2
<b>REA212</b> Real Estate Appraisal	2

Credits 10

10 Semester Credits

## DRAFTING/DESIGN (AAS)

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*"I can commute  
from home and I  
can be around  
my friends."*

---

YVONNE FAIR  
Brilliant

The drafting/design technician's primary responsibilities are to convert technical ideas into graphic form, either manually or by computer-aided drafting (CAD). They normally prepare drawings from sketches and instructions furnished by designers, engineers and scientists for engineering concerns, manufacturers, architects and the government.

Many are employed in research and development or planning departments. The type of drawing work done can include mechanical, electrical, structural, illustration, cartography and piping.

Drafting jobs may be classified as draftsman, design draftsman and engineering designer. The drafting/design graduate is qualified as a design draftsman and is capable of assuming a leadership position.

The graduate will be able to:

1. Develop and demonstrate the ability to read, understand and prepare technical drawings using tools and AutoCAD computer software.
2. Follow established engineering standards for analytical computation, design, and development.
3. Demonstrate professional traits such as accuracy, neatness, and organizational skills. Demonstrate the ability to read, write, and speak clearly, efficiently, and professionally.
4. Demonstrate the ability to draw, read, and interpret machine part drawings, electrical/electronic drawings, technical illustration drawings, structural/architectural drawings, and pipe and map drafting using manual drafting.

## SUGGESTED SEQUENCE OF REQUIRED COURSES

**Drafting/Design with a Mechanical Emphasis:** The student following the Mechanical Emphasis path will take the additional courses denoted by ♦. This may affect the total time and credits toward graduation.

## \*\*Technical Electives

▲ Student must obtain a letter grade of C or better to progress to graduation/certification.

Note: All new first-time/full-time students are required to take CSS106.

F -- offered fall semester; S -- offered spring semester

## ELECTRICAL (AAS)

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The electrical major is designed to provide a solid foundation in the principles of electricity, with an emphasis on hands-on experience. Beginning with basic fundamentals, students move gradually to learn the theory of operation of electric machines commonly used in the industry, such as different types of direct current motors, and three phase and single phase motors. In the second year, students progress to learn how to program the PLC to control basic industrial processes. During the course of study students learn to pay close attention to the electrical safety standards and guidelines of the National Electrical Code (NEC). The relevant knowledge, the skills that industry needs today, and the competencies that are integrated into the curriculum are intended to prepare the graduate to be job-ready in the high-tech workplace at the end of two years and to enter into a rewarding career. Typical job titles include: supervisor of maintenance crew, electrical test technician, assembly technician, quality control specialist and field service representative.

The graduate will be able to:

1. Measure electrical quantities, such as voltage, current and power in electric circuits.
2. Analyze and troubleshoot typical electric circuits with the aid of computer software.
3. Measure and calculate, voltage, current and power in three phase delta and wye connected loads.
4. Use and calibrate instruments, such as, oscilloscopes, function generators and chart recorders, and demonstrate knowledge of the theory of their operation.
5. Identify and explain the function of each module of a programmable logic controller.
6. Program the PLC to control field devices, such as motors, relays, solenoids and other electromechanical devices and use its various mathematical functions.
7. Demonstrate knowledge of operation and characteristics of dc series, shunt and compound motors and generators.
8. Demonstrate knowledge of operation and characteristics of various types of single phase and three phase motors.
9. Demonstrate knowledge of single phase and three phase transformers and their various connection methods and their use in power distribution and utilization.
10. Demonstrate knowledge in applying the National Electrical Code in electrical wiring and control systems.
11. Demonstrate professional conduct and interpersonal communication skills with related personnel.

### OPPORTUNITIES FOR BACCALAUREATE STUDIES

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Students who successfully complete the electrical major may continue their studies toward a bachelor's degree in Electrical or Electronics Engineering Technology and/or Industrial Technology at various universities. Further information regarding any of these opportunities is available through the dean of business, engineering and information technologies or transfer director.

# ELECTRICAL

## SUGGESTED SEQUENCE OF REQUIRED COURSES

Semester I	Semester II	Semester III	Semester IV
<b>CSS106</b> Orientation to College  1	<b>CHM102</b> General Chemistry I  4	<b>COM101</b> Public Speaking  3	<b>CPS120</b> "C" Language  ▲ 3
<b>DES110</b> Drafting I  ▲ F 3	<b>ELE102</b> Circuits II  ▲ S 4	<b>ELE121</b> Electronic Circuits  ▲ F 4	<b>EGT290</b> IT and Engineering Seminar  S 1
<b>ELE101</b> Circuits I  ▲ F 4	<b>ELE104</b> DC Machinery  ▲ S 3	<b>ELE202</b> AC Machinery  ▲ F 3	<b>EGT291</b> IT and Engineering Practicum  S 1-2
<b>ENG101</b> English Composition I  3	<b>PHY106</b> College Physics I  S 4	<b>ELE208</b> Industrial Controls  ▲ F 3	<b>ELE205</b> Power Distribution  ▲ S 3
<b>MTH110</b> Technical Algebra  ▲ F 3	General Studies Elective  3	<b>ENG104</b> Technical and Professional Writing  3	<b>ELE207</b> General Instrumentation  ▲ S 3
<b>MTH111</b> Technical Trigonometry  ▲ F 3			<b>ELE214</b> Programmable Logic Controllers  ▲ S 3
			<b>MTH210</b> Technical Calculus I  3
Credits 17	Credits 18	Credits 16	Credits 17-18

68-69 Semester Credits

\* A list of general studies electives can be found at the beginning of the course descriptions section.

▲ Student must obtain a letter grade of C or better to progress to graduation/certification.

Note: All new first-time/full-time students are required to take CSS106.

F -- offered fall semester; S -- offered spring semester

# ELECTRO-MECHANICAL ENGINEERING TECHNOLOGY (Type A-ATS)



*“The student activities keep you involved at JCC.”*

TIFFANY PALMER  
Steubenville

This program emphasizes those skills required by the highly competitive field of electro-mechanical technology. At the completion of the program, graduates will be engaged in designing, manufacturing, inspecting, operating, and maintaining various types of electro-mechanical systems. Within the mechanical component, manufacturing processes such as CNC & design aspects are emphasized. Within the electrical component, skills are developed in circuits, AC & DC machinery, and industrial programmable controller applications.

The graduate will be able to:

1. Demonstrate professional conduct and interpersonal communication skills (verbal and written) with coworkers and other technical personnel.
2. Demonstrate the ability to apply mathematical and geometric concepts.
3. Demonstrate the ability to produce engineering drawings using manual drafting tools and computer-aided design systems.
4. Demonstrate knowledge of electrical principles and AC/DC machinery.
5. Demonstrate knowledge of manufacturing processes on different machines, tools and materials by operating conventional and CNC equipment.
6. Apply concepts of statics to analyze and compute forces on and in structures that are at rest or moving with uniform velocity.
7. Demonstrate knowledge of principles of physics.
8. Demonstrate proficiency in industrial applications of programmable logic controllers.

## OPPORTUNITIES FOR BACCALAUREATE STUDIES

Students who successfully complete the electro-mechanical major may continue their studies toward a bachelor's degree in Mechanical or Manufacturing Engineering Technology and/or Industrial Technology at various universities. Further information regarding any of these opportunities is available through the dean of business, engineering and information technologies or transfer director.

# ELECTRO-MECHANICAL ENGINEERING TECHNOLOGY

## SUGGESTED SEQUENCE OF REQUIRED COURSES

Semester I	Semester II	Semester III	Semester IV
<b>CSS106</b> Orientation to College  1 ▲ F 3	<b>ELE104</b> DC Machinery  1 ▲ S 3	<b>ELE202</b> AC Machinery  1 ▲ F 3	<b>COM101</b> Public Speaking  3
<b>DES110</b> Drafting I  1 ▲ F 3	<b>DES111</b> Drafting II  1 ▲ S 3	<b>ELE208</b> Industrial Controls  1 ▲ F 3	<b>EGT290</b> IT and Engineering Seminar  S 1
<b>ELE101</b> Circuits I  1 ▲ F 4	<b>DES115</b> Computer-Aided Design I  1 ▲ S 3	<b>ENG101</b> English Composition  3	<b>EGT291</b> IT and Engineering Practicum  S 1-2
<b>MCH204</b> Introduction to Manufacturing Processes  1 ▲ F 3	<b>MCH201</b> Applied Mechanics I (Statics)  1 ▲ S 3	<b>MCH110</b> Engineering Materials  1 ▲ F 2	<b>ENG104</b> Technical and Professional Writing  3
<b>MTH110</b> Technical Algebra  1 ▲ F 3	<b>PHY106</b> College Physics I  S 4	<b>MCH208</b> CNC (Milling & Lathe) OR substitute  1 ▲ 3	<b>MCH202</b> Applied Mechanics II (Dynamics)  1 ▲ S 2
<b>MTH111</b> Technical Trigonometry  1 ▲ F 3		<b>MCH210</b> Strength of Materials  1 ▲ F 3	<b>MCH230</b> Mechanical Component Design  1 ▲ S 3
			<b>MTH210</b> Technical Calculus I  3
Credits 17	Credits 16	Credits 17	Credits 16-17

66-67 Semester Credits

\* A list of general studies electives can be found at the beginning of the course descriptions section.

▲ Student must obtain a letter grade of C or better to progress to graduation/certification.

Note: All new first-time/full-time students are required to take CSS106.

F -- offered fall semester; S -- offered spring semester

## ELECTRONICS (AAS)

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Today we live in a technological world of constant change and evolution. The new high-tech and computerized society depends on a highly skilled and specially trained corps of electronics engineering technicians to service the latest electronics equipment with new circuitry, new components, and new principles. The Electronics Engineering Technology Program provides the necessary training for graduates to obtain positions as electronics technicians, computer technicians, field service engineers, embedded programmers, local area network technicians, local area network administrators, and/or consumer electronics technicians.

The electronics program places a major emphasis on practical laboratory experience using state-of-the-art digital computers, microcontrollers, routers, switches, and other equipment used in industry. Electronics is one of the most exciting and rewarding technologies with broad and stable career opportunities.

The graduate will be able to:

1. Apply a knowledge of DC, AC, semiconductor, operational amplifier, and microprocessor theory and their function in analyzing systems operation.
2. Install, upgrade, configure, and administer computer networking systems hardware, software, and industry troubleshooting procedures.
3. Apply a detailed knowledge of micro-processor, embedded controller, embedded processor, and multiprocessor systems operation and relevant troubleshooting procedures.
4. Write system troubleshooting software for microprocessor based systems and practice using it for component level troubleshooting.
5. Relate the fundamentals of digital processing, hardware, software, and systems troubleshooting procedures.
6. Obtain experience in problem solving both individually and in group situations.
7. Follow prescribed safety procedures in all areas of laboratory.
8. Test, calibrate, and operate a variety of manufacturing, maintenance, and testing equipment effectively and safely.

### OPPORTUNITIES FOR BACCALAUREATE STUDIES

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Students who successfully complete the electronics major may continue their studies toward a bachelor's degree in Electrical or Electronics Engineering Technology and/or Industrial Technology at various universities. Further information regarding any of these opportunities is available through the dean of business, engineering and information technologies or transfer director.

# ELECTRONICS

## SUGGESTED SEQUENCE OF REQUIRED COURSES

Semester I	Semester II	Semester III	Semester IV
<b>CSS106</b> Orientation to College  1 ▲ F 4	<b>ELE102</b> Circuits II  4 ▲ S 4	<b>ELE121</b> Electronic Circuits  4 ▲ F 4	<b>COM101</b> Public Speaking  3
<b>ELE101</b> Circuits I  4 ▲ F 4	<b>ELE222</b> Microcomputer Organization and Networking  4 ▲ S 4	<b>ELE106*</b> Computer Networking I (CISCO Semester I)  4 ▲ F 4	<b>EGT290</b> IT and Engineering Seminar  1 S
<b>ELE130</b> Digital Computer Electronics  4 ▲ F 4	<b>ENG104</b> Technical and Professional Writing  3	<b>ELE107*</b> Computer Networking II (CISCO Semester II)  4 ▲ F 4	<b>EGT291</b> IT and Engineering Practicum  1-2 S
<b>ENG101</b> English Composition I  3	<b>MTH210</b> Technical Calculus I  3	<b>ELE220</b> Programming and Interfacing Microprocessors and Microcontrollers F 4	<b>ELE206*</b> Computer Networking III (CISCO Semester III)  4 ▲ S 4
<b>MTH110</b> Technical Algebra  3 ▲ F 3	<b>PHY106</b> College Physics I  4 S		<b>ELE217*</b> Computer Networking IV (CISCO Semester IV)  4 ▲ S 4
<b>MTH111</b> Technical Trigonometry  3 ▲ F 3			General Studies Elective**  3
Credits 18	Credits 18	Credits 16	Credits 16-17

68-69 Semester Credits

\* Eight-week courses - courses may be taken during the same semester.

\*\* A list of General studies electives can be found at the beginning of the course descriptions section.

▲ Student must obtain a letter grade of C or better to progress to graduation/certification.

Note: All new first-time/full-time students are required to take CSS106.

F -- offered fall semester; S -- offered spring semester

## INFORMATION TECHNOLOGY (Type A-ATS)

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*“Every one of my JCC credits transferred to Mount Union.”*

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MARCI COLANTONI  
Steubenville

This program emphasizes the skills. Advances in networking and Internet technologies have created an increasing need for businesses to employ professionals trained in the information technology field. As a result of these advances, career opportunities in Network Administration have shown some of the fastest growth in the nation.

In our comprehensive program, complete coverage of hardware and operating systems is taught for several of the latest networking platforms. Students will gain the skills needed to set-up and manage high performance computer networks using the latest networking tools including TCP/IP, security firewalls, email and Internet services, and more. Students will also receive training in a variety of current technologies including Cisco, Microsoft, Novell, and LINUX. In addition, students learn how to troubleshoot and repair personal computers. Hands-on experience is provided to our students through extensive lab time in each technology related course.

This hands-on training is a key aspect of the program as it helps graduates successfully make the transition from the classroom to the workplace. Our program may be just what you're looking for to get you started on a career in today's information technology driven world!

The graduate will be able to:

1. Install, upgrade, configure, and administer computer networking systems hardware, software, and industry troubleshooting procedures.
2. Demonstrate professional conduct and interpersonal communication skills.
3. Develop a functional understanding of computer networks, hardware and systems.
4. Maintain and support information systems in a wide range of computing environments with Microsoft Windows and the integrated family of server products.

# INFORMATION TECHNOLOGY

## SUGGESTED SEQUENCE OF REQUIRED COURSES

Semester I	Semester II	Semester III	Semester IV
<b>CSS106</b> Orientation to College  1	<b>COM101</b> Public Speaking  3	<b>ELE106</b> Computer Networking I (CISCO Semester I)  ▲ F 4	<b>EGT291</b> IT and Engineering Practicum  S 1
<b>ELE101</b> Circuits I  ▲ F 4	<b>ELE222</b> Microcomputer Organization and Networking  ▲ 4	<b>ELE107</b> Computer Networking II (CISCO Semester II)  ▲ F 4	<b>ELE206</b> Computer Networking III (CISCO Semester III)  ▲ 4
<b>ELE130</b> Digital Computer Electronics  ▲ 4	<b>ENG101</b> English Composition I  3	<b>ENG104</b> Technical and Professional Writing  3	<b>ELE217</b> Computer Networking IV (CISCO Semester IV)  ▲ 4
<b>NET110*</b> Installing, Configuring, and Administering Microsoft Windows XP Professional  ▲ F 4	<b>NET112*</b> Implementing, Managing, and Maintaining a Microsoft Windows Server 2003 Network Infrastructure  ▲ S 4	<b>MTH110</b> Technical Algebra  3	<b>ELE231</b> Fundamentals of Wireless LANs  ▲ 4
<b>NET111*</b> Managing and Maintaining a Microsoft Windows Server 2003 Environment  ▲ F 4	<b>NET212*</b> Implementing & Administering Security in a Microsoft Windows  ▲ S 4	<b>NET210</b> Planning, Implementing, and Maintaining a Microsoft Windows Server 2003 Active Directory Infrastructure  ▲ 4	<b>NET113</b> Planning and Maintaining a Microsoft Windows Server 2003 Network Infrastructure  ▲ 4
Credits 17	Credits 18	Credits 18	Credits 17

70 Semester Credits

\* Eight-week courses -- courses may be taken during the same semester.

\*\* Technical Electives

CIS211  
 CIS212  
 CIS213  
 CIS214  
 CIS222  
 CIS225  
 CPS120  
 CPS140  
 CPS210  
 CPS215  
 CPS220

▲ Student must obtain a letter grade of C or better to progress to graduation/certification.

Note: All new first-time/full-time students are required to take CSS106.

F -- offered fall semester; S -- offered spring semester

# INSTRUMENTATION AND CONTROL (Type A-ATS)

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*"JCC is close to home, the people are friendly, and the teachers are great."*

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JULIE STENGER  
Graduate  
Toronto

The Associate of Technical Study Program permits the student to earn a degree with an emphasis chosen from elements of two or more programs. Jefferson Community College offers a technical study curriculum in instrumentation and control which is largely an amalgamation of the Electrical and Electronics Engineering Technology Programs. Graduates may seek employment in the electric power industry and in many other industries utilizing industrial control systems.

The graduate will be able to:

1. Demonstrate professional conduct and interpersonal communication skills with related personnel.
2. Follow prescribed safety procedures in all areas of the laboratory.
3. Measure electrical quantities in an electric circuit by using electronic test equipment.
4. Analyze and troubleshoot typical electronic circuits.
5. Identify and troubleshoot basic Integrated Chip (IC) in a digital circuit.
6. Describe the theory, design and application of modern electronic communications systems and their relationships to the total field of electronics.
7. Identify the functional blocks of a microprocessor/microcontroller.
8. Identify industrial devices and their applications.
9. Interpret voltage, current, power and phase angle readings generated by machines.
10. Design and implement motor control protection devices.
11. Demonstrate knowledge in programming and using programmable controllers such as Allen Bradley PLCs.
12. Design industrial and residential wiring systems.
13. Apply national safety codes such as the national electrical code to electrical machinery and wiring.

## OPPORTUNITIES FOR BACCALAUREATE STUDIES

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Students who successfully complete the electrical major may continue their studies toward a bachelor's degree in Electrical or Electronics Engineering Technology and/or Industrial Technology at various universities. Further information regarding any of these opportunities is available through the dean of business, engineering and information technologies or transfer director.

# INSTRUMENTATION AND CONTROL

## SUGGESTED SEQUENCE OF REQUIRED COURSES

Semester I	Semester II	Semester III	Semester IV
<b>CHM102</b> General Chemistry I  4 ▲ F 3	<b>ELE102</b> Circuits II  4 ▲ S 4	<b>ELE202</b> AC Machinery  3 ▲ F 3	<b>COM101</b> Public Speaking  3 ▲
<b>CSS106</b> Orientation to College  1 ▲	<b>ELE104</b> DC Machinery  3 ▲ S 3	<b>ELE208</b> Industrial Controls  3 ▲ F 3	<b>DES110</b> Drafting I  3 ▲
<b>ELE101</b> Circuits I  4 ▲ F 4	<b>ENG101</b> English Composition I  3	<b>ELE220</b> Programming and Identifying Microprocessors and Microcontrollers  4 ▲ F 4	<b>EGT290</b> IT and Engineering Seminar  1 S
<b>ELE130</b> Digital Computer Electronics  4 ▲ F 4	<b>PHY106</b> College Physics I  4 S 4	<b>ENG104</b> Technical and Professional Writing  3	<b>EGT291</b> IT and Engineering Practicum  1-2 S
<b>MTH110</b> Technical Algebra  3 ▲ F 3		<b>MTH210</b> Technical Calculus I  3	<b>ELE205</b> Power Distribution  3 ▲ S 3
<b>MTH111</b> Technical Trigonometry  3 ▲ F 3			<b>ELE207</b> General Instrumentation  3 ▲ S 3
Credits 19	Credits 14	Credits 16	Credits 14-15

63-64 Semester Credits

\* A list of general studies electives can be found at the beginning of the course descriptions section.

▲ Student must obtain a letter grade of C or better to progress to graduation/certification.

Note: All new first-time/full-time students are required to take CSS106.

F -- offered fall semester; S -- offered spring semester

## MECHANICAL (AAS)

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The Mechanical Engineering Technology Program has a heavy emphasis on automated manufacturing, computer numerical control (CNC) equipment, and flexible manufacturing systems (FMS).

At the completion of the program, graduates will be engaged in designing, manufacturing, testing and developing, inspecting, operating, troubleshooting, and maintaining mechanical equipment and systems. The mechanical engineering technician can be called upon to develop and modify engineering drawings. The graduate will apply the principles of strength of materials, testing and inspecting of components in various stages of manufacturing, testing and calibrating of measuring instruments, determining material specifications, preparing lists of materials and determining cost requirements to satisfy company, government or other contract requirements. The skills acquired through this program also will enable the

graduates to perform other tasks in various fields of engineering.

The graduate will be able to:

1. Demonstrate professional conduct and interpersonal communication skills (verbal and written) with coworkers and other technical personnel.
2. Apply basic concepts of kinetics and kinematics of bodies in motion or at rest.
3. Demonstrate knowledge of basic electrical principles used in electrical systems.
4. Demonstrate knowledge of manufacturing processes on different machines, tools and materials by operating a variety of manual and/or CNC (Lathe & Milling) machines.
5. Demonstrate proper use of drafting tools and equipment and produce finished drawings using manual techniques.
6. Demonstrate proficiency in the use of CAD system to produce engineering drawings.
7. Apply computers to solve engineering and related problems using knowledge of computer language.
8. Demonstrate the ability to apply mathematical and geometric concepts.
9. Demonstrate basic understanding of hydraulic and pneumatic concepts, components and systems used in the

manufacturing environment and in manufactured products.

10. Demonstrate knowledge of the fundamental laws of physics: mechanics/heat/light/sound.
11. Apply concepts of statics to analyze and compute the forces on and in structures that are at rest or moving with uniform velocity.
12. Apply principles of strength and performance of materials to select and design structural components and systems.
13. Demonstrate basic knowledge of automated manufacturing systems used in industry and build a manufacturing cell.

### OPPORTUNITIES FOR BACCALAUREATE STUDIES

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Students who successfully complete the mechanical major may continue their studies toward a bachelor's degree in Mechanical or Manufacturing Engineering Technology and/or Industrial Technology at various universities. Further information regarding any of these opportunities is available through the dean of business, engineering and information technologies or transfer director.

# MECHANICAL

## SUGGESTED SEQUENCE OF REQUIRED COURSES

Semester I	Semester II	Semester III	Semester IV
<b>CSS106</b> Orientation to College  1	<b>DES111</b> Drafting II  ▲ S 3	<b>DES215</b> Computer Aided Design II OR <b>MCH102</b> Industrial Hydraulics  ▲ F 2-3	<b>COM101</b> Public Speaking  3
<b>DES110</b> Drafting I  ▲ F 3	<b>DES115</b> Computer Aided Design I  ▲ S 3	<b>MCH110</b> Engineering Materials  F 2	<b>DES221</b> Pipe Drafting/Map Drafting  S 2
<b>ENG101</b> English Composition I  3	<b>MCH201</b> Applied Mechanics I (Statics)  ▲ S 3	<b>MCH208</b> CNC (Milling & Lathe) OR substitute  ▲ 3	<b>EGT290</b> IT and Engineering Seminar <b>EGT291</b> IT and Engineering Practicum  S 2-3
<b>MCH204</b> Introduction to Manufacturing Processes  ▲ F 3	<b>MTH210</b> Technical Calculus I  3	<b>MCH210</b> Strength of Materials  ▲ F 3	<b>ENG104</b> Technical and Professional Writing  3
<b>MTH110</b> Technical Algebra  ▲ F 3	<b>PHY106</b> College Physics I  S 4	<b>PHY107</b> College Physics II  F 4	<b>MCH202</b> Applied Mechanics II (Dynamics)  ▲ S 2
<b>MTH111</b> Technical Trigonometry  ▲ F 3			<b>MCH230</b> Mechanical Component Design  ▲ S 3
Credits 16	Credits 16	Credits 14-15	Credits 15-16

61-63 Semester Credits

\* A list of general studies electives can be found at the beginning of the course descriptions section.

▲ Student must obtain a letter grade of C or better to progress to graduation/certification.

Note: All new first-time/full-time students are required to take CSS106.

F -- offered fall semester; S -- offered spring semester

# BUILDING/CONSTRUCTION TRADES TECHNOLOGY (TYPE-B-ATS) INDUSTRIAL/MANUFACTURING TRADES TECHNOLOGY (TYPE B-ATS) UTILITIES SERVICES PRODUCTION/MAINTENANCE TRADES TECHNOLOGY (TYPE B-ATS)

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Jefferson Community College can award credit for verified learning resulting from prior experience; for instance, knowledge acquired through non-college experience. It is the student's responsibility to identify the learning outcomes of the experience, what was learned, what the specific objectives were, how those objectives were learned, from whom the objectives were learned, and if and how the learning can be directly linked to an existing college course. If it is determined that the learning can be directly linked, Jefferson Community College course credit may be granted. If the learning is not closely allied to an existing course but is of significant value and of college level, special topics credit may be granted. This credit can be awarded when the learning is not specifically course related but is college equivalent, possessing value in and of itself, and contributing to the personal career development of the learner in the concentration identified in the degree approval. The dean will make this decision based on the student's documented evidence of the learning experience.

This degree (ATS-Type B) is awarded for the satisfactory completion of a minimum of 60 semester credit hours in an individually planned technical educa-

tion program, which contains an area of concentration formed by credits awarded by the institution for courses completed or training received by a student at other higher education institutions, educational centers and/or other education enterprises judged by the institution to be of college level.

An interested student must file an application form outlining the area of concentration and designating course areas for further study, which must be approved and signed by the dean.

A sample sequence of courses follows for full-time day students in the ATS (Type B) programs for (1) Building/Construction Trades Technology; (2) Industrial/Manufacturing Trades Technology; (3) Utility Services Production / Maintenance Trades Technology. The sample sequence is identical for all three programs.

Under a proposed agreement with the Steubenville Joint Apprenticeship and Training Committee (IBEW-NECA), a graduate of the five-year Inside Apprenticeship program may seek an Associate of Technical Study (Type-B) in Electrical Trades Technology at Jefferson Community College. Under this agreement, an apprenticeship graduate will

receive up to 47 credits toward graduation and must complete the following courses (or approved alternates) within the maximum of four years: English Composition I, Technical and Professional Writing, Public Speaking, Technical Algebra, Technical Trigonometry, and College Physics I.

Information and conditions of admission to this program can be obtained by contacting the dean of information and engineering technologies.

The graduate will be able to:

1. Demonstrate professional conduct and interpersonal communication skills (verbal and written) with coworkers and other technical personnel.
2. Demonstrate competency in chosen major by verified prior experience and knowledge.
3. Obtain experience in problem-solving both individually and in group situations.
4. Demonstrate the ability to understand and apply mathematical concepts.

# BUILDING/CONSTRUCTION TRADES TECHNOLOGY INDUSTRIAL/MANUFACTURING TRADES TECHNOLOGY UTILITIES SERVICES PRODUCTION/MAINTENANCE TRADES TECHNOLOGY

## SUGGESTED SEQUENCE OF REQUIRED COURSES

Semester I	Semester II	Semester III	Semester IV
<b>CHM102</b> General Chemistry I  4	<b>PHY106</b> College Physics I  S 4	<b>DES110</b> Drafting I  ▲ F 3	<b>COM101</b> Public Speaking  3
<b>MCH110</b> Engineering Materials  F 2	Technical Elective**  ▲ 3	<b>ENG104</b> Technical and Professional Writing  3	<b>DES115</b> Computer Aided Design I  S 3
<b>CSS106</b> Orientation to College  1	Technical Elective**  ▲ 3	<b>PHY107</b> College Physics II  F 4	<b>MGT206</b> Computer Success Seminar  1
<b>ENG101</b> English Composition I  3	Technical Elective**  ▲ 4	Technical Elective**  ▲ 4	General Studies Elective*  3
<b>MTH110</b> Technical Algebra  ▲ F 3			Technical Elective**  ▲ 4
<b>MTH111</b> Technical Trigonometry  ▲ F 3			Technical Elective**  ▲ 3
Credits 17	Credits 14	Credits 14	Credits 17

62 Semester Credits

\* A list of general studies electives can be found at the beginning of the course descriptions section.

\*\* Technical Electives: Must be taken only upon the approval of the dean.

▲ Student must obtain a letter grade of C or better to progress to graduation/certification.

Note: All new first-time/full-time students are required to take CSS106.

F -- offered fall semester; S -- offered spring semester

# CISCO CERTIFIED NETWORK ASSOCIATE (CERTIFICATE)

The Cisco Certified Network Associate certification provides the participants the necessary knowledge and background to do basic network administration. CCNA certified professionals can install, configure, and operate LAN, WAN, and dial access services for small networks, including but not limited to use of these protocols: IP, IGRP, Serial, Frame Relay, IP RIP, VLANs, RIP, Ethernet, Access Lists.

Upon completion of the certificate, the graduate will be able to:

1. Demonstrate proficiency at configuring CISCO networking devices.
2. Demonstrate proficiency at operating and maintaining networks
3. Develop the necessary logic process for problem-solving.
4. Demonstrate professional conduct and interpersonal communication skills.
5. Demonstrate an understanding of the role of humanities and social sciences in the modern world.

## CISCO CERTIFIED NETWORK ASSOCIATE (CCNA)

### SUGGESTED SEQUENCE OF REQUIRED COURSES

Semester I	Semester II
<b>CSS106</b> Orientation to College <div>▲ F 4</div>	<b>ELE231</b> Fundamentals of Wireless LANs <div>▲ 4</div>
<b>ELE101</b> Circuits I <div>▲ F 4</div>	<b>ELE206*</b> Computer Networking III <div>▲ S 4</div>
<b>ELE106*</b> Computer Networking I <div>▲ F 4</div>	<b>ELE117*</b> Computer Networking IV <div>▲ S 4</div>
<b>ELE107*</b> Computer Networking II <div>▲ F 4</div>	<b>ELE222</b> Microcomputer Organization and Networking <div>▲ S 4</div>
<b>ELE130</b> Digital Computer Electronics <div>▲ F 4</div>	<b>ENG101</b> English Composition I <div>3</div>

Credits 17

Credits 19

36 Semester Credits

\*Eight-week courses -- courses may be taken during the same semester.

▲ Student must obtain a letter grade of C or better to progress to graduation/certification.

Note: All new first-time/full-time students are required to take CSS106.

F -- offered fall semester; S -- offered spring semester

# CISCO CERTIFIED NETWORK PROFESSIONAL (CERTIFICATE)

The CISCO Certified Network Professional (CCNP) certification indicates advanced or journeyman knowledge of networks. With a CCNP, a network professional can install, configure, and operate LAN, WAN, and dial access services for organizations with networks from 100 to more than 500 nodes. The courses will contain topics such as : IP, IGRP, IPX, Async Routing, AppleTalk, Extended Access Lists, IP RIP, Route Redistribution, RIP, Route Summarization, OSPF, VLSM, BGP, Serial, Frame Relay, ISDN, ISL, X.25, DDR, PSTN, PPP, VLANs, Ethernet, Access Lists, 802.10, FDDI, Transparent and Translational Bridging.

Students will learn about complex network configuration and how to diagnose and troubleshoot network problems. Students who successfully complete the

advance curriculum are eligible to earn CISCO Certified Network Professional certification, provided that they pass the CISCO certification test.

Students enrolling in this certificate should be aware that the prerequisite for this certificate is any **one** of the following:

1. CCNA certification
2. Successful completion of Computer Networking I through computer networking IV at Jefferson Community College.
3. Successful completion of CISCO Networking Academy semester one through four at another school.

4. Working knowledge of CISCO equipment and with the approval of the instructor.

The graduate will be able to:

1. Demonstrate proficiency at configuring CISCO networking devices.
2. Demonstrate proficiency at operating and maintaining networks
3. Develop the necessary logic process for problem-solving.
4. Demonstrate professional conduct and interpersonal communication skills.

# CISCO CERTIFIED NETWORK PROFESSIONAL (CCNP)

## SUGGESTED SEQUENCE OF REQUIRED COURSES

Semester I	Semester II
<b>CSS106</b> Orientation to College 1	<b>ELE229**</b> Computer Networking VII (CISCO Semester VII) ▲ 3
<b>ELE227**</b> Computer Networking V (CISCO Semester V) ▲ 3	<b>ELE230**</b> Computer Networking VIII (CISCO Semester VIII) ▲ 3
<b>ELE228**</b> Computer Networking VI (CISCO Semester VI) ▲ 3	<b>ENG101</b> English Composition I 3
<b>MTH110</b> Technical Algebra 3	Technical Elective*** 3-4
Humanities Elective* 3	

Credits 13

Credits 12-13

25-26 Semester Credits

\* A list of general studies electives can be found at the beginning of the course descriptions section.

\*\* Eight-week courses -- courses may be taken during the same semester.

\*\*\*CPS101, NET110, NET111

▲ Student must obtain a letter grade of C or better to progress to graduation/certification.

Note: All new first-time/full-time students are required to take CSS106.

# MICROSOFT CERTIFIED SYSTEMS ADMINISTRATOR (CERTIFICATE)

The Microsoft Certified Systems Administrator (MCSA) certificate program is designed to provide the students the skills needed to acquire entry-level employment in the field of network administration. The emphasis is on hands-on network administration and is supported by relevant theory. The students focus on communication, study, and self-learning skills in addition to the technical skills that make up the core of the program. Students receive instruction that provides preparation foundation for the MCSA series of exams. This certificate is designed for professionals who may pos-

sess a degree in a non-technical area and wish to gain MCSA skills. Graduates of the program can seek successful employment as computer technicians, systems support specialists, or network administrators.

The graduate will be able to:

1. Demonstrate professional conduct and interpersonal communication skills.
2. Install, upgrade, configure, and administer computer networking systems hardware and software.

3. Demonstrate knowledge of the key services used in a typical network environment.
4. Demonstrate the basic skills in PC troubleshooting by using software diagnostic tools, test cards, and test equipment.
5. Demonstrate a functional understanding of operating systems principles and applications.

## MICROSOFT CERTIFIED SYSTEMS ADMINISTRATOR

### SUGGESTED SEQUENCE OF REQUIRED COURSES

Semester I	Semester II
<b>CSS106</b> Orientation to College 1	<b>ELE231</b> Fundamentals of Wireless LANs ▲ 4
<b>ELE101</b> Circuits I ▲ F 4	<b>ELE222</b> Microcomputer Organization and Networking ▲ S 4
<b>ELE106</b> Computer Networking I (CISCO I) ▲ F 4	<b>ENG101</b> English Composition I 3
<b>ELE130</b> Digital Computer Electronics ▲ F 4	<b>NET112*</b> Implementing, Managing, and Maintaining a Microsoft Windows Server 2003 Network Infrastructure ▲ S 4
<b>NET110*</b> Installing, Configuring, and Administering Microsoft Windows XP Professional ▲ F 4	<b>NET212*</b> Implementing and Administering Security in a Microsoft Windows Server 2003 Network ▲ S 4
<b>NET111*</b> Managing and Maintaining a Microsoft Windows Server 2003 Environment ▲ F 4	

Credits 21

Credits 19

40 Semester Credits

\* Eight-week courses -- courses may be taken during the same semester.

▲ Student must obtain a letter grade of C or better to progress to graduation/certification.

Note: All new first-time/full-time students are required to take CSS106.

F -- offered fall semester; S -- offered spring semester

# PROGRAMMABLE LOGIC CONTROLLERS (CERTIFICATE)

This certificate program is designed to allow the student to gain extensive knowledge about programming and troubleshooting Programmable Logic Controllers (PLC) in an industrial environment. PLCs are widely used to control industrial machinery, digital displays and circuitry, and sensors. Once they are linked together, they can share resources and information. Writing, documenting, storing, printing, editing and debugging ladder logic programs are essential to the operation of factories, steel plants and other manufacturing facilities. Technicians who can utilize advanced PLC programming techniques and instructions are in demand as industry updates the control process and relies more than ever on "high-tech" equipment.

The graduate will be able to:

1. Apply fundamental laws of electricity to DC and AC circuits.
2. Explain the basic components of DC and AC machines and their operations.
3. Identify basic logic gates and their applications.
4. Use Programmable Logic Controllers (PLCs) to control motors, sensors, displays and other devices and circuits.
5. Identify the schematic symbols of control devices.
6. Make necessary changes to hardware and software as specified by others.
7. Describe the hardware and software requirements for linking programmable logic controllers through data highway.
8. Use advanced programming techniques and apply shift register and sequence, as well as PID instructions to activate a variety of outputs.
9. Categorize individual control devices based on their applications.
10. Follow prescribed safety procedures in all areas of laboratory.
11. Demonstrate professional conduct and interpersonal communication skills with coworkers and other technical personnel.

## OPPORTUNITIES FOR FURTHER STUDIES

Students who successfully complete the Programmable Logic Controller Certificate may seek an associate degree with additional coursework; subject to each program and/or major's requirements.

## PROGRAMMABLE LOGIC CONTROLLERS

### SUGGESTED SEQUENCE OF REQUIRED COURSES

Semester I	Semester II	Semester III	Semester IV
<b>CSS106</b> Orientation to College 1	<b>ELE102</b> Circuits II ▲ S 4	<b>ELE121</b> Electronic Circuits ▲ F 4	<b>ELE214</b> Programmable Logic Controllers ▲ S 3
<b>ELE101</b> Circuits I ▲ F 4	<b>ELE104</b> DC Machinery ▲ S 3	<b>ENG101</b> English Composition I 3	<b>PHY106</b> College Physics I S 4
<b>ELE130</b> Digital Computer Electronics ▲ F 4		<b>ELE208</b> Industrial Controls ▲ F 3	
<b>MTH110</b> Technical Algebra F 3			
<b>MTH111</b> Technical Trigonometry F 3			

Credits 15

Credits 7

Credits 10

Credits 7

39 Semester Credits

▲ Student must obtain a letter grade of C or better to progress to graduation/certification.

Note: All new first-time/full-time students are required to take CSS106.

F -- offered fall semester; S -- offered spring semester

## WELDING (CERTIFICATE)

The welding certificate program is designed to provide students with technical knowledge and skills for entry-level employment. Content will cover vee groove welds in flat, horizontal, vertical and overhead positions. Theory will be augmented with hand-on laboratory instruction.

Upon completion of the certificate, the graduate will be able to:

1. Demonstrate cutting skills required in the operation of various welding processes.
2. Apply industrial field safety techniques in the operation of various welding and cutting processes.
3. Read and interpret blueprints for welding professionals.
4. Prepare vee groove welds in the horizontal, vertical and overhead positions.

## WELDING

### SUGGESTED SEQUENCE OF REQUIRED COURSES

Semester I	Semester II
<b>CSS106</b> Orientation to College 1	<b>WLD121</b> Shielded Metal Arc Welding II (SMAW) 4
<b>WLD101</b> Industrial and Welding Safety 2	<b>WLD201</b> Shielded Metal Arc Welding III (SMAW) 4
<b>WLD102</b> Oxyfuel Cutting 2	<b>WLD202</b> Blueprint Reading for Welders 4
<b>WLD111</b> Shielded Metal Arc Welding I (SMAW) 2	

Credits 9

Credits 12

21 Semester Credits

▲ Student must obtain a letter grade of C or better to progress to graduation/certification.

Note: All new first-time/full-time students are required to take CSS106.

F -- offered fall semester; S -- offered spring semester

# POWER PLANT (ATS)

The degree in Power Plant Technology is a collaboration between Jefferson Community College and Youngstown State University. Upon completion of all program requirements, the student will receive an Associate of Technical Study Degree from Youngstown State University in Power Plant Technology. This program prepares students to become operators in power generating plants.

During the course of the program, students will be co-enrolled in both Jefferson Community College and Youngstown State University. Most of the courses will be taught at JCC, and many will be at JCC's tuition rate. This

allows for maximum convenience and lower cost to the student. Some of the laboratory classes will be divided between YSU and local power plants, allowing students to gain real-life work experience in a plant.

Courses are sequenced and many are offered only one semester per year. Therefore, students must plan ahead and complete any developmental courses prior to entering the program in the fall semester.

For more information regarding this degree, contact the dean of business, engineering and information technologies.

The graduate will be able to:

1. Perform basic operating functions in electric utility power plants and related industries.
2. Gain knowledge in electrical theory, electrical machinery and controls, boiler, turbine and generator operations, power plant instrumentation, and pollution control equipment.
3. Gain knowledge of college writing, oral communications and general education.

## POWER PLANT

### SUGGESTED SEQUENCE OF REQUIRED COURSES

Semester I	Semester II	Summer	Semester III	Semester IV
<b>ELE101</b> Circuits I  F 4	<b>ECO102</b> Microeconomics  3	<b>EUT2699*</b> Electric Utility Co-op (optional)  2	<b>COM101</b> Public Speaking  3	<b>ELE207</b> General Instrumentation  S 3
<b>EUT1502/L*</b> Power Plant Mechanical Equipment and Lab F 6	<b>ELE102</b> Circuits II  S 4		<b>ELE202</b> AC Machinery  F 3	<b>EUT2608/L*</b> Advanced Power Plant Systems and Lab S 4
<b>MTH110</b> Technical Algebra  F 3	<b>ELE104</b> DC Machinery  S 3		<b>ENG102</b> English Composition II  3	<b>EUT2609/L*</b> Power Plant Supervision and Lab S 4
<b>MTH111</b> Technical Trigonometry  F 3	<b>ENG101</b> English Composition I  3		<b>EUT2605/L*</b> Intermediate Power Plant Systems and Lab F 4	<b>GSC101</b> Introduction to Physical Science S 4
	<b>EUT1503/L*</b> Power Plant Mechanical Equipment and Lab S 4		<b>EUT2606/L*</b> Power Plant Operator Practice and Lab F 4	<b>HSC116</b> Principles of Wellness S 3
Credits 16	Credits 17	Credits 2	Credits 17	Credits 18

70 Semester Credits

▲ Student must obtain a letter grade of C or better to progress to graduation/certification.

\* Course is offered by Youngstown State University - theory portion on JCC campus, laboratory is on YSU campus/local power plant.

F -- offered fall semester; S -- offered spring semester

# Health and Biological Sciences



# HEALTH AND BIOLOGICAL SCIENCES

The Health and Biological Sciences Department offers a variety of career and transfer-oriented academic programs to serve the educational needs of the students and the community.

## Objectives

1. The Health and Biological Sciences Department will incorporate the collegewide learning outcomes into each academic program.
2. The Health and Biological Sciences Department will provide students an educational environment conducive to learning in the classroom, lab, and off-campus facilities.

Health Sciences represent a series of degrees, certificates, programs, and courses which require "people skills," a caring attitude, and a commitment to helping others. The health field is service-oriented, meets specific community needs, and provides excellent self-satisfaction and personal rewards. The Ohio Board of Regents empowered JCC to grant Associate of Applied Science Degrees and award certificates of achievement. The college awards, by approval of the Ohio Board of Nursing, a certificate in Practical Nursing. The college awards, by approval of the Ohio Department of Public Safety Service Division of EMS, certificates of completion for the EMT-Paramedic program.

## HEALTH PROGRAMS AVAILABLE

- Clinical Laboratory Technician (Associate Degree)
- Dental Assisting (Associate Degree)
- Dental Assisting (Certificate)
- Expanded Functions Dental Assisting (Certificate)
- EMT-Intermediate (Certificate)
- EMT-Paramedic (Certificate)
- Histotechnician (Associate Degree)
- Medical Assisting (Associate Degree)
- Medical Assisting (Certificate)
- Phlebotomy (Certificate)
- Practical Nursing (Certificate)
- Radiologic Technology (Associate Degree)
- Respiratory Therapy (Associate Degree)

Each program has been designed to provide the student with on-campus classroom and laboratory instruction and laboratory practice. This experience is complemented by planned observations and participation in supervised practicum, clinical lab, or clinical education experiences within cooperating clinical affiliates.

## TECHNICAL STANDARDS

The health sciences faculty recognize that the academic potential of an applicant must be complemented by evidence of good health; an indication of a real interest and desire to work with the sick or injured; a genuine concern for people; and desirable personal traits including an ability to interact and communicate effectively in writing, verbally and non-verbally with patients and other medical and health professionals; good grooming; moral integrity; and emotional maturity. A copy of technical standards specific for each program is mailed to all prospective students from the Admissions Office.

## HEALTH REQUIREMENTS

The applicant accepted into a specific health science program must provide pre-entrance and/or pre-clinical or pre-practicum medical information prior to starting clinical education. In order for the applicant to progress successfully through the curriculum and function as a practicing member of the health care team after graduation, the following physical attributes also are needed: (1) visual acuity with corrective lenses if required; (2) hearing ability with auditory aids to understand the normal speaking voice without viewing the speaker's face; (3) sufficient physical ability to assess and perform CPR; (4) sufficient speaking ability to be able to question the client and to relay information about the patient verbally to others; and (5) enough manual dexterity to perform safe, effective procedures in the delivery of health care. The Medical/Dental Requirements Chart, located in this section, lists specific student health requirements by program. Forms are available in the college's Admissions Office.



Hands-on experience is the hallmark of JCC's health sciences programs such as practical nursing.

## ADMISSIONS PROCEDURE

Admission to Jefferson Community College **does not automatically** assure admission into a select health sciences program. All health sciences programs have additional requirements/prerequisites for admission that **must** be completed by the student **prior to** official program acceptance.

For some students additional requirements in chemistry, math, and/or anatomy (prerequisite courses) may be needed prior to acceptance. These requirements are identified in program admission packets, specific to each health major, available in the Admissions Office and mailed to inquiring students. Also, students should review the health sciences program admissions criteria on pages 14-15.

**After successful completion of all health program prerequisites, the prospective student must:**

1. Notify the Admissions Office that all requirements have been completed.
2. Sign a "release form" to allow his/her records to be forwarded for review.

The Admissions Office then will forward the student's file to the Office of Health and Biological Sciences for review by both the program director and dean. Seats are only assigned to a student who has **completed** all program requirements. Upon official program acceptance, a letter will be mailed to the student with specific instructions. Alternate status letters also are mailed when program capacity is met.

**Enrollment in health sciences programs is limited due to clinical availability.** Potential applicants are encouraged to **apply early** for acceptance into a specific program.

Because of the rolling admission "open door" admittance policy, students can be in the middle of a semester, trying to complete specific prerequisites and program seats can become **unavailable**. **In the event that only one seat remains open, but more than one student's file is ready for review, a lottery draw will occur.**

## ACADEMIC AND PROFESSIONAL STANDARDS

Applicants accepted for admission to a health program are required to follow approved program professional dress codes in college laboratory sessions and off-campus clinical sessions within cooperating affiliates. **Student health and liability insurance is mandatory for all students enrolled in health sciences.** Radiation badge monitoring services are mandatory for dental assisting and radiologic technology students. All students must carry health insurance at their own expense.

The student's **continuation** in a health technologies program may be contingent upon receiving a minimum grade of "C" in each technical and, in some programs, technically related course or laboratory; a minimum grade of "P" in all college and clinical (practicum) labs; and meeting class and clinical (practicum) attendance requirements. (See appropriate program handbook.) The student who fails to satisfactorily fulfill minimum academic requirements by the end of the semester or term will not be allowed to continue in the program.

Students may apply for readmission; **if accepted, they must complete the program in its entirety during the second readmission period.**

Applicants accepted for admission into each health program will be provided with a student handbook, which contains specific policies and procedures that students must adhere to during their program enrollment.

The student who successfully completes a health science program and/or option will be endorsed by the college to sit for the appropriate state or national licensure, registration, or certification examination.

## BIOLOGICAL AND HEALTH SCIENCES COURSES

In addition to the programs offered in specific health sciences, the Department of Health and Biological Sciences offers many courses for students who are not enrolled in a specific health program. These courses may be applied toward the Associate of Science Degree in Biological Sciences; be taken for professional advancement by persons currently employed in health care; or be completed by students preparing to enter a health technology program at a future date. In addition, these courses may be taken and transferred as electives or general education courses to the student's home college.

Students should check the Course Description Guide for more specific information about each course.

## MEDICAL/DENTAL REQUIREMENTS MUST BE COMPLETED BEFORE STARTING CLINICALS

<b>HEALTH</b>	<b>Clinical Laboratory Prior to CLT206</b>	<b>Accelerated CLT Prior to Clinical</b>	<b>Dental Assisting Prior to Clinical</b>	<b>EFDA Prior to Clinical</b>	<b>EMT-Paramedic Prior to Clinical</b>	<b>Histotechnician Prior to Clinical</b>	<b>Medical Assisting Prior to Practicum</b>
Medical History	X	X	X		X	X	X
Physical Exam	X	X	X		X	X	X
Dental Exam			X				
Macroscopic Urinalysis					X		
Tetanus (within seven years)					X		X
Tuberculosis Detection*	X	X	X		X	X	X
Hepatitis Vaccine	X***	X+	X	X	X	X+	X
Verification of Antibody Status	X	X			X	X	X
MMR Vaccine**	X	X			X	X	X
Health Insurance	X	X	X	X	X	X	X
CPR Card			X	X	X		X
Color Blindness	X	X				X	

<b>HEALTH PROGRAMS</b>	<b>Phlebotomy Technician Prior to PLB102</b>	<b>Practical Nursing Prior to Clinical</b>	<b>Radiologic Technology Prior to Clinical</b>	<b>Respiratory Therapy Prior to Clinical</b>
Medical History	X	X	X	X
Physical Exam	X	X	X	X
Dental Exam				
Macroscopic Urinalysis			X	
Tetanus (within seven years)		X	X	X
Tuberculosis Detection*	X	X	X	X
Hepatitis Vaccine	X	X	X	X
Verification of Antibody Status	X	X	X	X
MMR Vaccine**	X	X	X	X
Health Insurance	X	X	X	X
CPR Card		X	X	X
Blood Borne Pathogen Card				X
Color Blindness	X			

X Required

\* Options: Mantoux or chest X-ray (Two-step Mantoux required)

\*\* Titer if MMR prior to 1979

\*\*\* Prior to CLT102

+ Prior to program start date

## ASSOCIATE OF SCIENCE: BIOLOGICAL SCIENCES TRANSFER



*"I recommend it to people looking for a different career or advancement."*

BRIAN LEATHERWOOD  
Graduate  
Richmond

The Associate of Science for Biological Sciences Transfer is offered to approximate the first two years of a baccalaureate program in the health or biological sciences or for entrance to a specialized health professional program. This curriculum is designed for students who wish to transfer to a four-year institution to study premedical, pre-dental or pre-veterinary medicine; physical or occupational therapy; optometry; biology; or any biological science. This program also is appropriate for any health technology student who wishes to pursue an education beyond the AAS degrees offered by the college.

JCC's Transfer Module as approved by the Ohio Board of Regents is integrated into this curriculum to ensure a smooth transfer to upper-division programs. As such, this degree is **not** intended to prepare graduates for specific occupations.

Program outcomes:

1. Graduates will demonstrate competency in the science curriculum to fulfill freshmen and sophomore requirements for transfer to most four-year colleges.
2. Graduates will successfully complete the program requirements with a minimum of a 2.5 grade point average.
3. 95 percent of all students graduating from JCC with an Associate of Science Biological Sciences Degree will transfer to a four-year institution of higher learning.

### OPPORTUNITIES FOR BACCALAUREATE STUDIES

The coursework includes the basic math and science courses that are generally acceptable to the transfer institution. The major emphasis is on completion of general education requirements that are part of the senior institution's requirements for health and life sciences majors. The curriculum also includes pertinent course work in the humanities and social sciences.

Students enrolling in this transfer program should be aware of the course requirements and applications of transfer credits at the institutions to which they are considering transferring.

Working closely with an academic advisor, a student will be able to tailor a program of study to fit the requirements of the desired transfer institution. It is the student's responsibility to meet requirements of a program and the needs in regards to transfer.

Information regarding transfer of credits to various colleges and universities is available through the dean of humanities and social sciences.

# ASSOCIATE OF SCIENCE: BIOLOGICAL SCIENCES TRANSFER

## SUGGESTED SEQUENCE OF REQUIRED COURSES

Semester I	Semester II	Semester III	Semester IV
<b>BIO114</b> Principles of Biology I  ▲ 4	<b>BIO115</b> Principles of Biology II  ▲ 4	<b>CHM102</b> General Chemistry I  ▲ 4	<b>CHM103</b> General Chemistry II  ▲ 4
<b>CSS106</b> Orientation to College  1	<b>ENG102</b> English Composition II  3	<b>SOC101</b> Introduction to Sociology  3	<b>CHM201</b> Organic Chemistry or Biology Elective**  ▲ 4
<b>ENG101</b> English Composition I  3	<b>PHY126*</b> Science/Engineering Physics I  ▲ 4	Foreign Language or Humanities Elective*  3-4	<b>COM101</b> Public Speaking  3
<b>MTH220</b> Calculus and Analytic Geometry I  ▲ 5	<b>PSY101</b> General Psychology  3	Social Science Elective*  3	Foreign Language or Humanities Elective*  3-4
Foreign Language or Humanities Elective*  3-4	Foreign Language or Humanities Elective*  3-4		Social Science Elective*  3
Credits 16-17	Credits 17-18	Credits 13-14	Credits 17-18

63-67 Semester Credits

A list of general studies electives can be found at the beginning of the course descriptions section. **Elective selectives are critical; therefore an appointment with an academic advisor is essential.**

\* Check transfer requirements

▲ Student must obtain a letter grade of C or better in all courses with this symbol to progress to graduation.

NOTE: All new first-time/full-time students are required to take CSS106.

## DENTAL ASSISTING (AAS AND CERTIFICATE)

### DENTAL ASSISTING EXPANDED FUNCTIONS (CERTIFICATE)

STARTS FALL SEMESTER - DAY PROGRAM

A dental assistant works in a variety of office situations, both specialty and general practice, or in a dental clinic, hospital or in the armed forces, performing office and clinical assisting duties. Duties can include: assisting the dentist with examinations and fillings; preparing instruments; exposing radiographs; maintaining infection control; performing laboratory procedures; and performing reception and office management procedures.

The Dental Assisting Program is designed to provide the student with three dental career options leading to or enhancing employment in a dental office or dental clinic. Basic science courses prior to enrolling are encouraged; typing/computer course is required. (Passing grade in high school typing/computer course is acceptable.)

**Dental Assisting Program application/admissions criteria are identified on pages 14-15 in this catalog.**

The one-year certificate option provides the student with opportunities to acquire knowledge in the area of dental terminology, dental materials, radiography, and chairside assisting. Classroom sessions are complemented by planned practical experiences in the college laboratory and dental offices. Upon successful completion of the one-year certificate program, the student will be eligible to sit for the National Certification Examination or the Ohio Dental Assistants Examination to become a certified dental assistant.

To be eligible for the national examination, a person must graduate from an accredited institution and have a current registration in CPR. Those successfully completing the examination are permitted to use the initials CDA following their names.

The CDA who desires to continue her/his education in dental assisting can enroll in second-year courses leading to an Associate Degree of Applied Science, Dental Assisting, as a second option. Courses in general studies and technically related courses are included in the second year for the student who wishes to further his/her education.

The third option leads to a certificate in dental assisting with the potential credentials of Expanded Functions Dental Auxiliary (EFDA). This option is available to the certified dental assistant (CDA), registered dental hygienist (RDH), or Ohio certified dental assistant (CODA) who may be working full time and is interested in learning expanded restorative procedures in the college's dental clinic under the direct supervision of a licensed dentist. This program is designed for the part-time student who can attend classes one eight-hour day a week in fall and spring semesters. In spring semester, the student will be required to complete additional time on campus in the college's dental clinic. This will fulfill a student's clinical requirements. Upon successful completion of the dental assisting restorative courses, the student qualifies to sit for the state of Ohio EFDA Examination. If successful on the state's written and practical exam, the graduate is permitted to use the EFDA initials following his/her name. **Students who have failed to pass the EFDA State Board more than two times are required by the state to retake the EFDA program. These applicants will be granted re-admission into Jefferson Community College's EFDA program only once.**

**Upon completion of the dental assisting program options, the graduate will be able to:**

1. Demonstrate a conduct of ethical, legal, and professional standards in personal, clinical, and patient care.
2. Demonstrate interpersonal communication skills with patients, dental health teams, and other related health professionals.
3. Utilize library resources specific to dental assisting.
4. Meet requirements to take the state and/or national certification examination.
5. Practice proper infection control as well as personal, clinical, and patient safety in all aspects of dentistry.
6. Use problem-solving skills gained from basic sciences in dental health care.

**Upon completion of the EFDA program, the graduate will be able to:**

1. Demonstrate the skill to place and finish all metallic and non-metallic restorations in a patient's dentition.
2. Demonstrate the skills to perform other clinical procedures approved by the Ohio State Board.
3. Meet requirements to take the Ohio Commission on Dental Testing EFDA state exam.

# DENTAL ASSISTING (ASSOCIATE)

## SUGGESTED SEQUENCE OF REQUIRED COURSES

Semester I	Semester II	Summer *	Semester III	Semester IV
<b>BIO101</b> Basic Anatomy  3 ▲	<b>DAS106</b> Chairside Assisting  2 ▲	<b>DAS201</b> Dental Assisting Seminar  1 ▲	<b>BIO102</b> Human Anatomy/ Physiology  4 ▲	<b>CHM102</b> General Chemistry I  4 ▲
<b>DAS101</b> Introduction: Dental Assisting  1 ▲	<b>DAS107</b> Dental Materials II  3 ▲	<b>DAS202</b> Dental Assisting Practicum  1 ▲	<b>ENG102</b> English Composition II  3	<b>COM101</b> Public Speaking  3
<b>DAS102</b> Dental Sciences  4 ▲	<b>DAS108</b> Dental Anatomy  3 ▲	<b>ENG101*</b> English Composition I  3	<b>MTH128</b> Statistics  3	<b>SOC101</b> Introduction to Sociology  3
<b>DAS103</b> Preventive Dentistry  2 ▲	<b>DAS109</b> Dental Radiology  4 ▲	<b>PSY101*</b> General Psychology  3		Technically Related Elective**  3-4
<b>DAS104</b> Dental Materials I  3 ▲	<b>DAS110</b> Clinical Education  2 ▲			
<b>DAS105</b> Chairside Assisting I  4 ▲	<b>DAS111</b> Dental Administrative Procedures  2 ▲			

Credits 17

Credits 16

Credits 8

Credits 10

Credits 13-14

64-65 Semester Credits

See typing requirements identified on pages 14-15. **See course descriptions for prerequisites and corequisites.**

\*To be eligible to enroll in summer DAS201 and DAS202, the student must satisfy all courses in the preceding Semester I and Semester II with a minimum of a "C" average in each course; ENG101, and PSY101 must be satisfied or taken concurrently with practicum and seminar courses.

\*\* Technically Related Electives

BIO103 BIO114 BIO203 BIO204 BIO205

The student must submit current verification of CPR certification training from either: 1. American Heart Association-Basic Life Support for the Health Care Provider or 2. American Red Cross CPR for the Professional Rescuer to the program director prior to the start of Semester II. First aid/CPR courses (HSC102) are offered all semester, including summer sessions.

▲ Student must obtain a letter grade of P (pass), or C or better in all courses with this symbol (see Dental Assisting Handbook) to progress to graduation/certification.

NOTE: All new first-time/full-time students are required to take CSS106.

# DENTAL ASSISTING (CERTIFICATE)

## SUGGESTED SEQUENCE OF REQUIRED COURSES

Semester I	Semester II	Summer*
<b>BIO101</b> Basic Anatomy 3 ▲	<b>DAS106</b> Chairside Assisting II 2 ▲	<b>DAS201*</b> Dental Assisting Seminar 1 ▲
<b>DAS101</b> Introduction: Dental Assisting 1 ▲	<b>DAS107</b> Dental Materials II 3 ▲	<b>DAS202*</b> Dental Assisting Practicum 1 ▲
<b>DAS102</b> Dental Sciences 4 ▲	<b>DAS108</b> Dental Anatomy 3 ▲	<b>ENG101</b> English Composition I 3
<b>DAS103</b> Preventive Dentistry 2 ▲	<b>DAS109</b> Dental Radiology 4 ▲	<b>PSY101</b> General Psychology 3
<b>DAS104</b> Dental Materials I 3 ▲	<b>DAS110</b> Clinical Education 2 ▲	
<b>DAS105</b> Chairside Assisting I 4 ▲	<b>DAS111</b> Dental Administrative Procedures 2 ▲	

Credits 17

Credits 16

Credits 8

41 Semester Credits

See typing requirements identified on pages 14-15. **See course descriptions for prerequisites and corequisites.**

\* To be eligible to enroll in summer DAS201 and DAS202, the student must satisfy all courses in the preceeding Semester I and Semester II with a minimum of a "C" average in each course; ENG101, and PSY101 must be satisfied or taken concurrently with practicum and seminar courses.

The student must submit current verification of CPR certification training from either: 1. American Heart Association-Basic Life Support for the Health Care Provider or 2. American Red Cross CPR for the Professional Rescuer to the program director prior to the start of Semester II. First aid/CPR courses (HSC102) are offered all semester, including summer sessions.

▲ Student must obtain a letter grade of P (pass), or C or better in all courses with this symbol (see Dental Assisting Handbook) to progress to graduation/certification.

NOTE: All new first-time/full-time students are required to take CSS106.

# EXPANDED FUNCTIONS DENTAL AUXILIARY (EFDA)

## SUGGESTED SEQUENCE OF REQUIRED COURSES

Semester I	Semester II
<b>DAS203</b> Expanded Assisting I ▲ 3	<b>DAS204</b> Expanded Assisting II ▲ 2
	<b>DAS205</b> Directed Clinic Practice ▲ 1

Credits 3

Credits 3

6 Semester Credits

Two semesters of part-time enrollment are required to complete EFDA courses and on-campus clinic practice. Only eligible candidates can enroll in EFDA courses. Requirements for entrance are Certified Dental Assistant (CDA), Registered Dental Hygienist (RDH) or Certified Ohio Dental Assistant (CODA); also two years working experience, Ohio radiographer license and proof of hepatitis vaccination. **See course descriptions for prerequisites and corequisites.**

▲ Student must obtain a letter grade of P (pass), or C or better in all courses with this symbol (see Dental Assisting Handbook) to progress to graduation/certification.

**Students who have failed to pass the EFDA State Board three times are required by the Ohio Commission on Dental Testing to retake the EFDA program. These applicants will be granted re-admission only once back into Jefferson Community College's EFDA program.**

# EMT-PARAMEDIC (CERTIFICATION)

## EMT INTERMEDIATE (CERTIFICATION)

STARTS FALL SEMESTER - EVENING PROGRAM

The Emergency Medical Services Technology Program offers the licensed EMT-A with one year of active squad experience an opportunity to enroll in courses leading to the EMT-Intermediate (EMT-I) or EMT-Paramedic (EMT-P) status. The EMT-I program is a flexibly scheduled course. The EMT-P Program involves two semesters and one summer session. The EMS111 course is designed to allow the Ohio certified EMT-I to complete paramedic training by passing EMS108. Students should see the program director for specifics.

**EMT Program application/admissions criteria are identified on pages 14-15 in this catalog.**

The student admitted to the college and desiring acceptance to the EMT-I and EMT-P programs must satisfy college admission requirements and:

1. Be at least 18 years of age;
2. Be a licensed Ohio EMT-Basic;
3. Be an active EMT-Basic for one year prior to entrance into the program (strongly recommended);
4. Provide official forms to document dates of recent tetanus immunization, TB test or chest X-ray, hepatitis vaccine, and physical examination prior to clinical experience;
5. Report as requested for personal interview with the EMT-P program director;
6. Not be currently charged with, incarcerated for, and/or on parole/probation for a felony charge.

While in supervised clinical training and after employment, the paramedic works under the direction of a physician. Knowing that the paramedic is a direct extension of the hospital-based physician, the EMT-P can serve as the physician's eyes, ears, and hands in the street or in the home -- anywhere that EMS is needed.

Essential attributes of the EMS candidate include demonstration by testing of

academic potential, good physical health, the ability to relate well to people with calm, confident and rational judgment, and a thorough understanding of the operation of the EMS system. The EMT is a needed professional in pre-hospital care.

Given the knowledge, skill, and field experience, the EMT-Paramedic graduate will be able to:

1. Perform routine basic life support skills, including personal safety.
2. Initiate appropriate intravenous procedures as authorized by medical command or protocol.
3. Demonstrate professional conduct and interpersonal communication skills with patients, co-workers, and other health care professionals.
4. Decide priorities of emergency treatment according to scene and assessment findings.
5. Record and communicate data effectively to medical authority.
6. Initiate and continue pre-hospital care under medical control, including the recognition of present conditions, assessment of the patient and initiation of appropriate therapies.
7. Perform lifesaving skills authorized by medical control in trauma and medical emergencies.
8. Evaluate and adjust the treatments according to patient response.
9. Meet the state of Ohio/National Registry requirements of the EMT-Paramedic examination.

**A physical examination and proof of specific immunizations are required at the student's expense prior to clinical practicums.**

Upon successful completion of the program, the graduate receives a certificate of completion and is eligible to apply for the National Registry Examination being offered as the state of Ohio examination.

## NONCREDIT EMERGENCY MEDICAL SERVICES (EMS) TRAINING

**Emergency Medical Technician - Basic First Responder**

**Continuing education/recertification classes for:**

- First Responder
- EMT-Basic
- EMT-Intermediate
- EMT-Paramedic

**American Heart Association -**

- Basic Life Support (BLS) courses
- BLS Instructor Training courses
- Advanced Cardiac Life Support (ACLS) courses
- Pediatric Advanced Life Support (PALS) courses

Specific courses in first aid, auto extrication, vehicle rescue, farm extrication, etc. are available upon request.

All courses can be offered at off-campus locations subject to minimum student participation and Ohio Department of Public Safety regulations. Interested residents may contact the Department of Health Sciences or EMS Program director for further information and/or the development of specialized EMS training needs.

## EMT-PARAMEDIC CERTIFICATION

### SUGGESTED SEQUENCE OF REQUIRED COURSES

Semester I	Semester II	Summer
<b>EMS108</b> Paramedic Theory and Practice I ▲ 10	<b>EMS109</b> Paramedic Theory and Practice II ▲ 10	<b>EMS110</b> Paramedic Theory and Practice III ▲ 5
Credits 10	Credits 10	Credits 5

25 Semester Credits

▲ Student must obtain a letter grade of C or better in all courses with this symbol (see EMT Handbook) to progress to graduation/certification.

NOTE: All new first-time/full-time students are required to take CSS106.

## EMT-INTERMEDIATE CERTIFICATION

### Summer

<b>EMS106</b> EMT Intermediate Course 8
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Credits 8

8 Semester Credits

NOTE: All new first-time/full-time students are required to take CSS106.

# MEDICAL ASSISTING TECHNOLOGY (AAS AND CERTIFICATE)

STARTS FALL SEMESTER - DAY PROGRAM



*“Starting my education at JCC saved my family a lot of money.”*

CARISSA COOK  
Wintersville

The medical assistant performs a variety of administrative duties dependent upon the physician's practice and unique office requirements. The duties may include acting as a secretary, bookkeeper, and receptionist; answering incoming calls; receiving mail; greeting patients; handling correspondence and filing; arranging for laboratory and X-ray procedures or hospital admissions; taking histories; and maintaining patient records, accounts and billing.

The clinical duties of a medical assistant include preparing patients and assisting the physician with examinations or treatment; measuring height and weight; and taking vital signs. The assistant may perform certain laboratory tests, take X-rays or EKGs, or assist with diagnostic and minor surgical procedures and the administration of injections or other medications.

Applicants are encouraged to take basic science, mathematics, and typing courses in high school or prior to entering the program. College courses in typing or OIT102 Keyboarding/Speed Building, BUS111 Business Math, and HSC101 Medical Terminology are **required** prior to Semester I.

**Medical Assisting Program application/admissions criteria are identified on pages 14-15 in this catalog.**

Qualified students are enrolled in the one-year accelerated certificate program. Upon successful completion of the certificate program, the student may complete the required credits for the Associate of Applied Science Degree in Medical Assisting in the day or evening.

Upon completion of the Medical Assisting Program, the graduate will be able to:

1. Perform entry-level clinical procedures.
2. Perform entry-level administrative procedures.
3. Perform entry-level general procedures.
4. Meet requirements to sit for the AAMA basic certification examination.

A student qualifies to sit for the AAMA Basic Certification Examination upon completion of the one-year certificate program. Candidates for the Basic Certification Examination are required to pass the entire examination in one attempt. If successful, a certified medical assistant certificate will be issued, and the initials CMA may be used. If a candidate for the examination is not successful on the first attempt, the entire exam may be repeated. The exam is administered three times a year: January, October, and June.

The minimum length of enrollment as a full-time student to complete the accelerated certificate program is two semesters plus a summer term.

# MEDICAL ASSISTING (CERTIFICATE)

## SUGGESTED SEQUENCE OF REQUIRED COURSES

Semester I	Semester II	Summer
<b>BIO101</b> Basic Anatomy ▲ 3	<b>BIO201</b> Pathophysiology ▲ 3	<b>COM101</b> Public Speaking OR <b>COM105</b> Interpersonal Communications 3
<b>HSC102</b> First Aid/CPR ▲ 1	<b>ENG101</b> English Composition I 3	<b>MAS104</b> Medical Assisting Seminar ▲ 1
<b>HSC103</b> Law and Ethics ▲ 1	<b>HSC104</b> Medical Insurance ▲ 2	<b>MAS105</b> Medical Assisting Practicum ▲ 2
<b>HSC106</b> Business Administration- Health Office ▲ 3	<b>MAS102</b> Medical Assisting Clinical Skills ▲ 4	
<b>MAS101</b> Introduction: Medical Assisting ▲ 4	<b>MAS103</b> Medical Assisting Laboratory Skills ▲ 2	
<b>OIT202</b> Introduction to Word Processing ▲ 2	<b>PSY101</b> General Psychology 3	
Credits 14	Credits 17	Credits 6

44 Semester Credits\*

\*Successful completion of BUS111, HSC101, and OIT102 are required prerequisites for program admission. These courses are included in the total credits.

**See course descriptions for prerequisites and corequisites.**

▲ Student must obtain a letter grade of P (pass), or C or better in all courses with this symbol (see Medical Assisting Handbook) to progress to graduation/certification.

NOTE: All new first-time/full-time students are required to take CSS106.

# MEDICAL ASSISTING (ASSOCIATE)

## SUGGESTED SEQUENCE OF REQUIRED COURSES

Semester I	Semester II	Summer	Semester III	Semester IV
<b>BIO101</b> Basic Anatomy ▲ 3	<b>BIO201</b> Pathophysiology ▲ 3	<b>COM101</b> Public Speaking OR <b>COM105</b> Interpersonal Communications 3	<b>BIO102</b> Human Anatomy/ Physiology ▲ 4	<b>BIO103</b> Nutrition ▲ 3
<b>HSC102</b> First Aid/CPR ▲ 1	<b>ENG101</b> English Composition I 3	<b>MAS104</b> Medical Assisting Seminar ▲ 1	<b>ENG103</b> Business Composition 3	<b>HIM214</b> CPT-4 Procedural Coding ▲ 3
<b>HSC103</b> Law and Ethics ▲ 1	<b>HSC104</b> Medical Insurance ▲ 2	<b>MAS105</b> Medical Assisting Practicum ▲ 2	<b>HIM103</b> Introduction to Coding Systems ▲ 3	
<b>HSC106</b> Business Administration-Health Office ▲ 3	<b>MAS102</b> Medical Assisting Clinical Skills ▲ 4		General Studies Electives* 3	
<b>MAS101</b> Introduction: Medical Assisting ▲ 4	<b>MAS103</b> Medical Assisting Laboratory Skills ▲ 2			
<b>OIT202</b> Introduction to Word Processing ▲ 2	<b>PSY101</b> General Psychology 3			
Credits 14	Credits 17	Credits 6	Credits 13	Credits 6

63 Semester Credits\*\*

\* A list of general studies electives can be found at the beginning of the course descriptions section.

\*\*Successful completion of BUS111, HSC101, and OIT102 are required prior to Semester I. These three courses are included in the total credits.

**See course descriptions for prerequisites and corequisites.**

▲ Student must obtain a letter grade of P (pass), or C or better in all courses with this symbol (see Medical Assisting Handbook) to progress to graduation/certification.

NOTE: All new first-time/full-time students are required to take CSS106.

# MEDICAL OFFICE MANAGEMENT (CERTIFICATE)

## SUGGESTED SEQUENCE OF REQUIRED COURSES

Semester I	Semester II
<b>ACC101</b> Financial Accounting I 4	<b>ACC102</b> Financial Accounting II 4
<b>BUS203</b> Business Law I 3	<b>CIS222</b> Spreadsheet Concepts 3
<b>MGT208</b> Human Resources Management 3	<b>MGT202</b> Organizational Behavior 3
<b>MTH128</b> Statistics 3	<b>MGT210</b> Leadership Development/ Team Building 3
Credits 13	Credits 13

### 26 Semester Credits

The Medical Office Management Certificate Program provides college-level preparation for a career as an office manager in a medical outpatient setting.

**An associate degree in medical assisting must be completed prior to this certificate.**

NOTE: All new first-time/full-time students are required to take CSS106.

Upon completion of the Medical Office Management Certificate, the graduate will be able to:

1. Perform basic supervisory skills.
2. Perform spreadsheet and word applications.
3. Perform accounting functions.

# PHLEBOTOMY TECHNICIAN (CERTIFICATE)

STARTS FALL AND SPRING SEMESTERS - EVENING PROGRAM

The Phlebotomy Technician (PBT) is a person trained to obtain blood specimens by venipuncture and capillary puncture techniques. Phlebotomy involves the correct identification of the patient prior to sample collection and proper labeling of the specimen after collection. The phlebotomist must select the appropriate specimen container(s) for the specified test(s) and collect the appropriate amount of blood by venipuncture (vacuum tube, needle and syringe or butterfly) or dermal puncture for each test.

Receipt, transportation, processing and handling of specimens other than blood (urine, throat cultures, etc.) may also be the responsibility of the phlebotomist since they serve as an extension of the clinical laboratory.

In addition to technical, clerical and interpersonal skills, the phlebotomist must develop strong organizational skills to efficiently handle a heavy workload and maintain accuracy, often under stressful conditions. Performance of computer operations and record keeping are also required.

**PBT Program application/admissions criteria are identified on pages 14-15 in this catalog. Specifically, placement testing in English and reading, as well as completion of HSC101, are prerequisites for program admission.**

Clinical facilities for PLB102 Phlebotomy Practicum/Seminar are based on the number of available openings in cooperating agencies. Some of these facilities are located outside the immediate area, which may necessitate obtaining temporary residence.

Following the completion of the certificate degree requirements, the PBT graduate is eligible to sit for the certification examination offered by the

National Credentialing Agency for Laboratory Personnel or the American Society of Clinical Pathologists.

**Upon completion of the Phlebotomy Technician Program, the graduate will be able to:**

1. Demonstrate professional conduct and interpersonal communication skills with patients, co-workers, and other health care professionals.
2. Follow prescribed safety procedures in all areas of the laboratory and patient contact.
3. Collect, process, log and preserve all specimens for lab testing.
4. Meet requirements to take the national certifying examination for phlebotomy technician.

The PBT program has applied for accreditation by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS), 8410 West Bryn Mowr Ave., Suite 670, Chicago, Ill., (773) 714-8880. Accreditation is pending.

## ESSENTIAL FUNCTIONS

Essential functions include requirements that students be able to engage in during educational and training activities in such a way that will not significantly increase the occupational

hazards affecting the handicapped person, employees, other students, the general public, or the facilities in which the work is to be performed.

### Standard and Functions

1. *Manual Dexterity*  
Ability to use hand(s) or prosthetic devices with coordination.
2. *Fine Motor Skills*  
Ability to manipulate small objects with fingertips or adaptive devices.
3. *Mobility*  
Ability to maneuver in the laboratory and patient-care settings.
4. *Vision*  
Ability to distinguish red, yellow and blue colors.
5. *Speech and Hearing*  
Ability to communicate effectively and accurately in order to elicit information. Must be able to assess non-verbal communication and be able to adequately transmit information to all members of the health care team.
6. *Reading and Writing*  
Ability to communicate effectively in the written form and read, understand and follow directions in English.
7. *Psychological Stability*  
Possess the psychological stability required to be able to respond quickly and efficiently in manner appropriate to the situation.

## TRANSFER OPPORTUNITIES

The certified PBT graduate has the opportunity to obtain an associate degree in Clinical Laboratory Technician at JCC with additional classes.

# PHLEBOTOMY TECHNICIAN

## SUGGESTED SEQUENCE OF REQUIRED COURSES

Semester I	Semester II
<b>PLB101</b> Phlebotomy ▲ 3	<b>PLB102</b> Phlebotomy Practicum/Seminar ▲ 5

Credits 3

Credits 5

8 Semester Credits

**See course descriptions for prerequisites and corequisites.**

▲ Student must obtain a letter grade of P (pass), or C or better in all courses with this symbol (see PBT Handbook) to progress to graduation/certification.

NOTE: All new first-time/full-time students are required to take CSS106.

Theory courses are taught in the evening. All clinical education assignments required in the practicum component of PLB102 are scheduled during daylight hours, Monday through Friday. The student is assigned by the program director to one or more local hospitals/facilities within a 100-mile radius from the college.

## PRACTICAL NURSING (CERTIFICATE)

STARTS SUMMER SESSION AND FALL SEMESTER - DAY PROGRAM

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*"I encourage everybody to get an education, that's very important."*

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MONA MCINTYRE  
Steubenville

The one-year certificate in practical nursing is designed to meet the need in nursing services for a worker who will share in direct patient care. The program graduate is prepared to give safe, competent nursing care within a select range of patient-care situations at the direction of the registered nurse and/or licensed physician.

**Practical Nursing Program application/admissions criteria are identified on pages 14-15 in this catalog.**

The individual who successfully completes all program requirements is awarded a certificate in practical nursing and is eligible to sit for the National Council Licensing Examination for Practical Nurses (NCLEX-PN). Successful passing of this exam merits the graduate the right to apply for state licensure as a licensed practical nurse and use the initials LPN.

Upon completion of the certificate in practical nursing, the graduate will be able to:

1. Use effective communication skills with clients and health team members.
2. Utilize the nursing process when delivering nursing care to meet the client's physical and psychosocial needs while adhering to the ethical principles and legal framework inherent to practical nursing.
3. Demonstrate technical proficiency in the nursing skills necessary to fulfill the role of an entry-level practical nurse.
4. Provide the client with a safe, effective environment.
5. Meet requirements for the NCLEX-PN and NAPNES pharmacology challenge exam.

# PRACTICAL NURSING

## SUGGESTED SEQUENCE OF REQUIRED COURSES

Semester I	Semester II	Semester III
<b>BIO102</b> Human Anatomy/Physiology ▲ 4	<b>PNR102</b> Practical Nursing Fundamentals ▲ 6	<b>PNR106</b> Medical/Surgical Nursing II ▲ 6
<b>BIO103</b> Nutrition ▲ 3	<b>PNR103</b> Gerontological Nursing ▲ 3	<b>PNR107</b> Maternal/Child Health Nursing ▲ 7
<b>ENG101</b> English Composition I ▲ 3	<b>PNR104</b> Medical/Surgical Nursing I ▲ 4	
<b>PNR100</b> Dosage Calculations for Health Care Professionals ▲ 1	<b>PSY205</b> Human Growth and Development ▲ 3	
<b>PSY101</b> General Psychology ▲ 3		
Credits 14	Credits 16	Credits 13

43 Semester Credits

**Students who declare Practical Nursing as their major after April 30, 2007, must complete HSC101 with a grade of "C" or better and have a required ACT composite score of 17 for program admission.**

The student **MUST** submit verification of current American Heart Association Basic Life Support for the Health Care Provider CPR or American Red Cross CPR for Professional Rescuer Certification as well as STNA (State-Tested Nurse Aide) to program director prior to the start of the clinical education assignment (PNR102). JCC recognizes Ohio as well as out of state **current** nurse aide licenses as verification. HSC102 First Aid/CPR courses and HSC108 Nurse Aide TCE Program courses are offered each semester and summer for student enrollment. **See course descriptions for prerequisites and corequisites.**

Following student acceptance/enrollment, the student must complete a criminal records check by the Ohio Bureau of Criminal Identification and Investigation. This must be completed prior to enrollment in PNR107. The bureau will forward this information to the Ohio Board of Nursing.

% Student must obtain a letter grade of P (pass), or C or better in all courses with this symbol (see Practical Nursing Handbook) to progress to graduation/certification.

NOTE: All new first-time/full-time students are required to take CSS106.

# RADIOLOGIC TECHNOLOGY (AAS)

STARTS FALL SEMESTER - DAY PROGRAM

The mission of the college is to provide a center of learning that enriches lives, connects with students, promotes diversity, builds communities, and educates for tomorrow through career, transfer, workforce, and community education. The mission of the Radiologic Technology Program is to provide quality education in the radiographic sciences by proficient instruction, effective testing and utilization of a competency-based clinical education plan.

A radiologic technologist or medical radiographer assists a radiologist (M.D.) in the detection, diagnosis, and treatment of disease and injury through the use of X-rays in hospitals, clinics, and other health agencies. Knowledge of human anatomy is essential to correctly position a patient in order to obtain accurate radiographs. An understanding of radiation exposure (proper voltage, current, exposure time, and equipment) is necessary to obtain quality results and ensure the safety of both patient and technologist. **Continuous standing, equipment manipulation, lifting of non-ambulatory patients, and effective communication skills are required to work proficiently, often in an emergency situation.**

Required high school courses include algebra and two sciences. Physics is strongly recommended. Other recommended courses include Algebra II, geometry, trigonometry, anatomy and physiology, computer science, biology, and chemistry.

**Radiologic Technology Program application/admissions criteria are identified on pages 14-15 in this catalog.**

**fied on pages 14-15 in this catalog.**

Facilities for clinical education include the Trinity Medical Center West, Weirton Medical Center and East Ohio Regional Hospital. Each student is assigned to a hospital in the first fall semester of the program; clinical education begins in the sixth week. During the next three semesters and two summer sessions, the student will spend two to five clinical days (7 a.m. to 3:30 p.m.) per week in the assigned hospital. The second-year student occasionally is assigned afternoon or evening clinical rotations. A copy of the Joint Review Committee on Education in Radiologic Technology's "Standards" for an accredited educational program in radiologic sciences is available at the college through the office of the program director.

The graduate is eligible to take the registration examination sponsored by the American Registry of Radiologic Technologists (ARRT) upon completion of the associate degree requirements. The successful completion of the ARRT examination allows the graduate to use the initials R.T. (R) (American Registered Technologist in Radiography) after his/her name.

Upon completion of the Radiologic Technology Program, the graduate will be able to:

1. Perform tasks and apply skills to function as an entry-level radiographer.
2. Demonstrate abilities in communication, critical thinking, and problem-solving necessary for professional practice.
3. Develop and apply professional attitudes, behaviors, and ethics.

## RADIOLOGIC TECHNOLOGY PROGRAM CLINICAL EDUCATION SCHEDULE

### First Year\*

Semester I -- Fall

8 hours per week for 9 weeks =  
72 hours

Semester II -- Spring

16 hours per week for 15 weeks =  
240 hours

Summer Session I

16 hours per week for 5 weeks =  
80 hours

Summer Session II

40 hours per week for 5 weeks =  
200 hours

### Second Year\*

Semester III -- Fall

24 hours per week for 15 weeks =  
360 hours

Semester IV -- Spring

24 hours per week for 15 weeks =  
360 hours

Summer Session I

24 hours per week for 5 weeks =  
120 hours

Due to the risk of radiation to an unborn fetus, especially during the first trimester, any student who becomes pregnant during the program should inform the program director immediately. If the student voluntarily states that she is pregnant then she will be advised about any revisions in her clinical schedule needed to ensure protection for both mother and child, as well as attainment of academic/program clinical competencies. The student's time in the program may need lengthened to ensure that all competencies and requirements are achieved prior to graduation. The student will be provided with an additional film badge, at her own expense, to be worn waist level which will monitor any radiation exposure during the pregnancy.

# RADIOLOGIC TECHNOLOGY

## SUGGESTED SEQUENCE OF REQUIRED COURSES

Semester I	Semester II	Summer	Semester III	Semester IV	Summer I
<b>BIO102</b> Human Anatomy/Physiology ▲ 4	<b>CIS100 Series</b> Student selection with advisor approval 3	<b>ENG101</b> English Composition I 3	<b>ENG104</b> Technical/Professional Writing 3	<b>COM101</b> Public Speaking 3	<b>RAD206</b> Clinical Education VI ▲ 1
<b>HSC102</b> First Aid/CPR ▲ 1	<b>RAD105</b> Radiography I ▲ 4	<b>PSY101</b> General Psychology 3	<b>RAD201</b> Radiography II ▲ 4	<b>HSC101</b> Medical Terminology ▲ 2	
<b>RAD101</b> Introduction: Radiography ▲ 1	<b>RAD106</b> Radiographic Procedures II ▲ 5	<b>RAD108</b> Clinical Education III ▲ 2	<b>RAD202</b> Radiologic Physics ▲ 3	<b>PLB101</b> Phlebotomy ▲ 2	
<b>RAD102</b> Radiographic Procedures I ▲ 4	<b>RAD107</b> Clinical Education II ▲ 2		<b>RAD203</b> Clinical Education IV ▲ 4	<b>RAD204</b> Radiography III ▲ 3	
<b>RAD103</b> Clinical Education I ▲ 1				<b>RAD205</b> Clinical Education V ▲ 4	
<b>RAD104</b> Methods of Patient Care ▲ 2					
Credits 13	Credits 14	Credits 8	Credits 14	Credits 14	Credits 1
64 Semester Credits					

See course descriptions for prerequisites and corequisites.

▲ Student must obtain a letter grade of P (pass), or C or better in all courses with this symbol (see Radiology Technology Handbook) to progress to graduation/certification.

NOTE: All new first-time/full-time students are required to take CSS106.

## RESPIRATORY THERAPY (AAS)

STARTS FALL SEMESTER - DAY PROGRAM



*"JCC prepared me for Ohio State. JCC gave me a head start."*

SHANA YAROSZ  
Toronto

The Respiratory Therapy Program is designed to prepare graduates to participate in patient assessment, perform diagnostic testing, administer therapeutic treatments, maintain patient ventilation through mechanical support, and participate in the rehabilitation of patients with pulmonary disease. Students and graduates will participate in the treatment and care of patients of every age in a variety of locations. This profession requires an ability to interact and communicate effectively with patients and other health professionals. The respiratory therapist must be able to establish and maintain a rapport with patients, demonstrate an ability to work with mechanical systems, and work with others as part of the health care team.

Preferred high school course work includes algebra, chemistry, and one additional science. Other recommended course work includes Algebra II, biology, geometry, anatomy and physiology.

**Respiratory Therapy Program application/admissions criteria are identified on pages 14-15 in this catalog.**

Upon successful completion of this program, the graduate will be eligible to sit for both the entry-level certification, written and clinical simulation registry examinations of the National Board for Respiratory Care (NBRC). Successful completion of the entry-level and advance practitioner examinations will entitle the graduate to use the Certified Respiratory Therapist (CRT) and Registered Respiratory Therapist (RRT) credentials, respectively. In addition to credentials, a license to practice is

required by most states, including Ohio.

Upon completion of the Respiratory Therapy Program, the graduate will be able to:

1. Demonstrate the ability to comprehend, apply, and evaluate clinical information relevant to the role as registered respiratory therapy practitioner.
2. Demonstrate technical proficiency in all skills necessary to fulfill the role as a registered respiratory therapy practitioner.
3. Demonstrate personal behaviors consistent with professional and employer expectations for the registered respiratory therapy practitioner.

# RESPIRATORY THERAPY

## SUGGESTED SEQUENCE OF REQUIRED COURSES

Semester I	Semester II	Summer	Semester III	Semester IV
<b>BIO102</b> Human Anatomy/ Physiology  ▲ 4	<b>CHM102</b> General Chemistry I  4	<b>CIS100 Series</b> Student selection with advisor approval  3	<b>COM101</b> Public Speaking  3	<b>RES204</b> Critical Care II  ▲ 4
<b>BIO105</b> Cardiopulmonary/ Renal Anatomy/ Physiology  ▲ 5	<b>ENG101</b> English Composition I  3	<b>ENG104</b> Technical/ Professional Writing  3	<b>RES201</b> Critical Care I  ▲ 4	<b>RES205</b> Respiratory Seminar  ▲ 1
<b>HSC102</b> First Aid/CPR  1	<b>HSC101</b> Medical Terminology  ▲ 2	<b>PSY101</b> General Psychology  3	<b>RES202</b> Cardiopulmonary Pathology  ▲ 2	<b>RES206</b> Clinical Application IV  ▲ 6
<b>RES101</b> Introduction: Respiratory Therapy  ▲ 4	<b>RES102</b> Basic Respiratory Therapeutics  ▲ 4	<b>RES105</b> Cardiopulmonary Diagnostics/ Rehabilitation  ▲ 2	<b>RES203</b> Clinical Application III  ▲ 4	
General Studies Elective  3	<b>RES103</b> Cardiopulmonary Pharmacology  ▲ 2	<b>RES106</b> Clinical Application II  ▲ 1		
	<b>RES104</b> Clinical Application I  ▲ 2			
Credits 17	Credits 17	Credits 12	Credits 13	Credits 11

70 Semester Credits

See course descriptions for prerequisites and corequisites.

▲ Student must obtain a letter grade of P (pass), or C or better in all courses with this symbol (see Respiratory Therapy Handbook) to progress to graduation/certification.

NOTE: All new first-time/full-time students are required to take CSS106.

# HISTOTECHNICIAN (AAS)

## DAY PROGRAM

Histology is the science concerned with cellular morphology, chemical composition, and function of normal and abnormal body tissues. Since many dyes and chemicals are used to demonstrate these tissues microscopically, proper knowledge of their composition and reactions, along with an understanding of biology, anatomy, and chemistry is necessary for the laboratory professional, the histotechnician, working in the departments of histology and anatomic pathology.

The histotechnician prepares sections of human or animal body tissues obtained during biopsy, surgery, or autopsy for microscopic examination by a pathologist, to aid in the diagnosis of illness or disease state. Embedding and slicing the tissue, mounting it on a slide, and staining it with special dyes that will differentiate normal and abnormal cells and tissues, achieve this. Although hospital laboratories employ most histotechnicians, many employment opportunities are also available in veterinary labs, pharmaceutical companies, and medical research labs.

The applicant interested in the Histotechnician program is encouraged to take chemistry, science, and advanced math courses in high school.

**Histotechnician program application and admission criteria are listed on pages 14-15 of this catalog.**

Facilities for practicum experience during the second year are based on availability of openings in cooperating agencies and may require students to travel to Pittsburgh, Wheeling, and the surrounding area on a daily basis.

The histotechnician graduate will enter the workforce able to perform a variety of Histology procedures and be eligible to sit for the certification examination offered by the American Society for Clinical Pathology (ASCP). The successful candidate merits the right to use the title HT (ASCP).

Upon completion of the Histotechnician Program, the graduate will be able to:

1. Demonstrate skills in current histology practices as an entry level professional
2. Follow prescribed safety procedures in all areas of the laboratory
3. Perform, monitor, record, and evaluate quality control and the integrity of processed tissues within predetermined parameters to prescribe trouble-shooting and corrective strategies.
4. Receive, log, and process all specimens delivered to the anatomic pathology and/or histology departments
5. Demonstrate the ability to think critically and communicate effectively.
6. Meet the requirements to take the national certifying examination for histotechnicians.

## ESSENTIAL FUNCTIONS

Essential functions include requirements that students be able to engage in during educational and training activities in such a way that will not significantly increase the occupational hazards affecting either the handicapped person, employees, other students, the general public, or the facilities in which the work is to be performed.

### Standards and Functions

#### 1. Vision

The student must be able to read charts and graphs, read instruments, scales, discriminate colors, read microscopic materials, and record results.

#### 2. Speech Hearing

The student must be able to communicate effectively and accurately in order to elicit information. Must be able to assess non-verbal communication, and be able to adequately transmit information to all members of the health care team.

#### 3. Fine Motor Functions

The student must perform all fine motor functions necessary to safely and accurately perform diagnostic procedures, and to manipulate tools, instruments, and equipment.

#### 4. Psychological Stability

The student must possess the psychological stability required to be able to respond quickly and efficiently in a manner appropriate to the situation.

Approval Pending

# HISTOTECHNICIAN

## SUGGESTED SEQUENCE OF REQUIRED COURSES

Semester I	Semester I	Summer	Semester III	Semester IV
<b>BIO114</b> Principles of Biology ▲ 4	<b>BIO102</b> Human Anatomy and Physiology ▲ 4	<b>CIS100</b> Computer Information Series 3	<b>HST101</b> Histotechnican Practicum I ▲ 13	<b>HST103</b> Histotechnican Practicum II ▲ 13
<b>CHM102</b> General Chemistry I ▲ 4	<b>CHM103</b> General Chemistry II ▲ 4	<b>COM101</b> Public Speaking OR General Studies Elective 3	<b>HST102</b> Histotechnican Seminar I ▲ 1	<b>HST104</b> Histotechnican Seminar II ▲ 1
<b>CLT101</b> Introduction to Clinical Laboratory Science ▲ 3	<b>ENG102</b> English Composition II OR Humanities Elective 3	<b>PSY101</b> General Psychology OR Social Science Elective 3		
<b>ENG101</b> English Composition I 3	<b>MTH120</b> College Algebra OR <b>MTH128</b> Statistics ▲ 3-4			
<b>HSC101</b> Medical Terminology ▲ 2				
Credits 16	Credits 14-15	Credits 9	Credits 14	Credits 14

67-68 Semester Credits

▲ Student must obtain a letter grade of C or better to progress to graduation/certification.

Note: All new first-time/full-time students are required to take CSS106.

Approval Pending

# CLINICAL LABORATORY TECHNICIAN (AAS)

## STARTS FALL SEMESTER-DAY PROGRAM

The clinical laboratory technician (CLT) aids the physician in the diagnosis and treatment of disease by performing a wide variety of complex diagnostic tests in a laboratory setting under the supervision of the clinical laboratory scientist, pathologist, or physician.

The applicant interested in the CLT Program is encouraged to take chemistry, sciences, and advanced mathematics courses in high school.

**CLT Program application/admissions criteria are identified on pages 14-15 in this catalog.**

Facilities for a practicum at the end of the second year are based on the number of available openings in cooperating agencies. Some of these facilities are located outside the immediate area, which may necessitate obtaining temporary residence.

The CLT graduate performs routine laboratory procedures in the area of microbiology, blood banking, chemistry, immunology/serology, hematology, and urinalysis in hospitals, clinics, and independent laboratories. Following completion of the associate degree requirements, the CLT graduate is eligible to sit for the certification examination offered by the National Certification Agency for Medical Laboratory Personnel or the American Society of Clinical Pathologists. The successful candidate merits the right to use the title of CLT(NCA) or MLT(ASCP).

Upon completion of the Clinical Laboratory Technician Program, the graduate will be able to:

1. Demonstrate professional conduct and interpersonal communication skills with patients, co-workers, and other health care professionals.
2. Follow prescribed safety procedures in all areas of the laboratory and patient contact.

3. Perform, monitor, record, and evaluate quality control and patient results within predetermined parameters to prescribe trouble-shooting and corrective strategies.
4. Perform, validate, interpret, and record routine analytical procedures on blood and other biological specimens using automated equipment and/or manual methods, basic scientific principles and relating results to disease processes.
5. Collect, process, log, and preserve all specimens for lab testing.
6. Meet requirements to take the national certifying examination for medical laboratory technician.

The CLT program is accredited by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS), 8410 West Bryn Mowr Ave., Suite 670, Chicago, Ill., (773) 714-8880.

**Two educational CLT tracks are available to the student: CLT Traditional and CLT Accelerated, refer to the curriculum grids for specifics.**

## ESSENTIAL FUNCTIONS

Essential functions include requirements that students be able to engage in during educational and training activities in such a way that will not significantly increase the occupational hazards affecting either the handicapped person, employees, other students, the general public, or the facilities in which the work is to be performed.

### Standards and Functions

1. *Vision*

The student must be able to read charts and graphs, read instruments, scales, discriminate colors, read microscopic materials, and record results.

### 2. *Speech Hearing*

The student must be able to communicate effectively and accurately in order to elicit information. Must be able to assess non-verbal communication, and be able to adequately transmit information to all members of the health care team.

### 3. *Fine Motor Functions*

The student must perform all fine motor functions necessary to safely and accurately perform diagnostic procedures, and to manipulate tools, instruments, and equipment.

### 4. *Psychological Stability*

The student must possess the psychological stability required to be able to respond quickly and efficiently in a manner appropriate to the situation.

## TRANSFER OPPORTUNITY

Jefferson Community College has an agreement with West Liberty State College for certified CLT graduates to continue their studies to obtain a bachelor's degree in clinical laboratory science or biotechnology. Also, the University of Cincinnati, University of Auburn, and Youngstown State University offer online bachelor degrees for certified CLT graduates. The program director has transfer details.

# CLINICAL LABORATORY TECHNICIAN (TRADITIONAL)

## SUGGESTED SEQUENCE OF REQUIRED COURSES

Semester I	Semester II	Summer I	Semester IV	Semester V	Summer II
<b>BIO114</b> Principles of Biology I ▲ 4	<b>BIO102</b> Human Anatomy/ Physiology ▲ 4	<b>CHM201</b> Organic Chemistry ▲ 4	<b>CLT201</b> Immunohematology ▲ 4	<b>CLT205</b> Clinical Microbiology II ▲ 4	<b>CLT207</b> CLT Practicum/Seminar ▲ 3
<b>CHM102</b> General Chemistry I ▲ 4	<b>CLT102</b> Immunology/ Serology ▲ 4	<b>ENG102</b> English Composition II OR Humanities Elective 3	<b>CLT202</b> Analysis of Body Fluids ▲ 2	<b>CLT206</b> Directed Clinical Practice ▲ 1	
<b>CLT101</b> Introduction: Clinical Laboratory Science ▲ 3	<b>CLT103</b> Hematology/ Coagulation ▲ 5		<b>CLT203</b> Clinical Chemistry ▲ 5	<b>CLT208</b> CLT Seminar I ▲ 2	
<b>ENG101</b> English Composition I 3	<b>CHM103</b> General Chemistry II ▲ 4		<b>CLT 204</b> Clinical Microbiology I ▲ 4	<b>COM101</b> Public Speaking OR General Studies Elective 3	
<b>PLB101</b> Phlebotomy ▲ 2				<b>PSY101</b> General Psychology OR Social Science Elective 3	
Credits 16	Credits 17	Credits 7	Credits 15	Credits 13	Credits 3
71 Semester Credits					

See course descriptions for prerequisites and corequisites.

▲ Student must obtain a letter grade of P (pass), or C or better in all courses with this symbol (see CLT Handbook) to progress to graduation/certification.

NOTE: All new first-time/full-time students are required to take CSS106.

# CLINICAL LABORATORY TECHNICIAN (ACCELERATED)

## SUGGESTED SEQUENCE OF REQUIRED COURSES

Fall Semester I	Spring Semester II	Summer
<b>CLT201</b> Immuno-hematology ▲ 4	<b>CLT102</b> Immunology/Serology ▲ 4	<b>CLT207</b> CLT Practicum/Seminar ▲ 3
<b>CLT202</b> Analysis of Body Fluids ▲ 2	<b>CLT103</b> Hematology/Coagulation ▲ 5	
<b>CLT203</b> Clinical Chemistry ▲ 5	<b>CLT025</b> Clinical Microbiology II ▲ 4	
<b>CLT204</b> Clinical Microbiology I ▲ 4	<b>CLT208</b> CLT Seminar I ▲ 2	
<b>PLB101</b> Phlebotomy ▲ 3		
Credits 18	Credits 15	Credits 3

36 Semester Credits\*

▲ Student must obtain a letter grade of P (pass), or C or better in all courses with this symbol (see Medical Assisting Handbook) to progress to graduation/certification.

NOTE: All new first-time/full-time students are required to take CSS106.

For the CLT Accelerated Program admission, a copy of the student's college transcript must be reviewed by the CLT Program director and/or department dean.

The CLT Accelerated Program is available for anyone who earned a bachelor's degree from an accredited college or university. The bachelor degree graduate must have successfully completed a minimum of 16 credit hours in college-level science courses with laboratory components (i.e. anatomy/physiology, chemistry, microbiology, general biology, etc.). The student must also have earned a minimum grade of "C" in all of the science courses. Upon meeting the stated requirements for accelerated CLT program admission, the student is exempt from JCC college placement testing. The student accepted into the CLT Accelerated Program will complete all CLT courses identified on the curriculum grid within two semesters. Completion of these courses will permit the student to schedule the CLT207 course (10-week clinical rotation). Upon successful completion, the student will be awarded an Associate of Applied Science Degree in Clinical Laboratory Technician.

# GENERAL STUDIES ELECTIVES

This list of general studies electives is offered by JCC on a recurring basis. All electives may not be offered every semester, and it is extremely important that the student works with an advisor or the director of transfer to establish a sequence of courses which will: 1) allow the student to complete course work at Jefferson Community College in a timely manner; and 2) ensure with some degree of confidence that the program completed will allow the student to transfer to his/her selected four-year institution with junior status. In some instances this may not be possible, but with prior planning and pre-developed agreements between the student and the gaining institution, many problems will be avoided.

## Humanities

ART101 Survey of Art History  
 ART102 Beginning Drawing  
 ART103/113/114 Beginning Painting  
 ART104 Art History I  
 ART105 Art History II  
 ART107 Photography  
 ART108 Design Foundations  
 ART111 Modern Art  
 ART121 Special Topics in Art  
 ASL101 Beginning American Sign Language I  
 ASL102 Beginning American Sign Language II  
 ASL200 Deaf Culture  
 ASL201 Intermediate American Sign Language I  
 ASL202 Intermediate American Sign Language II  
 ASL204 Advanced American Sign Language  
 COM101 Public Speaking  
 COM105 Interpersonal Communications  
 COM110 Conference and Group Discussion  
 COM115 Oral Interpretation  
 COM210 Advanced Presentational Skills  
 COM150 Survey of Mass Media  
 EDU210 Children's Literature  
 ENG101 English Composition I  
 ENG102 English Composition II  
 ENG103 Business Communications  
 ENG104 Technical & Professional Writing  
 ENG121 Writing for Publication  
 ENG151 Creative Writing  
 ENG152 Creative Writing and Publications  
 ENG155 Journalism  
 ENG201 Introduction to Literature  
 ENG202 Survey of World Literature  
 ENG203 Special Topics in Literature  
 ENG205 Women in Literature  
 ENG207 Film & Literature  
 ENG208 Short Stories  
 ENG212 Environmental Literature  
 ENG213 World Mythology  
 ENG215 Social Issues in Literature  
 ENG220 Modern Poetry  
 ENG222 Science Fiction Literature  
 ENG223 Shakespearean Plays  
 ENG230 Advanced Composition and Rhetoric  
 ENG251 American Literature  
 ENG252 Survey of British Literature I  
 ENG253 Survey of British Literature II  
 ENG260H Nature in American Literature for Honor Students

ENG265H Non-Western Literature for Honor Students  
 FRN101 Elementary French I  
 FRN102 Elementary French II  
 GRM101 Elementary German I  
 GRM102 Elementary German II  
 HIS101 World Civilization I  
 HIS102 World Civilization II  
 HIS109 History of Soviet Russia  
 HIS110 History of Modern Europe  
 HIS112 Great Women in History  
 HIS115 Great Men in History  
 HIS118 Renaissance & Reformation  
 HUM121A Cultural Heritages I  
 HUM121B Cultural Heritages II  
 HUM121C Cultural Heritages III  
 HUM240 Special Topics in Humanities  
 JRN101 Basic Journalism  
 JRN201 Journalism and the Media  
 MGT210 Leadership and TeamBuilding  
 MUS101 Music Appreciation  
 MUS102 Music Fundamentals  
 MUS121 Special Topics in Music  
 PHI101 Introduction to Philosophy  
 PHI201 History of Philosophy: Ancient through Modern  
 PHI240 Special Topics in Philosophy  
 SPA101 Elementary Spanish I  
 SPA102 Elementary Spanish II  
 SPA201 Intermediate Spanish I  
 SPA202 Intermediate Spanish II  
 THE101 Introduction to Theatre  
 THE150 Introduction to Acting  
 THE201 History of Theater  
 THE240 Special Topics in Theater

## Mathematics

MTH102 Survey of Mathematics\*  
 MTH120 College Algebra  
 MTH121 College Trigonometry  
 MTH128 Statistics  
 MTH220 Calculus/Analytic Geometry I  
 MTH221 Calculus/Analytic Geometry II  
 MTH222 Calculus/Analytic Geometry III  
 MTH230 Differential Equations

## Science

BIO102 Human Anatomy & Physiology  
 BIO103 Nutrition  
 BIO106 Introduction to Biological Sciences\*  
 BIO114 Principles of Biology I  
 BIO115 Principles of Biology II  
 BIO200 Principles of Pharmacology  
 BIO203 Principles of Microbiology  
 BIO204 Ecology  
 BIO205 Genetics  
 CHM102 General Chemistry I  
 CHM103 General Chemistry II  
 CHM201 Organic Chemistry  
 CPS101 Introduction to Computer Science  
 CPS120 "C" Language  
 CPS140 Visual Development Applications (JAVA)  
 CPS210 Introduction to LINUX  
 CPS215 Computer Operating Systems and Applications  
 CPS220 Object-Oriented Programming (C++)  
 ELE106 Computer Networking I  
 GEL111 Earth Science\*

GEL112 Geology of National Parks\*  
 GSC101 Introduction to Physical Science\*  
 GSC102 Science and Environment\*  
 GSC110 Energy and Society\*  
 NET110 Installing, Configuring, and Administering Microsoft Windows XP Professional  
 NET111 Managing and Maintaining a Microsoft Windows Server 2003 Environment  
 NET112 Implementing, Managing, and Maintaining a Microsoft Windows Server 2003 Network Infrastructure  
 NET113 Planning and Maintaining a Microsoft Windows Server 2003 Network Infrastructure  
 NET210 Planning, Implementing, and Maintaining a Microsoft Windows Server 2003 Active Directory Infrastructure  
 NET211 Designing a Microsoft Windows Server 2003 Active Directory and Network Infrastructure  
 NET212 Implementing and Administering Security in a Microsoft Windows Server 2003 Network  
 PHY106 College Physics I  
 PHY107 College Physics II  
 PHY126 Science/Engineering Physics I  
 PHY127 Science/Engineering Physics II

## Social Sciences

ANT101 Anthropology  
 ECO101 Macroeconomics  
 ECO102 Microeconomics  
 ECO105 Personal Finance  
 ECO201 Money & Banking  
 EDU200 Foundations of Education  
 GEO101 World Geography  
 HIS104 U.S. History-Formative Period  
 HIS105 U.S. History-Modern Period  
 HIS107 History of Labor in America  
 MGT202 Organizational Behavior  
 PSC101 American Government  
 PSC102 World Government  
 PSY101 General Psychology  
 PSY102 Psychology of Human Relations  
 PSY201 Child Development  
 PSY203 Social Psychology  
 PSY205 Human Growth & Development  
 PSY206 Adolescent Development  
 PSY207 Adult Development  
 PSY211 Abnormal Psychology  
 PSY218 Personality Theories  
 PSY219 Characteristics of Exceptional Children  
 PSY220 Educational Psychology  
 PSY225 Psychosocial Aspects of Deafness  
 PSY265H Existential-Phenomenological Psychology for Honor Students  
 SOC101 Introduction to Sociology  
 SOC110 Sociology of Marriage and Family  
 SOC202 Society & Institutions  
 SOC205 Social Problems  
 SOC240 Special Topics in Sociology

\*Not open for credit toward graduation in science, health, or engineering areas, but does count as science requirement toward the Associate of Arts Degree.

## COURSE DESCRIPTION GUIDE

Courses arranged alphabetically by course code category

All courses carry a materials, participation or lab fee, see course schedule for amounts

Not all courses are offered every year

### Code Index

ACC Accounting	GER Geriatrics
ANT Anthropology	GRM German
ART Art	GSC General Science
ASL American Sign Language	HIM Health Information
BIO Biology	HIS History
BUS Business	HSC Health Sciences
CHM Chemistry	HST Histotechnician
CIS Computer Information	HUM Humanities
CIV Civil Engineering Technology	IDP Interpreting for the Deaf
CJT Criminal Justice Technology	IDM Interactive Digital Media
CLT Clinical Laboratory Technology	JRN Journalism
COM Communications	MAS Medical Assisting Technology
COR Corrections	MCH Mechanical Engineering Technology
CPS Computer Sciences	MGT Management
CRS College Reading	MTH Mathematics
CSS College Success Series	MUS Music
DAS Dental Assisting Technology	NET Networking
DBS Basic Skills	PED Physical Education
DES Design Engineering Technology	OIT Office Information
DMD Digital Media Design	PHI Philosophy
ECE Prekindergarten Care and Education	PHY Physics
ECM Electronic Commerce	PLB Phlebotomy
ECO Economics	POA Peace Officers Academy (Police Academy)
EDU Education	PNR Practical Nursing
EGT Engineering Technologies	PSC Political Science
ELE Electrical/Electronics Engineering	PSY Psychology
EMS Emergency Medical Services	RAD Radiologic Technology
ENG English/Literature	REA Real Estate
FIN Finances	RES Respiratory Therapy Technology
FOR Forensics	RET Retailing
FRN French	SOC Sociology
GEL Geology	SPA Spanish
GEO Geography	THE Theatre
	WLD Welding

# ACCOUNTING

## ACC100 Office Accounting

**3 Credits**

This introductory accounting course covers the transactional recording of cash receipts and cash payments, banking procedures, the handling of the general ledger and the preparation of financial statements. Also included are payroll procedures and a practice set for attorneys or physicians.

Theory 3 hours

Fall Only

## ACC101 Financial Accounting I

**4 Credits**

This course includes the introduction of the basic accounting equation, the development of the accounting cycle, and the recording of routine business transactions, involving cash receipts and disbursements, sales, purchases, and expenses. Coverage also includes the period-end adjusting and closing process, the preparation of the four financial statements, internal control and bank reconciliations.

Theory 4 hours

## ACC102 Financial Accounting II

**4 Credits**

A continuation of ACC101, this course includes coverage of current receivables and payables, inventories, payroll, operating assets, long-term debt, an introduction to partnerships, and horizontal, vertical, and trend analysis. Topics also include a study of corporations with the focus on stock and retained earnings transactions.

Theory 4 hours

Prerequisite: ACC101

## ACC105 Payroll Accounting

**3 Credits**

This course includes coverage of federal and state payroll laws, computation of wages and salaries, mandatory and optional payroll deductions, record-keeping regulations, reporting requirements and the accounting procedures for payroll. Course culminates with the completion of a payroll project.

Theory 3 hours

Spring Only

Prerequisite: ACC100 or ACC101

## ACC204 Introduction to Income Tax

**3 Credits**

Income taxes as they pertain to individuals and small business will be stressed. Topics include income inclusions and exclusions, adjustments, deductions, credits and capital transactions. Emphasis will be placed on return preparation.

Theory 3 hours

Spring Only

## ACC211 Intermediate Accounting I

**4 Credits**

This course is a study of accounting theory, the underlying concepts of financial accounting and the four financial statements. Also included is a study of the time value of money and a revenue/receivables/cash cycle. Use of spreadsheet software will be integrated into the study of these topics.

Theory 4 hours

Fall Only

Prerequisite: ACC102

## ACC212 Intermediate Accounting II

**4 Credits**

A continuation of ACC211, this course will cover revenue recognition topics such as percentage of completion accounting, long-term service contracts and the installment sales methods. Inventory, debt financing, equity financing, accounting for leases, and acquisition and retirement of non-current operating assets also will be covered.

Theory 4 hours

Spring Only

Prerequisite: ACC211

## ACC215 Accounting Applications on Computers

**3 Credits**

This course will begin by exploring the "windows" graphical user interface and spreadsheet applications of accounting used with that interface. Students also will learn to use a commercial quality integrated accounting package that includes general ledger, accounts receivable, accounts payable, inventory and other accounting applications.

Theory 2 hours - Lab 2 hours

Fall Only

Prerequisite: ACC102

## ACC220 Managerial/Cost Accounting I

**4 Credits**

This course will introduce concepts dealing with the accumulation of costs under the job order and process cost systems, cost-volume-profit analysis, variable and absorption costs, budgeting, and standard costs.

Theory 4 hours

Fall Only

Prerequisite: ACC102

## ACC221 Managerial/Cost Accounting II

**4 Credits**

A continuation of ACC220, this course will introduce concepts such as decentralized operations, differential analysis, product pricing, capital investment analysis, activity-based costing, just-in-time production principles, and financial statement analysis.

Theory 4 hours

Spring Only

Prerequisite: ACC220

## ACC241 Current Topics in Accounting

**1-4 Credits**

Designed for those entering the accounting profession or accounting professionals, this variable semester hour course may examine one or more of the following topics: analysis of corporate annual reports, professional ethics, legal responsibility, auditing standards and practices, accounting information systems, current popular accounting software packages, or other topics of current interest to the accounting profession.

Theory 1-4 hours

Theory and/or lab hours assigned based on topics offered

Prerequisite: ACC211, ACC215, CIS222 or consent of dean

## ACC260 Accounting Capstone

**1 Credit**

This course is a culminating experience in case problem format for the student majoring in accounting. To successfully complete the course, the student will need to exhibit multiple accounting and cross-disciplinary skills. Activities will include recording typical business transactions, year-end adjustments, analysis and interpretation of computer generated financial statements, payroll maintenance, income tax and payroll tax return preparation, budgeting and report writing. The accounting system used requires the use of the program's computerized accounting software along with spreadsheet and word processing software.

Capstone 1 hour

Spring Only

Prerequisites: Student must have completed ACC215 and ACC220. In addition, if not completed, students must be enrolled in ACC105, ACC204, and CIS222.

## AMERICAN SIGN LANGUAGE

### ASL101 Beginning American Sign Language I 3 Credits

This course introduces the student to American Sign Language (ASL) and to the Deaf culture in America. Focus is on building sign vocabulary, fingerspelling, grammar and syntax rules, facial expressions, use of personal space, mime and the development of sensitivity and awareness of the Deaf community in America. The student is expected to acquire basic signing skills and sign vocabulary. This course is not designed to train the student to function as an interpreter for the Deaf. Course may require participation in outside classroom activities/events that relate to the course outcomes.

Theory 3 hours

### ASL102 Beginning American Sign Language II 3 Credits

As a continuation of ASL101, this course focuses on building sign vocabulary, fingerspelling, grammar and syntax rules, facial expressions, use of personal space, mime and the development of sensitivity and awareness of the Deaf community in America. The student is expected to acquire basic signing skills and sign vocabulary. This course is not designed to function as an interpreter for the Deaf. Course may require participation in outside classroom activities/events that relate to the course outcomes.

Theory 3 hours

Prerequisite: ASL101 or proficiency

### ASL200 American Deaf Culture 3 Credits

This course is designed to introduce students to aspects of Deaf culture and community. The distinction between these two groups will be reviewed and characteristics of both will be identified. Students will learn about the language, norms of behavior, values, and traditions of Deaf people. Students will learn about the changing social, linguistic, and educational conditions and attitudes influencing Deaf people throughout the past hundred years, and the achievements and accomplishments made by Deaf individuals in various professional fields. Hard of hearing and late deafened individuals will be discussed. Students will learn how technology has impacted the lives of Deaf people. Also, students will learn the importance of the National Organizations of the Deaf, of the achievements of Deaf minorities including women and ethnic/racial individuals, and of Deaf advocacy groups protecting the rights of Deaf people. Course may require participation in outside classroom activities/events that relate to the course outcomes.

Theory 3 hours

### ASL201 Intermediate ASL I 4 Credits

This course provides the students with additional opportunities to expand their ability to produce and comprehend the language as used in everyday conversational settings. More attention is given to the student's production of the language than in ASL 101 and 102, while receptive/comprehension skills continue to be emphasized. This course continues to develop production (speaking) and comprehension (listening) skills at an informal conversational level. Instruction will occur primarily in ASL. Upon completion of the course, students will be able to have more complex conversations about themselves and others and their activities. Course may require participation in outside classroom activities/events that relate to the course outcomes.

Theory 3 hours - Lab 2 hours

Prerequisite: ASL102 or proficiency

### ASL202 Intermediate ASL II

4 Credits

Students' production and comprehension skills continue to develop qualitatively and quantitatively as they are exposed to a greater variety of interactive activities. The student's knowledge of the cultural values of the Deaf community is expanded. Course may require participation in outside classroom activities/events that relate to the course outcomes.

Theory 3 hours - Lab 2 hours

Prerequisite: ASL201 or proficiency

### ASL203 Seminar in Syntax

1 Credit

This course offers an introduction to general linguistics, as well as providing an in-depth analysis of the major grammatical features of American Sign Language. Comparisons are made between English and American Sign Language, noting how grammatical functions are performed differently in the two languages. Course may require participation in outside classroom activities/events that relate to the course outcomes.

Theory 1 hour

Prerequisite: ASL101

### ASL204 Advanced ASL

4 Credits

This class provides students with opportunities to expand their production and comprehension skills with American Sign Language. Communication activities focus on advanced functions of language usage. Study of the cultural aspects of the Deaf community is continued. Course may require participation in outside classroom activities/events that relate to the course outcomes.

Theory 2 hours - Lab 3 hours

Prerequisite: ASL203

## ANTHROPOLOGY

### ANT101 Anthropology

3 Credits

This course studies the development of the modern human species by surveying the major findings of physical, archeological and cultural anthropologists. Emphasis will be placed on the student's ability to discern the major principles, approaches and assumptions associated with the field.

Theory 3 hours

## ART

### ART101 Survey of Art History

3 Credits

A general study and survey of art includes the nature of art, visual elements, the visual arts, history of world art, and applications of designs including crafts, industrial, graphic and computer-aided design. Course may require participation in outside classroom activities/events that relate to the course outcomes.

Theory 3 hours

### ART102 Beginning Drawing

3 Credits

An introduction to the various concerns of drawing including gesture and contour drawing, rendering of volumetric form showing light and shadow, description of forms in space, and basic principles of compositional arrangement. Instruction in the use of black and white drawing media including pencil, charcoal, pen and ink, and ink washes. Drawing will be studied with reference to various historical and cultural styles and techniques. Students will also be encouraged to develop self expression and creativity.

Theory 2 hours - Lab 2 hours

**ART103 Beginning Painting: Opaque Water Media 3 Credits**  
Introduction to techniques of acrylic, gouache, and other opaque water media, depending on student interest and individual class emphasis. Painting explored in historical context as well as student's individual style and interest. Composition, color use, and sources of inspiration studied through class assignments.

Theory 2 hours Lab 2 hours

Prerequisite: ART102 recommended

**ART104 Art History I 3 Credits**  
A comprehensive survey of art from prehistoric times up to the 19th century, this survey will highlight different cultures with the primary focus on the major civilization and movements in the history of art. Course may require participation in outside classroom activities/events that relate to the course outcomes.

Theory 3 hours

**ART105 Art History II 3 Credits**  
A comprehensive survey of art from the beginning of the 19th century to contemporary times, this course will focus on the major figures, influences, and movements during these centuries. This course will include a component comprised of a visual approach to design. Course may require participation in outside classroom activities/events that relate to the course outcomes.

Theory 3 hours

**ART107 Photography 3 Credits**  
This practical course is designed to teach skills and techniques required to understand and operate the camera. Topics will include the concepts that make lenses effective, an introduction to light-sensitive materials that make photography possible, effective techniques and tools used to control exposure, and the processing steps involved in producing usable negatives and printing them. Course is designed for anyone wanting to learn technical aspects of camera use and black and white processing.

Theory 2 hours - Lab 2 hours

**ART108 Design Foundations 3 Credits**  
This course is a study of the elements of space, line, texture, shape, value, and color, and the principles of composition including balance, movement, harmony, variety, dominance, proportion, and economy in art and design. Elements and principles are studied with reference to various time periods and cultures. Students will translate theory into practice through studio projects in two- and three-dimensional design.

Theory 2 hours - Lab 2 hours

**ART111 Modern Art 3 Credits**  
This course is an exploration of contemporary art theory, contemporary art practice, and global art issues. Students will examine the art of the 20<sup>th</sup> century and how it has evolved into the art of the early 21<sup>st</sup> century. Special attention will be given to the changing nature of theory and technique as artists discovered new issues to explore and searched for new means of expression in the changing cultures of the late 20<sup>th</sup> and early 21<sup>st</sup> centuries. Course may require participation in outside classroom activities/events that relate to the course outcomes.

Theory 3 hours

**ART112 Intermediate Drawing 3 Credits**  
Continued exploration of the various concerns of drawing, including gesture and contour drawing, rendering of volumetric form showing light and shadow, description of forms in space, and basic principles of compositional arrangement. Instruction in the use of color drawing media will include pencils, pastels, and inks. Drawing will be studied with reference to various historical and cultural styles and techniques. Students will be encouraged to develop self-expression and creativity.

Theory 2 hours - Lab 2 hours

Prerequisite: ART102

**ART113 Beginning Painting: Oil 3 Credits**  
Continued practice of oil painting techniques in an in-depth study with emphasis on development of personal style and expression.

Theory 2 hours - Lab 2 hours

Prerequisite: ART103; recommended ART108

**ART114 Beginning Painting: Watercolor**  
An introduction to the techniques of watercolor as a transparent painting medium. Course will include the exploration of a variety of traditional and non-traditional watercolor methods. Watercolor techniques, composition, color use, development of sources of personal inspiration, and historical traditions will be studied through lecture, reading, and direct class painting assignments. Students will be encouraged to develop self-expression and creativity.

Theory 2 hours - Lab 2 hours

Prerequisite: ART103; recommended ART108

**ART121 Special Topics in Art 3 Credits**  
This course offers art topics selected by faculty that satisfy student need and humanities requirements. Course may require participation in outside classroom activities/events that relate to the course outcomes.

Theory 3 hours

## BIOLOGY

**BIO101 Basic Anatomy 3 Credits**  
The student is provided with an introduction to the basic structure of the human body. Anatomical terminology, organ placement and body systems are included. Anatomical charts, models and audiovisual aids are used to re-enforce material presented.

Theory 3 hours

**BIO102 Human Anatomy and Physiology 4 Credits**  
This course provides a detailed study of the structure and functions of the body's cells, tissues and organ systems. Laboratory activities are designed to enhance theory content.

Theory 3 hours - Lab 3 hours

Prerequisite: Minimum of a "C" in BIO101 or waiver by college placement test

**BIO103 Nutrition 3 Credits**  
This course will cover the six basic nutrients (carbohydrate, fat, protein, vitamins, minerals and water) and their functions in the body. The role of nutrition in the prevention and treatment of disease and the promotion of good health will be emphasized. Topics also will include nutrition standards and guidelines, eating disorders, nutrition throughout the life cycle, weight management, food safety, and current and controversial issues in human nutrition.

Theory 3 hours

**BIO105 Cardiopulmonary/Renal Anatomy/Physiology 5 Credits**

A detailed discussion is provided of the anatomy and physiology of the pulmonary, cardiac and renal systems. Physiologic topics will include mechanics of breathing, pulmonary defense mechanisms, gas diffusion, gas transport, cardiac electroconductive system, circulatory system, fluid and electrolyte balance, acid-base regulation, and interaction of the pulmonary, cardiac and renal systems. This course is designed for respiratory therapy majors.

Theory 5 hours

Prerequisite: Admission to Respiratory Therapy Program

Corequisites: BIO102, RES101

**BIO106 Introduction to the Biological Sciences\* 4 Credits**

This is a biology survey course for the non-biology major. Topics covered in this course include the scientific method and the origins and classification of life; the anatomy of the cell; genetics and heredity; the human organism; and evolution. The course also will focus on the interactions between humans and their surrounding environment, and the effects humans have on the environment.

Theory 3 hours - Lab 2 hours

\* Not open to students who have completed BIO114 and/or BIO115, and does not count toward the Associate of Science Degree as a science requirement, but does count as science requirement toward the Associate of Arts Degree

**BIO112 Anatomy/Physiology 4 Credits**

This course focuses on the normal structure and function of human cells, tissues, and body systems. It is designed to meet the needs of those students majoring in nursing. Theory content is amplified in related laboratory activities.

Theory 3 hours - Lab 3 hours

Prerequisite: Trinity Health Systems School of Nursing students only

**BIO114 Principles of Biology I 4 Credits**

This course considers the cellular level of biological organization. Topics include the chemical and physical foundations of life, structure and function of cells, cellular organelles, bioenergetics, metabolism, photosynthesis, biosynthesis, cell division and growth, information coding and transfer, and basic Mendelian and population genetics.

Theory 3 hours - Lab 2 hours

**BIO115 Principles of Biology II 4 Credits**

This course addresses the biology of organisms, both plants and animals. The course will emphasize the evolutionary history of life, plant and animal diversity, the present ecological adaptations of species, and relationships among populations in various environments.

Theory 3 hours - Lab 2 hours

**BIO200 Principles of Pharmacology 3 Credits**

This course offers the student an introduction to metric conversions, apothecary notations, reading drug labels and the calculation of dosages. An introduction to pharmacology, accurate measurement and administration of medication, federal drug legislation, and laws governing the distribution and use of narcotics is included. Drug classifications are discussed.

Theory 3 hours

**BIO201 Pathophysiology 3 Credits**

This course encompasses the etiology, pathogenesis, manifestations, basic treatment and laboratory findings of select diseases of the human body. Attention is given to organic and infectious diseases, as well as immune dysfunction and neoplasia. A holistic approach to wellness and disease prevention is included.

Theory 3 hours

Prerequisite: Minimum of a "C" in BIO101 or waiver by college placement test

**BIO202 Medical Microbiology 4 Credits**

This course introduces the student to the basic concepts of microbiology, as well as the role of microorganisms in health and human disease and host immune responses to infection. Laboratory sessions are correlated with theory content.

Theory 3 hours - Lab 2 hours

Prerequisite: Trinity Health System School of Nursing students only

**BIO203 Principles of Microbiology 4 Credits**

The basic principles of microbiology, including the study of bacteria, algae, protozoa and viruses, are presented. Topics will include the structure, physiology, classification, cultivation and control of microorganisms, and their role in producing disease. The interaction of these organisms with humans and the environment is covered, including their presence in food, water and industry.

Theory 3 hours - Lab 2 hours

**BIO204 Ecology 4 Credits**

This course is intended for anyone who is interested in the world around them. Ecology should be a part of liberal education for it is essential that students who major in such diverse fields as economics, sociology, engineering, political sciences, history, and English have some basic understanding of ecology for the simple reason that it impacts their lives. The student will learn to appreciate or arrive at informed opinions on such highly politicized environmental issues as clean air and water, wetland preservation, endangered species, logging, ozone depletion, global warming, flood control, after obtaining a firm grounding in ecological concepts.

Theory 3 hours - Lab 2 hours

Prerequisite: Biology transfer majors must have completed BIO114 and BIO115 before admission to this class to complete their transfer sequence, or by permission of the instructor

**BIO205 Genetics 4 Credits**

This course will focus on fundamentals of genetics including Mendelian Genetics, gene mapping, and non-Mendelian inheritance; DNA structure, replication and gene expression; DNA cloning and manipulation, applications of recombinant DNA technology, and the analysis of genomes, control of gene transcription and the genetics of cancer, DNA mutation and repair, chromosomal mutations; and population genetics, quantitative genetics and molecular evolution.

Theory 3 hours - Lab 2 hours

Prerequisite: Students will be required to complete BIO114 and BIO115 to fulfill the Ohio Transfer Module, or by permission of instructor

**BIO265H Biological Evolution: Biology for Honors Students** **3 Credits**

This course will cover the main tenets of evolutionary theory, and the analytical methods, as it refers to the human case. Among other topics covered are the role of studies of modern primate social structure and anatomy play in the interpretation of human evolution as well as the key stages in the pattern of human evolution, both in terms of physical changes and cultural changes, as they are currently understood. The course will allow students to summarize the geographical location of major sites and finds, and be able to locate them and assess how successful palaeoanthropologists have been at explaining the development of human behavior and the processes of the human mind. Students will be able to compare and contrast the information about human evolution generated through the study of fossil/comparative anatomy, and archeology and be able to critically evaluate scientific papers and contribute to academic discussions and debates. Note that honors courses move at an accelerated pace, includes more material than the traditional course, and offer students the opportunity to hone their critical thinking and analytical writing skills. Additionally, these courses are meant to facilitate a seminar-like environment through close academic interaction with faculty and other honors students.

Theory 3 hours

## BUSINESS

**BUS101 Introduction to Business** **3 Credits**

This survey course introduces the student to an overall picture of American business and the opportunities it offers. Topics covered include management, human resources, forms of business ownership, union-management relations, ethics and social responsibility of business.

Theory 3 hours

**BUS102 Foundations of E-Commerce** **3 Credits**

Doing business on the Internet is the focus of this course. Topics include basic e-commerce principles, electronic payment systems, supply chain management, pricing goods and services, and legal and ethical issues. This course provides coverage of all objectives E-Biz+ Certification.

Theory 3 hours

**BUS111 Business Math** **3 Credits**

This course is intended for those who need to use mathematics in the solution of practical problems. Emphasis is on percentage formulas, commission, markup, discounts and inventory. Interest, taxes and financial statements also will be covered.

Theory 3 hours

**BUS201 Principles of Marketing** **3 Credits**

This course covers the fundamentals of modern marketing, consumer behavior, marketing strategy, product pricing, promotion and distribution.

Theory 3 hours

**BUS203 Business Law I** **3 Credits**

The course provides a practical knowledge of the legal environment of business, contracts and sales with reference to the Uniform Commercial Code.

Theory 3 hours

**BUS204 Business Law II** **3 Credits**

This course builds upon the concepts studied in Business Law I and deals with matters involved in everyday business transactions. Included in the coverage are the areas of negotiable instruments, bankruptcy, agency, business organizations, and governmental regulations, both in the consumer and business areas.

Theory 3 hours

Prerequisite: BUS203

**BUS205 Advertising and Promotions** **3 Credits**

The purpose and benefits of advertising and its effects on human behavior are reviewed. Also scheduled is an examination of the types of media including: newspapers, television, direct mail, radio, magazines and outdoor. The legal and moral aspects of advertising also are presented as well as ethical considerations.

Theory 3 hours

**BUS206 Small Business Management** **3 Credits**

A fundamental study of the issues, concerns and procedures of planning and operating small businesses is offered in this course.

Theory 3 hours

Spring Only

**BUS207 Salesmanship** **3 Credits**

Basic principles of selling with emphasis on placing the principles into practice are presented. The course emphasizes the human relations aspect of selling. Beginning the sale, overcoming objections, making effective demonstrations and closing the sale are also covered as well as the internal and external factors of customer behavior and ethical considerations.

Theory 3 hours

**BUS210 Entrepreneurship** **3 Credits**

A presentation of small business management topics essential to the success of the entrepreneur. Emphasizes the traits of a successful business owner and helps the student identify opportunities for new ventures within the marketplace. Detailed topics include: business opportunities and trends, human relations and leadership, risk management, and social responsibility.

Theory 3 hours

**BUS221 Business Ethics** **3 Credits**

This course will provide students with an understanding of the business system foundation encompassing various aspects of ethics in relation to the global marketplace, ecology, employee and employment issues, and consumer issues.

Theory 3 hours

Prerequisite: BUS101

**BUS240 Special Topics in Business** **1-3 Credits**

This course offers advanced business topics selected by the dean and faculty that satisfy student needs and business requirements.

Theory 1-3 hours

Theory and/or hours assigned based on topics offered

## CHEMISTRY

### CHM091 Introduction to Chemistry\* 4 Credits

This introductory course is for the student with a limited knowledge of the basics of high school chemistry and a weak background in mathematics. Topics include the metric system, basic atomic structure, elements, compounds, mixtures, the periodic table, chemical nomenclature, stoichiometry. Laboratory activities reinforce theory and familiarize the student with basic laboratory equipment and techniques.

Theory 3 hours - Lab 2 hours

Prerequisite: MTH096 and MTH097 with a minimum grade of "C" or appropriate score on college placement test

\* Course not counted toward graduation

### CHM102 General Chemistry I 4 Credits

Topics include structure of atoms, molecules and ions, chemical reactions and stoichiometry, acid-base reactions, solutions and gas laws. Laboratory activities reinforce theory.

Theory 3 hours - Lab 2 hours

Prerequisite: CHM091 and MTH099 with a minimum grade of "C" or appropriate score on college chemistry placement test

### CHM103 General Chemistry II 4 Credits

This course is a continuation of CHM102 and provides a study of chemical equilibria, thermodynamics, kinetics, the transition elements and nuclear chemistry. Laboratory activities reinforce theory.

Theory 3 hours - Lab 2 hours

Spring Only

Prerequisite: CHM102 with a minimum grade of "C"

### CHM201 Organic Chemistry 4 Credits

This course is a study of the fundamental principles of organic chemistry. Topics include structure, nomenclature and characteristic reactions for the following: saturated and unsaturated hydrocarbons, alcohols, ethers, aldehydes, ketones, carboxylic acids, amines, amides, aromatic compounds, carbohydrates, lipids, proteins and nucleic acids. Enzymes, stereoisomers, and the metabolism of carbohydrates, lipids and proteins are included. Lab exercises reinforce theory.

Theory 3 hours - Lab 2 hours

Summer Only

Prerequisite: CHM102, CHM103

## CIVIL ENGINEERING TECHNOLOGY

### CIV101 Surveying 3 Credits

Course topics include theory of measurement and errors; surveying field notes; distance measurement; leveling theory; field procedures and computations; study of angles, bearings and azimuths; field operations with transit, level and theodolite; traversing; and traverse computations.

Theory 2 hours - Lab 2 hours

Spring Only

Prerequisites: MTH110, MTH111

## CLINICAL LABORATORY TECHNOLOGY

### CLT101 Introduction: Clinical Laboratory Technician 3 Credits

An orientation to the field of clinical technology is provided including the history, ethics and present status of the profession, and its relationship to other health professions and to the patient. Laboratory equipment and OSHA/CDC safety requirements are presented. A survey of the subject matter of each division of a clinical laboratory is presented, and

laboratory experiences are included. Medical terminology and mathematical calculations related to course work are included.

Theory 2 hours - Lab 2 hours

Lab fee includes liability coverage fee

Prerequisite: Admission to Clinical Laboratory Technician Program

### CLT102 Immunology/Serology 4 Credits

This course provides a theoretical and practical basis for understanding the normal immune system, the role of the immune system in disease processes, and the application of immunologic techniques in the clinical laboratory. The laboratory sessions correlate with the lecture content and concentrate on immunological and serological in vitro tests.

Theory 2 hours - Lab 4 hours

Prerequisites: CLT101 or CHM201

### CLT103 Hematology/Coagulation 5 Credits

This course concentrates on the origin and formation of normal and abnormal blood cells and their precursors. Coagulation mechanisms are studied. The etiology, clinical symptoms, laboratory findings, treatment, and prognosis of various hematological and bleeding disorders are presented. Laboratory practice is correlated with theory content.

Theory 3 hours - Lab 6 hours

Prerequisites: CLT101; limited to CLT majors

### CLT201 Immuno-hematology 4 Credits

This course is a study of the blood group antigens and their corresponding antibodies. Collection, processing and compatibility testing of infant and adult blood for transfusion therapy is emphasized. Lab practice is correlated with theory content.

Theory 2 hours - Lab 4 hours

Lab fee includes liability coverage

Prerequisites: CLT101, CLT102, CLT103; limited to CLT majors and CLT Accelerated majors

### CLT202 Analysis of Body Fluids 2 Credits

This course concentrates on the principles and practices of urinalysis which includes kidney function and qualitative-quantitative procedures for urine examination. The methodologies, expected values and diagnostic significance of other body fluid analyses also are emphasized. Lab practice is correlated with theory content.

Theory 1 hour - Lab 2 hours

Prerequisites: CLT101, CLT102, CLT103, CHM201, or CLT Accelerated majors

### CLT203 Clinical Chemistry 5 Credits

This course concentrates on the analytical aspects of clinical laboratory chemistry. The methodologies, normal values and diagnostic significance of routine laboratory procedures on peripheral blood are emphasized. Diseases associated with these various clinical chemistry tests are presented. Manual and automated determinations are correlated with the theory content.

Theory 3 hours - Lab 6 hours

Prerequisites: CLT101, CLT102, CLT103, CHM201; limited to CLT majors and CLT Accelerated majors

### CLT204 Clinical Microbiology I 4 Credits

A study of the classification, morphology, cultivation and inhibition of microorganisms is presented. Emphasis is on bacteriology and mycology with an introduction to virology designed for the medical laboratory technician major.

Theory 2 hours - Lab 4 hours

Prerequisites: CLT101, CLT102, CLT103; limited to CLT majors and CLT Accelerated majors

**CLT205 Clinical Microbiology II 4 Credits**

This course builds upon knowledge gained in CLT204. The pathogenicity and laboratory diagnosis of specific bacteria and parasites are presented. Laboratory practice is correlated with theory content.

Theory 2 hours - Lab 4 hours

Prerequisites: CLT201, CLT202, CLT203, CLT204; limited to CLT majors and CLT Accelerated majors

**CLT206 Directed Clinical Practice 1 Credit**

A supervised on-campus simulated clinical laboratory experience is provided for the student to perform assigned procedures normally done in the modern clinical lab. Quality control interpretations, storage, and handling laboratory samples, reporting of patient result, and troubleshooting of problems are included.

Lab 8 hours

Prerequisites: CLT201, CLT202, CLT203, CLT204; limited to CLT majors

**CLT207 CLT Practicum/Seminar II 3 Credits**

This course will provide the student with practical clinical experience in an approved, assigned off-campus clinical affiliate. The student will be expected to perform all of the routine tests normally performed in a clinical laboratory in the areas of microbiology, hematology, chemistry, blood banking, serology and urinalysis. Preparation of a case study including four departments of the clinical laboratory is required. Students will engage periodically in discussions which are directed by a faculty member in the review of concepts which are applied to practical situations and preparation for the national registry exam.

Clinical/Seminar 40 hours (per week)

Prerequisites: CLT205, CLT206, CLT208; limited to CLT majors and CLT Accelerated majors

**CLT208 CLT Seminar I 2 Credits**

The seminar serves as a guide in reviewing clinical laboratory science at the CLT level. Preparation of a resume and guidelines for job interviews are included. In preparation for the national registry exam, the student is required to pass a 200-question comprehensive exam covering all the material presented in the CLT curriculum with a minimum of a fifty percentile (50%).

Seminar 2 hours

Prerequisites: CLT201, CLT202, CLT203, CLT204; limited to CLT majors and CLT Accelerated majors

**COLLEGE READING****CRS091 College Reading I 1 Credit**

This course reviews and/or strengthens strategies for improved reading comprehension. As writing is a major way to learn, students will use different kinds of logs and journals as a means of understanding and retention. Students will share conversations about their reading with instructors and other students.

Theory 1 hour

**CRS100 College Reading II 1 Credit**

In this course students will work toward improved reading rate and accuracy. Students will be assigned reading from college-level texts and will be expected to use learned strategies to successfully keep learning logs, write response journals, and maintain a dialogue journal with classmates and instructor in order to help the students organize their thoughts. Students will take quizzes and engage in discussion of these texts in an effort to improve comprehension of the material.

Theory 1 hour

Prerequisite for students testing into reading: CRS091

**CRS101 Reading and Studying Business 1 Credit**

This course is designed to help students acquire reading skills to help when studying in the field of business.

Theory 1 hour

**CRS102 Reading and Studying Health and Science 1 Credit**

This course is designed to help students acquire reading skills to help when studying in the field of health and science.

Theory 1 hour

**CRS103 Reading and Studying for Social Sciences 1 Credit**

This course is designed to help students acquire reading skills to help when studying in the field of social science.

Theory 1 hour

**CRS104 Reading and Studying Literature 1 Credit**

This course is designed to help the student acquire reading skills that will help when reading literature.

Theory 1 hour

**CRS105 College Reading III 1 Credit**

In this course students will continue to read and explore college texts and will make presentations, both written and oral, on the material. Students may be possibly expected to maintain a learning log, a response journal for summarizing, evaluating, and analyzing the text, and a dialogue journal with the instructor on the selected material.

Theory 1 hour

Prerequisite for students testing into reading: CRS100

**COLLEGE SUCCESS SERIES****CSS091 Study Skills\* 1-4 Credits**

This course is designed to help the student improve study skills. Concepts emphasized will include motivation, time management, library orientation, test-taking, note-taking in a lecture situation and textbook annotation. Individual learning styles also will be addressed. Lab hours may be spent with resources at the Learning Skills Lab.

Theory 2 hours - Lab 2 hours

\* Course not counted toward graduation

**CSS092 College Study Skills\* 1 Credit**

This course is designed to help the student improve study skills. Concepts emphasized will include motivation, time management, library orientation, test taking, note taking in a lecture situation, and textbook annotation.

Theory 1 hour

\* Course not counted toward graduation

**CSS101 College Learning Seminar 1 Credit**  
This course will focus on the application of psychological principles of learning to college course materials and will help the students to take tests, write essays, and participate in class discussion. Students will apply a variety of techniques to actual course materials so as to experience the movement from basic knowledge acquisition to higher-level thinking skills.

Theory 1 hour

**CSS102 Writing College Assignments 1 Credit**  
This course will help students develop strategies for college assignments that require writing, including taking notes, performing well on essay tests, writing reports and summaries, and writing informal research papers. The class will include review and practice in revising and editing strategies.

Theory 1 hour

**CSS103 Writing a Research Paper 1 Credit**  
This course focuses entirely on the research paper. The student will learn or review how to do the following: choose an appropriate topic, use information technologies to research a topic, narrow or broaden topics, correctly use both primary and secondary sources, avoid plagiarism, take notes from sources, organize materials, correctly document in each of the four styles (MLA, APA, Chicago Style, CBE), edit, and proofread.

Theory 1 hour

**CSS104 Learning Online 1 Credit**  
This course will help orient the student to the WebCT course platform, and focus on the active learning skills necessary to learn successfully in an online course. This course is highly recommended for students who wish to take courses online.

Theory 1 hour

**CSS105 Introduction to Education 1 Credit**  
This course is for those students who intend to major in education and will introduce students to practical aspects of teaching and prepare them for their education courses. The course will cover principles of effective teaching, organizations and agencies important to education, Praxis tests, requirements of licensure, and various degree and transfer options. This course is advised for education majors.

Theory 1 hour

**CSS106 Orientation to College 1 Credit**  
This course is designed to provide the newly enrolled college student with information needed to make a smooth transition into the college experience. College orientation focuses on understanding college policy, on being aware of student personnel services, on personal counseling and career planning services, and on learning the skills needed for success in college. This course is required of all first-time, full-time students with no previous college experience.

Theory 1 hour

**CSS109 Critical Thinking 1 Credit**  
This course centers on the practical aspects of critical thinking necessary for students to evaluate information. The course intends to improve student's thinking through a variety of skills such as diagramming arguments, recognition of common types of arguments and fallacies and evaluation and analysis of arguments.

Theory 1 hour

**CSS110 Modern Technology and Job Search 1 Credit**  
This course will help a student use current technology to develop effective resumes, practice successful job-interviewing strategies, and search for career positions.

Theory 1 hour

**CSS115 Portfolio Development I 1 Credit**  
This course provides an introduction to the art of putting together an effective portfolio. Students will learn the components of a portfolio, such as the cover letter, life history, goals paper, chronological record, narrative of learning and documentation, and gain an understanding that the portfolio is an exercise in self-evaluation, introspection, analysis, and synthesis. The student learns the principles of organizing and documenting of past learning experiences in a clear and concise manner in order to achieve a particular educational and/or career goal.

Theory 1 hour

**CSS116 Portfolio Development II 1 Credit**  
This course offers students continued guidance in assembling a portfolio, collecting data and presenting written items for evaluation and revision. The instructor will assist the student in deciding which elements or areas on which to focus, depending upon the purpose of the portfolio. If students are assembling the portfolio as a means to gain credit for life experience, this second module will help the student make decisions as to the goals of the portfolio and documentation needed.

Theory 1 hour

**CSS117 Portfolio Development III 1 Credit**  
This course, the final module in the Portfolio Development series, students will finish assembling the portfolio and present it for evaluation by the instructor of the class, along with a preliminary check by the party for whom the portfolio is intended. The student may also use this module to revise and perfect a portfolio that is not yet acceptable or that has been returned for revision.

Theory 1 hour

## COMMUNICATIONS

**COM101 Public Speaking 3 Credits**  
This course is designed as a basic public speaking skills course for developing effective organization, delivery, invention, style, and memory in presentations. Projects and topics include listening skills, group work, demonstration, persuasion, and research. The course will also introduce using technology to enhance and support evidence in presentations. Students are required to present speeches with specific purposes. Course may require participation in outside classroom activities/events that relate to the course outcomes.

Theory 3 hours

**COM105 Interpersonal Communications 3 Credits**  
Interpersonal Communications invites students to explore their present communication skills and to improve their competency in communicating with other people. Through reading and participating in class exercises, students will examine the basic elements of interpersonal communication including critical thinking, self-concept, perception, listening, verbal and non-verbal expression, emotional expression, conversational skills, personal relationships, intercultural communication, and conflict resolution. Course may require participation in outside classroom activities/events that relate to the course outcomes.

Theory 3 hours

**COM110 Conference and Group Discussion****3 Credits**

Through role play, discussion and participation, students will develop attitudes, skills and knowledge of methods necessary to participate effectively in discussion in conferences, committees, team work, collaborative writing and other small groups. Course may require participation in outside classroom activities/events that relate to the course outcomes.

Theory 3 hours

Fall Only

**COM115 Oral Interpretation****3 Credits**

Students will read literature orally and listen critically. Students will practice techniques for presenting literature dramatically. Emphasis will be placed on analyzing literary works, recognizing their emotional and dramatic value, and projecting those qualities through oral presentations. Writing assignments include response journals and short critical papers. Course may require participation in outside classroom activities/events that relate to the course outcomes.

Theory 3 hours

Spring Only

**COM150 Survey of Mass Media****3 Credits**

This course serves as an introduction to mass communications in that it assesses the major forms of mass media -- radio, television, film, newspapers, magazines, and other emerging media by examining the development, purpose, methods of operation, ethical concerns, and social impact. Course may require participation in outside classroom activities/events that relate to the course outcomes.

Theory 3 hours

Fall Only

**COM210 Advanced Presentation Skills****3 Credits**

This course will build on the knowledge and skills developed in COM101. Students will learn how to develop presentations that require extensive research, longer presentational times, and adaptation to diverse audiences. Attention is focused on competence with presentational technology, electronic presentations, and practical experience with speaking in business and organization settings. Course may require participation in outside classroom activities/events that relate to the course outcomes.

Theory 3 hours

Spring Only

**COM290 Communications Seminar****1 Credit**

Taken in conjunction with COM291, this course is a means of communication between the internship instructor and students. Various industry representatives will present topics such as proper interviewing techniques, resume writing, etc. A student will not be permitted ordinarily to take the course or the associated course, COM291, unless 46 credit hours have been achieved.

Seminar 1 hour

Prerequisite: Completion of 46 semester credit hours

Corequisite: COM291

**COM291 Communications Internship****1 Credit**

Students receive practical on-the-job knowledge of the application of information as related to the Associate of Arts Degree with a Communications Concentration. A student will not be permitted to take the course unless 46 credit hours have been achieved or permission of instructors.

Internship: A minimum of 105 hours per credit hour

Corequisite: COM290

**COMPUTER INFORMATION****CIS100D Database Management Basics****1 Credit**

This course will introduce the student to database management, including terminology, simple table creation, data input and editing, viewing, sorting, and printing. Students will need to plan for lab time outside of class.

Theory 1 hour

Prerequisite: CIS100E

**CIS100E Windows Environment****1 Credit**

This course is designed to familiarize the student with the Windows operating system environment and essential operating system features and tasks, such as file management.

Theory 1 hour

**CIS100I Internet Basics****1 Credit**

This course will introduce the student to internet use, including searches, e-mail and attachments, website analysis, and printing. Students will need to plan for lab time outside of class.

Theory 1 hour

**CIS100P Presentation Program Basics****1 Credit**

This course will introduce the student to presentation program software, including terminology, slide creation and editing, special effects, on-screen presentations and printing. Students will need to plan for lab time outside of class.

Theory 1 hour

**CIS100S Spreadsheet Basics****1 Credit**

This course will introduce the student to spreadsheet software, including terminology, simple worksheet creation, simple formulas and functions, and basic printing. Students will need to plan for lab time outside of class.

Theory 1 hour

Prerequisite: CIS100E

**CIS100T Computing Theory****1 Credit**

A study of computing terminology, concepts, and theory designed to prepare the student to understand and use computing concepts in later courses.

Theory 1 hour

**CIS100W Word Processing Basics****1 Credit**

This course will introduce the student to word processing software, including terminology, basic document creation and formatting, editing fundamentals and printing. Students will need to plan for lab time outside of class.

Theory 1 hour

Prerequisite: CIS100E

**CIS205 Internet Research****3 Credits**

Internet as a research tool is stressed in this course. Research techniques, differences, and evaluation of various websites for collegiate and professional purposes is stressed. In addition to web-based classwork, students also will complete assignments relating to evaluation and citation of web sources. Assignments require online time outside of class.

Theory 3 hours

Prerequisite: ENG101

**CIS211 Visual BASIC Programming** **4 Credits**  
This course is an introduction to programming in a Windows environment using Microsoft Visual BASIC. Topics include Visual BASIC objects and events, procedures, decisions and repetition. Use of Microsoft Windows command buttons, text, picture and label boxes, option buttons, check boxes, dialogue boxes, message boxes, menus and submenus, and scroll boxes are emphasized. Assignments require lab time outside of class.

Theory 4 hours Fall Only

Prerequisite: CIS202

**CIS212 Advanced Visual BASIC** **3 Credits**  
A continuation of CIS211, Visual BASIC Applications will be presented. Topics will include lists, loops, printing, message boxes, arrays, and data files. Assignments require lab time outside of class.

Theory 3 hours Spring Only

Prerequisite: CIS211

**CIS213 Web Page Design** **3 Credits**  
Web page design using HTML (Hypertext Markup Language) and authoring tools are covered. Students will compose and analyze HTML pages. Projects will be assigned individually and to teams. Assignments require lab time outside of class.

Theory 3 hours Fall Only

Prerequisite: CIS205 or instructor approval

**CIS214 Advanced Web Site Development** **3 Credits**  
This course is designed to take the student past basic HTML and browser editors. Students will have access to development "power tools" such as Macromedia's Dreamweaver and Adobe Photoshop to create web sites and to edit images and graphics. Students will develop entire sites and will link and mount those sites online. Assignments require online time outside of class.

Theory 3 hours Spring Only

Prerequisite: CIS213

**CIS222 Spreadsheet Concepts** **3 Credits**  
The course covers the most important and useful features of Microsoft Excel, including the skills required for Microsoft Office Specialist Certification. Specific topics include basic spreadsheet preparation, formatting, printing, and graphics to advanced topics that may include name and range tables, custom menus, forms control, and macro writing. Assignments require lab time outside of class.

Theory 3 hours

Prerequisite: CIS100E or instructor approval

**CIS225 Database Concepts** **3 Credits**  
The course covers the most important and useful features of Microsoft Access, including the skills required for Microsoft Office Specialist Certification. The course progresses from introductory topics including planning and structuring databases, data retrieval, report generation, and custom screen design to advanced topics that may include custom screens and menus, and programming using Access.

Theory 3 hours

Prerequisite: CIS100E or instructor approval

**CIS228 Data/Operating Systems** **3 Credits**  
An introduction to the internal operations of computers including instruction cycles and processor functions for DOS, VMS/RMS, JCL, UNIX, OS/2 and AS/400. Assignments require lab time outside of class.

Theory 3 hours Spring Only

Prerequisites: CIS202, CIS207

**CIS229 Advanced Database Concepts** **3 Credits**  
Advanced Microsoft Access is a continuation of CIS225, Microsoft Access. The course covers database techniques using Microsoft Access including using forms and macros to create switchboard applications, generating advanced reports, introducing Visual Basic for Applications (VBA), and administering a database once it is generated. Students will complete an independent project. This course requires lab time outside of class.

Theory 3 hours

Fall Only

Prerequisite: CIS225

**CIS230 Mathematics for Computers** **3 Credits**  
Detailed coverage of binary and hexadecimal number systems will be included as well as logic concepts. Linear programming and probabilities, and statistics will be discussed.

Theory 3 hours

Spring Only

Prerequisite: MTH096 and MTH097 or appropriate score on college placement test

**CIS250 CIS Practicum** **2 Credits**  
Work experience under supervision of work supervisor and faculty enables the CIS student to apply theory and principles learned in the classroom and lab. Students will gain firsthand experience in current practices in CIS. This practicum is REQUIRED for graduation for all CIS majors.

Practicum: Minimum of 210 hours Spring Only

Prerequisites: CIS207, CIS211, or dean approval

**CIS251 CIS Practicum Seminar** **1 Credit**  
Practicum students will discuss their experiences with each other and the seminar leader (faculty). Job search techniques and skills including résumé writing, application letters and interviewing are also discussed. Seminar must be taken in same semester as practicum or after practicum has been successfully completed.

Seminar: 1 hour

Spring Only

Prerequisite: CIS207 or dean approval

## COMPUTER SCIENCES

**CPS140 Visual Development Applications (JAVA)** **3 Credits**

This course uses objects and the fundamental design principles of object-oriented programming. The JAVA language is covered, as well as its standard libraries and utilities. Applets are introduced and applications involving graphical user interfaces, multimedia, event-handling, graphics, strings, exceptions and data structure are explored.

Theory 3 hours

Spring Only

Prerequisite: Minimum of MTH099 or appropriate score on college placement test or instructor approval

**CPS210 Introduction to LINUX** **3 Credits**

This course focuses on the LINUX Operating System. It is vendor neutral with an emphasis on the latest version of LINUX. A comprehensive study of LINUX is undertaken. Topics include LINUX evolution, graphical environments, terminal interfaces and bash, the file systems, file manipulation commands, data manipulation commands, editors, software tools, networking tools, and system administration tools. The course is supplemented with many hands-on exercises that reinforce the lectures.

Theory 3 hours

Fall Only

**CPS220 Object-Oriented Programming (C++) 3 Credits**

Object-oriented programming techniques including data structures; operators and expressions; functions and prototypes; software engineering and inheritance; and stream input/output. Emphasis is placed on major programming projects. Additional time is required to complete assignments outside of class.

Theory 3 hours Spring Only  
Prerequisite: CPS120 or structured programming experience (with instructor permission)

**CPS299 Special Projects in Information Technology 1-4 Credits**

This course is designed to introduce the latest technologies and concepts required by the computer science field and industry. Students will have the opportunity to study technical subject matter not covered in other courses; such as, systems and networking certifications. May be used as a technical elective by any student pursuing an engineering technology degree or certificate. May be repeated; however, those students repeating the same "Special Topics" course must notify the registrar.

Theory 1-4 hours  
Prerequisite coursework and/or instructor approval may be required

**CORRECTIONS****COR200 Facility Safety and Fire Protection 3 Credits**

Concentrating on the principles and practices of safety, this course reviews interpretation and application of safety regulations, fire prevention and control, occupational hazards and personal safeguards (OSHA). The implementation of prevention programs, techniques of hazard analysis, risk management, emergency planning, survey of fire protection, equipment and their application to industrial hazards by understanding fire codes and standards are included.

Theory 2 hours - Lab 2 hours Spring Only

**COR202 Correctional Institutions in America 3 Credits**

This examination of contemporary problems that exist within juvenile and adult penal institutions will include a study of inmate subcultures, riots, population control and homosexuality. This course also will examine comparative penal systems, treatment approaches and new alternatives.

Theory 3 hours Fall Only  
Prerequisite: Corrections Academy students must be employed as a full-time corrections officer

**COR203 Criminology 3 Credits**

This study of the social context of crime incorporates an examination of criminal behavior, specifically macrotheory which explains social structure and its effects; microtheory which explores how people become criminal; and bridging theories which attempt to explain both how social structures come about and reasons people become criminal.

Theory 3 hours

**COR204 Community-Based Corrections 3 Credits**

An explanation of the philosophy and programs of juvenile and adult probation supervision, aftercare parole, halfway houses, work release and educational release furloughs will be covered. The dilemma of surveillance-custody/control factor vs. supervision treatment will be examined. The introduction to classification will be analyzed. Citizen-agency relationships will be investigated along with the potential for using citizen volunteer programs.

Theory 3 hours Spring Only

**COR205 Juvenile Delinquency 3 Credits**

An analysis of the social and psychological factors underlying delinquency is studied as well as the role of the police officer, juvenile court and probation officer in the prevention and treatment of juvenile offenders.

Theory 3 hours Spring Only

**COR206 Contemporary Topics: Corrections Each 3-Credit Courses**

This special course is designed to assist a student with select topics dealing with contemporary issues in the field of corrections. Topics will be selected and may include but are not limited to: cultural diversity; suicide in custody; correctional law; prison violence; gangs in prisons; drugs, alcohol and other addictions.

Theory and/or lab hours assigned based on topics offered

**COR 208 Constitutional Right of Prisoners 3 Credits**

This course traces the development of correctional case law which affects the administration and operation of jails, correctional institutions and parole services. A casebook method will be used to provide students with an understanding of specific judicial decisions relating to the constitutionality of correctional programs and processes.

Theory 3 hours

**CRIMINAL JUSTICE TECHNOLOGY****CJT101 Introduction: Criminal Justice 3 Credits**

A survey of the philosophy and principles of the American criminal justice system is offered. The roles of the peace officer, corrections officer and security officer are presented; respective functions within the system are examined.

Theory 3 hours Fall Only

**CJT102 Procedural Law 3 Credits**

This course focuses on the various laws that govern policing, specifically those based on the U.S. Constitution, U.S. Supreme Court decisions, and statutes passed by Congress and state legislatures.

Theory 3 hours Fall Only

**CJT103 Crisis Intervention 3 Credits**

This course presents a study of human relations on dealing with older adults; the physically or mentally challenged; rape victims; domestic violence victims; missing, abused and neglected children; and parents of those children.

Theory 3 hours Fall Only  
Prerequisite: Corrections Academy students must be employed as a full-time corrections officer

**CJT105 Information Technology and Criminal Justice 3 Credits**

This course is designed to provide the student with an understanding of the computer, use of personal computers, use of the Internet, and knowledge of cybercrime.

Theory 3 hours Spring Only

**CJT201 Traffic Accident Investigation 3 Credits**

Accident reporting and investigation, use of template and the accident investigation kit, search for physical evidence, accident diagraming and charting, preparation of statements, and interviewing of witnesses are presented.

Theory 2 hours - Lab 2 hours Fall Only

**CJT202 Criminal Investigation 3 Credits**  
This course provides the student with methods of investigating crime scenes. Topics include: scene search, recording, sketching, photographing, use of lineups and fingerprint processing. Special emphasis will be placed on interviewing and interrogation. Assignments require lab time outside of class.

Theory 3 hours

Spring Only

**CJT204 Criminal Identification 3 Credits**  
A study of the scientific means of identifying criminals through trace evidence is offered to acquaint the student with the best utilization of the crime laboratory.

Theory 2 hours - Lab 2 hours

Fall Only

Prerequisites: CJT202 or program director approval

**CJT208 Contemporary Topics: Criminal Justice Each 3-Credit Courses**

This special course is designed to assist a student with select topics dealing with contemporary issues in the law enforcement area. Topics will be selected to meet the current community needs and may include mental health training for police; jail and lockup management; organized crime; arson investigation; alcohol and drug abuse; and street survival.

Theory and/or Lab hours assigned based on topic offered

**CJT208B Contemporary Topics: Organized Crimes 3 Credits**  
The objective of this course is to provide the student with an analysis of organized crime which provides a theoretical basis for understanding how criminal organizations are structured and how they function, including a history of organized crime with detailed coverage of the period from the late 19th century to the present. Two models of criminal hierarchies are examined in detail. Laws and law enforcement methods used to deal with organized crime are carefully reviewed and the crucial issues of official corruption and government policy are examined.

Theory 3 hours

**CJT208E Contemporary Topics: Domestic and International Terrorism 3 Credits**

This course will examine the origins of terrorism, the criminological theories applicable to individual and group dynamics associated with terrorism, and the response by terroristic groups to social, political, and religious changes. Specific issues in modern terrorism will be discussed in relation to its affects on and response by the criminal justice system.

Theory 3 hours

**CJT208F Contemporary Topics: Criminal Profiling 3 Credits**

Offender profiling has become more prevalent in the efforts to reduce crime and prevent disasters such as the World Trade Center and events of September 11, 2001. This course will provide a historical background and evolution of the concept of offender profiling as well as examine its use in today's investigations. The course will critically analyze the debates surrounding the use of profiles and explore its credibility as a science and investigational tool. Profiling violent offenders and geographical profiling also will be discussed.

Theory 3 hours

**CJT210 Introduction to Criminal Law 3 Credits**  
This course explores the development of criminal law in the United States; various crimes and their elements, including common law, the Model Penal Code, and criteria considered in determining capacity and defenses.

Theory 3 hours

**CJT211 CJ Internship 1-4 Credits**  
Students receive practical on-the-job knowledge as related to criminal justice..

Internship 1-4 hours

**CJT212 Professionalism, Ethics, and Criminal Justice 3 Credits**

Students will study the theories and practices in areas of legality, morality, values, and ethics as they pertain to criminal justice. Included will be an analysis of contemporary topics affecting law enforcement, the judiciary and corrections, and methods for dealing with them as well as discussions pertaining to the profession and professional conduct.

Theory 3 hours

Prerequisite: CJT101 or instructor permission

**CJT213 Police Function 3 Credits**

This course provides an overview of American policing by analyzing its historical development, examining the current status of the police industry at the local, state, federal, and private levels; correlating police organizations with its officers and communities; examining basic functions of the police and assessing community policing, police misconduct and control, and the future of policing.

Theory 3 hours

Spring Only

**CJT214 Rules of Evidence 3 Credits**

A practical insight into the rules of evidence to include how to recognize evidence; the general rules government admissibility of evidence; the "hearsay" rule and its exceptions; the use of documentary evidence, written memoranda, photographs, and recordings; corpus delicti; opinion evidence, circumstantial evidence, evidential privileges.

Theory 3 hours

**CJT215 Victimology 3 Credits**

This course introduces students to the leading theories and research in the area of violent criminal behavior and victimization. Special emphasis will be placed on patterns of violent offending and victimization over time, victim-offender relationships, and the experience of victims in the criminal justice system. This course will address the major violent crimes of murder, rape, robbery, and assault.

Theory 3 hours

Fall Only

**CJT216 Comparative Justice Systems 3 Credits**

This course will examine emerging transnational crimes, explore the justice system of selected countries as a comparison to ours, and investigate the role of the United Nations in international crime and justice.

Theory 3 hours

**CJT217 Domestic Violence 3 Credits**  
A study of the legal, historical, theoretical, and treatment aspects of domestic violence including spousal abuse, child abuse, elder abuse, and abuse in same sex relationships.  
Theory 3 hours

**CJT218 The Death Penalty – Pros and Cons 3 Credits**  
This course is designed to examine the ethical and moral issues relating to capital punishment by using major death penalty cases decided by the U.S. Supreme Court and general case law. This course will provide the student with a cross-national history, foundation cases, constitutional issues and the future of the death penalty.  
Theory 3 hours

## DENTAL ASSISTING TECHNOLOGY

**DAS101 Introduction: Dental Assisting 1 Credit**  
This course is designed to provide the student with an introduction to dental assisting. Topics include history of dentistry, role of the dental assistant, personal and professional growth, ethics and a working knowledge of dental terminology.  
Theory 1 hour

**DAS102 Dental Sciences 4 Credits**  
The student is given an overview of general and medical microbiology with emphasis on dental and periodontal aspects. General pathology and oral diseases are discussed along with highlights on dental anomalies and communicable disease. Drugs and medicines used in the dental office including nomenclature of drugs, proper administration, effects, actions and medical/dental emergencies are presented.  
Theory 4 hours

**DAS103 Preventive Dentistry 2 Credits**  
The content of this course is designed to include the development of a caries control program. Special emphasis is given to oral hygiene, the study of dental plaque, the use of the toothbrush, the latest methods of preventing tooth decay, the equipment and methods used to prevent dental disorders, and coronal polishing technique. Communication techniques related to using nutrition in the prevention of disease and nutritional counseling methods are developed in lab sessions and in elementary classroom situations.  
Theory 1 hour - Lab 2 hours  
Prerequisite: Admission to the Dental Assisting Program or waiver for practicing dental assistants with advisor approval

**DAS104 Dental Materials I 3 Credits**  
The student is introduced to the various materials used in the dental office. The physical and chemical properties of these materials are included. Emphasis is placed on manipulation and practical application of basic dental materials in the laboratory sessions. The maintenance and use of laboratory equipment, the proper handling of potentially hazardous wastes, and infection control procedures are included.  
Theory 2 hours - Lab 2 hours  
Prerequisite: Admission to Dental Assisting Program  
Corequisite: DAS105

**DAS105 Chairside Assisting I 4 Credits**  
An introduction to chairside assisting is provided. The principles and skills of chairside assisting are cultivated by observation, discussion, study, demonstration and practice in the laboratory sessions. Emphasis is placed on care of equipment and instruments, oral examinations and histories, dental charting, oral evacuation, four-handed dentistry, local anesthetics, cavity preparation, and sterilization and infection control procedures. Lab fee includes liability coverage fee.  
Theory 2 hours - Lab 4 hours  
Prerequisite: Admission to Dental Assisting Program  
Corequisite: DAS104

**DAS106 Chairside Assisting II 2 Credits**  
This course content builds upon the knowledge gained in DAS105, and it includes development of restorative and surgical procedures, specific surgical and restorative instruments, rubber dam placement, and all dental specialties procedures. Cultivation of this material is achieved by discussion, study, demonstration and practice in laboratory sessions.  
Theory 1 hour - Lab 2 hours  
Prerequisites: BIO101, DAS101, DAS102, DAS103, DAS104, DAS105  
Corequisite: DAS107

**DAS107 Dental Materials II 3 Credits**  
This course, a continuation of DAS104, includes the physical and chemical properties of advanced dental materials. Emphasis will be placed on manipulation and application of more complex dental materials used with advanced operative procedures; infection control; and handling of potentially hazardous wastes.  
Theory 2 hours - Lab 3 hours  
Prerequisites: BIO101, DAS101, DAS102, DAS103, DAS104, DAS105  
Corequisite: DAS106

**DAS108 Dental Anatomy 3 Credits**  
Dental nomenclature, form and function of the teeth and related structures, tooth development, and permanent and deciduous morphology are presented. Anatomical directional terms, muscles of mastication and facial expression, the blood supply to the head, fifth cranial nerve supply, salivary glands, and anatomical topography are emphasized. Familiarity with dental cytology, histology, and embryology is included.  
Theory 3 hours  
Prerequisite: BIO101, DAS101, DAS102

**DAS109 Dental Radiology 4 Credits**  
This course concentrates on the principles of radiology, X-ray production, radiation safety, and health practices and hazards, including quality assurance and regulations. Radiographic interpretation, evaluation of common radiographic inadequacies, film identification, and mounting and darkroom procedures are included. In the required college laboratory sessions, exposing, processing, and mounting of intraoral and extra-oral radiographs will be completed.  
Theory 2 hours - Lab 4 hours  
Lab fee includes film badge services  
Prerequisite: Minimum of a "C" or "P" in BIO101, DAS101, DAS102, DAS103, DAS104, DAS105  
Corequisite: DAS108

**DAS110 Clinical Education 2 Credits**  
Planned clinical educational experience in a dental office is intended to provide the student with the opportunity to use the principles and skills obtained in DAS105 and continued concurrently in DAS106. This experience will be supervised and evaluated.

Clinical 12 hours

Prerequisite: Minimum of a "C" or "P" in DAS101, DAS102, DAS103, DAS104, DAS105 and proof of current CPR Certification

**DAS111 Dental Administrative Procedures 2 Credits**  
This computerized course is designed to assist the student in developing sound dental business procedures while identifying the role of the dental assistant in office procedures. It will include patient scheduling, filing procedures, typing, financial records and insurance forms, bookkeeping, and telephone and collection techniques.

Theory 1 hour - Lab 2 hours

Prerequisite: Minimum of "C" in DAS101, DAS102, DAS103, DAS104, DAS105

**DAS201 Dental Assisting Seminar 1 Credit**  
This seminar is designed to encourage student participation in discussing the practical experience. Emphasis is placed on dental specialties, disease prevention, efficiency in the dental office, patient contact, and personal and professional growth. An opportunity is provided to review for the DANB (Dental Assisting National Board) Certification Examination.

Seminar 1 hour (Blocked in five-week summer session)

Prerequisite: Minimum of "C" or "P" in all DAS courses from 101-111

Corequisite: DAS202

**DAS202 Dental Assisting Practicum 1 Credit**  
This course was designed to provide the student with an opportunity for practical application of the dental principles and skills gained in the previous two semesters of the program. The student is assigned to a dental office for supervised practical experience, and is required to provide an evaluation of office experiences and individual work experience sheets.

Practicum 8 hours - (Blocked in five-week summer session - 40 contact hours per week)

Prerequisite: Minimum of "C" or "P" in all DAS courses from 101-111

Corequisite: DAS201

**DAS203 Expanded Assisting I 3 Credits**  
This course is designed to enhance the principles and skills of restorative assisting. Emphasis is placed on expanded functions in the area of operative dentistry and other functions as governed by the Ohio State Dental Practice Act. This is accomplished through theory and on-campus laboratory sessions.

Theory 2 hours - Lab 6 hours

Lab fee includes liability coverage

Prerequisite: Admission to EFDA Program

**DAS204 Expanded Assisting II 2 Credits**  
This course is a continuation of DAS203 and provides the student with an opportunity to practice the application of all classes of restorations on the typodont. Emphasis also is placed on topics relating to the Expanded Functions Dental Auxiliary (EFDA) Registration Examination in the state of Ohio.

Theory 1 hour - Lab 6 hours

Lab fee includes film badge service

Prerequisite: DAS203

**DAS205 Directed Clinic Practice 1 Credit**  
This planned, supervised and evaluated experience is taken concurrently with and includes the application of knowledge and skills learned in DAS204. The student, under the supervision of a licensed dentist and a clinical supervisor, will restore patients' teeth in the dental setting. Emphasis is placed on restoring metallic and non-metallic restorations. Other clinical procedures permitted by the Ohio State Practice Act may also be performed at the discretion of the dentist. The student is required to provide five restorative patients.

Clinic 7 hours

Prerequisite: DAS203

Corequisite: DAS204

## DESIGN ENGINEERING TECHNOLOGY

**DES110 Drafting I 3 Credits**  
This is a basic course in freehand and mechanical drawing. Emphasis is on drafting theory, conventional practices and techniques. Course content includes lettering, lines, sketching, use of equipment and materials, geometric constructions, orthographic projection, dimensioning, primary auxiliary views, sections, isometric pictorials and overview of CAD.

Theory 3 hours

Fall Only

**DES111 Drafting II 3 Credits**  
In this mechanical drafting class, topics include use of drafting equipment, geometric construction, fasteners, tolerance dimensions and working drawings. This is mechanical drawing class and basic drafting tools will be required.

Theory 3 hours

Spring Only

Prerequisite: DES110 or instructor approval

**DES115 Computer Aided Design I 3 Credits**  
Computer-aided drafting (CAD) is introduced. Students learn to use and operate the CAD system to prepare drawings according to drafting industry standards.

Theory 3 hours

Spring Only

Prerequisite: DES110

**DES201 Electrical Drafting 2 Credits**  
An introduction to the fundamentals of electrical/electronics drafting is given with the purpose to acquaint the student with the symbolism and diagrams used in the electrical/electronics field. This is a mechanical drawing class and basic drafting tools will be required.

Theory 2 hours

Spring Only

Prerequisite: DES110 and DES115 or instructor approval

**DES210 Descriptive Geometry****2 Credits**

Solving spatial problems by projections, visualizing space conditions and analyzing a given situation are topics covered in this course. The elements that are of concern are points, lines and planes. A direct application is made of orthographic projection methods and geometric figures. This is a mechanical drawing class and basic drafting tools will be required.

Theory 2 hours

Fall Only

Prerequisite: DES111 or instructor approval

**DES215 Computer Aided Design II****2 Credits**

This is a continuation of DES115 with emphasis on application. The construction of working drawings (orthographic projection, pictorials and diagrammatic representation) utilizing the computer equipment is studied and practiced. This course will have a project completed by a team of students as a capstone to their degree.

Theory 2 hours

Fall Only

Prerequisite: DES115 or instructor approval

**DES220 Structural/Architectural Drafting****2 Credits**

This is a course dealing with the conventional practices and procedures necessary in graphically describing structures. A set of drawings for a residence is constructed. Drawings also are made for steel and masonry construction. This is a mechanical drawing class, and basic drafting tools and CAD will be used.

Theory 2 hours

Spring Only

Prerequisites: DES111 and DES115 or instructor approval

**DES221 Piping Drafting/Map Drafting****2 Credits**

Working drawings for piping systems and maps used in the engineering/architectural areas are studied and drawn. Topics covered include symbolism and diagrams. This is a mechanical drawing class, and basic drafting tools and CAD will be used.

Theory 2 hours

Spring Only

Prerequisites: DES111 and DES115 or instructor approval

**DES222 Technical Illustration****2 Credits**

The axonometric, perspective and oblique forms of pictorial illustration are studied. Attention is given to the use of templates, dimensions and shading. This is a mechanical drawing class, and basic drafting tools and CAD will be used.

Theory 2 hours

Fall Only

Prerequisites: DES111 and DES115 or instructor approval

**DES225 CAD Animation****2 Credits**

This course is designed to help drafters conceptualize and communicate their design ideas. 3D Studio VIZ is a tool for designers who need to explore three-dimensional design ideas, to work with a variety of CAD programs and data, and to acquire flexibility in how to present their designs.

Theory 2 hours

Prerequisite: DES215 or instructor approval

## DIGITAL MEDIA DESIGN

**DMD201 Digital Images****3 Credits**

The creation, manipulation, and editing of bitmap digital images for use in electronic presentations, the World Wide Web, or desktop publishing is the focus of this course. Students will be use hardware such as flatbed scanners, digital cameras, and color printers and industry standard software such as Adobe *Photoshop*. Students will create a portfolio of independent projects. Additional time beyond regular class time will be required to complete assignments and projects.

Theory 3 hours

Prerequisite: DMD101

## ECONOMICS

**ECO101 Macroeconomics****3 Credits**

The course deals with a basic understanding of the operation of our economic system. Presents a measurement of production, employment and income; demonstrates the role of money supply; relates the importance of international trade; explains current methods of economic analysis and development of economic policies; and explains the role of government in our economy. Course may require participation in outside classroom activities/events that relate to the course outcomes.

Theory 3 hours

**ECO102 Microeconomics****3 Credits**

Content of the course examines specific economic units; households, firms, industries, labor groups; and how these individual units behave in the marketplace. Market structures of pure competition, monopolistic competition, oligopolies and monopolies are examined. Course may require participation in outside classroom activities/events that relate to the course outcomes.

Theory 3 hours

**ECO105 Personal Finance****3 Credits**

This course provides students with an understanding of the fundamentals of personal finance, including budgeting, consumer credit, taxes, insurance, investment, and financial and retirement planning. This course will help the student make informed financial decisions through practical, real-world projects. Course may require participation in outside classroom activities/events that relate to the course outcomes.

Theory 3 hours

Fall Only

**ECO201 Money and Banking****3 Credits**

A study of the framework for the current money and banking environment is given. Monetary and fiscal policy and its limitations and implications are developed. The role of the Federal Reserve System is emphasized. Course may require participation in outside classroom activities/events that relate to the course outcomes.

Theory 3 hours

Spring &amp; Summer Online Only

Prerequisite: ECO101

## EDUCATION

**EDU200 Foundations of Education****3 Credits**

This is an introduction to the profession of education. It is designed to be a survey course for students who are interested in transferring into education programs and related fields. Candidates will explore five major themes: professionalism, diversity, democratic issues/social justice, curriculum and instruction, and finally legal and organizational issues. These themes will provide teacher candidates with a broad understanding of education and schooling in the United States. Ten hours of observation/field work required.

Theory 1 hour

Prerequisite: CSS105

**EDU201 Instructional Technology 3 Credits**

This course is designed to teach future teachers to use multimedia computer systems, as well as other technology in the classroom. It covers basic computer use, word processing, database programs, spreadsheets, Internet and WWW use, web page design, and programming languages. Other areas covered include selecting and using Internet materials, designing multimedia presentations, copyright issues and the impact and interaction of the ethical, societal, educational and technological trends and issues. This class requires two hours of lecture and three hours of lab per week, one of which will be out-of-class lab assignments.

Theory 2 hours - Lab 3 hours

Prerequisite: CIS100P, CIS100S, CIS100W recommended for students with little or no computer experience

**EDU202 Classroom Management 3 Credits**

This course explores classroom organization and management, including lesson and unit planning, effective teaching practices, and assessment of instruction. It also includes discipline, rules and procedures, parental involvement, classroom design, and effective use of technology. Students are expected to develop a classroom management plan they can use in their own classroom. 10 hours of field experience are required.

Theory 3 hours

Prerequisite: CSS105

**EDU203 Literacy, Language, and Phonics 3 Credits**

The purpose of this course is to learn how language is acquired and developed. Listening, speaking, reading, and writing as ways to encode and decode language are studied within cultural contexts. Strategies for addressing learning styles and cultural differences in language use will be studied and practiced. Candidates will learn how human beings acquire literacy and how to foster the development of literate practices. Content reading issues will also be addressed.

Theory 3 hours

Prerequisite: EDU200

Fall Only

**EDU206 Teaching Practicum 2 Credits**

This practicum gives the prospective teacher the opportunity to work in a classroom setting at an off-campus site. The students will put into practice curriculum development methods and models of teaching strategies. The selection and sequence of content and learning activities should progress from more familiar deductive, teacher centered models to student centered models which stress inductive thinking, cooperative learning, modes of inquiry, problem-solving and creative thinking. The course will address the different learning styles and appropriate curriculum development. The practicum must be taken in conjunction with the seminar course and consists of 14 hours a week of practice experience at a variety of teaching levels.

Practicum 210 hours

Prerequisite: CSS105, EDU200

Corequisite: EDU207

Spring Only

**EDU207 Teaching Seminar 1 Credit**

This seminar will focus on the models of teaching and curriculum issues that students will experience during their practicum in the classroom. Students meet one hour each week for discussion and problem solving based on their experiences.

Theory 1 hour

Prerequisite: CSS105, EDU200

Corequisite: EDU206

Spring Only

**EDU210 Children's Literature 3 Credits**

Designed primarily for prospective pre-kindergarten and elementary teachers, this course explores the history, content, and value of poems, stories, and non-fiction written for children. Students will analyze and evaluate these works and learn techniques for involving children in reading and listening. The course will also explore the connection between children's literature and the linguistic, sociological, and psychological development of the child.

Theory 3 hours

Prerequisite: ENG101

**EDU299 Special Topics in Education 1-4 Credits**

This course will allow the offering of a variety of topics on education for teacher who wish to come to the college for continuing education credit courses. Courses on technology, literacy, federal regulations, ethics, discipline, and so on can be offered under this course heading.

Theory 1-4 credit hours

**ELECTRICAL/ELECTRONICS ENGINEERING****ELE101 Circuits I 4 Credits**

A basic understanding of direct current circuit behavior is the main theme for this course. Concepts such as current, voltage and resistance are introduced. Basic circuit principles such as Ohm's Law and Kirchhoff's Law are emphasized. Two linear elements, capacitor and inductor are also studied.

Theory 3 hours - Lab 2 hours

Prerequisite: MTH099 with a minimum grade of "C" or appropriate score on college placement test

Fall Only

**ELE102 Circuits II 4 Credits**

A continuation of ELE101 Circuits I, this course is geared to provide the student with a solid foundation in alternating current circuit principles and analysis. Students will be introduced to the concept of phasors and their application to electrical quantities such as current, voltage, and impedance. Some of the course topics are Phasor analysis, analysis of RLC circuits, sinusoidal response of RLC circuits, resonance, and transformers. Laboratory experiments are designed to promote teamwork and provide an extensive hands-on opportunity for students to put theory into practice.

Theory 3 hours - Lab 2 hours

Prerequisites: ELE101, MTH111

Spring Only

**ELE104 D.C. Machinery 3 Credits**

This course presents the principles of operation and characteristics of the basic types of direct current machines, covers in particular, series, shunt, and compound generators and motors. In addition, the course describes methods for controlling the speed of dc motors, and discusses the basics of dc variable speed drives. Reference manuals and/or data sheets are referred to whenever appropriate. Laboratory experiments are designed to promote teamwork and provide an extensive hands-on opportunity for students to put theory into practice.

Theory 2 hours - Lab 2 hours

Prerequisite: ELE101

Spring Only

**ELE106 Computer Networking I 4 Credits**

This course is semester one of the CISCO Networking Academy Program. This course covers OSI model and industry standards, network topology, IP addressing, including subnet masks, networking components and basic network design.

Theory 4 hours Fall Only

**ELE107 Computer Networking II 4 Credits**

This course is semester two of the CISCO Networking Academy Program. Beginning router configurations, and routed and routing protocols are explained in this class. Hands-on experiments will enforce the material learned in the classroom.

Theory 4 hours Fall Only  
Prerequisite: ELE106

**ELE121 Electronic Circuits 4 Credits**

This course will cover the function and operation of many electronic analog circuits that are found in such systems as: communication systems, test equipment, industrial controls and monitoring units.

Theory 3 hours - Lab 2 hours Fall Only  
Prerequisite: ELE101

**ELE130 Digital Computer Electronics 4 Credits**

This course familiarizes the student with the basic theory and application of a variety of integrated chips. Emphasis is placed on digital-integrated circuit techniques as applied to combinational and sequential devices. Identifying and recognizing the operation of such devices are explored.

Theory 3 hours - Lab 2 hours Fall Only  
Corequisite: ELE101

**ELE202 A.C. Machinery 3 Credits**

This course is designed to enable the student to understand, specify, connect and satisfactorily apply the various existing types of electric motors and generators. Strong emphasis is placed on the use of manuals/data sheets and machine specifications. Lab experiments are based on computational procedures which illuminate and clarify the basis of electrical machine operation and prepare the student for a realistic industrial situation. The intended result is that the student will be competent and comfortable with the requirements to specify the most effective machine for a specific job.

Theory 2 hours - Lab 2 hours Fall Only  
Prerequisite: ELE102

**ELE205 Power Distribution 3 Credits**

The purpose of this course is to provide the student with a basic understanding of electrical distribution and associated power system concepts. Key concepts are presented by stressing applications-oriented theory. Concepts are presented through an "electrical power systems" model which includes power distribution as a key element. The other subsystems of this model include electrical power production, electrical power distribution, electrical power control, electrical power conversion, and electrical power measurement. "Real world" applications and operations are stressed through solving mathematical problems using the basic algebraic and trigonometric applications. *Safety* is a primary factor in working with electrical systems. Emphasis is placed on a compliance with safety codes, such as the National Electrical Code and the National Electrical Manufacturers Association.

Theory 2 hours - Lab 2 hours Spring Only  
Prerequisite: ELE102

**ELE206 Computer Networking III 4 Credits**

This course is semester three of the CISCO Networking Academy Program. Advanced router configurations, LAN switching theory and VLANs, advanced LAN and LAN switched design, Novell IPX, and threaded case studies are studied. Special emphasis will be placed on working with the required networking equipment.

Theory 4 hours Spring Only  
Prerequisite: ELE107

**ELE207 General Instrumentation 3 Credits**

This course is designed to meet the needs of the instrumentation technician who must learn the methods and devices that are used to measure variables in process control. Some of the topics are, measurement errors, pressure, level, flow, temperature, and humidity measurements, and the commonly used instruments for measuring these variables in the industry. Laboratory experiments are designed to promote teamwork and provide an extensive hands-on opportunity for students to put theory into practice.

Theory 2 hours - Lab 2 hours Spring Only  
Prerequisite: ELE102

**ELE208 Industrial Controls 3 Credits**

This course covers theory and application of control components and systems. With the use of manuals, handbooks/equipment specifications, students learn to think through the process of diagram development in connecting control devices from control pilot devices and electromagnetic motor starters to programmable logic controllers. The application area of the course is the field in which most students will be employed and will need knowledge. Consequently, control stations, in the lab, equipped with personal computers and programmable logic controllers are designed to be as state-of-the-art as possible.

Theory 2 hours - Lab 2 hours Fall Only  
Corequisite: ELE202

**ELE214 Programmable Logic Controllers 3 Credits**

This course is a continuation of ELE213, Advanced PLC instructions (Communication, Shift Register, Immediate I/O, Sequencer, PID) and index addressing mode are covered. In the lab, the instructor will provide a realistic situation that will enable the student to apply those instructions.

Theory 2 hours - Lab 2 hours Spring Only  
Prerequisites: ELE208 or instructor approval

**ELE217 Computer Networking IV 4 Credits**

This course is semester four of the CISCO Networking Academy Program. WAN theory and design, WAN technology, PPP, Frame Relay, ISDN, network troubleshooting, national SCANS skills, and threaded case studies are among many other subjects covered in this course. This course is the last course of the CISCO curriculum that prepares the student for the CISCO Certified Networking Associate (CCNA).

Theory 4 hours Spring Only  
Prerequisite: ELE206

**ELE220 Programming and Interfacing Microprocessors and Microcontrollers 4 Credits**

Programming a microcontroller and interfacing a readily available predesigned development board to an industrial application is emphasized. Students develop techniques to write real time code for microcontroller based products, test equipment, and process control applications. CPU instruction set, assembler directives, debugger commands, A/D and D/A conversions, and interfacing techniques are fully explored by using hands-on experiences in the lab.

Theory 3 hours - Lab 2 hours

Fall Only

Prerequisite: ELE130

**ELE222 Microcomputer Organization and Networking 4 Credits**

Study of microcomputer; topics in architecture, operating systems, peripherals, maintaining, troubleshooting and upgrading will be covered.

Theory 3 hours - Lab 2 hours

Spring Only

Prerequisite: ELE130 or instructor approval

**ELE227 Computer Networking V 3 Credits**

This course will cover advanced routing concepts. Topics include: selecting and configuring scalable IP addresses; implementing technologies to redistribute and support multiple, advanced, IP routing protocols such as OSPF, EIGRP, and BGP; configuring access lists; designing and testing edge router connectivity into a BGP network.

Theory 3 hours

Fall Only

Prerequisite: ELE217 or CCNA curriculum Semester 4

**ELE228 Computer Networking VI 3 Credits**

This course will cover remote access networks. Topics include configuring Asynchronous connections; Point-to-Point Protocol (PPP) architecture, protocol, callback, and compression; ISDN architecture, protocol layers, BRI and DDR.

Theory 3 hours

Fall Only

Prerequisite: ELE227

**ELE229 Computer Networking VII 3 Credits**

This course will cover Multilayer switching. Topics include fast Ethernet and Gigabit Ethernet; VLAN basics, types, identification, and trunking protocol; spanning tree protocol; MLS processes; and Multicasting protocols.

Theory 3 hours

Spring Only

Prerequisite: ELE228

**ELE230 Computer Networking VIII 3 Credits**

This course will cover internetwork troubleshooting. Topics include OSI Layers 1, 2, and 3 troubleshooting; TCP/IP, LAN switching, VLANs, Frame Relay, ISDN, Appletalk, Novell, EIGRP, OSPF, BGP.

Theory 3 hours

Spring Only

Prerequisite: ELE229

**ELE231 Fundamentals of Wireless LANs 4 Credits**

The Fundamentals of Wireless LANs course will cover the basics of wireless LANs. The course provides an overview of wireless networking technologies, both fixed and mobile, terrestrial and satellite, wireless LANs, and wireless last loops. The course focuses on wireless clients, access points, and the corresponding Cisco Aironet products. The basics of designing, planning, and installing a wireless LAN will also be covered.

Theory 4 hours

**ELECTRONIC COMMERCE****ECM213 E-Commerce Design/ASP.Net and DHTML 3 Credits**

This course covers Microsoft's server side and client side scripting languages used to generate on-demand Web pages using Active Server Pages and creating interactive Web pages using VBscript. Server Side Include (SSI), the Document Object Model and Cascading Style Sheets (CCS) using are covered. Additional time is required to complete assignments outside of class.

Theory 3 hours

Prerequisite: CIS213 or ECM111

**EMERGENCY MEDICAL SERVICES****EMS106 EMT Intermediate Course 8 Credits**

This course includes teachings involved with patient assessment and the prehospital management of airway, shock and cardiac conditions. Endotracheal intubation, peripheral intravenous access, and limited cardiac monitoring and defibrillation skills are included. Upon successful completion of theory, lab and clinical/field objectives, the student is eligible to apply for National Registry of EMT testing at the EMT-Intermediate level.

Theory/Lab 120 hours - Clinical 10 hours

Prerequisites: Current Ohio EMT-A license; satisfy admission requirements

**EMS108 Paramedic Theory and Practice I 10 Credits**

This course introduces the paramedic student to preparatory issues such as role and scope of the EMS system and paramedic. Paramedic wellness, ethics, medical legal, pathophysiology, and pharmacological issues will be addressed. Advance airway management techniques, patient assessment, and trauma assessment and management will be reviewed. Lab sessions will reinforce the theory component. Clinical education is planned in the emergency department, operating room, and several elective areas.

Theory 8 hours - Lab 4 hours - Clinical 7 hours

Prerequisites: Admission to the paramedic program, program director approval

**EMS109 Paramedic Theory and Practice II 10 Credits**

This course teaches medical conditions in which the paramedic may be called upon to render pre-hospital care. Included are assessment and management of cardiac, respiratory, neurological, environmental, obstetric/gynecological, and various other medical conditions. Lab sessions will reinforce the theory component. Clinical education is planned in the emergency room, critical care, cardiac cath lab, and labor and delivery units, as well as field paramedic units.

Theory 8 hours - Lab 2 hours - Clinical 7 hours

Prerequisite: EMS108

**EMS110 Paramedic Theory and Practice III 5 Credits**

This course teaches the paramedic special conditions which may be encountered in the field such as neonatology, pediatrics, special challenge patients, as well as assessment-based management, and EMS operations issues including incident command, rescue operations, haz-mat operations, and crime scene considerations. Lab sessions will reinforce the theory component. Clinical education is planned in the emergency room and field paramedic units which includes a field summative evaluation.

Theory 3 hours - Lab 2 hours - Clinical 8 hours

Prerequisites: EMS109

**EMS111 EMT-I to Paramedic Fast Track 5 Credits**

This course is designed to allow the Ohio certified EMT-Intermediate to complete EMT-Paramedic training without completion of EMS108. This course will allow recognition of the EMT-Intermediate training already completed, and to cover needed topics allowing quicker advancement to paramedic. Topics of study includes pathophysiology, advanced airway, medications/pharmacology, trauma review, medication administration, and associated labs.

Theory 3 hours - Lab 3 hours - Clinical 7 hours

Prerequisites: Program director approval, currently certified Ohio EMT-Intermediate, EMS106 (or old EMS100 and EMT-I transitional course) must have completed this course work at JCC, EMS107 (or equivalent: BIO102), EMS109

**EMS201 EMS Instructor Course 5 Credits**

This course is designed for the certification of EMS instructors in the state of Ohio. The program will provide the student with instruction in adult learning, lesson plan design and development, media selection, instructional strategies, evaluation tools and techniques, and instructor presentation skills. It also provides a teaching internship, as well as an orientation to the state rules, regulations, and policies as it applies to EMS instruction. Candidates must successfully pass an Ohio EMS Division Techniques Exam upon course completion and meet any other specified requirements prior to certification as an EMS instructor as prescribed by the Ohio EMS Division.

Theory/Lab 7 hours - Practicum 10 hours total

Prerequisites: Possess a current Ohio certificate to practice as a first responder, EMT, EMT-I, EMT-P or is a registered nurse who holds a license to practice; at least five out of the last seven years experience as a first responder, EMT, EMT-I, EMT-P or registered nurse; pass a written exam as provided by the Ohio Division of EMS at the level of the individual's certificate to practice with a minimum score of 75 percent; an applicant who is a RN must pass an exam at the paramedic level; pass a practical exam for the level of certification as prescribed by the Ohio Division of EMS; program director approval

**ENGINEERING TECHNOLOGIES****EGT290 IT and Engineering Seminar 1 Credit**

Taken in conjunction with EGT291, the course is a means of communication between the practicum instructor and the students. Representatives from various industries will present topics such as proper interviewing techniques, resume writing, etc. A student will not ordinarily be permitted to take this course or the associated course, EGT291, unless 46 credit hours have been achieved.

Seminar 1 hour

Spring Only

**EGT291 IT and Engineering Practicum 1-2 Credits**

Students receive practical on-the-job knowledge of the application of information and engineering technology principles. A student ordinarily will not be permitted to take this course unless 46 credit hours have been achieved or the permission of instructor.

Practicum - A minimum of 105 hours per credit hour

Corequisite: EGT290

Spring Only

**EGT299 Special Topics in Information Technologies 1-4 Credits**

This course is designed to introduce topics of special interest as well as new technologies. Students will have the opportunity to study technical subject matter not covered in other courses. This course may be used as a technical elective by any student pursuing an engineering technology degree or certificate. May be repeated; however, those students repeating the same "Special Topics" course must notify the registrar.

Theory 1-4 hours

Prerequisite coursework and/or instructor approval may be required

**ENGLISH/LITERATURE****ENG081 General English\* 5 Credits**

General English is designed to develop language and writing skills in students entering college. This course is considered a prerequisite for ENG093 for certain students as determined by the COMPASS placement testing. Topics covered may include a review of the parts of speech, fragments, run-ons, simple, compound and complex sentences, subject-verb agreement, capitalization, punctuation, misplaced modifiers, dangling modifiers, and parallelism. Word usage and spelling also may be covered. Successful completion of the program is determined by post-testing and using the placement test.

Theory 5 hours

\* Course not counted toward graduation

**ENG082 General Reading\* 5 Credits**

General Reading is an individualized program designed to develop reading skills in students entering college. This course is considered a prerequisite for ENG091 for certain students as determined by the COMPASS placement testing. After additional testing to determine reading level, activities are planned to improve vocabulary and literal and inferential comprehension as needed. Successful completion of the program is determined by post-testing and using the COMPASS placement test.

Theory 5 hours

\* Course not counted toward graduation

**ENG093 Introduction to College English\* 3 Credits**

This course is designed to develop basic writing skills. The course reviews composition, reading comprehension, and Standard English strategies. The student must produce several writings. The writing lab and word processing are used. Course may require participation in outside classroom activities/events that relate to the course outcomes.

Theory 3 hours

\* Course not counted toward graduation

**ENG101 English Composition I 3 Credits**

This course is designed to improve writing skills and to introduce basic research skills. Emphasis is placed on writing that is appropriate to the situation and audience in content, organization, tone, and style. Students learn the strategies associated with composing: brainstorming, freewriting, clustering, drafting, revising, editing, and proofreading. Students are required to produce a variety of essays demonstrating skill, and are introduced to library and on-line research methods. A short research paper using MLA documentation is required. Course may require participation in outside classroom activities/events that relate to the course outcomes.

Theory 3 hours

Prerequisite: placement testing

**ENG102 English Composition II 3 Credits**

This course is designed for transfer and associate degree students in science and arts. The course focuses on argument and on how to approach essay writing and essay exams in the various disciplines. Students read and respond to essays, articles, and literature that illustrate argument and/or the various academic disciplines. Students are required to produce writing demonstrating these skills. Students are introduced to APA, CBE, and Chicago styles of documentation, and are required to produce a full-length research paper.

Theory 3 hours

Prerequisite: ENG101

**ENG103 Business Communications 3 Credits**

This course is designed to cover the writing projects that are required in the business world. Writing projects focus on business communication needs such as memos, letters, requests, order, and electronic mail. Topics include proper format, psychology of "customer service," job interviewing techniques, legal issues of the workplace, resume writing, and on-line research techniques. A researched business report is required.

Theory 3 hours

Prerequisite: ENG101 or instructor approval

**ENG104 Technical and Professional Writing 3 Credits**

This course is especially geared to students in technologies. The course is writing-intensive and requires a full-length research paper on a technical subject or a full-length study presented in a manner appropriate to the sciences. It also requires the writing of technical documents such as proposals, instruction, feasibility and informational reports, letters, and memos. Collaborative projects are also included along with correct formatting, electronic communication requirements and issues, and the use of graphic aids in workplace documents.

Theory 3 hours

Prerequisite: ENG101 or instructor approval

**ENG 121 Writing for Publication 1 Credit**

This course is available for students who wish to have an in-depth criticism of a manuscript or other publications. Also covered will be a survey of writers' markets and the manuscript submission process. Open to writers of the college's literary magazine also. Course may require participation in outside classroom activities/events that relate to the course outcomes.

Theory 1 hour

**ENG151 Creative Writing 3 Credits**

This course will introduce students to basic techniques and styles used by poets and fiction writers. Students will develop a portfolio of their own writings. Invention exercises and strategies will be emphasized, along with elements of style, plot, character development and theme. Students will also study the works of published writers as models. Course may require participation in outside classroom activities/events that relate to the course outcomes.

Theory 3 hours

Fall Only

Prerequisite: ENG101 or demonstrated writing skills

**ENG152 Creative Writing and Publication 3 Credits**

This course will continue the work begun in ENG151, emphasizing the writing of publishable works. Students will complete, revise, polish, and edit works from ENG151, and will learn the procedures involved in publication, i.e. writing query letters, researching publishers, and finding out about the role of agents. Course may require participation in outside classroom activities/events that relate to the course outcomes.

Theory 3 hours

Fall Only

Prerequisite: ENG101 or demonstrated writing skills

**ENG153 Grant Writing Seminar 2 Credits**

In this seminar the student will meet twice a week for one hour to discuss practicum work and receive instruction in researching and writing grants. This class is to be taken in conjunction with ENG154 Grant Writing Practicum.

Theory 2 hour

**ENG154 Grant Writing Practicum 1 Credit**

This class is taken in conjunction with ENG153 Grant Writing Seminar. Students will spend seven hours a week working for an organization on grant research and writing under the direction of the instructor.

Theory 1 hour

**ENG201 Introduction to Literature 3 Credits**

This course introduces students to major forms of literature—poetry, drama, short stories, novels, and/or film—and has them responding to these works with critical thought combined with personal insight and interpretation. Emphasis is on articulating responses and analyses through journal writing, in-class short essay responses, classroom discussions, and out-of-class essays. Course may require participation in outside classroom activities/events that relate to the course outcomes.

Theory 3 hours

Fall Only/Summer Online Only

Prerequisite: ENG101 or demonstrated writing skills

**ENG202 Survey of World Literature 3 Credits**

Explores the great works of world literature in their historical contexts so that students may discover the variety and development of human thought and feeling in various cultures. Works of the Classical, Medieval, and Renaissance periods as well as the Neoclassical, Romantic, Modern, and Post-Modern eras in Europe as well as those from Asia, Africa, and Latin America will be covered in this course. Readings will include the forms of poetry, drama and fiction. This is a writing-intensive course requiring outside papers and essay tests. Approximately 80 percent of the course is devoted to the study of literature, while 20 percent of the course will be devoted to research projects and literary criticism.

Theory 3 hours

Prerequisite: ENG101 or demonstrated writing skills

**ENG203 Special Topics in Literature 3 Credits**

This course will offer fiction, poetry, essays and drama selected for specific college programs or career areas. Possible special topics might include: business literature, children's literature, women in literature, ethics in the business world, industrialization and the individual, and the environment. Course may require participation in outside classroom activities/events that relate to the course outcomes.

Theory 3 hours

Prerequisite: ENG101 or demonstrated writing skills

**ENG205 Women in Literature 3 Credits**

A survey of the images of women in literature from an historical, critical and thematic perspective is offered. Course focus will be on the stories, poems, and plays in American and British literature. Course may require participation in outside classroom activities/events that relate to the course outcomes.

Theory 3 hours

Prerequisite: ENG101 or demonstrated writing skills

**ENG207 Film and Literature 3 Credits**

This course will examine the various and complex relationships between literature and film. The language of film, the ways film has and does borrow from literature, and the criteria for artistic merit of a film will be studied. Course may require participation in outside classroom activities/events that relate to the course outcomes.

Theory 3 hours

Prerequisite: ENG101 or concurrent enrollment

**ENG208 Short Stories 3 Credits**

A study of short fiction from significant writers on six continents, the course focuses on theme and character analysis, plotting and style features. Course may require participation in outside classroom activities/events that relate to the course outcomes.

Theory 3 hours

Fall Only

Prerequisite: ENG101 or demonstrated writing skills

**ENG212 Environmental Literature 3 Credits**

The focus of this course is on the reading of essays, poems, stories and plays that explore environmental issues or that examine the relationship between human beings and their environments.

Theory 3 hours

Prerequisite: ENG101 or demonstrated writing skills

**ENG213 World Mythology 3 Credits**

This course surveys and compares myths from Greek, Roman, Chinese, Japanese, Scandinavian, Indian and Australian cultures. Significant mythic personages, themes and plotlines are studied for literary and cultural impacts and heritages. Course may require participation in outside classroom activities/events that relate to the course outcomes.

Theory 3 hours

Prerequisite: ENG101 or demonstrated writing skills

**ENG215 Social Issues in Literature 3 Credits**

This course explores plays, poetry, film, short stories, and essays. The emphasis will be placed on examining these works from the unique perspectives of social issues and themes. Such themes will include ethics, morality, satisfying work, happiness and success, and the culture of society. Course may require participation in outside classroom activities/events that relate to the course outcomes.

Theory 3 hours

Prerequisite: ENG101 or demonstrated writing skills

**ENG220 Modern Poetry 3 Credits**

Focus is on the study of modern poetry and its dominant themes. This course will also analyze the forms, images and sounds of poetry. Course may require participation in outside classroom activities/events that relate to the course outcomes.

Theory 3 hours

Spring Only

Prerequisite: ENG101 or demonstrated writing skills

**ENG222 Science Fiction Literature 3 Credits**

A survey of major works of science fiction literature, this course is designed to explore our culture's evolving attitude toward technology and the role it plays in our lives. Course may require participation in outside classroom activities/events that relate to the course outcomes.

Theory 3 hours

Prerequisite: ENG101 or demonstrated writing skills

**ENG223 Shakespearean Plays 3 Credits**

A study of some of Shakespeare's representative tragedies and comedies is offered. Focus will be on the theme, plot and motifs of each play, with some discussion of the background and history of the plays. The course also will examine how the themes of these plays are echoed in modern works of drama and fiction. Course may require participation in outside classroom activities/events that relate to the course outcomes.

Theory 3 hours

Prerequisite: ENG101 or demonstrated writing skills

**ENG230 Advanced Composition and Rhetoric 3 Credits**

This course is primarily for English majors or students interested in language and writing. The course will advance the student's understanding of and give the student practice in the use of language to achieve rhetorical purposes and effects. The student also will be introduced to language issues, problems, and theories via reading and discussion. Course may require participation in outside classroom activities/events that relate to the course outcomes.

Theory 3 hours

Spring Only

Prerequisites: ENG101, ENG102

**ENG251 American Literature 3 Credits**

This course is an examination of various writers and their styles from the historical standpoint from the early American period in the 17th century to the present. The student will gain an appreciation of our literary heritage and writing styles through active classroom discussions and sharing personal interpretations from the reading of various works in different genres. Course may require participation in outside classroom activities/events that relate to the course outcomes.

Theory 3 hours

Spring Only/Summer Online Only

**ENG252 Survey of British Literature I: 7th Century to 1789 3 Credits**

This course will study major British works from the Anglo-Saxon period to the late 18th century. In addition to reading and interpreting a wide variety of literature, the course also will focus on the literary movements and culture of this period. Critical writing will be required. Course may require participation in outside classroom activities/events that relate to the course outcomes.

Theory 3 hours

Prerequisite: ENG101

**ENG253 Survey of British Literature II: 1789 to 21st Century 3 Credits**

This course will study major British works from the late 18th century to the modern period. In addition to reading and interpreting a wide variety of literature, the course also will focus on the literary movements and culture of this period. Critical writing will be required. Course may require participation in outside classroom activities/events that relate to the course outcomes.

Theory 3 hours

Prerequisite: ENG101

**ENG260H Honors Nature in American Literature 3 Credits**

This Honors Course in Literature will explore the relationship between nature and literature in America from the 1600's to the present day, including some early Native American Literature. Besides reading works by American authors, students will also read some British literature that deals with nature so we can analyze different views of nature between the two countries. Readings will include poetry, short stories, essays and novels. In addition, student learning will be assessed through essay exams and an in-depth research paper. Students will also give in class seminar reports to share their scholarship with other students.

Theory 3 hours

Prerequisite: Admission to Honors Program or permission of instructor

**ENG265H Non-Western Literature for Honors Students 3 Credits**

This course offers students an opportunity to explore the culture and history of the world through a survey of ancient, classic, and modern literature written in the non-Western world. Literature from South America, Africa, and Asia and the Pacific Islands will be highlighted, with a focus on postcolonial criticism. Please note that honors courses move at an accelerated pace, cover more ground than the traditional course, and offer students the opportunity to hone their critical thinking and analytical writing skills. Additionally, these courses are meant to facilitate a seminar-like environment through close academic interaction with faculty and other honors students.

Theory 3 hours

Prerequisite: ENG101, any 200 level literature class

**FINANCE****FIN103 Broker Preparation I 3 Credits**

This course familiarizes the student with the function of the primary and secondary exchanges and markets, including the many procedures surrounding them and the rules and regulations governing them. Various types of securities, bonds, and other obligations, how they are traded, and the duties and responsibilities of the broker are detailed. Special attention is given to helping the student understand exactly how various types of securities fluctuate, and erasing inaccurate but popular beliefs. Other topics covered include interest rates bond maturity and yield. This is the first course of two that prepares the student for the Series 7 Licensure examination.

Theory 3 hours

**FIN203 Broker Preparation II 3 Credits**

This course explains how investment companies function. Various categories of long-term investments and retirement plans are explained, including both individual and corporate, as well as the taxation effects of each. An extensive look is taken at assessing clients' needs and suitability, based on factors such as investment objectives and risk tolerance. This course also explains the various types of technical market theories, and how they influence analysis of securities. Other topics covered include the Federal Reserve system, fiscal and monetary policies, and interpreting balance sheets and various other financial statements. This is the second course of two that prepares the student for the Series 7 Licensure examination.

Theory 3 hours

Prerequisite: FIN103

**FIN227 Current Topics in Banking and Finance 1-4 Credits**

Designed for those entering the banking profession and banking professionals, this course examines one or more of the following topics: commercial bank fund management, financial institution management, regulatory environment of banking, trust management, or other topics of current interest to the profession.

Theory 1-4 hours

Theory and/or lab hours assigned based on topics offered

Prerequisite: FIN201 or dean approval

**FORENSICS****FOR200 Police Photography/Surveillance 3 Credits**

The principles of photography and surveillance and their application to police work are studied. The student will become proficient in photographing, darkroom techniques and surveillance techniques.

Theory 2 hours - Lab 2 hours

**FOR201 Fingerprint Classification/Identification 3 Credits**

This course will provide the student with information and techniques about fingerprint classification/comparison and identification of known and latent prints connected with crime scenes. Newly developed methods utilizing both chemical and instrument technology are included in the laboratory sessions.

Theory 2 hours - Lab 2 hours

Prerequisite: Program director approval

**FOR205 Contemporary Topics: Forensics 3 Credits**

A special forensic technician course designed to present a student in criminal justice (forensic technician, law enforcement, and corrections) with select topics covering contemporary developments in the area of forensics. Topics may include but are not limited to: blood splatter analysis, drug identification (field), firearms and toolmark identification, document identification, poroscopy (fingerprints), and footwear impressions.

Theory and/or lab hours assigned based on topics offered

**FOR205A Forensic Microscopy 3 Credits**

A special forensic technician (criminalist) course designed to present the student with information and techniques in the use of the compound, stereo and comparison microscopies to determine class and individual characteristics. This course will include but is not limited to: hairs, fibers and paint chips found at the crime scene.

Theory 2 hours - Lab 2 hours

**FOR205B Bloodstain Pattern Analysis 3 Credits**

A special forensic technician (criminalist) course designed to present the student with information and techniques used to identify, document, preserve, reconstruct and interpret bloodstain splatter evidence found at the crime scene.

Theory 2 hours - Lab 2 hours

**FOR205C Forensic Blood Evidence 3 Credits**

This course will cover in detail various aspects of blood analysis in the forensic laboratory. Topics include but are not limited to: serology, DNA and forensic toxicology.

Theory 3 hours

**FOR206 Forensic Photography****3 Credits**

This advanced course is designed for the criminal justice student with a basic knowledge of camera techniques, police photography and laboratory techniques. It will cover procedures necessary to produce photographs that portray evidence in an absolutely honest and stark manner. The following investigative analysis, special procedures and advanced techniques of criminalistic photography will be covered: filters, infrared, ultraviolet, X-ray, photomicrography, photomacrography, microphotography, videotape, computer imaging, stereoscopic and special lighting techniques. Camera and equipment will be furnished.

Theory 2 hours - Lab 2 hours

Prerequisites/corequisites: CJT100, CJT206, or instructor approval

**FOR207 Arson Investigation****3 Credits**

This course covers the history, development and philosophy of fire investigation and detection, including inspection techniques, gathering of evidence, development of technical reports, fundamentals of arson investigation, and the processing and criminal procedures related to various state and local statutes.

Theory 2 hours - Lab 2 hours

**FOR208 Introduction to Forensics****3 Credits**

An introduction to the scientific discipline directed at the recognition, identification, and evaluation of physical evidence through application of the natural sciences to the investigative process. Emphasis is placed on the laboratory analysis of evidence.

Theory 2 hour - Lab 2 hours

**FRENCH****FRN101 Elementary French I****4 Credits**

This course promotes the understanding, speaking, reading and writing of the French language for the student with no previous experience with the language of French.

Theory 4 hours

**FRN102 Elementary French II****4 Credits**

This continuation of Elementary French I includes advanced understanding of the French language and French culture.

Theory 4 hours

Prerequisite: FRN101

**GENERAL SCIENCE****GSC101 Introduction to Physical Science****4 Credits**

An introduction to the fundamental principles of chemistry, physics and nuclear physics is offered. Intended for the non-science major, this course requires a minimum of science or mathematics background.

Theory 3 hours - Lab 2 hours

Not open for credit toward graduation in science, health, or engineering areas

**GSC102 Science and the Environment****4 Credits**

For the non-science major, an introductory course concerned with the science concepts behind the 20th and 21st century environmental issues such as the ozone layer, global warming, acid rain and others. Chemical phenomena methodology and theory are set in the context of social, political and economic issues. Laboratory activities familiarize each student with basic analysis techniques.

Theory 3 hours - Lab 2 hours

Not open for credit toward graduation in science, health, or engineering areas

**GSC110 Energy and Society****4 Credits**

For the non-science major, an introductory course in the physics principles behind societal uses of energy. Topics cover natural resources, environmental problems, traditional and alternative energy systems and energy conservation.

Theory 4 hours

Not open for credit toward graduation in science, health, or engineering areas

**GSC299 Special Topics in Science****1-4 Credits**

This course is designed to introduce topics of special interest as well as new technologies. Students will have the opportunity to study scientific subject matter not covered in other courses. Course may be repeated; however, those students repeating the same "Special Topics" course must notify the registrar. Prerequisite coursework and/or permission of the instructor may be required.

Theory 1-4 hours

**GEOGRAPHY****GEO101 World Geography****3 Credits**

A study and comparison of geographic conditions and differences as they relate to social, cultural, economic and political developments. Selected world regions will be studied.

Theory 3 hours

**GEOLOGY****GEL111 Earth Science****4 Credits**

An introduction to the fundamental principles of astronomy, geology, meteorology and oceanography. A review of the geologic time line also will be included.

Theory 4 hours

Not open for credit toward graduation in science, health, or engineering areas

**GEL112 Geology of National Parks****4 Credits**

This course will highlight the geological features of many of the National Parks in the United States. The history, location, basic geology and Native American experiences will be covered.

Theory 4 hours

Not open for credit toward graduation in science, health, or engineering areas

## GERIATRICS

### GER102 Activities Director 6 Credits

This course is designed to provide specialized entry-level skills necessary for the employment as an activities director or the administration of an activity program as required by the Ohio Department of Health. Emphasis is placed on understanding residents and the aging process, causes of disorientation, evaluating outcomes as they relate to activities and education of older adults in the nursing home setting.

Theory 3 hours - Lab 6 hours

## GERMAN

### GRM101 Elementary German I 4 Credits

This course promotes the understanding, speaking, reading and writing of the German language for the student with no previous experience with the German language. It includes learning about German culture and history.

Theory 3 hours - Lab 2 hours

### GRM102 Elementary German II 4 Credits

This course is a continuation of Elementary German I and includes more advanced understanding of the German language and culture.

Theory 3 hours - Lab 2 hours

Prerequisite: GRM101 or proficiency

## HEALTH INFORMATION

### HIM103 Introduction to Coding Systems 3 Credits

This course introduces students to the ICD-9-CM classification system, various nomenclature and classifications will be reviewed. Emphasis will be placed on applying coding convention and the use of ICD-9-CM books in the lab setting. Reimbursement issues (inpatient vs. outpatient), DRGs, Medicare/Medicaid and third party reimbursement will be covered.

Theory 2 hours - Lab 2 hours

Prerequisites: BIO101 and HSC101 or professional work experience (minimum of one year working in a doctor's office) or instructor approval

### HIM112 Health Care Statistics 3 Credits

The impact of health care statistics on the health care community (local and national) will be examined. Methods of data retrieval from available sources in conjunction with formulas designed for the tabulation of health statistics are used to express health care data. Additional topics include: organization of data measure of central tendency, variability and normal distribution.

Theory 3 hours

Prerequisite: MTH092 or equivalent

### HIM210 Advanced Coding 3 Credits

Case scenarios are utilized. Emphasis is placed on selection of the principal diagnosis and principal procedure. Diagnosis-related groups (DRGs) and ambulatory patient groups (APGs) will be studied. Coding in non-acute settings will be highlighted.

Theory 2 hours - Lab 2 hours

Prerequisites: HIM103, HSC101, or instructor approval

### HIM214 CPT-4 Procedural Coding 3 Credits

This course will introduce CPT-4 coding and HCPCS (medical/surgical supplies ordering) codes in the hospital and physician's office environment. Case histories will be used as the student explores reimbursement of medical testing, surgical procedures and ambulatory care.

Theory 2 hours - Lab 2 Hours

Prerequisite: HSC101 or professional work experience (minimum of one year working in a doctor's office) or instructor approval

### HIM215 Quality Assurance/Improvement 3 Credits

Quality assurance (QA), utilization review (UR), risk management and total quality management (TQM), and their collaboration with health care as a facilitywide process will be studied. Review programs, retrospective, concurrent and quantitative/qualitative are emphasized. JCAHO and other certifying/licensing agencies regulations as they pertain to specific types of health care facilities are studied.

Theory 3 hours

## HEALTH SCIENCES

### HSC101 Medical Terminology 2 Credits

This course is designed to equip the student with a working knowledge of the most common root words, prefixes and suffixes in medical terminology. Emphasis is placed on spelling, pronunciation, use of the medical dictionary, vocabulary building and common abbreviations. This course is offered as a self-paced tradition or online course.

Theory 2 hours

Prerequisite: Completion of CRS091, CRS100, CRS102

if required by placement testing and computer literacy; a minimum grade of "C" is required for all health students

### HSC102 First Aid/CPR 1 Credit

Knowledge and skills that are needed for the emergency care of the injured and ill until medical care can be obtained are presented. The prevention of disease transmission and accidents is included. The student also demonstrates first aid techniques and cardiopulmonary resuscitation. Attendance at all scheduled class sessions is mandatory in order to satisfy course requirements. Bloodborne Pathogen, First Aid Cards and CPR/AED are issued after satisfactory completion of course requirements.

Theory/Lab 20 hours total

### HSC103 Law and Ethics 1 Credit

Legal aspects including legislation, statutes, licensure, malpractice and arbitration are presented. Ethical conduct, issues and bioethics also are covered with application in the medical office.

Theory 1 hour

### HSC104 Medical Insurance 2 Credits

This course is designed to present a practical approach to insurance billing. The student will abstract information from patient records to complete an insurance claim accurately. Content includes basic medical and insurance abbreviations and terms; the most characteristic types of insurance coverage available in the U.S. (unemployment compensation, disability, worker's compensation, industrial insurance, federal Medicare, state Medicaid, group plans such as Blue Cross and Blue Shield, and Campus); computerized billing; and the physician's personal insurance.

Theory 2 hours

**HSC106 Business Administration-Health Office 3 Credits**

This computerized medical office practices course includes scheduling of patients, filing, typing and transcription techniques necessary to keep accurate financial records. Insurance forms as well as hospital forms will be included. The use of CPT-4 and ICD 9 Codes will be used to complete medical, patient and insurance records on a computer.

Theory 2 hours -- Lab 2 hours

Corequisites: HSC101, OIT102

**HSC108 Nurse Aide TCE Program 5 Credits**

This course is designed to provide specialized entry-level employment with long-term nursing/health care and retirement agencies as a nurse aide. The nurse aide is responsible for providing direct resident care under supervision of a registered nurse. The program provides theory, laboratory practice, and supervised patient care (clinical) as required by the Ohio Department of Health. After successful completion of the entire course, the student will be eligible to take the Ohio competency examination.

Theory 4.5 hours - Lab 0.5 hours

Prerequisite: Based college placement test

**HSC109 Introduction to Homemaker-Home Health Aid 1 Credit**

This course is designed to provide specialized entry-level employment with assisted living agencies as a home health aid. Curriculum includes the four sections of the National Home Caring Council's requirements for sitting for the national exam: maintaining a clean, safe and healthy home environment; food and nutrition; managing time, energy, money and other resources; and home maintenance when disease is present. Topics include the general guidelines for cleaning a house, nutritional problems of the aged and ill (including modified diets), use of resources and infectious disease control. After successful completion of the entire course, the student will be eligible to take the national competency examination.

Theory 1 hour

Prerequisite: HSC108 or advisor approval

**HSC110 Special Topics in Electrocardiography 2 Credits**

In this course, the student will learn the basic anatomy and physiology of the heart; the theory and practice of the EKG; and how to interpret basic arrhythmias. The student also will learn how to prepare a patient physically and psychologically for an EKG, and how to recognize and correct artifacts.

Theory 1 hour - Lab 2 hours

**HSC114 Women's Health 3 Credits**

This course will provide a wholistic view of women's health issues, including the life cycle, health promotion and maintenance, and psychosocial issues. Each topic will include the unique qualities and needs of women with regard to health. Topics may include birth control, pregnancy, menopause, diet, exercise, violence, self-esteem and relationships.

Theory 3 hours

**HSC115 Stress Management 1 Credit**

This course will provide a wholistic view of stress, including the physical, mental, emotional, social and spiritual factors which cause stress. The student will learn how to recognize the symptoms of stress, and learn effective and constructive ways of coping with the effects of stress. Topics may include wellness, nutrition, eating disorders, communication skills, depression and anger, self-esteem, relaxation techniques and job burnout.

Theory 1 hour

**HSC116 Principles of Wellness 3 Credits**

This interdisciplinary course will emphasize the importance of self-responsibility and lifestyle choices which promote good health and overall wellness. The physical, mental, social, spiritual, emotional and occupational dimensions of wellness will be addressed. Topics will include nutrition, exercise, stress management, relationships, self-esteem, career satisfaction, self-care and other areas related to the wholistic health of the individual.

Theory 3 hours

**HSC117 Weight Management 1 Credit**

This course will discuss the three basic elements of successful, long-term weight management: proper diet and nutrition, physical exercise and behavioral changes. Topics also will include eating disorders, fad diets and body image.

Theory 1 hour

**HSC119 Respiratory Care Monitoring 1 Credit**

This course will assist health care professionals, especially nurses, in broadening their knowledge of respiratory care monitoring. Topics may include respiratory physical assessment, capnography, oximetry, ventilator monitoring, airway care and home respiratory care.

Theory/Lab 20 hours total

**HSC120 Point-of-Care Testing 1 Credit**

This course will identify new technologies in point-of-care testing being used in intensive care units, emergency rooms and operating rooms, as well as skilled nursing facilities, hospices, etc. Laboratory evaluations and regulations in blood gas, glucose, electrolyte, cardiac markers and coagulation testing at or near the bedside will be discussed.

Theory/Lab 20 hours total

Prerequisites: successful completion of HSC111, HSC112 (C or above) or proof of phlebotomy skills

**HSC202 CPR Instructor Course 1 Credit**

This course teaches the knowledge and instructional methods used in conducting a Basic Life Support (BLS) class according to the American Heart Association (AHA). The course completion card is issued for two years.

Theory/Lab 20 hours total

Prerequisite: current AHA-Health Care Provider (HCP) or American Red Cross Professional Rescuer CPR card; an understanding of BLS instructor retraining requirements

## HISTORY

**HIS101 World Civilization I 3 Credits**

This course provides an overview of human cultural development from earliest times to 1700. Emphasis will be on the musical, artistic, religious, and cultural achievements of these groups. Key individuals, societies, and historic developments will also be examined.

Theory 3 hours

**HIS102 World Civilization II 3 Credits**

This course provides an overview of human cultural development since 1500. Emphasis will be on the musical, artistic, religious, and cultural achievements of these groups. Key individuals, societies, and historic developments will also be examined.

Theory 3 hours

**HIS104 U.S. History - The Formative Period 3 Credits**

A survey of United States history through 1877, the course covers the description and analysis of the major factors accounting for the transformation of the earliest settlements into a sovereign national power. Emphasis is placed on the role of immigration and the economic and political forces that shaped the United States.

Theory 3 hours

**HIS105 U.S. History - The Modern Period 3 Credits**

A survey of United States history since 1877 is offered in this course which covers the description and analysis of the rise of corporations, the development of an urban labor force, the changing role of government, and the integration of the United States into a global political and economic system.

Theory 3 hours

**HIS107 History of Labor in America 3 Credits**

This course provides the student a general study of the history of labor in America from colonial period to the present. Included is the study of labor systems in America and what events in history formed the labor system into what it is today.

Theory 3 hours

**HIS109 History of Soviet Russia 3 Credits**

Students will study, in general, the events that transformed Russia into the Soviet Union and the history of the nation until its demise and where it is today.

Theory 3 hours

**HIS110 History of Modern Europe 3 Credits**

This course analyzes the modern political, social and economic changes that have occurred in Europe from World War I to the present including the influences of the U.S. on the development of European societies.

Theory 3 hours

**HIS112 Great Women in History 3 Credits**

A study of women who have influenced the history of the world including their social, political and economic impact from BC to the present.

Theory 3 hours

**HIS115 Great Men in History 3 Credits**

A study of men who have influenced the history of the world including their social, political and economic impact from BC to the present.

Theory 3 hours

**HIS118 Renaissance and Reformation 3 Credits**

This course examines the political, economic, social and religious aspects of the renaissance and reformation period in history from 1400 to 1648 AD.

Theory 3 hours

**HIS240 Special Topics in History 1-3 Credits**

This course offers advanced history topics selected by the dean and faculty that satisfy student needs and general studies/social science requirements.

Theory 1-3 hours

Theory and/or hours assigned based on topics offered

## HISTOTECHNICIAN

**HST101 Histotechnician Practicum I 13 Credits**

This course will provide the student with practical clinical experience in an approved, assigned, off-campus clinical affiliate for 39 hours per week. The student will obtain entry-level skills through observation and performance of basic histological procedures including instrumentation, fixative applications, processing and sectioning of tissues, and general staining methods.

Lab 39 hours

Prerequisites: CLT101, HST majors only

Corequisite: HST102

**HST102 Histotechnician Seminar I 1 Credit**

This course is concurrent with the clinical experience and will include an on-going evaluation of clinical progress. Case studies will be prepared and presented by the student to demonstrate the histological process, as well as continual review of material obtained at the clinical site.

Theory 1 hour

Prerequisites: CLT101, HST majors only

Corequisite: HST101

**HST103 Histotechnician Practicum II 13 Credits**

This course will provide the student with a continuation of the clinical experience acquired in HST 101. The student will refine routine histology skills previously acquired, and expand their knowledge through the practical application of principles and techniques of advanced histological procedures, including special staining and immunohistochemistry. Preparation for the ASCP Registry Practical Examination will be included.

Lab 39 hours

Prerequisites: HST101, HST102, HST major

Corequisite: HST104

**HST104 Histotechnician Seminar II 1 Credit**

This course is concurrent with the clinical experience and will include an on-going evaluation of clinical progress. Preparation of resumes and interview guidelines, as well as case study presentation and an extensive review for the ASCP Registry Written examination will be included. A comprehensive exam covering the material presented in the HST program, with a minimum passing grade of 50%, is required.

Theory 1 hour

Prerequisites: HST101, HST102, HST major

Corequisite: HST103

## HUMANITIES

**HUM121A Cultural Heritages I: Creations and Discoveries of the Human Mind and Spirit 1 Credit**

The course examines literature, art, music, film, myth, and philosophy under the umbrella of great ideas. The course contains elements of cultural diversity and includes oral and written communications, problem-solving, use of technology, and teamwork.

Theory 1 hour

**HUM121B Cultural Heritages II: The When, What, Why, and Where of Human Behavior 1 Credit**

The course examines communication, psychological, and sociological behaviors along with historical and political events that result from behavior, using the media as a unifying factor. The course contains elements of cultural diversity and includes oral and written communications, problem-solving, use of technology, and teamwork.

Theory 1 hour

**HUM121C Cultural Heritages III: Understanding and Manipulating the Human Environment 1 Credit**

The course includes technology, environmental and natural science, geography, math and finance, and issues of health and safety, which will be examined in the light of one key area or event. The course contains elements of cultural diversity and includes oral and written communications, problem-solving, use of technology, and teamwork.

Theory 1 hour

**HUM240 Special Topics in Humanities 1-3 Credits**

This course offers advanced humanities topics selected by the dean and faculty that satisfy student needs and general studies/social science requirements.

Theory 1-3 hours

Theory and/or hours assigned based on topics offered

**INTERACTIVE DIGITAL MEDIA****IDM101 Foundations of Digital Media 3 Credits**

This is a survey course focusing on the theory of creating, modifying and using multimedia elements in appropriate and functional ways. Topics include computing theory, overview of computer hardware, file management, color theory, legal and ethical issues as they relate to digital media, bitmap images, vector graphics, digital animation, desktop publishing, presentation graphics, and Web design tools. Students will complete a major project integrating all elements of topics covered in the course.

Theory 3 hours

Prerequisite: MTH097

**IDM111 Professional Internet Fundamentals 3 Credits**

This course provides a basic overview of Internet technologies, networking technologies, and writing Web pages in XHTML. Students are required to complete a major project in this class. Assignments require additional time outside the classroom.

Theory 3 hours

Prerequisite: MTH097

**IDM121 Digital Media Programming 3 Credits**

This course is an introduction to programming 3-D animations. The primary tool used is Alice 2.0. Students will learn the basics of computer programming as well as create their own 3-D animations.

Theory 3 hours

Prerequisite: MTH097

**IDM201 Digital Images and Graphics 4 Credits**

This course introduces students to the creation and editing of bitmap and vector graphics, industry standard software such as Photoshop and Illustrator are used as tools in this class. Students will complete a major project. Additional time is required beyond class time.

Theory 4 hours

Prerequisite: IDM101

**IDM203 Digital Animation 3 Credits**

The creation, manipulation and editing of digital animations, including interactive applications is the focus of this course. Flash is the primary tool used in this course. Students are required to produce a portfolio and complete a major project for this course. Additional time beyond regular class time will be required to complete assignments and projects.

Theory 3 hours

Prerequisite: IDM211 or permission of instructor

**IDM204 Digital Video Production 3 Credits**

The creation, manipulation, editing, and production of video for use on the World Wide Web or other electronic distribution is the focus of this course. Students use hardware such as digital video camera, videotape, and capture cards and industry standard software such as Adobe Premiere to create short films. Students will write, edit, and produce a major project consisting of an original movie as well as a portfolio of other projects. Additional time beyond regular class time will be required to complete assignments and projects.

Theory 3 hours

Prerequisite: IDM101 or permission of instructor

**IDM211 Site Design Methodologies 3 Credits**

This course covers creating web sites using state of the art software such as Macromedia Dreamweaver and Flash. Web site development theory is covered extensively including such topics as branding, mind mapping, and site usability. Additional time is required to complete assignments outside of class.

Theory 3 hours

Prerequisite: IDM111

**IDM221 Advanced Digital Media Programming 4 Credits**

This course covers client side JavaScript, server side and CGI programming using PERL and animation programming using ActionScript. Students will complete a major project in this course. Additional time is required to complete assignments outside of class.

Theory 4 hours

Prerequisites: IDM111 and IDM121

**IDM222 Simulation and Game Development 4 Credits**

This course is designed to teach video simulation and video game development. Students will program their own game using tools such as Flash or DarkBASIC. Additional time is required beyond class time.

Theory 4 hours

Prerequisite: IDM121

**IDM251 Capstone in Internet and Digital Media Design 3 Credits**

The capstone seminar requires students to assimilate the collective knowledge of their college experience in the form of a portfolio of projects completed in the course of study as well as the completion of a major independent design project. Students will prepare their portfolios for either employment or transfer to a baccalaureate program with guidance by the instructor.

Theory 3 hours

Prerequisite: 30 credit hours including COM101, ENG104, IDM221, and IDM21

**IDM275 Special Topics in Internet and Digital Media Design 1-4 Credits**

This course covers new and emerging topics in digital media and Internet design. Topics may vary.

Theory 1-4 hours

Prerequisite: Permission of instructor

## INTERPRETING FOR THE DEAF

### IDP150 Introduction To Interpreting 3 Credits

Provides an overview of the field of sign language interpreting between individuals who are hearing and individuals who are Deaf or hard of hearing, in the public and private sectors, educational institutions, business and industry, the arts, and in the community at large throughout Ohio and the country. Discusses the historical development of the profession. Students are introduced to terminology, theoretical models of interpreting and current practices in the field. The Registry of Interpreters for the Deaf Code of Ethics is examined in light of personal and professional standards. The roles and responsibilities of the interpreter are also discussed.

Theory 3 hours

### IDP201 Interpreting I 4 Credits

This course is a theoretical and practical "hands-on" approach to the process of sign language interpreting. The student will be actively learning how to render a signed message in ASL into spoken English, as well as render a spoken message in English into ASL. Students will engage in role-playing in various basic interpreting situations. A variety of different interpreting environments will be discussed.

Theory 3 hours - Lab 2 hours

Prerequisite: IDP150

Corequisite or: ASL201

### IDP202 Interpreting II 4 Credits

This course is a continuation of IDP201. The students continue the process of actively learning how to render a signed message in ASL into spoken English, as well as how to render a spoken message into ASL. This course places more emphasis on the practical "hands-on" dialogue setting; increasing the speed, accuracy, and complexity of the interpreting process in a variety of interpreting environments.

Theory 3 hours - Lab 2 hours

Prerequisite: IDP201 with a grade of "C" or better

### IDP203 Introduction to Audiology 1 Credit

Students are introduced to the physiology of the ear, the physics of sound, audiometric testing, and to the pathologies of hearing disorders and treatment.

Theory 1 hour

### IDP204 Transliteration 3 Credits

This course is a theoretical and practical "hands-on" approach to the process of sign language transliterating. Students will be actively learning how to render contact varieties and signed English messages into spoken English, as well as render a spoken message in English into contact varieties and signed English. Role-playing and vocabulary-building in English structures, including idiomatic phrasing.

Theory 3 hours

Prerequisite or corequisite: ASL204, IDP202

### IDP205 Voicing 4 Credits

This course develops the theory and practice of comprehending Deaf/Hard of Hearing people and interpreting their messages accurately into spoken English. Emphasis is on vocabulary selection, body language, and appropriate register in a variety of settings.

Theory 4 hours

Prerequisites: ASL204, IDP202

### IDP209 IDP Internship 1-4 Credits

Students will observe certified interpreters or other skilled professional interpreters in various interpreting settings. They will focus on aspects of interpretation such as register, transitions, opening and closing a text, spatial mapping, and will discuss their observations and questions with the professional interpreters, comparing their experiences with what they learned in the classroom and considering settings in which interpreters work with a view toward making a decision as to the environment in which they want to work.

Internship 1-3 hours

Prerequisite: ASL204, IDP202, IDP204, IDP210

Prerequisite or corequisite: IDP205

### IDP210 IDP Capstone: Interpreting Environments 4 Credits

This seminar course is designed to prepare students for interpreting in different environments by reviewing previous learning and skills, and by researching the specialized demands of various interpreting situations. This seminar course will also prepare students for the National Interpreter Certification (NIC) Exam.

Theory 4 hours

Prerequisite/Corequisite: ASL204, IDP202, IDP204, IDP205; recommended IDP209

### IDP211 IDP Practicum 1 Credit

This course provides the student with the opportunity to work directly with agencies or persons engaged in interpreting for the Deaf.

Practicum 7 hours per week

Prerequisite: ASL204, IDP202, IDP204, IDP205

Corequisite: IDP212

### IDP212 IDP Seminar 1 Credit

The seminar is designed to give the student an opportunity to discuss practicum experiences.

Seminar 1 hour

Prerequisite: ASL204, IDP202, IDP204, IDP205

Corequisite: IDP211

## JOURNALISM

### JRN101 Basic Journalism 3 Credits

Students will learn the basics of writing for newspapers, magazines, and electronic media. This course will cover writing and interviewing techniques, journalism ethics, proper style and organization and editing. Students will write a variety of articles on assignment representative of the diverse situations encountered by a working journalist. Basic layout techniques will be presented. Course may require participation in outside classroom activities/events that relate to the course outcomes.

Theory 3 hours

Fall Only

### JRN201 Journalism and the Media 3 Credits

In this course students will learn advanced techniques used in writing for newspapers, magazines, and electronic media with a much stronger emphasis on electronic media and the ways technology is changing modern news reporting. Students will complete a variety of writing assignments under real-life, hands-on conditions designed to prepare them for work as print, radio, or television journalists. The history and evolution of journalism, basic media law, and the complex, ethical issues faced by working journalists will be presented. Course may require participation in outside classroom activities/events that relate to the course outcomes.

Theory 3 hours

Spring Only

## MANAGEMENT

### MGT201 Principles of Management

3 Credits

This course is a study of the four management functions of planning, organizing, directing and controlling used in organizations. This includes topics on decision-making, human relations, effective communications, group dynamics, change, leadership, motivation, ethics, quality and social responsibility.

Theory 3 hours

Spring Only

### MGT202 Organizational Behavior

3 Credits

This course investigates the individual and group behavior at work while pursuing the nature of group dynamics and corporate culture. It involves the study of what people do in an organization and how the behavior affects the performance of the organization and emphasizes behavior related to jobs, absenteeism, employment turnover, productivity, human performance and management.

Theory 3 hours

Spring Only

### MGT205 Introduction to Quality Improvement

3 Credits

This course introduces students to a systematic approach for applying quality technology to improve production in any type of organization. This includes the history of total quality management, analysis of customers' needs, power of process, empowerment, supplier quality and performance measurement.

Theory 3 hours

Spring Only

Prerequisite: Completion of 30 hours

### MGT206 Career Success Seminar

1 Credit

This seminar prepares the student to make decisions regarding future plans. Topics to be examined are transfer options, career options, personal financial issues, and goal-setting. Additionally, the course prepares the student for job search activities with sections on personal presentation and interview preparation.

Theory 1 hour

### MGT208 Human Resources Management

3 Credits

This course provides information necessary to develop policies and programs that attract, retain and motivate employees and includes staffing, leadership, supervision, discipline, training, labor management relations, compensation plans, benefits and appraisal systems.

Theory 3 hours

Fall Only

Prerequisite: MGT201 or instructor/dean approval

### MGT210 Leadership Development and Team Building

3 Credits

This course has as its central focus the development of leadership ability. It provides a basic understanding of leadership and group dynamics theory, and an awareness of one's own ability and style of leadership. It provides the opportunity to develop essential leadership skills through the study and observation of these skills and the engaging in productive leadership behavior. It is a writing intensive course.

Theory 3 hours

Fall Only

## MATHEMATICS

### MTH081 General Math\*

5 Credits

This course is for those who need a review of basic arithmetic as indicated by the COMPASS placement testing. This course is designed to meet the needs of the individual student before the student enters the college classroom. Topics include addition, subtraction, multiplication and division of whole numbers, fractions, and decimals. Also included are percents and story problems involving arithmetic. This course covers basic calculator skills, order of operations, scientific notation, and beginning algebra skills.

Theory 5 hours

\* Course not counted toward graduation

### MTH090 Algebra Review

3 Credits

This course is designed to provide high school students with a review of algebra. Topics include real numbers and variable expressions, first-degree equations and inequalities, linear equations in two variables, systems of linear equations, polynomials, factoring, rational expressions, rational exponents and radicals, and quadratic equations. This course does not replace/substitute MTH081, MTH096, MTH097, MTH098, or MTH099.

Theory 3 hours

Prerequisite: Students must have completed at least two years of high school algebra

### MTH096 Fundamental Mathematics\*

2 Credits

This course and its successors (MTH097, MTH098 and MTH099) are designed to provide the student with sufficient skills in mathematics to enroll in MTH110 or MTH120. Topics include a review of fractions, decimals and percents, the metric system, ratios, signed numbers, order of operations, combining like terms, distributive property and solving simple equations.

Theory 2 hours

Prerequisite: MTH081 with a minimum grade of "C" or appropriate score on college placement test

\* Course not counted toward graduation

### MTH097 Introductory Algebra\*

3 Credits

This course is a continuation of MTH096. Topics include solving linear equations and inequalities, applied linear problems, exponents, changing from exponential form to logarithmic form, polynomials, factoring, and rational expressions and equations.

Theory 3 hours

Prerequisite: MTH096 with a minimum grade of "C" or appropriate score on college placement test

\* Course not counted toward graduation

### MTH098 Fundamental Geometry\*

2 Credits

This course will cover the fundamental concepts of geometry. Topics include basic geometric shapes and formulas, Pythagorean Theorem and basic right triangle properties, area, volume, and application problems.

Theory 2 hours

Prerequisite: MTH097 with a minimum grade of "C" or appropriate score on college placement test

May take MTH099 and MTH098 in the same semester

\* Course not counted toward graduation

**MTH099 Intermediate Algebra \*****3 Credits**

This course is a continuation of MTH097 and is the final course in a mathematical sequence (MTH096, MTH097, MTH098, and MTH099) designed to provide the student with sufficient skills in mathematics to enroll in MTH110 or MTH120. A study of graphing, functions, system of equations, radical, quadratic equations, circles and parabolas is presented.

Theory 3 hours

Prerequisite: MTH097 with a minimum grade of "C" or appropriate score on college placement test

May take MTH098 and MTH099 in the same semester

\* Course not counted toward graduation

**MTH100 Mathematics for Elementary Teachers I****4 Credits**

This course and its successor (MTH101) form a mathematical sequence intended for students interested in transferring into elementary education programs and related fields. Topics include problem-solving, sets, functions and logic, numeration systems, integers, rational numbers, exponents and decimals and mathematical applications. Teach techniques, recognition and use of connections among math ideas, and proper use of mathematical language will be stressed. Manipulatives also are introduced and activities that can be used in an elementary math classroom are presented.

Theory 4 hours

Prerequisites: MTH096 with a minimum grade of "C" or appropriate score on ACT, SAT, or college placement test. For students with no algebra background, MTH097 is also strongly recommended.

**MTH101 Mathematics for Elementary Teachers II****4 Credits**

This course and its predecessor (MTH100) form a mathematical sequence intended for students interested in transferring into elementary education programs and related fields. Topics include introductory geometry, construction and similarity, areas of polygons and circles, motion geometry and tessellations, and probability and statistics.

Theory 4 hours

Prerequisite: MTH100 with a minimum grade of "C"

**MTH102 Survey of Mathematics****3 Credits**

This course is intended for students who require a broad-based general overview of mathematics, especially those majoring in liberal arts. Topics include critical thinking skills, sets, logic, functions, geometry, probability, statistics, and graph theory. This course also includes persons and discoveries important to the discipline of mathematics.

Theory 3 hours

Prerequisite: MTH097 with a minimum grade of "C" or appropriate score on college placement test

**MTH110 Technical Algebra****3 Credits**

This course covers equations and their graphs, systems of linear equations, review of factoring, quadratic equations, exponents and radicals, exponentials and logarithms, and inequalities and absolute value.

Theory 3 hours

Fall Only

Prerequisite: MTH098 and MTH099 with a minimum grade of "C" or appropriate score on ACT, SAT, or college placement test

**MTH111 Technical Trigonometry****3 Credits**

This course covers right-triangle trigonometry, trigonometric functions, oblique triangles and vectors, graphing trigonometric functions, complex numbers and polar coordinates, and analytic geometry.

Theory 3 hours

Fall Only

Prerequisite: MTH098 and MTH099 with a minimum grade of "C" or appropriate score on ACT, SAT, or college placement test

**MTH120 College Algebra****4 Credits**

This course covers linear, quadratic, and absolute value equations and inequalities, graphs of elementary functions and non-functions, graphing of polynomial and rational functions, zeros of polynomial functions including the Fundamental Theorem of Algebra, exponential and logarithmic functions including graphs and applications, conic sections, systems of equations using matrices and determinants, matrix algebra, and partial fraction decomposition. Meets the general education requirement for AA degree..

Theory 4 hours

Prerequisite: MTH098 and MTH099 with a minimum grade of "C" or appropriate score on ACT, SAT, or college placement test

**MTH121 College Trigonometry****3 Credits**

This course is the second part of an algebra-trigonometry sequence. Topics include trigonometry functions and their graphs; trigonometric identities and equations; applications of trigonometry; complex numbers; and analytic geometry.

Theory 3 hours

Prerequisite: MTH098 and MTH099 with a minimum grade of "C" or appropriate score on ACT, SAT, or college placement test

**MTH128 Statistics****3 Credits**

An introduction to statistics is given, including data, graphic representation, measures of central tendency and dispersion, probabilities, types of distribution, sampling, hypothesis, testing and elementary aspects of correlation.

Theory 3 hours

Prerequisite: MTH096 with a minimum grade of "C" or appropriate score on ACT, SAT, or placement test or dean approval

**MTH210 Technical Calculus I****3 Credits**

An introduction to differential and integral calculus, this course includes differentiation and integration of algebraic and transcendental functions with applications to science and engineering.

Theory 3 hours

Prerequisites: MTH110 and MTH111 with a minimum grade of "C" or appropriate score on ACT, SAT, or college placement test

**MTH211 Technical Calculus II****3 Credits**

A continuation of MTH210, course emphasis is placed on problem solution and application of the derivative and definite integral. Topics include derivatives and integrals of transcendental functions and methods of integration.

Theory 3 hours

Prerequisite: MTH210

**MTH220 Calculus and Analytic Geometry I 5 Credits**

An introduction to differential and integral calculus, this course includes differentiation and integration of algebraic and transcendental functions with applications to science and engineering. This course meets the general educational requirement for Associate of Science and Associate of Arts degrees.

Theory 5 hours

Prerequisites: MTH120 and MTH121 with a minimum grade of "C" or appropriate score on ACT, SAT, or college placement test and four years of college preparatory mathematics (including pre-calculus)

**MTH221 Calculus and Analytic Geometry II 5 Credits**

A continuation of Calculus and Analytical Geometry I, this course includes further calculus of transcendental functions; techniques of integration; polar coordinates; conic sections; and infinite series with applications to science and engineering. This course meets the general education requirement for Associate of Science and Associate of Arts Degrees.

Theory 5 hours

Spring Only

Prerequisite: MTH220 with a minimum grade of "C"

**MTH222 Calculus and Analytic Geometry III 5 Credits**

This course includes the topics of parametric equations; solid analytical geometry; vectors and vector functions; multi-variable calculus; partial derivatives; multiple integrals; and introduction to linear algebra.

Theory 5 hours

Prerequisite: MTH221 with a minimum grade of "C"

**MTH230 Differential Equations 4 Credits**

Topics of this ordinary differential equations course include techniques of first order differential equations; existence and uniqueness theorems for solutions; solutions of linear differential equations; systems of linear differential equations; Laplace transforms and solutions of initial value problems.

Theory 4 hours

Prerequisite: MTH222 with a minimum grade of "C"

**MECHANICAL ENGINEERING TECHNOLOGY****MCH102 Industrial Hydraulics 3 Credits**

This is a basic course in the principles and theory of industrial hydraulics/pneumatics and the components of industrial hydraulic/pneumatic systems. Included are cylinders, pumps piping, motors, valves, flow control, pressure control valves and electrohydraulics. Fluid characteristics, basic troubleshooting and maintenance are included.

Theory 2 hours - Lab 2 hours

Fall Only

**MCH110 Engineering Materials 2 Credits**

The field of material design engineering will be explored. The fundamental principles of industrial materials technology will be introduced. The material systems of metals, ceramics and polymers will be covered. Some information on composites also will be included. Atomic bonding systems, crystalline and amorphous structures of solids will be developed. Mechanical, chemical, physics properties and their measurement through physical testing will be explored. An emphasis on metals as an engineering material will be made.

Theory 2 hours

Fall Only

**MCH201 Applied Mechanics I (Statics) 3 Credits**

This course provides analytical and graphical solutions of problems involving forces, moments, couples, equilibrium, forces in trusses, frames, simple machines and friction C.G. and moment of inertia. Emphasis is on solution of problems by logical process rather than by memorization of rules and/or formula.

Theory 3 hours

Spring Only

Prerequisite: MTH110

Corequisites: MCH202, MTH111, PHY106

**MCH202 Applied Mechanics II (Dynamics) 2 Credits**

This course stresses analytical and graphical solutions of problems involving linear and angular motion and acceleration; instantaneous centers; work energy and power; impulse and momentum. Emphasis is on solution of realistic problems by reasoning with a minimum of formula memorization.

Theory 2 hours Spring Only

Prerequisite: MTH110

Corequisites: MCH201, MTH111, PHY106

**MCH204 Introduction to Manufacturing Process 3 Credits**

This course introduces the study of manufacturing processes, including machine tools. Topics include basic metal cutting process, such as lathe, mill, drill press, and grinder. Additionally, basic welding process will be covered.

Theory 2 hours - Lab 2 hours

Fall Only

Prerequisite: MTH096 or equivalent

**MCH208 CNC (Lathe and Milling) 3 Credits**

This course provides an introduction to numerical control (NC) and computer numerical control (CNC) on lathe and vertical milling machine. Math required and machinery practices are reviewed. NC axes for various machines and standards for NC are studied. Lab work will use lathe and mill and Cortini lathe programming, using G and M industrial codes.

Theory 2 hours - Lab 2 hours

Prerequisite: MTH110

Corequisite: MTH111

**MCH209 FMS (Flexible Manufacturing System) 3 Credits**

Introduction to industrial robots and robots classification, and the application of robots in industry are presented. Various types of robotic systems will be covered as well as an introduction to the programming of robots in a flexible manufacturing system (FMS). Two D & M robots are programmed and coordinated with the milling and the lathe machines to produce a bench-mounted FMS. Programming of the robots is done both on the PC and "teach" pendants.

Theory 2 hours - Lab 2 hours

Prerequisite: MCH208

**MCH210 Strength of Materials 3 Credits**

Study is made of the application of external loads to rigid bodies and the analysis of the resulting stresses, strains, moments and shear diagrams. Topics include thermal expansion, bolted and welded joints, thin walled pressure vessels, beam stresses and deflection, beam design, column stresses and design.

Theory 2 hours - Lab 2 hours

Fall Only

Prerequisite: MCH201 preferred

**MCH230 Mechanical Component Design** 3 Credits  
 This course is intended as a basic course in mechanical engineering design of machine components. After a review of basic fundamentals of strength of materials, material properties and mechanics, students will apply these concepts to specific machine components, such as gears, bearings, springs, shafts, clutches, brakes, belts, couplings and more.  
 Theory 3 hours Spring Only  
 Prerequisite: MCH210  
 Corequisite: MCH202

## MEDICAL ASSISTING TECHNOLOGY

**MAS101 Introduction: Medical Assisting** 4 Credits  
 This course is designed to familiarize the student with the role of the medical assistant and includes fundamental microbiology and the role of microorganisms in diseases. Preparation of the patient for examination in the physician's office including specialty exams and procedures is explored. The importance of nutrition to health; care of instruments; the processing and sterilization of supplies; sterile technique; application of dressings; and suture removal is studied.  
 Theory 3 hours - Lab 2 hours  
 Lab fee includes liability coverage  
 Prerequisite: Admission to Medical Assisting Program;  
 BUS111, HSC101, OIT102

**MAS102 Medical Assisting Clinical Skills** 4 Credits  
 This course is designed to familiarize the medical assistant with obtaining and recording vital signs; special diagnostic procedures including electrocardiography; the preparation and calculation of medications; and proper techniques for drug administration.  
 Theory 3 hours - Lab 2 hours  
 Prerequisites: Minimum of a "C" in HSC101, HSC103, BIO101, BUS111, MAS101

**MAS103 Medical Assisting Laboratory Skills** 2 Credits  
 This course is designed to introduce the medical assistant to diagnostic laboratory procedures performed in the physician's office. Principles of laboratory procedures and techniques are cultivated by observation, discussion, study and practice in the laboratory sessions. Emphasis is on collection, proper handling and identification of specimens. Basic hematologic procedures including hematocrit, hemoglobin, sedimentation rate determination and routine urinalysis are included.  
 Theory 1 hour - Lab 2 hours  
 Prerequisites: Minimum of a "C" in HS101, HSC103, BIO101, BUS111, MAS101; limited to medical assisting majors

**MAS104 Medical Assisting Seminar** 1 Credit  
 This seminar is designed to give the student the opportunity to discuss the practical experiences of MAS105. Guest speakers are invited to discuss available community resources and present topics dealing with clinical and administrative aspects of the medical office.  
 Seminar 1 hour (Blocked in 5-week Summer Session I)  
 Prerequisites: Successful completion of all general, technically related, and technical courses included in the first two semesters of the MA program; and practicum coordinator approval  
 Corequisite: MAS105

**MAS105 Medical Assisting Practicum** 2 Credits  
 An opportunity is provided for practical application of the principles and skills gained during the previous two semesters. Students are assigned to a physician's office, health center, or clinic for observation and supervised practical experience. The student is required to keep a log of daily practicum experiences.  
 Practicum 32 hours (blocked in 5-week Summer Session I)  
 Prerequisites: Successful completion of all general, technically related and technical courses included in the first two semesters of the MA program; a practical proficiency exam and practicum coordinator approval are required if one year has elapsed since completion of MAS101, MAS102, and MAS103  
 Corequisite: MAS104

## Music

**MUS101 Music Appreciation** 3 Credits  
 This course provides an overview of music history including the Middle Ages, Renaissance, Baroque, Classical, Romantic periods and 20th Century trends. Styles, mediums and prominent composers are discussed, while their principal works are heard. Parallels to other art forms are drawn, enabling students to more clearly comprehend the evolution of music. Course may require participation in outside classroom activities/events that relate to the course outcomes.  
 Theory 3 hours

**MUS102 Music Fundamentals** 3 Credits  
 A creative approach to music fundamentals is undertaken by placing an equal emphasis on conceptual understanding and skills mastery through drilling and practice. The student will become appreciative of the concise nature of music and literate in its language. Course may require participation in outside classroom activities/events that relate to the course outcomes.  
 Theory 3 hours

**MUS121 Special Topics in Music** 3 Credits  
 This course offers topics in music selected by faculty that satisfy student need and humanities requirements.  
 Theory 3 hours

## NETWORKING

**NET110 Installing, Configuring, and Administering Microsoft Windows XP Professional** 4 Credits  
 This course teaches students the skills and knowledge necessary to install, configure, and manage the Microsoft Windows XP operating system. It also serves as initial preparation for those individuals seeking to take Microsoft certification exam 70-270: Installing, Configuring, and Administering Microsoft Windows XP Professional. The course begins by introducing installation methods and troubleshooting. Subsequent chapters address hardware device installation and management, storage management, disaster recovery planning and management, and performance analysis.  
 Theory 4 hours Fall Only  
 Corequisite: ELE106

**NET111 Managing and Maintaining a Microsoft Windows Server 2003 Environment 4 Credits**

This course teaches students how to install, configure, administer, and support the primary services in the Microsoft Windows Server 2003 operating system. It also serves as initial preparation for those individuals seeking to take Microsoft certification exam 70-290: Managing and Maintaining a Microsoft Windows Server 2003 Environment. The course begins by examining basic system administration procedures. Subsequent chapters are devoted to the creation and management of user, group, and computer accounts, to the sharing of system resources, and to the installation and maintenance of system hardware.

Theory 4 hours Fall Only  
Prerequisite: NET110

**NET112 Implementing, Managing, and Maintaining a Microsoft Windows Server 2003 Network Infrastructure 4 Credits**

This course teaches students the skills and knowledge necessary to configure, manage, and troubleshoot a Microsoft Windows Server 2003 network infrastructure. It also serves as initial preparation for those individuals seeking to take Microsoft certification exam 70-291: Implementing, Managing, and Maintaining a Microsoft Windows Server 2003 Network Infrastructure. Topics covered include Dynamic Host Configuration Protocol (DHCP), Domain Name System (DNS), Network Security, Internet Protocol Security (IPSec), Software Updates, Routing and Remote Access (RRAS), and network monitoring.

Theory 4 hours Spring Only  
Prerequisite: NET111

**NET113 Planning and Maintaining a Microsoft Windows Server 2003 Network Infrastructure 4 Credits**

This course teaches students the skills and knowledge necessary to install, configure, administer, and support the primary networking services of the Microsoft Windows Server 2003 operating system. It also serves as initial preparation for those individuals seeking to take Microsoft certification exam 70-293: Planning and Maintaining a Microsoft Windows Server 2003 Network Infrastructure. Topics covered include basic TCP/IP networking concepts, Domain Name System (DNS), Windows Internet Naming Service (WINS), Routing and Remote Access Service (RRAS), and network security technologies such as digital certificates and the IP security (IPSec) extensions.

Theory 4 hours Spring Only  
Prerequisite: NET112

**NET210 Planning, Implementing, and Maintaining a Microsoft Windows Server 2003 Active Directory Infrastructure 4 Credits**

This course teaches students the skills and knowledge necessary to plan, implement, and maintain a Microsoft Windows Server 2003 Active Directory Infrastructure. It also serves as initial preparation for those individuals seeking to take Microsoft certification exam 70-294: Planning, Implementing, and Maintaining a Microsoft Windows Server 2003 Directory Services Infrastructure. Topics include the establishment of forests, sites, domains, and organizational units (OUs) to meet business requirements. Group Policy is introduced for software deployment and user and computer environment configuration. Additionally, students explore troubleshooting a network environment.

Theory 4 hours Fall Only  
Prerequisite: NET113

**NET211 Designing a Microsoft Windows Server 2003 Active Directory and Network Infrastructure 4 Credits**

This course teaches students the skills and abilities necessary to design a directory service and network infrastructure. It also serves as initial preparation for those individuals seeking to take Microsoft certification exam 70-297: Designing a Microsoft Windows Server 2003 Active Directory and Network Infrastructure. Topics include analyzing the existing IT infrastructure and designing DNS, WINS, network routing, forest and domain structure, sites, security, Internet connectivity, and network access.

Theory 4 hours Fall Only  
Prerequisite: NET210

**NET212 Implementing and Administering Security in a Microsoft Windows Server 2003 Network 4 Credits**

This course teaches students the skills and abilities necessary to implement and administer the various security mechanisms provided with the Microsoft Windows Server 2003 operating system. It also serves as initial preparation for those individuals seeking to take Microsoft certification exam 70-299: Implementing and Administering Security in a Microsoft Windows Server 2003 Network. Strategies will be presented for planning, deploying, configuring, and troubleshooting the following topics: authentication, authorization, security templates, update management, certificate services, Internet Protocol Security (IPSec), wireless networks, SSL certificates, and remote access.

Theory 4 hours Spring Only  
Prerequisite: NET112

**OFFICE INFORMATION****OIT101 Keyboarding for the Professional 1 Credit**

Students without experience in the development of keyboarding techniques will have individual instructions and use of computers to help them develop skills and master the keyboard.

Lab 2 hours

**OIT102 Keyboarding/Speedbuilding for the Professional 2 Credits**

This course begins with OIT101 Keyboarding and continues to develop speed and accuracy through the use of computers.

Theory 1 hour - Lab 2 hours

**OIT103 Keyboarding/Speedbuilding/Formatting 3 Credits**

This course begins with OIT102 and continues with special emphasis on formatting, business correspondence, manuscripts, tabulations and business forms. Office assistant technology majors should enroll for this course.

Theory 1 hour - Lab 4 hours

**OIT108 Document Editing/Proofreading/Formatting 3 Credits**

This course will develop and/or strengthen basic language and formatting skills to enable the student to proofread and edit business documents.

Theory 3 hours Fall Only

**OIT113 Advanced Formatting/Speedbuilding 3 Credits**  
This course continues development of keyboarding techniques to improve speed and accuracy. Emphasis is on producing mailable copies of business correspondence, forms, tabulations, rough drafts and allied data.

Theory 1 hour - Lab 4 hours

Spring Only

Prerequisite: OIT103

**OIT202 Introduction to Word Processing 2 Credits**  
An introduction to the theory, concepts and basic functions for Microsoft Word for Windows, the course includes basic word processing, keyboarding, basic storing and editing. Assignments require lab time outside of class.

Theory 2 hours

Prerequisite: OIT102 or dean approval

**OIT203 Advanced Word Processing 3 Credits**  
An introduction to word processing and its basic functions is offered along with further development of keyboarding skills, basic storing and document editing. Assignments require lab time outside of class.

Theory 3 hours

Prerequisite: OIT103 or instructor/dean approval

**OIT207 Office Publications 3 Credits**  
Students learn to create professional-looking business documents, including newsletters, flyers, brochures and letterheads; modify predesigned templates; use graphics; and design their own documents. Course stresses writing, creativity, problem-solving and decision-making in preparation for an entry-level job.

Theory 3 hours

Prerequisite: OIT102

Spring Only

**OIT208 Graphical Presentation Concepts 3 Credits**  
Microsoft PowerPoint is a complete presentation graphics program that will allow users to produce professional-looking presentations using overhead transparencies, 35mm slides, and handouts. Students will create presentations using tables, graphs, pictures, video, and animation effects. Students will be required to develop presentations in a team environment. Assignments require lab time outside of class.

Theory 3 hours

Prerequisite: CIS100W or instructor approval

Fall Only

**OIT210 Executive Machine Transcription 4 Credits**  
Students transcribe from recorded dictation. Emphasis is on business correspondence and theory, spelling, punctuation and listening skills.

Theory 2 hours - Lab 4 hours

Prerequisite: OIT203

Fall Only

**OIT212 Medical Machine Transcription 2 Credits**  
Students learn to transcribe from recorded medical dictation and progress to more complex medical transcription that includes theory, medical terminology, punctuation and spelling.

Theory 1 hour - Lab 2 hours

Prerequisites: HSC101; OIT203 or OIT202 or dean approval

**OIT214 General Office Procedures 2 Credits**  
The course focuses on both the computerized and noncomputerized administrative tasks performed by secretaries and administrative assistants in today's electronic office. Topics include the high-tech workplace, success behaviors, office communications, meetings, conferences, travel, mail, records management, and career advancement.

Theory 2 hours

Prerequisite: OIT103

Spring Only

**OIT222 Advanced Medical Machine Transcription 2 Credits**

The advanced course provides additional, progressively more complex transcription of recorded medical dictation including theory, medical terminology, punctuation and spelling.

Theory 1 hour - Lab 2 hours

Prerequisite: OIT212

**OIT224 Records Management 3 Credits**

Emphasis is placed on the principles underlying the effective management of records. The student is introduced to the criteria by which records are created, stored, retrieved, retained and disposed of; ARMA rules for alphabetic indexing; the foundation of records storage methods; and alphabetic, numeric, geographic, subject and chronological methods of filing. The course includes an introduction to computer application of records management. Assignments require lab time outside of class

Theory 3 hours

Fall Only

**OIT228 Web Concepts for Administrative Assistants 3 Credits**

Students will use Microsoft FrontPage to create documents in an HTML format, connected by hypertext. Topics will include linking Web pages, formatting text on a Web page, inserting pictures, creating hyperlinks, creating and modifying tables, and Web page management.

Theory 3 hours

Fall Only

**OIT250 Office Practicum 2 Credits**

The student will work in an actual business office situation for a minimum of 210 hours. The office will be chosen so that each student is exposed to as many different facets of the modern office as possible.

Practicum - A minimum of 210 hours

Prerequisite: Instructor approval

Spring Only

**OIT251 Office Practicum Seminar 1 Credit**

This seminar is taken in conjunction with OIT250. The practicum is enhanced by a discussion of experiences and current office information topics. Guidelines for enrollment are available from the program director.

Seminar 1 hour

Prerequisite: Instructor approval

Spring Only

## PEACE OFFICERS ACADEMY (POLICE ACADEMY)

**POA110 Firearms 2 Credits**

This course follows the curriculum of the Ohio Peace Officer's Training Councils Basic Police Academy including safety procedures, fundamentals of pistol craft and proper handling of the shotgun.

Theory 1 hour - Lab 2 hours

Prerequisites: Based on college placement test; must meet all requirements of the Ohio Peace Officers Training Academy

**POA111 NHTSA Standards and Procedures 4 Credits**

This course follows the curriculum set down by the National Highway Traffic Safety Administration and the Ohio Peace Officers Training Council's Basic Police Academy in stopping vehicles, giving field sobriety tests for drinking drivers, identification and apprehension of those drivers, the theory behind the use of radar and lidar speed detection units and stopping and approaching those vehicles. The National Highway Traffic Administration is considered the source of standards and procedures in dealing with traffic safety.

Theory 4 hours

Prerequisites: Based on college placement test; must meet all requirements of the Ohio Peace Officers Training Academy

**POA 112 Self Defense 2 Credits**

This course follows the curriculum of the Ohio Peace Officer Training Council's Basic Police Academy self defense techniques, and the use of impact weapons.

Theory 1 hour - Lab 2 hours

Prerequisites: Based on college placement test; must meet all requirements of the Ohio Peace Officers Training Academy

**POA 113 Criminal Law 3 Credits**

This course follows the curriculum of the Ohio Peace Officers Training Council's Basic Police Academy including the study of the Ohio revised Code, Laws of Arrest and The Juvenile Justice System.

Theory 3 hours

Prerequisites: Based on college placement test; must meet all requirements of the Ohio Peace Officers Training Academy

**POA 114 Police Procedures 3 Credits**

This course follows the Curriculum of the Ohio Peace Officers Training Council's Basic Police Academy in supplying skills and knowledge in the areas of radio, L.E.A.D.S., communication, building searches, vehicle patrol techniques, responding to crimes in progress, handling civil disorders, subject control techniques, police report writing and prisoner booking and handling.

Theory 2 hours - Lab 2 hours

Prerequisites: Based on college placement test; must meet all requirements of the Ohio Peace Officers Training Academy

**POA115 Community Orientated Policing 3 Credits**

The course follows the curriculum of the Ohio Peace Officer Training Council's Basic Police Academy including the study and theory of the role of the American peace officer, philosophy and principles of the American criminal justice system, ethics and professionalism, civil liability and use of force, crime prevention, gang awareness, cultural diversity, controlling violent and non-violent crowds, communicating with the public and media. Special emphases will be placed on victims' rights and community policing.

Theory 3 hours

Prerequisites: Based on college placement test; must meet all requirements of the Ohio Peace Officers Training Academy

**POA116 Physical Training 1 Credit**

The course follows the curriculum of the Ohio Peace Officer Training Council's Basic Police Academy including the study of fitness related to endurance and job performance as a police officer. The class prepares the student to perform certain physical agility tests based on Cooper Standards for Age and Gender. Students will be required to meet this standard in their age and gender classification in three tests: the mile and a half run, sit-ups, and push-ups. The class will develop cardiovascular endurance along with upper body strength in order to pass OPOTA physical fitness standards.

Lab 2 hours

Prerequisites: Based on college placement test; must meet all requirements of the Ohio Peace Officers Training Academy

**POA117 Physical Training II 1 Credit**

The course follows the curriculum of the Ohio Peace Officer Training Council's Basic Police Academy and continues the study of fitness related to endurance and job performance as a police officer. The advanced class culminates with the student to performing the physical agility tests based on Cooper age and gender standards. The three tests consist of the mile and a half run, sit-ups, and push-ups.

Lab 2 hours

Prerequisites: Based on college placement test; must meet all requirements of the Ohio Peace Officers Training Academy

**POA 118 Self Defense II 4 Credits**

This course follows the curriculum of PKC (Personal Knowledge Control) self defense techniques. The course will train the student in advanced hand-to-hand defensive tactics and defensive tactics using lethal and less lethal weapons. Topics covered are Firearms, Pepperball, ASP, OC Spray, Taser, PR24, Monadnock Baton and Patrol Knife.

Theory 2 hour - Lab 2 hours

Prerequisites: Based on college placement test; must meet all requirements of the Ohio Peace Officers Training Academy

**POA 119 Conversational Spanish 3 Credits**

In this course the basic skills of reading, writing, and speaking Spanish will be taught. The emphasis will be on speaking Spanish in everyday situations such as greeting people, buying food and clothing, renting an apartment, eating in restaurant, etc. Students will talk with the teacher and each other in mock situations. Oral tests will be given regularly.

Theory 2 hours - Lab 2 hours

Prerequisites: Based on college placement test; must meet all requirements of the Ohio Peace Officers Training Academy

**POA 120 Technical Report Writing 4 Credits**

This course focuses on the writing of clear, accurate, and factual reports of incidents and events that are crucial to personnel and/or court decisions in an organization the course will also include the use of computer and internet software necessary for the creation of document and storing of files.

Theory 4 hours

Prerequisites: Based on college placement test; must meet all requirements of the Ohio Peace Officers Training Academy

## PHILOSOPHY

### PHI101 Introduction to Philosophy 3 Credits

This introductory course will focus on several of the recurrent and central themes in the history of philosophy which have challenged our understanding of self and the universe. Special emphasis will be placed on the relevance these concerns hold for contemporary life.

Theory 3 hours

### PHI201 History of Philosophy: Ancient through Modern 3 Credits

This course investigates the central themes of various philosophers from the Pre-Socratic period through the modern era. Topics include ethics, physics, religion, and metaphysics. Emphasis is placed on how ancient and medieval philosophy influences our modern understanding of the world, religion, science, and ourselves.

Theory 3 hours

Summer Online Only

Prerequisite: PHI101

### PHI202 Ethics 3 Credits

This course provides an introduction to the area of philosophy known as ethics or morality. The course will examine several theories of ethics throughout the history of philosophy, including virtue, teleological and deontological ethics. Special emphasis is placed on how these ethical theories apply to contemporary ethical problems, such as abortion, capital punishment, and business problems.

Theory 3 hours

### PHI240 Special Topics in Philosophy 1-3 Credits

This course offers an examination of advanced topics in philosophy and religion selected by the dean and faculty that satisfy student needs and general studies/ social science requirements. This course provides the student an opportunity to explore topics in greater detail.

Theory 1-3 hours

Prerequisite: PHI101

## PHYSICAL EDUCATION

### PED101 Personal Fitness 1 Credit

An opportunity to discover the benefits and scientific reasons for lifelong participation in fitness-enhancing activities is presented. Individualized to meet the needs of each participant.

Lab 2 hours

### PED102 Weight Lifting 1 Credit

Introduction is given to progressive resistive exercise for men and women. Topics include strength training, types of equipment, exercise techniques, competitive weight lifting, bodybuilding and injury prevention.

Lab 2 hours

### PED103 Fitness Walking 1 Credit

This class provides students with information on the benefits of walking for fitness. Such topics as health advantages, appropriate conditioning, pace, warm-up, and cool-down will be covered, including practical experience in the skills needed to achieve success in developing and adhering to a walking program.

Lab 2 hours

### PED110 Introduction to Golf 1 Credit

Fundamental skills of golf are taught, including grip, stance, swing patterns, and putting as well as rules of course play. Refinement of swing, use of various clubs and types of shots are reviewed.

Lab 2 hours

### PED131 Personal Fitness II 1 Credit

This class is the follow-up to Personal Fitness I. It is a natural continuation of the personal fitness plan developed for individuals in Personal Fitness I. As students are required to take two physical education classes for most programs, it allows students to take two classes back to back with continuity in content and goal.

Lab 2 hours

Prerequisite: PED101

### PED132 Total Body Conditioning I 1 Credit

This class provides an opportunity for students with limited capabilities to participate in a credit physical education class. It is also appropriate for older students who may not have the stamina to participate in more strenuous physical activity. The course also is appealing to a broad range of students who may not be skilled in specific sports activities or who may be intimidated by more aggressive physical activities.

Lab 2 hours

## PHYSICS

### PHY106 College Physics I 4 Credits

Subjects for this course include: mechanics - motion, force and motion - Newton's Law, work, energy, momentum, power, friction, circular motion and satellite mechanics, torque, power transmission, and rotational dynamics; mechanics properties of matter - the structure of matter, properties of solids, properties of liquids, and properties of gases; heat and thermodynamics - temperature and heat, heat and change of state, heat transfer, law of gases.

Theory 3 hours - Lab 2 hours

Spring Only

Prerequisite: MTH110

Corequisite: MTH111

### PHY107 College Physics II 4 Credits

The topics included are electricity and magnetism - electrostatics, basic electric circuit, source and effect of electric current, magnetism and electromagnetism, electromagnetic induction, generator and motors; light and optics; wave motion and sound vibratory motion and waves, sound waves, acoustics; reflection and refraction, polarization, interference, and diffraction.

Theory 3 hours - Lab 2 hours

Fall Only

Prerequisites: MTH110, MTH111, or MTH120, MTH121

### PHY126 Science/Engineering Physics I 4 Credits

A calculus-based course in the fundamental principles of mechanics for science majors and engineers, topics treated include vectors, equilibrium, kinematics and dynamics of a particle, energy, momentum, rotation, elasticity, simple harmonic motion and the behavior of fluids. Also includes temperature, thermal expansion, specific and latent heat, heat transfer, thermodynamics, kinetic theory, mechanical waves and sound with related laboratory and demonstrations.

Theory 3 hours - Lab 2 hours

Prerequisites: MTH220, high school physics and placement in ENG101

**PHY127 Science/Engineering Physics II****4 Credits**

A continuation of PHY126, topics covered include Coulomb's law, electric fields and potentials, capacitors and dielectrics, current and resistance, dc circuits, magnetic fields and forces, electromagnetic induction, magnetic properties of matter, ac circuits, electromagnetic waves, light, mirrors, lenses, interference, diffraction, polarization, relativity, photons, structure of atoms, nuclei and solids with related laboratory and demonstrations.

Theory 3 hours - Lab 2 hours

Prerequisites: MTH220, PHY126

**PHLEBOTOMY****PLB101 Phlebotomy****2-3 Credits**

The course focuses on the principles and techniques of blood collection by both venipuncture and capillary puncture, using various types of equipment. Professional ethics and liability, communication with patients and health care providers, composition and appearance of blood, safety, anticoagulants, and clinical relevance of laboratory tests are studied. Problems encountered in phlebotomy, in addition to special specimen collection and the nursery, are also reviewed.

Theory 2 hours - Lab 2 hours

Prerequisite: Meet minimum acceptable score ranges for English and reading placement tests and HSC101 for phlebotomy majors only

**PLB102 Phlebotomy Practicum/Seminar****5 Credits**

The course is designed to be a continuation of PLB101 by providing 120 hours of applied phlebotomy experience in a CLIA regulated, accredited laboratory. Documentation of the minimum performance of 100 successful venipunctures (using vacuum tubes, butterflies or needles and syringes), 25 successful skin punctures and orientation in a full service laboratory is required for passing. Seminar component helps to prepare the graduate for national registry certification.

Practicum 120 hours - Seminar 1 hour

Pre-requisite(s): PLB101 or proficiency assessment exam approved by program director, completed health record

**POLITICAL SCIENCE****PSC101 American Government****3 Credits**

This study of the nature and structure of American government includes an overview of federal, state, county, and municipal systems. Emphasis is placed on the structure of the U.S. Constitution, the functions of the three branches of government, and the major founding documents of the American system. Course may require participation in outside classroom activities/events that relate to the course outcomes.

Theory 3 hours

**PSC102 Comparative Politics****3 Credits**

This course studies and compares how governments in different nations function and the political patterns in those nations. Course may require participation in outside classroom activities/events that relate to the course outcomes.

Theory 3 hours

**PRACTICAL NURSING****PNR100 Dosage Calculations for Health Care Professionals****1 Credit**

This course is designed for students pursuing a career in nursing or other Health Care Professionals. It is a problem-solving course with emphasis on mathematical skills for dosage calculation and intravenous (IV) infusion rates. A brief review of fractions, decimals, ratio, and percents and ratio-proportion problems will be conducted. The metric system, apothecary and household measurements are emphasized including abbreviations and conversions to enable the student to determine drug dosages. Calculation of IV flow rate for electronic and manual equipment is taught.

Theory 1 hour

Prerequisite: MTH096/Admittance to PN Program or permission of department dean

**PNR102 Practical Nursing Fundamentals****6 Credits**

This course, using both cognitive and behavioral activities, focuses on implementation of increasingly complex techniques within the framework of the nursing process. Emphasis is placed on those nursing activities which involve fundamentals of nursing; assessment and management of basic care concepts and skills; activity and comfort; documentation; and surgical care. To enhance the learning experience for the student, clinical laboratory experience in a long-term care center and/or an acute care hospital is correlated with classroom theory.

Theory 4 hours - Lab 4 hours - Clinical 5 hours

Lab fee includes liability coverage

Prerequisites: Minimum of "C" in BIO102, BIO103, ENG101, HSC101, PNR100, PSY101, STNA certificate

**PNR103 Gerontological Nursing****3 Credits**

This course is designed to deal with all the aspects of natural aging and the increasing health needs of the individual older adult. To enhance the learning experience for the student, clinical laboratory experience in a long term care center and/or an acute care hospital is correlated with classroom theory.

Theory 2 hours - Clinical 5 hours

Prerequisites: Minimum of "C" in BIO102, BIO103, ENG101, PNR100, PSY101, STNA certificate

Corequisites: PNR102, PNR104

**PNR104 Medical/Surgical Nursing I****4 Credits**

This course is the introduction of basic scientific principles of the physiological responses to illness. Concepts of diseases and disorders of the body systems are presented including related chemotherapy and treatment. Principles and skills of drug administration are introduced in lab sessions. Clinical laboratory experience in a long-term care center and/or acute care hospital is correlated with classroom theory. Following completion of the lab practice session, supervised administration of medication is initiated in the clinical setting.

Theory 3 hours - Lab 1 hour - Clinical 5 Hours

Prerequisites: Minimum of "C" in BIO102, BIO103, ENG101, PNR100, PSY101, STNA certificate

Corequisites: PNR102, PNR103

**PNR106 Medical/Surgical Nursing II 6 Credits**

A continuation of PNR104, diseases and disorders that affect the remaining body systems are presented, including appropriate chemotherapy. Pharmacological principles and skills of drug administration are continued in the clinical laboratory under direct supervision. Select observational experiences will be provided as available.

Theory 5 hours - Clinical 12 hours

Materials fee includes graduate pin and cap

Prerequisite: Minimum of a "C" or "P" in PNR102, PNR103, PNR104, PNR105, and current CPR Certification

**PNR107 Maternal/Child Health Nursing 7 Credits**

This course assists the student to integrate the nursing process while providing family health care. Nursing concepts, principles and interventions are presented with regard to childbearing, the neonate and children through the growth years. It incorporates facets of disease prevention and health promotion and maintenance. To enhance the learning experience for the student, clinical lab experience in a family birth center and an acute care pediatrics department is correlated with classroom theory.

Theory 5 hours - Clinical 12 hours

Prerequisite: Minimum of a "C" or "P" in PNR102, PNR103, PNR104, PNR105, and current CPR Certification

## PREKINDERGARTEN CARE AND EDUCATION

**ECE101 Cognitive and Physical Development of the Child 3 Credits**

The historical and current perspective of child care centers will be presented. Methods to establish a safe, healthy and effective learning environment will be included. The focus will be on the physical and intellectual growth of young children. Also, effective ways of maintaining a commitment to professionalism will be included.

Theory 3 hours Fall Only/Spring Online Only

**ECE102 Social and Emotional Development of the Child 3 Credits**

Methods to establish positive and productive relationships with families will be presented to ensure and construct a program responsive to the needs of young children. This course also includes methods teachers can use to support the social and emotional development of young children while providing positive guidance.

Theory 3 hours Fall Online Only/Spring Only

**ECE103 Communicable Diseases/Child Abuse Recognition 1 Credit**

This course concentrates on the prevention, recognition and management of communicable diseases including the protection of child care staff members. Child abuse and neglect including physical and behavioral indicators of child abuse; assisting families; reporting concerns; and the prevention of child abuse and neglect in day care facilities are included. This course satisfies the Ohio Department of Human Services inservice training requirements.

Theory 1 hour

**ECE104 Early Childhood Development Practicum 1 Credit**

On-campus site, or if already employed, the student's job site may be used as an integral segment of this teaching practicum experience. Based on student enrollment and available sites, practicum may be scheduled in the summer term or fall semester.

Spring /Summer Only

Practicum 8 hours (summer requires 15 hours per week x 8 weeks; fall requires 8 hours per week x 15 weeks)

Prerequisite: ECE101

Prerequisite/corequisite: ECE102

Corequisite: ECE105

**ECE105 Early Childhood Development Seminar 1 Credit**

This seminar is designed to give the student an opportunity to discuss ECD104 practicum experiences. Guest lecturers will be invited to participate. Based on enrollment and available sites, seminar may be scheduled in the summer term or fall semester.

Seminar 1 hour

Spring/Summer Only

Prerequisite: ECE101

Prerequisite/corequisite: ECE102

Corequisite: ECE104

**ECE106 Care and Development of Infants and Toddlers 3 Credits**

This course focuses on providing care for the infant and toddler-aged child. The areas of heredity, pregnancy and birth are included. The subject of school-age, latchkey programs, with the child care setting, also is discussed.

Theory 3 hours

Spring Only/Summer Online Only

**ECE107 Administration of Childcare Centers 3 Credits**

This course focuses on current issues and trends in early childhood education. Included are social service agencies available to support and empower families and an introduction to family-oriented opportunities.

Theory 3 hours

Spring Only

Prerequisites: ECE104 and ECE105 recommended

**ECE108 Early Childhood Development Practicum II 1 Credit**

This course provides the student with the opportunity to work directly within local social service agencies or in infant/toddler care programs.

Practicum

Spring Only

Prerequisites: ECE104, ECE105

Corequisite: ECE109

Recommended: ECE106

**ECE109 Early Childhood Development Seminar II 1 Credit**

This seminar is designed to give the student an opportunity to discuss ECD108 Practicum experiences. Guest lecturers will be included as appropriate to student needs. Attendance is mandatory.

Prerequisites: ECE104, ECE105

Corequisite: ECE108

Recommended: ECE106

**ECE110 Wellness and Safety in Early Childhood 3 Credits**

This course is designed to cover the normal physical sequence of growth and development that occurs throughout early childhood along with special factors that can influence development such as safety, health, and nutrition. Current issues in regard to the health and safety of children also will be covered.

Theory 3 hours

**ECE111 Society, Family, and Diversity  
in Early Childhood****3 Credits**

In this course, students learn how to encourage children to become contributing members of their society, i.e. the family, the classroom, the community. Emphasis is on goals that encourage the development of the child's self-esteem and self-reliance. The aspiring teacher candidate learns ways to promote a multi-cultural classroom. Aspiring teachers also learn the importance of field trips and ways to plan and execute successful experiences. Methods of integrating multi-cultural, intergenerational, government, ecology, geography, community living, holiday celebrations, and current events into the curriculum are studied and practiced.

Field/lab hours - 10 required per week      Fall Only

**ECE112 Integrating Language and Literacy  
in the Early Childhood Curriculum****3 Credits**

This course will cover the foundations of early literacy development, including theories and practices. Prospective teachers will observe and assess the learning needs of young children, and will learn ways to motivate reading and writing and to increase phonemic awareness. Family literacy issues will be presented and discussed, and prospective teachers will learn how to create a literacy environment in an early childhood classroom.

Theory 3 hours      Fall Only

**ECE113 Integrating Math and Science Concepts  
in the Early Childhood Curriculum****3 Credits**

This course shows the aspiring teachers how to use activities and environment to teach math and science concepts, including such concepts as one-to-one correspondence, number sense and counting, logic and classifying, comparing, early geometry (shapes), spatial sense, parts, and wholes. Aspiring teachers also will learn how to teach children early science concepts, including life science, physical science, earth and space science, environmental awareness, health, and nutrition.

Theory 3 hours      Spring Only

**ECE114 Integrating Music, Art and Play  
in the Early Childhood Curriculum****3 Credits**

This course studies children's creative expression and psychomotor development through play, developmental stages of art in two- and three-dimensional forms, musical chants, rhythms, and instruments. The course also will demonstrate ways to integrate creative drama and movement into the early childhood classroom. The course will familiarize aspiring teachers with theories regarding play and creativity in young children, and will help aspiring teachers foster creativity in children through integrated practices and through physical environment.

Theory 3 hours      Spring Only

**PSYCHOLOGY****PSY101 General Psychology****3 Credits**

This introductory course in psychology covers the foundations of human consciousness, senses, learning, memory, thinking, intelligence, development, and psychological disorders/treatment. As a survey course specific emphasis is placed on a detailed presentation of many of the noted historical and contemporary figures who have shaped this field of study. In addition, students will be exposed to the experimental method and other research methods used by psychologists. Course may require participation in outside classroom activities/events that relate to the course outcomes.

Theory 3 hours

**PSY102 Psychology of Human Relations****3 Credits**

In this course students will have the opportunity to explore several aspects of one's own personal and social functioning. The exploration is designed to aid individuals in better understanding themselves and their relationships with others. A focus on the practical applications of psychology are made throughout the course. Course may require participation in outside classroom activities/events that relate to the course outcomes.

Theory 3 hours

**PSY201 Child Development****3 Credits**

This course focuses on an in-depth study of children's cognitive, social, emotional, and moral development. Both biological and psychological influences on behavior/personality development are examined. In addition, students will be exposed to both historical and contemporary researchers, their findings, and how these findings have practical significance. Those taking this course will be encouraged to critically evaluate the numerous competing theories that have arisen in this field as well as their practical applications, and will be challenged to develop their psychological vocabularies.

Theory 3 hours

Prerequisite: PSY101

**PSY203 Social Psychology****3 Credits**

This course studies human social interaction by exploring psychological understanding of such issues as aggression, group formation and dynamics, relationships, attitude formation and social influences. Emphasis will be placed on the student recognizing these principles in everyday life. Course may require participation in outside classroom activities/events that relate to the course outcomes.

Theory 3 hours

Prerequisite: PSY101

**PSY205 Human Growth and Development****3 Credits**

This course is designed to familiarize students with the major historical and contemporary theories of human life-span development from birth through adulthood and their applications in educational and counseling settings. Emphasis is placed upon cultivating students' ability to relate theoretical materials to real-life experiences and observations. Course may require some hours of observation and report. Course may require participation in outside classroom activities/events that relate to the course outcomes.

Theory 3 hours

Prerequisite: PSY101

**PSY206 Adolescent Development****3 Credits**

This course provides an in-depth study of the psychological development of adolescents. Both contemporary and historical theories/research will be presented and discussed that relate to the numerous developmental issues relevant to adolescence. An examination of the effects of puberty, modern culture, and the education system on development is also included. Students taking this course should not take PSY205 Human Growth and Development. Course may require participation in outside classroom activities/events that relate to the course outcomes.

Theory 3 hours

Prerequisite: PSY101 (PSY201 recommended)

**PSY207 Adult Development****3 Credits**

This course provides a detailed study of the psychological changes that occur during the adult years. Both historic and contemporary theories will be presented and discussed that relate to the numerous developmental issues relevant to adulthood. An examination of the physical changes of adulthood and their effect on development is also included. Students taking this course should not take PSY205 Human Growth and Development. Course may require participation in outside classroom activities/events that relate to the course outcomes.

Theory 3 hours

Prerequisite: PSY101

**PSY211 Abnormal Psychology****3 Credits**

This course will introduce students to the major mental disorders as classified by the American Psychiatric Association. Additionally, the etiology, assessment, and treatment of mental disorders will be presented from an integrated approach that comprises biological, social, and psychological influences. Moreover, students will be exposed to the DSM-IV-Test Revision classification system as well as advanced psychological terminology. Course may require participation in outside classroom activities/events that relate to the course outcomes.

Theory 3 hours

Prerequisite: PSY101

**PSY218 Personality Theories****3 Credits**

A study of the nature of human personality by examining the works of the major theorists who have shaped the field. Emphasis will be placed on developing the student's ability to discern the major principles, approaches and assumptions that distinguish each theoretical perspective. Course may require participation in outside classroom activities/events that relate to the course outcomes.

Theory 3 hours

Prerequisite: PSY101

**PSY219 Characteristics of Exceptional Children****3 Credits**

This course focuses on a study of childhood mental, emotional, and physical disorders and the relationship of these disorders to academic and social functioning. Also included is a study of gifted children and the unique challenges faced by this population. This course will also cover public policy issues as they relate to the successful adaptation of the child. Such topics as the provisions set forth in The Education For All Handicapped Children Act, I (i.e., IEP's and Mainstreaming) and other legislation relevant to the exceptional child will be presented. This course is designed for students enrolled in the Psychology, Education, and Child Development programs. Course requires 10 hours of observation and report.

Theory 3 hours

Prerequisite: PSY101

**PSY220 Educational Psychology****3 Credits**

This course emphasizes applications of psychology to developmental patterns of pupils, methods of evaluation and assessment, and teacher-student interaction. Students will review the major theories in the history of learning and learn how these theories apply to teaching and learning. The course's focus will be on the processes by which information, skills, values, rules, and attitudes are transmitted from teachers to students and how the methods, measurement, procedures, and behaviors of teachers impact learners. A major issue will be diversity and differences among learners. Students will be given opportunities to engage in small group discussions as well as in experimental exercises designed to put into practice the ideas of major educational theorists. The student will learn about teaching and assessment in the real world through 10 hours of field experience.

Theory 3 hours

Prerequisite: PSY101

**PSY230 Capstone Course: Research Methods****3 Credits**

This course is designed to provide students with a detailed presentation of the quantitative research methods used in psychological research. Instruction in appropriate APA formatting of psychological literature is also included in this course. This course is writing intensive and open only to AA students majoring in psychology who have completed all requisite course work with a C or better.

Theory 3 hours

**PSY240 Special Topics in Psychology****1-3 Credits**

This course offers advanced psychology topics selected by the dean and faculty that satisfy student needs and general studies/social science requirements. Course may require participation in outside classroom activities/events that relate to the course outcomes.

Theory 1-3 hours

Theory and/or hours assigned based on topics offered

**PSY265H Existential-Phenomenological Psychology for Honor Students****3 Credits**

This course will articulate an alternative psychology in which the works of existential philosophers such as Heidegger and Sartre combine with the phenomenology of Husserl to produce a science of human experience and action. Among topics addressed are free will, perception, personality development and psychotherapy. Please note that honors courses move at an accelerated pace, cover more ground than the traditional course, and offer students the opportunity to hone their critical thinking and analytical writing skills. Additionally, these courses are meant to facilitate a seminar-like environment through close academic interaction with faculty and other honors students.

Theory 3 hours

Prerequisite: PSY101

## RADIOLOGIC TECHNOLOGY

### **RAD101 Introduction: Radiography**

**1 Credit**

This introduction to the profession of radiologic technology includes history, basic radiation protection, production and control of X-ray beam, professionalism, medicolegal considerations, medical terminology and responsibilities of the radiographer.

Theory 1 hour

Materials fee includes liability coverage/film badge service

Prerequisite: Admission to Radiologic Technology Program

### **RAD102 Radiographic Procedures I**

**4 Credits**

Emphasis is placed on basic radiographic procedures of the chest, abdomen, upper extremity including the shoulder girdle, lower extremity, hips, pelvis and spine. During laboratory sessions, educational experiences are planned to provide the student with opportunities to apply classroom theories.

Theory 3 hours - Lab 3 hours

Prerequisite: Admission to Radiologic Technology Program

### **RAD103 Clinical Education I**

**1 Credit**

This course is designed to develop the student's basic competency in the manipulation of radiographic equipment and accessories. Selected and supervised clinical experiences are planned to reinforce learning and to provide clinical education opportunities to apply classroom theories. This course is blocked as eight-hour days beginning mid-semester.

Clinical 4 hours

Prerequisite: Admission to Radiologic Technology Program

### **RAD104 Methods of Patient Care**

**2 Credits**

This course will provide the student radiographer with the basic concepts of patient care. Venipuncture technique, body mechanics, vital signs, asepsis, hospital emergencies, comfort measures, transporting, contrast media and pharmacology are included. This course includes observation, discussion, study and practice in laboratory sessions.

Theory 1 hour - Lab 2 hours

Prerequisite: Admission to Radiologic Technology Program

### **RAD105 Radiography I**

**4 Credits**

Lecture and laboratory sessions focus on the primary factors of radiographic exposure and on proper utilization of accessory devices such as grids, intensifying screens and beam limiting devices. Emphasis is placed on overall image quality and technical factors affecting patient dosage and basic problem-solving techniques. This course concentrates on film construction, darkroom accessories and automated processor maintenance. During laboratory sessions educational experiences are planned to provide the student with opportunities to apply classroom theories.

Theory 3 hours - Lab 3 hours

Prerequisites: RAD101, RAD102, RAD103, RAD104

### **RAD106 Radiographic Procedures II**

**5 Credits**

This course includes radiographic procedures of the bony thorax, cranium, facial skeleton and body system. Radiographic procedures performed in the operating room and positioning variations for trauma, pediatric, geriatric and atypical patients are studied. Special procedures equipment such as X-ray tubes and generators is presented as well as image intensification and various modes of image recording. Emphasis is on anatomy, patient positioning and use of contrast media for a variety of invasive techniques. Radiographic film evaluation is included.

Theory 4 hours - Lab 3 hours

Prerequisites: RAD101, RAD102, RAD103, RAD104

### **RAD107 Clinical Education II**

**2 Credits**

Selected and supervised clinical experiences are planned to reinforce learning and to provide the student with clinical education opportunities in which to apply principles and techniques of radiographic procedures discussed in theory and lab.

Clinical 16 hours

Prerequisites: RAD101, RAD102, RAD103, RAD104

### **RAD108 Clinical Education III**

**2 Credits**

Selected and supervised clinical experiences are planned to reinforce learning and provide the student with clinical education opportunities in which to apply principles and techniques of radiographic procedures discussed in theory and lab.

Clinical 16-40 hours (offered in summer)

Prerequisites: RAD105, RAD106, RAD107

### **RAD201 Radiography II**

**4 Credits**

This course focuses on the more advanced principles of radiographic imaging such as specialized equipment, advanced problem-solving and the technical aspects of quality assurance. Concentrating on the principles of radiation protection, topics also include: principles of radiobiology, effects of radiation and health physics. During laboratory sessions, educational experiences are planned to provide the student with opportunities to apply classroom theories.

Theory 3 hours - Lab 3 hours

Lab fee includes liability coverage and film badge service

Prerequisites: RAD105, RAD108

### **RAD202 Radiologic Physics**

**3 Credits**

General theories of physics including units of measurement; mechanics; structure of matter; electrostatics; magnetism; electrodynamics-electrical circuits; fundamentals of electromagnetism; and rectification are presented. The production and properties of X-ray, X-ray tubes, circuits and equipment are emphasized. Mathematical solutions of practical problems are included.

Theory 3 hours

Prerequisite: RAD108

### **RAD203 Clinical Education IV**

**4 Credits**

Selected and supervised clinical experiences are planned to reinforce learning and provide the student with clinical education opportunities in which to apply principles and techniques of radiographic procedures discussed in theory and lab.

Clinical 24 hours

Prerequisite: RAD108

**RAD204 Radiography III** **3 Credits**  
This course is intended to acquaint the radiologic technology student with changes that occur through disease and injury and their application to radiologic technology. A general review of radiography also will be included.

Theory 3 hours

Prerequisites: RAD201, RAD202, RAD203

**RAD205 Clinical Education V** **4 Credits**  
This course will provide a continuation of clinical education including planned, supervised and evaluated clinical activity in a hospital-based internship in which the student will apply principles of radiographic procedures previously mastered in theory and lab.

Clinical 24 hours

Prerequisites: RAD201, RAD202, RAD203

**RAD206 Clinical Education VI** **1 Credit**  
This course will provide a continuation of clinical education including planned, supervised and evaluated clinical activity in a hospital-based internship in which the student will apply principles of radiographic procedures previously mastered in theory and lab.

Clinical 6 hours (Blocked 3 days a week for 5 weeks in summer - 24 hours per week)

Prerequisites: RAD204, RAD205

## REAL ESTATE

**REA201 Principles of Real Estate** **3 Credits**  
An introductory course is taught in accordance with guidelines set by the National and Ohio Associations of Realtors. Designed for professional real estate people, as well as the general public, the course covers elementary characteristics of real estate and various influences on real estate values. It also is a foundation for further study and preparation for securing a license.

Theory 3 hours

**REA202 Real Estate Law** **3 Credits**  
All the areas of law dealing with real estate are studied. Emphasis is on the law of agency as applied to real estate brokers and salesmen. Law of fixtures, estates, leases, conveying of real estate, real estate managers, license laws of Ohio, zoning, cooperatives and condominiums are included.

Theory 3 hours

**REA211 Real Estate Finance** **2 Credits**  
An examination of the nature of financing real estate is presented. Primary consideration is of an understanding of mortgage loans and the mortgage market. The effects of governmental monetary and fiscal policies also are considered.

Theory 2 hours

**REA212 Real Estate Appraisal** **2 Credits**  
Theory and principles of appraising urban real property using the three basic techniques of appraising are studied in depth. A project is assigned to give the student practical experience in applying these techniques.

Theory 2 hours

## RESPIRATORY THERAPY TECHNOLOGY

**RES101 Introduction: Respiratory Therapy** **4 Credits**  
An introduction is given to respiratory therapy as a profession and to basic clinical assessment and care of patients. Professional aspects relating to the duties, responsibilities, professional ethics and liabilities of respiratory therapy personnel will be discussed. Principles and skills of basic patient care including patient assessment, record keeping, airway management and patient monitoring will be included.

Theory 3 hours - Lab 3 hours

Lab fee includes liability coverage

Prerequisite: Admission to Respiratory Therapy Program

**RES102 Basic Respiratory Therapeutics** **4 Credits**  
Lecture and laboratory sessions are offered related to the administration of medical gases; devices used for the delivery of gases; and general respiratory therapy procedures, including IPPB, incentive spirometry, bronchopulmonary drainage and drug aerosol. Indications, hazards and contraindications will be included. The course also contains topics such as equipment processing, quality assurance and infection control.

Theory 3 hours - Lab 3 hours

Prerequisites: BIO105, RES101

**RES103 Cardiopulmonary Pharmacology** **2 Credits**  
The general principles of pharmacology including drug types; dispensing; dosage; effects, including contraindications; and regulations are presented in this course. Drug groups relating to respiratory therapy will be emphasized including bronchodilators, wetting agents, mucolytics, proteolytics, antibiotics and antiasthmatic drugs.

Theory 2 hours

Prerequisites: BIO105, RES101

**RES104 Clinical Application I** **2 Credits**  
An introduction to the clinical setting is provided with an opportunity to begin initial care for the patient. Basic oxygen therapy and airway maintenance therapy will be emphasized.

Clinical practice 8 hours

Prerequisite: RES101

**RES105 Cardiopulmonary Diagnostics/Rehabilitation** **2 Credits**

A study of the methods available for determining lung function and capacity will be discussed. The topics include indications, equipment standards for testing, interpretation and methods for obtaining accurate results. Students will continue to study rehabilitative techniques and procedures for those patients who through testing were found to have pulmonary diseases. These methods will be presented as components of a rehabilitation program or home care.

Theory 1 hour - Lab 2 hours

Prerequisites: BIO105, RES102, RES103, RES104

**RES106 Clinical Application II** **1 Credit**  
In the clinical setting, the student will begin to perform general care therapeutic modalities using various techniques and equipment.

Clinical practice 5 hours

Prerequisites: BIO105, RES102, RES103, RES104

**RES201 Critical Care I****4 Credits**

The function and principles of operation of neonatal, pediatric and adult volume and pressure ventilators; high frequency ventilators; and continuous positive airway pressure devices will be reviewed. Concentration will be on specific controls, internal/external circuitry, monitoring systems and alarms.

Theory 3 hours - Lab 3 hours

Lab fee includes liability coverage

Prerequisites: RES105, RES106

Corequisite: RES203

**RES202 Cardiopulmonary Pathology****2 Credits**

This course will discuss the etiology, diagnosis and treatment of common pathologic processes which require respiratory care. Topics will include those pulmonary diseases, cardiac diseases, neurologic diseases, and traumatic injuries which require pulmonary treatment.

Theory 2 hours

Prerequisites: BIO105, RES105, RES106

**RES203 Clinical Application III****4 Credits**

Students will rotate in areas of the hospital to emphasize establishment and maintenance of artificial airways. An introduction to ventilator initiation and management in the critical care settings is included.

Clinical practice 16 hours

Prerequisites: RES105, RES106

**RES204 Critical Care II****4 Credits**

The theory and application of mechanical ventilation techniques with emphasis on physiologic effects for neonatal, pediatric and adult patients will be discussed. Patient initiation, evaluation, maintenance and weaning techniques will be incorporated. Hemodynamic monitoring and respiratory calculations will be practiced.

Theory 3 hours - Lab 2 hours

Prerequisites: RES201, RES202, RES203

**RES205 Respiratory Seminar****1 Credit**

This course reinforces the clinical education components of information gathering and decision-making related to assessment and treatment of cardiopulmonary impairment. Entry-level and advanced-level respiratory therapist comprehensive self-assessment testing will be administered.

Theory 1 hour

Prerequisites: RES201, RES202, RES203

**RES206 Clinical Application IV****6 Credits**

The final clinical component provides the opportunity to perform all procedures practiced throughout the clinical courses. Rotations in various critical care units, a neonatal intensive care unit, a pulmonary function laboratory and a home care company will be provided.

Clinical 24 hours

Prerequisites: RES201, RES202, RES203

**RETAILING****RET201 Principles of Retailing****3 Credits**

A general survey of the entire retailing sphere of operation, especially from the viewpoint of management, is provided. Areas covered are store location, layout, merchandise, sales, advertising, promotion, publicity and employees. Careers in retailing are also discussed.

Theory 3 hours

**RET243 Strategic Retail Management****3 Credits**

This course is a detailed study on developing a strategy for retail organizations in an environment of change. It is designed to increase skills in planning, organizing, staffing and retail operations. Topics used in developing a strategy are included such as consumer behavior, marketing research, trading area analysis, site selection, store image, service offerings, promotion and security prevention. Strategy for retail service businesses is introduced. Preparing a store floor plan-layout is required.

Theory 3 hours

Prerequisites: BUS201, RET201

**SOCIOLOGY****SOC101 Introduction to Sociology****3 Credits**

This course introduces students to the scientific study of human group behavior. In so doing, it addresses the methods of scientific research, the nature and functioning of culture and society, the impact of the social environment on individual behavior, and the interrelationships among social institutions such as family, education, religion, economics, and politics. Course may require participation in outside classroom activities/events that relate to the course outcomes.

Theory 3 hours

**SOC110 Sociology of Marriage and Family****3 Credits**

This course will analyze the social institutions of marriage and family from the perspective of modern sociological theory. Emphasis will be placed on the history and nature of the American forms of these institutions, but cross-cultural comparisons also will constitute an important element of the course material. Course may require participation in outside classroom activities/events that relate to the course outcomes.

Theory 3 hours

Prerequisite: SOC101

**SOC202 Society and Institutions****3 Credits**

An examination of significant contemporary problems in American society and their impact on the institutions of family, education, religion, economics, and politics is presented. Course may require participation in outside classroom activities/events that relate to the course outcomes.

Theory 3 hours

Prerequisite: SOC101

**SOC205 Social Problems****3 Credits**

This course applies theories introduced in the Introduction to Sociology course to real-world social problems. The course focuses on issues surrounding race, gender, classes, crime, education, the family, drug and alcohol abuse, international conflict and others. Course may require participation in outside classroom activities/events that relate to the course outcomes.

Theory 3 hours

Prerequisite: SOC101

**SOC240 Special Topics in Sociology 1-3 Credits**

This course offers advanced sociology topics selected by the dean and faculty that satisfy student needs and general studies/social science requirements. Course may require participation in outside classroom activities/events that relate to the course outcomes. Course may require participation in outside classroom activities/events that relate to the course outcomes.

Theory 1-3 hours

Theory and/or hours assigned based on topics offered

**SPANISH****SPA101 Elementary Spanish I 4 Credits**

This course is for students without high school Spanish or for those wishing to review basic grammatical concepts and vocabulary. It promotes the understanding, speaking, reading and writing of the Spanish language from the basics forward as well as the learning of the culture of the Hispanic world.

Theory 3 hours - Lab 2 hours

Fall Only

**SPA102 Elementary Spanish II 4 Credits**

This course is a continuation of the understanding, speaking, reading and writing of the Spanish language from the basics forward as well as the learning of the culture of the Hispanic world.

Theory 3 hours - Lab 2 hours

Spring Only

Prerequisite: SPA101 or proficiency

**SPA201 Intermediate Spanish I 4 Credits**

In this course the student will review material learned in Elementary Spanish and also learn to communicate in Spanish at a level beyond that taught in the first year. Learning at all levels of new language acquisition will take place: hearing, speaking, reading, and writing. The student will learn about the culture, history, and geography of Spanish-speaking countries around the world.

Theory 3 hours - Lab 2 hours

Prerequisites: SPA101 and SPA102 or proficiency

**SPA202 Intermediate Spanish II 4 Credits**

This course will consist of reading, conversing, and writing in Spanish at a second year college level. The class will be conducted in Spanish. Attention will be given to culture, history, literature, geography, and music of the Spanish-speaking countries around the world. Emphasis will be placed on learning to use Spanish as a means of communication in the world of today.

Theory 3 hours - Lab 2 hours

Prerequisites: SPA101, SPA102, SPA201 or proficiency

**THEATRE****THE101 Introduction to the Theatre 3 Credits**

To increase comprehension, appreciation, and critical interpretation of the theatre, students will study literary and production elements, historical figures and current innovators, as well as the development of the art form and its effect on society. Technical production projects, literary analysis, and play production critiques encourage exploration of individual interests in theatre arts.

Theory 3 hours

Prerequisite: ENG101 or demonstrated writing skills

**THE150 Introduction to Acting 3 Credits**

This course is designed to give beginning acting students an opportunity to explore the basic skills and methods needed to create believable characters. Students participate in theatre "games", pantomime, and improvisational situations to help strengthen concentration, imagination, vocal quality, and body movement. Emphasis is placed on script analysis, character portrayal, and prepared monologue and scene work. Writing assignments include journals and short analysis papers.

Theory 3 hours

**THE201 History of the Theatre 3 Credits**

This course explores how theatre both mirrors and is influenced by the society and period in which it occurs. Students will examine pivotal plays throughout history and reflect on the culture that inspired them and the artists who crafted them.

Theory 3 hours

Prerequisite: ENG101 or demonstrated writing skills

**THE240 Special Topics in Theatre 3 Credits**

This course offers advanced classes on theatre topics selected for specific college programs or career areas. Possible special topics include History of the Theatre, Readers' Theatre, Children's Theatre, Creative Dramatics, and Fundamentals of Acting.

Theory 3 hours

Prerequisite: ENG101

## WELDING

### **WLD101 Industrial and Welding Safety 2 Credits**

This course will teach students through demonstration and practice the proper use of safety equipment, protective clothing, and procedures applicable to the cutting/welding of metals. Introduces common job-site hazards and protections such as lockout/tag out, and personal protective equipment (PPE). The course will also teach students how to safely operate Shielded Metal Arc Welding (SMAW) equipment, how to safely connect welding current, and demonstrates the safe use of tools for cleaning welds.

Theory 2 hours

Corequisites: WLD102 ,WLD111, WLD121or instructor approval

### **WLD102 Oxyfuel Cutting 2 Credits**

This course will teach students through demonstration and practice the safety requirements for oxyfuel cutting, oxyfuel cutting equipment, and setup requirements. Students will practice how to light, adjust, and properly shut down oxyfuel equipment. Students will perform cutting techniques that include straight line, piercing, bevels, washing and gouging.

Theory 1 hour - Lab 2 hours

Corequisites: WLD101, WLD111, WLD121 or instructor approval

### **WLD111 Shielded Metal Arc Welding (SMAW) I 4 Credits**

This course will teach students through demonstration and practice basic metal preparation, weld quality, types of equipment and set-up, electrodes / selection, and beads / fillet welds. Content will cover flat and horizontal positions.

Theory 2 hours - Lab 4 hours

Corequisites: WLD102 ,WLD111, WLD121or instructor approval

### **WLD121 Shielded Metal Arc Welding (SMAW) II 4 Credits**

This course will teach students through demonstration and practice preparation and setup of arc welding equipment and the process of striking an arc. Students will learn and practice how to detect and correct arc blow, make stringer, weave overlapping beads, and fillet welds. Content will cover vertical and overhead positions.

Theory 1 hour - Lab 6 hours

Corequisites: WLD102 ,WLD111, WLD121or instructor approval

### **WLD 201 Shielded Metal Arc Welding (SMAW) III 4 Credits**

This course will teach students through demonstration and practice weld setup and equipment for making groove welds in a flat, horizontal vertical, and overhead positions.

Theory 1 hour - Lab 6 hours

Corequisite: WLD202 or instructor approval

### **WLD 202 Blueprint Reading for Welders 4 Credits**

This course will teach students through demonstration and practice how to read blueprints by identifying and explaining the different parts of welding symbols, drawings, specifications, and welding procedure specifications. Students will learn how to read welding details of drawings such as lines, fills, object views and dimensions.

Theory 4 hours

Corequisite: WLD201 or instructor approval

# STUDENT POLICIES

## RESIDENCY REQUIREMENTS

Ohio Board of Regent's Rules (Rule 3333-1-10) Ohio Student Residency for State Subsidy and Tuition Surcharge Purposes

### A. Intent and Authority

1. It is the intent of the Ohio Board of Regents in promulgating this rule to exclude from treatment as residents, as that term is applied here, those persons who are present in the State of Ohio primarily for the purpose of receiving the benefit of a state-supported education.
2. This rule is adopted pursuant to Chapter 19 of the Revised Code and under the authority conferred upon the Ohio Board of Regents by Section 3333.31 of the Revised Code.

### B. Definitions

For Purposes of this Rule:

1. A "resident of Ohio for all other legal purposes" shall mean any person who maintains a 12-month place or places of residence in Ohio, who is qualified as a resident to vote in Ohio and receive state welfare benefits, and who may be subjected to tax liability under Section 5747.02 of the Revised Code, provided such person has not, within the time prescribed by this rule, declared himself or herself to be or allowed himself or herself to remain a resident of any other state or nation for any of these or other purposes.
2. "Financial Support" as used in this rule shall not include grants, scholarships and awards from persons or entities which are not related to the recipient.
3. An "institution for higher education" as used in this rule shall mean any university, community college, technical institute or college, general and technical college, medical college or private medical or dental college which receives a direct subsidy from the state of Ohio.

4. For the purpose of determining residency for tuition surcharge purposes at Ohio's state-assisted colleges and universities, "domicile" is a person's permanent place of abode; there must exist a demonstrated intent to live permanently in Ohio, and a legal ability under federal and state law to reside permanently in the state. For the purpose of this policy, only one domicile may be maintained at a given time.
5. For the purpose of determining residency for tuition surcharge purposes at Ohio's state-assisted colleges and universities, an individual's immigration status will not preclude an individual from obtaining resident status if that individual has the current legal status to remain permanently in the U.S.

### C. Residency for Subsidy and Tuition Surcharge Purposes

The following persons shall be classified as residents of the state of Ohio for subsidy and tuition surcharge purposes:

1. A dependent student, at least one of whose parents or legal guardian has been a resident of the state of Ohio for all other legal purposes for 12 consecutive months or more immediately preceding the enrollment of each student in an institution of higher education.
2. A person who has been a resident of Ohio for the purpose of this rule for at least 12 consecutive months immediately preceding his or her enrollment in an institution of higher education and who is not receiving and has not directly or indirectly received in the preceding 12 consecutive months, financial support from persons or entities who are not residents of Ohio for all other legal purposes.
3. A dependent child of a parent or legal guardian, or the spouse of a person who, as of the first day of a term of enrollment, has accepted full-time, self-sustaining employment and established domicile in

the state of Ohio for reasons other than gaining the benefit of favorable tuition rates.

Documentation of full-time employment and domicile shall include both of the following documents:

- (a) A sworn statement from the employer or the employer's representative on the letterhead of the employer or the employer's representative certifying that the parent or spouse of the student is employed full time in Ohio.
  - (b) A copy of the lease under which the parent or spouse is the lessee and occupant of rented residential property in the state; a copy of the closing statement on residential real property located in Ohio of which the parent or spouse is the owner and occupant; or if the parent or spouse is not the lessee or owner of the residence in which he or she has established domicile, a letter from the owner of the residence certifying that the parent or spouse resides at that residence.
- D. Additional criteria which may be considered in determining residency for the purpose may include but are not limited to the following:
1. Criteria evidencing residency:
    - (a) If person is subject to tax liability under Section 5747.02 of the Revised Code;
    - (b) If a person qualifies to vote in Ohio;
    - (c) If a person is eligible to receive state welfare benefits;
    - (d) If a person has an Ohio driver's license and/or car registration
  2. Criteria evidencing lack of residency:
    - (a) If a person is a resident of or intends to be a resident of another state or nation for the purpose of tax liability, voting, receipt of welfare benefits, or student loan benefits (if the

student qualified for that loan program by being a resident of that state or nation);

- (b) If a person is a resident or intends to be a resident of another state or nation for any purpose other than tax liability, voting, or receipt of welfare benefits (see (D) (2) (a) of this rule).

E. Exceptions to the general rule of residency for subsidy and tuition surcharge purposes:

1. A person who is living and is gainfully employed on a full-time or part-time and self-sustaining basis in Ohio and who is pursuing a part-time program of instruction at an institution of higher education shall be considered a resident of Ohio for these purposes.
2. A person who enters and currently remains upon active duty status in the U.S. military service while a resident of Ohio for all other legal purposes that person and any dependents shall be considered residents of Ohio for these purposes as long as Ohio remains the state of such person's domicile.
3. A person on active duty status in the U.S. military service who is stationed and resides in Ohio and his or her dependents shall be considered residents of Ohio for these purposes.
4. A person who is transferred by an employer beyond the territorial limits of the 50 states of the U.S. and the District of Columbia while an Ohio resident for all other legal purposes and his/her dependents shall be considered Ohio residents for these purposes as long as Ohio remains the state of such person's domicile as long as such person has fulfilled his or her tax liability to the state of Ohio for at least the tax year preceding enrollment.
5. A person who has been employed as a migrant worker in the state of Ohio, his or her dependents shall be considered a resident for these purposes provided such person has worked in Ohio at least four months during each of the three years preceding the proposed enrollment.

F. Procedures

1. A dependent person classified as a resident of Ohio for these purposes and who is enrolled in an institution of higher education when his or her parents or legal guardian removes their residency from the state of Ohio shall continue to be considered a resident during continuous full-time enrollment and until his or her completion of any one academic degree program.
2. In considering residency, removal of the student or the student's parents or legal guardian from Ohio shall not, during a period of 12 months following such removal, constitute relinquishment of Ohio residency status otherwise established under paragraph (C) (1) or (C) (2) of this rule.
3. Any person once classified as a nonresident, upon the completion of 12 consecutive months of residency, must apply to the institution he or she attends for reclassification as a resident of Ohio for these purposes if such person in fact wants to be reclassified as a resident. Should such person present clear and convincing proof that no part of his or her financial support is or in the preceding 12 consecutive months has been provided directly or indirectly by persons or entities who are not residents of Ohio for all other legal purposes, such person shall be reclassified as a resident.  
  
Evidentiary determinations under this rule shall be made by the institution which may require, among other things, the submission of documentation regarding the sources of a student's actual financial support.
4. Any reclassification of a person who was once classified as a nonresident for these purposes shall have prospective application only from the date of such reclassification.
5. Any institution of higher education charged with reporting student enrollment to the Ohio Board of Regents for state subsidy purposes and assessing the tuition surcharge shall provide individual students with a fair and adequate opportunity to present proof of his or her Ohio residency for purposes

of this rule. Such an institution may require the submission of affidavits and other documentary evidence which it may deem necessary to a full and complete determination under this rule.

## JEFFERSON COUNTY RESIDENCY REQUIREMENTS

Effective 1987, the following residency requirements must be met for a student to be eligible for in-district tuition rates:

1. As a general rule, a resident of Jefferson County shall mean any person who has maintained a 12-month place or places of residency in Jefferson County and who is qualified to vote as a resident of Jefferson County.
2. In order for a dependent student as defined by federal financial aid regulations to be eligible for the in-district tuition rate a parent or guardian of the student must have maintained a 12-month place or places of residency in Jefferson County and be qualified to vote as a resident of Jefferson County.

### Exceptions to the general rule:

1. For purposes of determining Jefferson County residency the following will be considered exceptions to the "12-month residency rule;"
  - a. Active duty service in the U.S. military services;
  - b. Hospitalization at an "out-of-county" health care facility;
  - c. Enrollment on a full-time basis at an "out-of-county" higher education institution.
  - d. An independent student, the spouse of an independent student, or a dependent child of a parent or legal guardian, has accepted full-time, self-sustaining employment and established domicile in Jefferson County for reasons other than gaining favorable tuition rates.
  - e. Once-emancipated children returning to dependency upon parents who are Jefferson County residents will be considered Jefferson County residents.
2. Students who are receiving federal financial aid will be considered residents of the county as coded by the

financial aid office for the fiscal year in which the aid is received. Students applying to be considered for in-district residency status may be required to submit proof to support their application.

## FAMILY EDUCATION RIGHTS AND PRIVACY ACT OF 1974

Students will be notified of their FERPA rights annually by publication in the student handbook.

### Directory Information

Jefferson Community College has classified the following information as "directory information": name, address, telephone number, e-mail, dates of attendance, enrollment status, degrees and awards received, and honors. If a student does not wish this information to be released to anyone, the student must file a non-disclosure form with the student records.

### Procedure to Inspect Education Records

Students may inspect and review their education records upon request to the appropriate record custodian.

Students should submit to the record custodian or an appropriate college staff person a written request which identifies as precisely as possible the record or records he or she wishes to inspect.

The record custodian or an appropriate college staff person will make the needed arrangements for access as promptly as

possible and notify the student of the time and place where the records may be inspected. Access must be given in 45 days or less from the receipt of the request.

When a record contains information about more than one student, the student may inspect and review only the records which relate to him.

### Right of College to Refuse Access

The college reserves the right to refuse to permit a student to inspect the following records:

1. The financial statement of the student's parents.
2. Letters and statements of recommendation for which the student has waived his or her right of access, or which were placed in file before January 1, 1975.
3. Records connected with an application to attend the college if that application was denied.
4. Those records which are excluded from the FERPA definition of education records.

### Refusal to Provide Copies

The college reserves the right to deny transcripts or copies of records not required to be made available by the FERPA in any of the following situations:

1. The student lives within commuting distance of the college.
2. The student has an unpaid financial obligation to the college.
3. There is an unresolved disciplinary action against the student.

### Fees for Copies of Records

The fee for copies will be \$1 per page.

### Disclosure of Education Records

The college will disclose information from a student's education records only with the written consent of the student, *except*:

1. To school officials who have a legitimate educational interest in the records.

A school official is:

- a person employed by the college in an administrative, supervisory, academic or research, or support staff position.
- a person serving on the Board of Trustees.
- a person employed by or under contract to the college to perform a special task, such as the attorney or auditor.

A school official has a legitimate educational interest if the official is:

- performing a task that is specified in his or her position description or by a contract agreement.
- performing a task related to a student's education.
- performing a task related to the discipline of a student.
- providing a service or benefit relating to the student or student's family, such as health care, counseling, job placement, or financial aid.

2. To officials of another school, upon request, in which a student seeks or intends to enroll. (NOTE: FERPA requires a college or university to make a reasonable attempt to notify the student of the transfer unless it states in its policy that it intends to forward records on request.)
3. To certain officials of the U.S. Department of Education, the Comptroller General, and state and local education authorities, in connection with certain state or federally supported education programs.
4. In connection with a student's request for or receipt of financial aid, as necessary to determine the eligibility, amount or conditions of the financial aid, or to enforce the terms and conditions of the aid.

## Types, Locations and Custodians of Education Records

Types	Location	Custodian
Admissions Records	Admissions Office (if student did not attend)	Director of Admissions
Admissions Records	Registrar's Office (if student did enroll)	Registrar
Cumulative Academic Records	Registrar's Office (if student did enroll)	Registrar
Health Records	Executive Vice President for Academic & Student Affairs	Executive Vice President
Financial Records	Business Office	Vice President for Business Services
Financial Aid Records	Financial Aid Office	Director of Financial Aid
Placement Records	Placement & Alumni Office	Director of Career Planning, Placement, and Alumni
Disciplinary Records	Executive Vice President	Executive Vice President for Academic & Student Affairs
Occasional Records (Student education records not included in the types listed above such as minutes of faculty committee meetings, copies of correspondence in offices not listed, etc.)	The appropriate official will collect such records, direct the student to their location, or otherwise make them available for inspection and review	The college staff person who maintains such occasional systems records

5. If required by a state law requiring disclosure that was adopted before November 19, 1974.
  6. To organizations conducting certain studies for or on behalf of the college.
  7. To accrediting organizations to carry out their functions.
  8. To parents of an eligible student who claim the student as a dependent for income tax purposes.
  9. To comply with a judicial order or a lawfully issued subpoena.
  10. To appropriate parties in a health or safety emergency.
  11. Directory information.
  12. To the student.
  13. Results of a disciplinary hearing.
  14. Results of a disciplinary hearing to an alleged victim of a crime of violence
  15. Final results of a disciplinary hearing concerning a student who is an alleged perpetrator of a crime of violence and who is found to have committed a violation of the institution's rules or policies.
  16. Disclosure to a parent of a student under 21 if the institution determines that the student has committed a violation of its drug or alcohol rules or policies (regardless of student's dependent status).
- Record of Requests for Disclosure**
- The college will maintain a record of all requests for and/or disclosure of information from a student's education records. The record will indicate the name of the party making the request, any additional party to whom it may be redisclosed, and the legitimate interest the party had in requesting or obtaining the information. The record may be reviewed by the parents or eligible student.
- Correction of Education Records**
- Students have the right to ask to have records corrected that they believe are inaccurate, misleading, or in violation of their privacy rights. Following are the procedures for the correction of records:
1. A student must ask (appropriate official of) the college to amend a record. In so doing, the student should identify the part of the record he or she wants changed and specify why he or she believes it is inaccurate, misleading, or in violation of his or her privacy or other rights.
  2. The college may comply with the request or it may decide not to comply. If it decides not to comply, the college will notify the student of the decision and advise him/her of his/her right to a hearing to challenge the information believed to be inaccurate, misleading, or in violation of the student's rights.
  3. Upon request, the college will arrange for a hearing and notify the student, reasonably in advance, of the date, place and time of the hearing.
  4. The hearing will be conducted by a hearing officer who is a disinterested party; however, the hearing officer may be an official of the institution. The student shall be afforded a full and fair opportunity to present evidence relevant to the issues raised in the original request to amend the student's education records. The student may be assisted by one or more individuals, including an attorney.
  5. The college will prepare a written decision based solely on the evidence presented at the hearing. The decision will include a summary of the evidence presented and the reasons for the decision.
  6. If the college decides that the challenged information is not inaccurate, misleading, or in violation of the student's right of privacy, it will notify the student that he or she has a right to place in the record a statement commenting on the challenged information and/or a statement setting forth reasons for disagreeing with the decision.
  7. The statement will be maintained as part of the student's education records as long as the contested portion is maintained. If a state college discloses the contested portion of the record, it must also disclose the statement.
  8. If the college decides that the information is inaccurate, misleading, or in violation of the student's right of privacy, it will amend the record and notify the student, in writing, that the record has been amended.

#### Right to File

The student has the right to file a complaint with the U.S. Department of Education concerning alleged failures by JCC to comply with the requirements of FERPA. The name and address of the office that administers FERPA is

Family Policy Compliance Office  
U.S. Department of Education  
400 Maryland Avenue S.W.  
Washington D.C. 20202-4605

## FINANCIAL DISCLOSURE

Financial statements are available on an annual basis in the Business Office. These statements are audited annually by the Auditor of the State of Ohio or a designated independent CPA firm. Additional financial information is prepared on a periodic basis. A request for financial information is to be made to the vice president for business services/treasurer. The college will make financial information available within a reasonable period of time.

## POLICY REGARDING ALCOHOL/ILLCIT DRUG USE

### Mission

Among its background statements, Jefferson Community College provides "opportunities for the student to develop increased personal and social responsibility as well as the knowledge, self-assurance and self-direction required to achieve personal satisfaction and approach self-actualization in life." In this context, the college believes students should be provided the education necessary to make responsible decisions regarding their own use of alcohol and the place alcohol and drug use has in the work place and in society.

### Goals

To carry out this mission, the college has established the following goals with respect to alcohol and illicit drug use:

1. To provide an environment at the college that promotes responsible decision-making on the part of the students regarding alcohol and illicit drug use.
2. To provide the academic and support services students need in order to make responsible decisions regarding the use of alcohol and illicit drugs.
3. To provide an environment which reinforces the federal, state and local laws regarding the use of illicit drugs.
4. To provide to students who are experiencing difficulty in the

responsible use of alcohol/drugs appropriate crisis intervention, counseling and referral to designated local agencies for treatment.

5. To provide students with the opportunity to influence the development of, and participate in, the Jefferson Community College Alcohol and Illicit Drug Use Policy and educational program.

### Policy and Program

To reach these goals, Jefferson Community College has established the following alcohol and illicit drug use policies and programs.

#### 1. Environment

The college believes that quality education can best be achieved in an environment that is conducive to academic pursuits. The college also believes that alcohol and drug abuse are detrimental to the maintenance of such an environment. Jefferson Community College therefore:

- A. Forbids the unauthorized possession or use of alcohol or illicit drugs by students on campus, at intern stations, or at practicum sites. Violations should be reported to college staff, who will refer the information to the executive vice president for academic and student affairs for investigation and appropriate actions. Violations will result in imposition of penalties up to and including the immediate suspension or dismissal of the student from the college and possible referral to local law enforcement agencies for prosecution.
- B. Imposes, at its discretion and determined on a case-by-case basis, penalties less severe than suspension, expulsion, and/or referral for prosecution dependent upon the circumstances. Some of these penalties include, but are not limited to, written warnings, probation, partial suspension and mandatory participation in a treatment program.
- C. Forbids the unauthorized possession or use of alcohol and/or illicit drugs on campus by others (i.e. those who are not covered by the student and employee policies of the college). Such persons when discovered will be ordered to immediately leave campus and/or be reported to local law enforcement officials.

- D. Forbids alcohol to be purchased, sold, or used on campus during any student function.
- E. Encourages all persons on the campus to abide by the local and state laws pertaining to alcohol and drug use and will fully cooperate with law enforcement agencies to ensure these laws are enforced.

#### 2. Education and Instruction

In order for students to make responsible decisions regarding the use of alcohol and to be cognizant of the health dangers and legal ramifications of drug abuse, students need appropriate and accurate information. To make this available to them, the college provides the following information:

- A. The policy will be fully printed in the college catalog which is distributed to all students and employees.
- B. During new student orientation, students are provided with:
  1. A review of the college's alcohol and illicit drug use policy and procedures.
- C. Selected classes such as psychology, sociology, etc. will include exposure to appropriate information regarding alcohol and illicit drug use as part of their objectives.
- D. The college library contains books, periodicals and other printed material which students are encouraged to consult for information about alcohol and illicit drug use, alcoholism and addiction, health risks associated with alcohol or drug use, and legal sanctions for violations of laws regarding alcohol and drug use.

#### 3. Policy Review

In order that the Alcohol and Illicit Drug Use Policy is reviewed and revised to ensure that it continues to address institutional needs, the following procedures will be implemented:

- A. All incidents in which the policy has been applied will be documented in a file to be maintained in the office of the executive vice president for academic and student affairs.
- B. During summer, on an annual basis, the policy, any cases where the policy has been applied, and any other information or occurrences related to the policy will be reviewed by the president's cabinet. Desired changes

based upon this review which will make the policy more effective in accomplishing its purpose will be made and communicated to the college community.

4. College policies regarding alcohol and illicit drug use by college employees are contained in a separate statement found in the employee handbooks and the personnel policy manual. Individuals who are also college student employees are subject to applicable policies and penalties contained in the employee policy statement as well as the student and general policy outlined above.

## CONTROL OF INFECTIOUS DISEASES

### Purpose:

As an institution which is committed to nondiscrimination in the provision of educational services and in employment, the college must develop policies which ensure the rights of the individual and at the same time take necessary precautions to safeguard the health of all students and employees.

The following general procedures are implemented to reduce the risk of contagion of infectious diseases and, at the same time, to the degree possible, make educational and employment opportunities available to persons contracting infectious diseases. Specific divisions and departments of the college should develop specific procedures based on this general policy. The term student for the purposes of this policy includes credit students, noncredit students and children enrolled in the preschool.

1. It is the responsibility of all students and employees to comply with federal, state and local law regarding the reporting of infectious diseases which an individual has acquired or to which they have been exposed. The county and city health departments or a family physician can provide information regarding this matter.
2. Students or employees who have an infectious disease including Acquired Immune Deficiency Syndrome (AIDS), Aids Related Complex (ARC), or a positive HIV (Human Immunodeficiency Virus) antibody test will be allowed on campus for classroom attendance or for employment as long as they are physically able to satisfy

course requirements or job duties/responsibilities and do not constitute a reasonable threat to the health of other students and employees. The college reserves the right to limit student/employee participation in laboratory work or in clinical or practicum assignments. The decision regarding whether an individual's particular disease constitutes a threat to students and/or employees or if limits will be placed on the student's/employee's participation in classroom instruction, laboratory work, or clinical or practicum assignments will be made by the college president on a case-by-case basis. Students and/or college employees who have infectious diseases may be required to comply with health sanitation and safety procedures not required of all students or employees as a condition of continued attendance or employment.

3. All decisions regarding the continued enrollment or employment of an individual with an infectious disease and/or conditions placed on the continued enrollment or employment will be based on the most recent information and recommendations issued by the National Centers for Disease Control, the Ohio Department of Health, or the Jefferson County Department of Health. In addition, the college administration may confer with the student's/employee's private physician for information that may be pertinent to the decision.
4. All information concerning people with an infectious disease including AIDS, ARC, or a positive HIV antibody will be considered as confidential information. Any employee or student who has reason to believe that the presence of a student on campus constitutes a serious potential threat to students and employees should bring this matter to the attention of the executive vice president for academic and student affairs. Any employee or student who has reason to believe that the presence of an employee on campus constitutes a serious potential threat to students and employees should bring this matter to the attention of the vice president for administrative services. The appropriate vice president will inform the president of such notification. The president may share the information

with other appropriate college personnel.

5. The college will provide education through referral to the local health department for students and employees with known infectious diseases to assist them in participating in programs and college life in a way which would maintain safety and safeguard health. Persons with an infectious illness including AIDS, ARC, or a positive HIV antibody test will be expected to comply with precautions which are based on current knowledge or real or potential modes of transmission.
6. During the prevalence of contagious diseases (such as measles or chicken pox) on campus, the college will attempt, through referral to the local health department, to counsel immunologically compromised individuals regarding special precautions.
7. Students and employees exposed to blood, body fluids, or items which are in direct contact with body fluids or waste will be instructed in current infection control techniques by the appropriate supervisor or faculty member.
8. College employees responsible for educating students and employees will periodically confer with the local health department to ensure practices are current.
9. Records regarding students with or exposure to infectious diseases will be retained in the Academic and Student Affairs Division. Records regarding employees with or exposed to infectious diseases will be retained in the Administrative Services Division.
10. Special precautions need to be taken by those infected and by students and employees in handling blood, body fluids, or items which are in direct contact with body fluids or body wastes. Each division or department which routinely contacts blood, body fluids, or items which are in direct contact with body fluids or body wastes must develop a specific policy on this matter for that area. The policy developed should include the following considerations:
  - A. Blood, other body fluids, or items which are in direct contact with body fluids or body wastes from any person may harbor a number

of organisms that are potentially infectious to others. It is prudent to treat blood, body fluids, or items which are in direct contact with body fluids or body wastes with caution regardless of the apparent health of the person.

- B. In handling blood, body fluids, or items which are in direct contact with body fluids or body wastes and to ensure proper cleaning and disinfection, it is recommended that: Surfaces soiled with blood, urine, feces, vomitus, etc. should be thoroughly washed with soap and water, then disinfected with a 10 percent solution of household bleach and water (one part bleach to nine parts water). This solution should be freshly prepared for each use.
- C. Personnel cleaning the spill should wear gloves and wash hands thoroughly when finished.
- D. Disposable towels should be used whenever possible.
- E. Plastic waste bags should be used whenever possible so that materials are not handled prior to disposal. Plastic liners should be removed and replaced with new liners each time the waste containers are emptied.
- F. Mops should be thoroughly rinsed in the disinfectant solution.
- G. For injuries that result in bleeding, nosebleeds, menstrual accidents, etc., the person assisting should wear gloves whenever possible. Direct contact is potentially infectious, especially when there are breaks in the skin, as in chapping or eczema. Proper handwashing (soap and running water for 15 seconds) significantly reduces the risk of infection from contact with all potentially infectious body fluids.

## DISRUPTIVE STUDENTS

It is JCC's policy that it will not permit disruptive behavior of a student to interfere with the educational efforts of others. Behavior that interferes with effective instruction or that interferes with the maintenance of an orderly and academically focused learning environment will not be tolerated.

These steps are recommended for addressing a disruptive student:

1. Advise the student individually and the class generally regarding what behaviors are considered disruptive. It may be advisable to outline expected behaviors as part of the course orientation at the first class session.
2. A student should be warned immediately when he/she engages in disruptive behavior. Once a student has been warned, repeated infractions should be brought to the attention of the dean.
3. If a student refuses to cooperate, becomes confrontational, or the behavior is so disruptive that it cannot be tolerated, immediately summon the college's security guard who will handle removing the student from class.
4. Once a case of misconduct has been reported to the dean and/or security, it will be investigated. As with any disciplinary matter, a student will be afforded due process rights.
5. Student misbehavior outside of the classroom also need not be overlooked or ignored by any college employee. Behaviors such as profanity use, vandalism, horseplay and loud talking in the hallways, etc. are not acceptable. An employee should not hesitate to advise a student of inappropriate behavior or report it to security, a dean or one of the vice presidents.

All students are expected to conduct themselves according to commonly accepted standards of academic and social courtesy. Therefore, as long as JCC has communicated in advance its standards, consistently and fairly applies them, and follows due process in discipline matters, a disruptive student can be removed, temporarily or permanently, from courses and from the college in general.

## STUDENT CODE OF CONDUCT

Jefferson Community College's Student Code of Conduct and Academic Honesty Policy is available at [www.jcc.edu](http://www.jcc.edu).

## CAMPUS SECURITY

The federal government, through public law 102-26, requires all recipients of federal Title III aid to formulate and publish policies and statistics regarding campus security. The following is in compliance with the final regulations of this act, effective July 1, 1997, and amended in 1998.

1. All incidents of theft, vandalism, other criminal activity, or accidents should be reported immediately by the victim or those witnessing said incident to the vice president for administrative services, security guard on duty, information-visitor counter receptionist, or evening coordinator. Complete details of the incident should be provided. Procedures for reporting fires or tornadoes are outlined in the following sections of this catalog. As appropriate, the college will summon police, fire, or ambulance personnel to campus to assist in responding to incidents reported. In cases of criminal activity, the victim of such occurrences will be encouraged to file a report/charges with the local police department. The college also may elect to file a report/charges regarding any infraction of law occurring on campus.
2. The college has declared no part of its campus or grounds a public place. The only persons permitted on college property are those with legitimate need to be on campus related to the mission and goals of the college such as taking part in classes or activities sponsored by the college, attending activities sponsored by outside organizations approved through the college's outside building use policy, visitors touring the college as part of the admissions process, vendors doing business with the college and similar purposes. No one other than employees are generally permitted on campus after 10 p.m. The college reserves the right to question individuals on college property regarding their identity and reason for being at the college and request or order the individual(s) to leave college property if the reason for being on campus is not directly or indirectly related to the college's mission and goals as defined in this catalog as interpreted by the college administration. As appropriate, the

college will utilize the resources of local law enforcement agencies in maintaining a safe and secure campus environment.

3. The college employs a security staff to enforce college policies dealing with safety and security issues. These employees do not have police powers and, as appropriate, summon the local police. The college encourages the reporting of any criminal activity occurring on campus to the security staff and/or local police. The college cooperates fully with any police investigations and will bring charges against perpetrators as appropriate. In addition to or separate from any civil penalties which criminal activity may engender, the college can impose campus-based penalties including but not limited to fines, probation, suspension, or expulsion from the college according to the procedures outlined in the Student Regulations Committee section of this catalog.
4. All Jefferson Community College students are expected to abide by local, state and federal laws whether on campus or at an off-campus activity, clinical, etc. conducted by the college or in association with the college. The same reporting procedures, referral to local police agencies and campus-based penalties which would apply to on-campus criminal activity will apply to off-campus incidents occurring at college-sponsored activities as appropriate.
5. The college will not tolerate the illegal use of alcohol or drugs on campus or at off-campus activities. College policies and procedures regarding the use of alcohol and drugs are contained in the Policy Regarding Alcohol/Illicit Drug Use contained in this catalog.
6. Jefferson Community College has been designated a tobacco free facility. The use of any type of tobacco inside the facility is strictly prohibited. All use of tobacco is restricted to two designated areas: on the upper level in the posted area in the courtyard and on the lower level in the posted area adjacent to the student lounge. All smokers are encouraged to dispose of cigarette trash in the receptacles provided.

7. All institutions which receive federal aid, including those which distribute federal aid to students, i.e. Pell Grants, Guaranteed Student Loans, Work-Study, etc. are required, effective 9/1/92, to inform students regarding the occurrence of certain crimes on campus. The following information total for 2002-2004 calendar years is provided to meet this federal requirement.

**No. of Occurrences on Campus**

	2003	2004	2005
Type of Crime			
Murder	0	0	0
Rape/sexual offenses--forcible or non-forcible	0	0	0
Robbery	0	0	3
Aggravated Assault	0	0	0
Burglary (lockers, missing books, etc.)	1	3	3
Motor Vehicle Theft	0	1	0
Weapon Law Violation	0	0	0
Liquor Law Violations	0	0	0
Drug Abuse Violations	0	0	0

The preceding information is based upon information reported to campus authorities or local police agencies and is defined according to the Uniform Crime Reporting System of the Department of Justice, Federal Bureau of Investigation and the modifications in such definition as implemented pursuant to the Hate Crime Statistics Act.

8. The college will not tolerate sexual offenses committed on campus or any off-campus, college-sponsored activity. Victims of such offenses should preserve evidence for the proof of a criminal offense and report the offense to the local police who will have jurisdiction in the matter and to the director of campus security who will assist the victim in contacting the police if requested. To assist a student in avoiding being the victim of such offenses, the college makes available, periodically, commercially produce pamphlets regarding the subject. These are free and available in the self-help brochure rack located in the record/financial aid office complex. Referral to local sexual offense prevention and victim support services is available through the college's counseling staff.

Persons found guilty of sexual offense

may be subject to campus-based penalties in addition to or separate from civil penalties which may occur including but not limited to: fines, probation, suspension, or expulsion from the college. In cases where the college is considering campus-based penalties: The accused and accuser will have the same opportunity to have others present during the proceedings, and both will be informed of any outcomes of the proceedings; in addition to other rights and procedures for such proceeding contained in the student regulations section of this catalog. Upon request from an alleged victim of a sexual offense, the college will attempt to change a victim's academic situation if this is directly related to the alleged offense, and other accommodations are reasonably available.

9. Any questions or comments regarding the college's policies and procedures related to campus crime and security should be directed to the vice president for administrative services, executive vice president for academic and student affairs, or college president.

## TITLE IX AND SECTION 504 GRIEVANCE PROCEDURE

### Students Alleged Discrimination Grievance Procedure

In accordance with Federal and State OCR (Office for Civil Rights) Guidelines, any student who believes Jefferson Community College or any of the college's staff, teachers, and administrators have inadequately applied the principles of and/or regulations of Title VI of the Civil Rights Act of 1964 (race, color, national origin), Title IX of the Education Amendment Act of 1972 (sex/gender), and Section 504 of the Rehabilitation Act of 1973 (disability) she/he may bring forward a complaint which shall be referred to as a formal grievance. However, whenever possible and practical, an informal solution to the alleged grievance is encouraged and should be attempted at the dean or administrator level.

However, if an informal acceptable solution cannot be attained, formal Title

IX and Section 504 grievance procedures shall commence. The complainant may file a complaint directly with the office for Civil Rights, U. S. Department of Education, and/or may use the internal grievance procedure indicated below.

#### STEP 1

An alleged formal discrimination grievance complaint should first be made to the dean or executive vice president for academic and student affairs within ten school days of the date the incident occurred.

#### STEP 2

If not resolved at Step 1, the decision may be appealed to the vice president for administrative services, Title IX and/or Section 504 Coordinator, within five school days.

#### Title IX/Section 504 Coordinator

James E. Morgan  
740- 264-5591 ext. 119

#### STEP 3

If not resolved at Step 2, the decision may be appealed to the college's president who functions as the final mediator at the local level.

#### STEP 4

If not resolved at Step 3, the decision may be appealed by the complainant to the Office for Civil Rights, U. S. Department of Education, 55 Erievue Plaza, Room 300, Cleveland, Ohio 44114-1816.

**NOTE:** Parents/guardians do not have to be present at the informal complaint meeting. However, parent(s) and/or guardian(s) must be present for youths under age 18 at all levels of the formal alleged discrimination process.

## EMERGENCY ALARMS AND BUILDING EVACUATION

For the safety of all persons using the college's facilities, emergency alarm and building evacuation procedures are detailed below. All students should read and become familiar with these procedures.

### Reporting Fire or Other Emergencies and Building Evacuation Procedures

1. Any person seeing a fire or heavy smoke during day hours should pull the closest fire alarm box located throughout the building. The person

should then seek the closest Jefferson Community College employee to report his/her name and the location of the fire. Any other emergency where the safety of persons in the building is in immediate jeopardy also should be handled in the manner above.

2. If no fire or heavy smoke is observed but smoke is smelled or seen, the person noticing the smoke should not pull the alarm box. The person should inform the closest Jefferson Community College employee of the situation. Any other emergency which may require the evacuation of the building should be reported in this manner. If there is any doubt regarding the potential seriousness of the emergency, the procedures outlined in No. 1 should be followed.
3. The bell chime/flashing lights are the signal that the building is to be evacuated because of fire or other emergency.
4. When this signal is heard or seen all students, college employees and visitors should proceed in an orderly manner to the closest exit. All outside exits are marked with a sign over the door. Each classroom has a sign with the closest exit identified. In addition, a map and detailed evacuation instructions are posted in each classroom. All doors should be left open during building evacuation.
5. Once outside, persons evacuating the building should congregate in the closest parking lot or basketball court area staying at least 300 feet from the building. Evacuation of the building does not mean automatic cancellation of class. Students and staff should remain in the parking lot area until a college official (president, vice president, department dean or security director) informs them to leave the grounds. Likewise, no person should re-enter the building until advised to do so by one of these officials.
6. During evening hours of operation, the emergency notification and evacuation plan will be that outlined above. The evening coordinator will coordinate the alarm and evacuation procedures.

#### Tornado Alert Procedure

1. Any person hearing a radio or television announcement of a tornado watch should report this information either directly or through a college employee to the switchboard operator.
2. Any person either hearing an announcement of a tornado warning for the immediate vicinity of the college or sighting a tornado should report this information either directly or through a college employee to the switchboard operator.
3. The security coordinator will sound an air horn which signals the imminent approach of a tornado. Upon hearing this sound, students and staff should proceed in an orderly manner according to this plan:

Warning is three short blasts on a hand-held air horn, a 15-second delay followed by three short blasts again.

This alert will last for three minutes. Do not panic or run but proceed to the closest emergency shelter area listed below.

2nd Floor Rooms 2500-2527 will go to ground floor interior hallway, both sides of hallway; stay clear of doors and glass

Ground Floor Rooms 1500-1546 will go to the ground floor interior hallway, both sides of hallway; stay clear of doors and glass

2nd Floor Rooms 2200-2217 will go to the ground floor interior hallway, both sides of hallway; stay clear of doors and glass

Ground Floor Rooms 1201-1217 will go to the ground floor interior hallway, both sides of hallway; stay clear of doors and glass

Rooms 2600-2631 Go to maintenance area garage, loading dock area; stay clear of doors or glass

Rooms 2000-2102 Ground floor north wing interior hallways; stay clear of doors and glass

Notification to disperse will be one long blast, a 15-second delay, one long blast, 15-second delay. This will continue for one minute.

4. During evening hours information about the approach of a tornado will be delivered to the evening

coordinator who will instruct the security staff to sound the alarm. The shelter locations will remain the same. During weekend hours the security guard should verbally instruct persons in the building regarding the location of the closest shelter area.

#### Fire and Tornado Information

##### Distribution and Alarm Test Procedures

1. At least one time each semester the college will sound the evacuation and tornado alarms so that the students and employees are familiar with each signal. The alarm signal will be sounded each day of the week at an announced time during the day and evening hours. The dates and times for the sounding of alarms will be published in **Newsbreak**. Students will not leave class or the building during the test procedure. Students or employees who cannot hear the alarm(s) should report this fact and the location to the security staff or executive vice president for academic and student affairs.
2. Any time either alarm system sounds other than announced system tests times and dates all students, visitors and employees will implement the evacuation or tornado procedures. In case of any doubt when the alarm sounds, it should be assumed that the situation is not a test but a real emergency.

## POLICY ON FOOD & BEVERAGE CONSUMPTION ON CAMPUS

Consumption of food and beverages in classrooms, labs and lecture halls can be unsanitary, distracting to fellow students and instructors, and unsafe (particularly where chemicals are present); therefore the following policy is in place.

#### Policy

1. Consumption of food or beverages will not be permitted in the Jefferson Community College building in any classroom, lecture hall, labs, library and computer complex. Food and beverages may be consumed in lounge, outside the lecture halls and other hallway areas.

2. Exceptions to this policy may be approved for special events such as class parties. Approval of the appropriate department head must be received prior to the event.
  - A. If a special event is scheduled, all cans, food, paper and other residue from this event must be disposed of in the proper manner.
3. As responsible members of the college community, it is the responsibility of all students and employees to voluntarily comply with the enforcement of this policy. Violations of this policy should be courteously called to the attention of the violator by any member of the campus community observing the violation. Faculty members should inform students of the policy at the beginning of each term and not allow students to bring food or beverages into classrooms and other restricted areas. Repeated violation should be brought to the attention of the executive vice president for academic and student affairs or other appropriate division administrator, who will take appropriate action on a case-by-case basis to resolve the matter.

## ON-CAMPUS POSTING AND DISTRIBUTION OF MATERIAL

The college's building and grounds are designated for use in achieving the goals of the institution. Use of the facilities is limited to those activities which support these goals and the continued ability of the college to provide general and technical education. No part of the college campus has been designated as a public place available for general use not related to the college's purposes.

The following written procedures are established to ensure that on-campus posting and distribution of material can be effectively administered and is consistent with the college's goals.

### Procedures:

1. In order to identify accurately all bulletin boards located in the hallways or lounges, each board will be numbered; the number will be posted on the board.
2. All bulletin boards will be designated for specific uses. Use of each board will be restricted to the use designated. Material posted on the boards which is not consistent with the designated use will be removed. The executive vice president for academic and student affairs periodically will publish a list of the designated use for each board. This policy statement does not cover bulletin boards located in offices or classrooms.
3. All material posted on college bulletin boards (except material posted on bulletin boards designated for use by a particular major or technology) must be stamped to show approval for use by the executive vice president for academic and student affairs. Material posted on departmental or major bulletin boards must be approved by the appropriate administrator or staff member. Material not approved for posting will be removed.
4. Only material submitted by a student or full- or part-time college employee will be considered for approval for posting. The college bulletin boards are not available to nonstudents and non-employees.
5. Campus distribution of any materials by nonstudents or non-employees is not permitted.
6. No materials, announcements, signs, etc. may be posted on walls, windows, on the college grounds, or in any other places except the college bulletin boards.
7. The showcases located throughout the building are designated for classroom-related and student activities use. The executive vice president for academic and student affairs coordinates the use of the showcases.
8. The college reserves the right to deny the use of its bulletin boards, campus, or grounds to any individual or group if such use is judged by the college administration to be detrimental to the well-being of the college.

## JCC ACADEMIC WITHDRAWAL GRADE ASSIGNMENT

JCC faculty are permitted to assign an Academic Withdrawal (AW) grade at any time during the semester in cases of excessive student absences. The college hopes that this practice will advance and support the atmosphere of community learning at JCC and will encourage students to contact instructors when they are absent from class.

According to the Academic Withdrawal stipulations, any individual instructor will be permitted to remove any student from any class roster if faced with an extended, unexcused student absence.

It is the faculty member's right to use or to NOT use this grade assignment. Instructors will notify students of their use/non-use of Academic Withdrawal on the first day of class and/or in the course syllabus. If the instructor intends to use Academic Withdrawal, the conditions for assigning this grade will be clearly stated in the syllabus.

JCC Academic Withdrawal will follow these stipulations:

- JCC faculty may assign the Academic Withdrawal grade at any time during the semester for violations of instructor attendance requirements as stated in that instructor's syllabus.
- JCC faculty will make every reasonable attempt to contact a student via phone or email before submitting an Academic Withdrawal, to ensure that the student is aware the action will be taken.
- Faculty members will keep detailed records of when contact was attempted in case of appeal.
- It is the responsibility of each JCC student to ensure that his/her contact information is current and correct as recorded by the Student Records office. In the instance that a student's phone number, street address, and email address are all

incorrect, and contact cannot be made by a JCC faculty member, the academic withdrawal will be performed without notice.

- If so desired by a student, the student and faculty member can discuss avoiding the Academic Withdrawal on a case-by-case basis. However, it is up to the student to contact the faculty member within the allotted time given for a reply, as specified on the instructor's syllabus.
- The Academic Withdrawal is being instated only to remove absentee students from course rosters. This practice is not intended to be used by a student to avoid receiving a failing grade at the end of a term.
- All JCC faculty members have the choice to assign an academic withdrawal grade. Students are advised to check with individual instructors, or consult course syllabi, for further information.
- A student will receive an official notification via letter once this action is taken. The letter will be placed in the student's file.

## STUDENT RESPONSIBILITY FOR HEALTH CARE INSURANCE

The college does not provide health care insurance for students. Students are strongly encouraged to acquire appropriate health care coverage since the college is not responsible for health care costs that may result from illness or accidents that occur on or off campus, or as a result of participation in student activities, seminars, practicum/clinical sites or other work sites. Should a student want to acquire health care insurance, information about student plans is available through the academic and student affairs office. Specific college programs may require proof of health insurance coverage as a requirement of participation in that program.

## ADMISSIONS POLICY FOR THOSE COMPLETING HOMESCHOOLING

The college will accept and process applications of homeschool graduates under the same guidelines as used for high school graduates and people who have attained a General Education Diploma, as long as the homeschool graduates meet the prerequisites detailed in the policy maintained by the Division of Academic and Student Affairs.

## CONDITIONAL ACCEPTANCE OF EXCEPTIONALLY QUALIFIED STUDENTS UNDER 16

Under very extraordinary circumstances, students under the age of 16 may be considered for admission to attend selected credit courses at JCC if the applicant meets the conditions detailed in the policy maintained by the Division of Academic and Student Affairs.

## SEXUAL HARASSMENT POLICY

The Jefferson Community College administration, faculty, staff, student employees, students, and volunteers are responsible for assuring that the college maintains an environment for work and study free from sexual harassment. Sexual harassment is unlawful and impedes the realization of the college's mission of excellence in education, scholarship, and service. The college community seeks to eliminate sexual harassment through education and by encouraging faculty, staff, student employees, students, and volunteers to promptly report concerns or complaints.

### 1. Definition of Sexual Harassment

Sexual harassment includes, but is not limited to, unwelcome or unwanted sexual advances, requests for sexual favors, and other verbal, visual or physical conduct of a sexual nature when any one of the following criteria is met:

- A. Submission to such conduct is made either explicitly or implicitly a term

or condition of an individual's employment or academic status;

B. Submission to or rejection of such conduct by an individual is used as the basis for employment or academic decisions affecting such individual; or

C. Such conduct has the purpose or effect of unreasonably interfering with an individual's work or academic performance or creating an intimidating, hostile, or offensive environment for working, or learning on campus.

Sexual harassment can occur between any individuals associated with the college, e.g. an employee and a supervisor; coworkers; faculty members; a faculty, staff member, or student and a customer, vendor, or contractor; students; or a student and a faculty member. Sexual harassment may occur between persons of the same sex or persons of the opposite sex.

### 2. Examples of Sexual Harassment

Examples of sexual harassment include, but are not limited to:

A. Direct or implied threats that submission to sexual advances will be a condition of employment, work status, promotion, grades, or letters of recommendation;

B. Direct propositions of a sexual nature and/or subtle pressure for sexual activity that is unwanted and unreasonably interferes with a person's work or academic environment;

C. Some incidents of physical assault;

D. A pattern of conduct that unreasonably interferes with the work or academic environment (not legitimately related to the subject matter of the course) including:

1. Sexual comments or inappropriate references to gender;

2. Sexually explicit statements, questions, jokes, or anecdotes regardless of the means of communication (oral, written, electronic, etc.)

3. Unwanted touching, patting, hugging, brushing against a person's body, or staring;

4. Inquiries or commentaries about sexual activity, experience, or orientation;

5. The display of inappropriate

sexually oriented materials in a location where others can view them.

### 3. Reporting Procedure

The Jefferson Community College Board of Trustees encourages and expects any employee or student who feels that he/she has been subjected to sexual harassment to promptly report the incident.

An employee should report any event involving sexual harassment to the vice president for administrative services or the college president.

A student should report a complaint of alleged harassment to the executive vice president for academic and student affairs or the college president.

Upon receipt of a sexual harassment complaint from an employee or student, the complaint should be promptly reported to the office of the vice president for administrative services. The vice president for administrative services possesses the responsibility and authority to receive and investigate all sexual harassment complaints involving college employees and students.

In the event the alleged harasser is the designated authority to receive and investigate complaints, the complainant should directly contact the college president or any college vice president.

College administrators, faculty, staff, student employees, and volunteers who witness and/or experience sexually harassing conduct are required to report such conduct to the vice president for administrative services or another designated college official.

All complaints will remain confidential to the maximum extent permitted under law.

### 4. Investigation

Unless withdrawn by the complainant, all complaints of sexual harassment will be immediately investigated and promptly resolved. The complainant

will be asked to reduce any charge to writing to assure clarity and to document the process of investigation.

Upon receipt of an allegation of co-worker, employee-to-student, student-to-student, or employee-to-member of the public sexual harassment, the vice president for administrative services or another designated college official will initiate an investigation into the complaint.

Investigations of alleged incidents of sexual harassment shall be confidential and conducted in a manner that respects both the privacy of all parties to the extent permitted by law and to the extent practical and appropriate under the circumstances.

If the investigation yields insufficient information to conclude sexual harassment has occurred, the matter will be recorded as unresolved; and the parties will be so notified. A written record of the investigation will be maintained by the administration separate and apart from any student or personnel file.

### 5. Discipline

Any employee who permits or engages in sexual harassment of anyone involved with the college (be it a student, employee, or member of the public) may be subject to disciplinary action up to and including termination/dismissal.

Any student who engages in the sexual harassment of anyone in the college setting may be subject to disciplinary action up to and including expulsion.

The range of discipline for employees includes, but is not limited to: demanding an apology; counseling the parties involved; requiring attendance at appropriate seminars/workshops; issuing an oral or written reprimand; transfer or reassignment; suspension; and the recommendation to the Board of Trustees that the individual against whom the claim is made be discharged.

The range of discipline for a student includes, but is not limited to: demanding an apology; issuing an oral or written warning; conducting a conference with the student; and expulsion.

### 6. Rights of Individual Who is the Subject of a Sexual Harassment Claim

An individual who is the subject of a sexual harassment complaint shall be offered the opportunity to be interviewed by the vice president for administrative services and to present his/her position with regard to the complaint. The individual is entitled to be accompanied during his/her interview with the vice president for administrative services by a representative of his/her choice. The individual may also submit his/her response to the complaint in writing.

### 7. Retaliation Prohibited

The Board of Trustees prohibits retaliatory behavior against any complainant or any participant in the complaint process. The initiation of a complaint of sexual harassment will not reflect negatively on the student or employee who initiates the complaint nor will it affect the individual's academic standing or employment status, rights, or privileges.

The Board of Trustees will not discriminate against, coerce, intimidate, threaten, or interfere with any individual because the individual made a charge, testified, assisted, or participated in any manner in an investigation, proceeding, or hearing pursuant to this policy, or because that individual exercised, enjoyed, aided, or encouraged any other individual in the exercise of enjoyment of any right granted or protected by this policy.

## 8. Files and Record of Investigation

Sexual harassment complaints and investigation results shall not be made a part of any employee's personnel file or a student's academic record unless disciplinary action is taken against the individual.

## 9. Notice Requirements

A copy of this sexual harassment policy or relevant provisions thereof shall:

- A. Be displayed in a prominent location in each college building;
- B. Be provided to students and employees upon request;
- C. Be included in employee and student handbooks;
- D. Appear in any college publication that sets forth the college's comprehensive rules, regulations, procedures, policies and/or standards of conduct.

**SEX OFFENDER NOTIFICATION**

The Higher Education Act of 1965 requires institutions of higher education to advise its campus community where it can obtain information about registered sex offenders if such an offender is registered at the college. The local sheriff's office is required to notify the college if a sexual offender residing in Jefferson County is attending JCC. Should the college receive such a notification, students will be advised to seek information regarding local sex offenders from the Ohio Attorney General at [www.esorn.ag.state.oh.us](http://www.esorn.ag.state.oh.us).

As required by the Ohio Administrative Code, the college provides the following link to the Ohio statewide sex offender registry. The Electronic Sex Offender Registration and Notification (eSCORN) may be reached at [www.escorn.ag.state.oh.us/secured/pl.aspx](http://www.escorn.ag.state.oh.us/secured/pl.aspx).

**Non-Discrimination Policies**

JCC does not discriminate on the basis of race, color, national origin, sex, disability, or age in its programs and activities. The following person has been designated to handle inquiries regarding the non-discrimination policies: James Morgan, vice president for administrative services and Title IX and Section 504 coordinator. His office is in room 2625, Jefferson Community College, 4000 Sunset Blvd., Steubenville, Ohio 43952; 740-264-5591, ext. 119; [jmorgan@jcc.edu](mailto:jmorgan@jcc.edu). The following person has been designated to handle inquiries regarding students with disabilities: Ella Paulman, director of Learning Skills Lab and Section 504 student manager. Her office is in room 3305, Jefferson Community College, 4000 Sunset Blvd., Steubenville, Ohio 43952; 740-264-5591, ext. 214; [epaulman@jcc.edu](mailto:epaulman@jcc.edu).

**STUDENT RIGHT-TO-KNOW**

The cohort represents the number of students who enrolled at Jefferson Community College in the fall of 2001 for the first time and indicated their goal was to receive a degree or certificate from the college. The following charts indicate the number of students who completed their designated program within 150% of the normal time. Additional information may be obtained from the National Center for Education Statistics' web site at [nces.ed.gov/IPEDS/COOL/](http://nces.ed.gov/IPEDS/COOL/).

<b>Cohort Determination Full-Time Students</b>	<b>Female</b>	<b>Male</b>	<b>Total</b>
Initial Cohort	147	105	252
Allowable Exclusions	0	0	0
FINAL COHORT	147	105	252
<b>Completers</b>			
Students who earned a degree or certificate from JCC	39	21	60
<b>Transfer-Outs</b>			
Students who transferred before earning a degree from JCC	23	10	33
<b>Completion Rate</b> (Total completers divided by cohort)	<b>27%</b>	<b>20%</b>	<b>24%</b>
<b>Transfer Out Rate</b> (Total transfer-out divided by cohort)	<b>16%</b>	<b>10%</b>	<b>13%</b>
<b>Adjusted Completion Rate</b> (Total Completers + Total Transfer-Outs divided by cohort)	<b>42%</b>	<b>30%</b>	<b>37%</b>

# DIRECTORY

## THE BOARD OF TRUSTEES



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**Dorothy Blaner**



**Thomas D'Anniballe**



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**Anthony L. Shreve**



**Jewette Toney**

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Vice Chairman Patricia L. Fletcher of Steubenville, retired administrative/education specialist, Steubenville City Schools; past president, National Association of Colored Women's Clubs Inc., 1995\*

Secretary Anthony L. Shreve of Steubenville, president of Steubenville Division of North Central Ohio Chapter of National Electrical Contractors Association, 1989\*

Legislative Delegate Dorothy Blaner of Toronto, administrative/executive secretary, Jefferson County Joint Vocational School; Toronto 2<sup>nd</sup> Ward Council, 1998\*

Thomas D'Anniballe of Steubenville, certified public accountant and principal of D'Anniballe & Co., Certified Public Accountants, 1998\*

E. Dale Featheringham of Bergholz, owner, president, and broker of Featheringham Realty Inc. & Auction Co., 1993\*

John T. Gilmore, P.E., of Steubenville, sanitary engineer for the Jefferson County Water & Sewer District, 2001\*

Ruel Mitchell of Steubenville, owner of Mitchell Electrical Contracting/RCM Construction Inc. and retired from Weirton Steel Corporation, 1997\*

Jewette Toney of Wintersville, retired tax audit manager, Ohio Department of Taxation, 2005\*

**President Emeritus:** Edward L. Florak, Ed.D., and the late Fred S. Robie, Ph.D.

**Trustees Emeriti:** Arthur J. D'Anniballe, the late Harry B. Chalfant, the late Frank S. Dimit, the late Samuel S. Johnston, the late W. Joseph Michl, the late Nick A. Mougianis, Brenard H. Watson, and the late James C. Wilson

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\*Denotes year of original appointment, all trustees have served continuously

# COLLEGE PERSONNEL

## INSTITUTIONAL SERVICES

**Dr. Laura M. Meeks** ..... President  
 B.S., University of Minnesota  
 M.S., Pittsburg State University  
 Ed.S., Pittsburg State University  
 Ph.D., Kansas State University

**Melanie DiCarlo** ..... Administrative Assistant  
**Judith Lude** ..... Senior Clerk\*  
 A.A.B., Jefferson Community College

**Dr. James Baber** ..... Executive Vice President  
 B.A., Jackson State University for Academic  
 M.S., Jackson State University and Student Affairs  
 Ph.D., Northern Illinois University

**Vicki L. Boroski** ..... Administrative Assistant  
 A.A.B., Jefferson Community College

**James J. McGrail, III** ..... Vice President for  
 B.S., West Virginia University Business Services/Treasurer

**Darlene Hellock** ..... Executive Secretary/Assistant to the  
 Vice President for Business Services

**James E. Morgan** ..... Vice President  
 B.S., West Virginia University for Administrative Services

**Sheila Riffle** ..... Administrative Assistant to the Vice  
 President for Administrative Services

**Ann M. Koon** ..... Director, Public Information  
 B.S., West Virginia University and Web Coordinator  
 Certified Web Author, University of Pittsburgh

## ACADEMIC AFFAIRS

**Linda M. Cipriani** ..... Dean and Professor of Health and  
 R.T.(R), (ARRT) Ohio Valley Biological Sciences  
 Hospital School of Radiologic Technology  
 B.A., LaRoche College  
 M.S.Ed., University of Dayton

**Donna D. Singh** ..... Secretary/Assistant to the Dean  
 A.A.B., Jefferson Community College of Health and  
 Biological Sciences

**Dr. Susan Rossi** ..... Dean of Business, Engineering,  
 B.S., Youngstown State University and Information  
 M.B.A., Youngstown State University Technologies  
 Ph.D., Walden University

**Sharon Young** ..... Secretary/Assistant to the Dean of  
 Business, Engineering, and Information Technologies,

**Ella Paulman** ..... Director, Learning Skills Laboratory  
 B.A., University of Akron  
 M.A., University of Akron

**Cindy Leasure** ..... Secretary\*  
 A.A.B., Jefferson Community College

**Deborah Watkins** ..... Reading/English Specialist\*  
 B.S., West Liberty State College

**Lois Thompson Rekowski** ..... Director, Library Services  
 B.S., Pennsylvania State University  
 M.L.S., University of Pittsburgh  
 C.A.S., University of Pittsburgh

**Angela Francis** ..... Library Assistant  
 Early Childhood Certificate, Jefferson Community College

**Holly Kelly** ..... Evening Library Assistant\*

**Dr. Bonita Schaffner** ..... Dean of Humanities  
 B.S., Duquesne University and Social Sciences, and  
 M.A., Pennsylvania State University Director of Transfer  
 Ph.D., Indiana University of Pennsylvania

**Kim Patterson** ..... Secretary/Assistant to the Dean of  
 A.A.B., Jefferson Community College Humanities and  
 B.S., California Coast University Social Sciences

**Judy Miller** ..... Director, Career Planning,  
 A.A.B., Jefferson Community College Placement and  
 B.S., Wheeling Jesuit University Alumni

**Amanda Coburn** ..... Secretary, Career Planning  
 A.A.B., Jefferson Community College  
 B.S., West Liberty State College

**Christina Pareso-Wanat** ..... Director, Tech Prep  
 B.A., West Liberty State College

**Phillis Widmor** ..... Tech Prep Transition Coordinator\*  
 A.B., West Liberty State College  
 M.A., Robert Morris University

**Melissa J. Flinn** ..... Secretary to the Director of Tech Prep  
 A.A.B., Jefferson Community College

**Carol Vitlip** ..... Academic Secretary\*  
 A.A.B., Jefferson Community College

## ADMINISTRATIVE SERVICES

**Marian Barnes** ..... Head Teacher, Preschool  
 B.A., West Liberty State College

**Janet Felsoci** ..... Early Childhood Specialist\*  
 Early Childhood Certificate, Jefferson Community College

**Julius J. Dziewatkoski** ..... Director, Building & Grounds  
 A.A.S., Jefferson Community College

**Robert Myler** ..... Assistant Director,  
 A.A.S., Jefferson Community College Building & Grounds

**Melissa J. Flinn** ..... Secretary to the Director of  
 A.A.B., Jefferson Community College Building & Grounds

**Freddie Allen** ..... Maintenance Worker\*  
**Joan Corona** ..... Maintenance Worker\*  
**Tom Harris** ..... Maintenance Worker  
**Donald Kiaski** ..... Maintenance Worker  
 A.A.B., Jefferson Community College

**Micah Mayo** ..... Maintenance Worker  
**Billy Moore Jr.** ..... Maintenance Worker  
**Daniel Munis** ..... Maintenance Worker\*  
**Charles Rice** ..... Maintenance Worker  
 A.A.S., Jefferson Community College

**Christopher A. McElroy** ..... Evening Coordinator\*  
 A.A.B., Jefferson Community College

**Joanne Straker** ..... Receptionist/Switchboard\*  
**Sally Wilson** ..... Receptionist/Switchboard\*  
**John Cich** ..... Security Guard\*  
**Frank DiGeorge** ..... Security Guard\*  
**Donald Rea** ..... Security Guard\*  
**Frank Saraceno** ..... Security Guard\*

\*Regular part-time position

## BUSINESS SERVICES

**Michael Payne** ..... Controller  
B.S., Youngstown State University  
M.B.A., Franciscan University of Steubenville  
Certified Public Accountant

**Joyce L. Morrow** ..... Accounting Assistant/Accounts Payable

**Julie L. Hocker** ..... Director, Bookstore & Central Services  
A.A.B., Jefferson Community College

**Mary Beth Bauer** ..... Bookstore and Central Services Clerk

**Mary Ellen Horkey** ..... Central Services Clerk\*  
A.A.B., Jefferson Community College

**Tonya Smith** ..... Director, Student Billing and Payroll  
A.A.B., Jefferson Community College

**Audrey Dziewatkoski** ..... Accounting Assistant/Payroll

**Rose Timmerman** ... Accounting Assistant/Accounts Receivable

**Patty Jo Sturch** ..... Dean, Enrollment Management  
A.S., Mitchell College and Student Information  
B.A., Elmira College  
M.Ed., University of Dayton

**Marsha D. Canter** ..... Student Information Clerk  
A.A.B., Jefferson Community College

**Donalyn Sutton** ..... Student Information Clerk

**Karen Tucci** ..... Director, Technology Services  
A.A.B., Jefferson Community College  
B.S., Wheeling Jesuit College  
M.B.A., Wheeling Jesuit University

**Mary Burke** ..... Technology Support Specialist  
A.A.B., Jefferson Community College  
B.S., Franklin University  
M.S., American Intercontinental University

**Marsha Jordan** ..... Secretary\*

**Monette Myers** ..... Assistant Director, Technology Services  
A.A.B., Jefferson Community College

**David Smith** ..... Technology Support Specialist  
B.S., DeVry Institute of Technology

**Kelly Wilson** ..... Director, Student Information  
A.A.B., Jefferson Community College  
B.A., Wheeling Jesuit University  
M.S., Mountain State University

**Brenda Mallis** ..... Coordinator of Financial Aid  
B.S., West Liberty State College

**Carrie Porter** ..... Financial Aid Clerk

## STUDENT AFFAIRS

**Dorothy Collins** ..... Director, TRIO Student  
B.S., Youngstown State University Support Services  
M.S., Youngstown State University

**Jennifer Board** ..... Counselor/Tutoring Coordinator  
B.A., The Ohio State University  
M.A., The Ohio State University

**Marilyn Crew** ..... Office Manager  
Dental Assisting Certificate, Jefferson Community College

**Vaughn Foster** ..... Counselor/Mentoring Coordinator  
B.A., Lincoln University  
M.Div., Drew University

**Charles Hudak** ..... Columbiana County Recruiter/Advisor\*  
B.S., The Ohio State University  
M.B.A., Youngstown State University

**Charles Mascellino** ..... Director, Admissions  
B.S., Clarion State College and Advising  
M.Ed., University of Dayton  
LPC, State of Ohio

**Susan Arlotta** ..... Counselor\*  
B.A., Carlow College  
B.S., University of Dayton

**Johnna Fabian** ..... Recruiter/Advisor\*  
B.S., Franciscan University of Steubenville

**J. Lee Gillison** ..... Counselor\*  
B.M.E., Ohio University  
M.A., West Virginia University

**Marlana Haynes** ..... Recruiter/Advisor\*  
A.A., Jefferson Community College  
B.S., Bethany College

**Angela Kirtdoll** ..... Director, KEYS-OACHE\*  
A.A., Kent State University  
B.S., West Liberty State College

**Eugene Gillison Jr.** ..... Assistant Program Director, KEYS\*  
B.S., Franciscan University of Steubenville

**Dorothy Lanaghan** ..... Secretary, Admissions

**Ann Reynolds** ..... Recruiter/Advisor\*  
B.A., Franciscan University of Steubenville

**Frank Miodusewski** ..... Coordinator of Student Activities\*  
B.S., Youngstown State University

## WORKFORCE AND COMMUNITY OUTREACH

**Andrea Bell** ..... Director, Workforce and  
B.S., H.Ec. Ed., Ohio University Community Outreach

**Linda Slowikowski** ..... Secretary to the Director,  
Workforce and Community Outreach

**Amanda Coburn** ..... Secretary, Grants & Workforce  
A.A.B., Jefferson Community College Development  
B.S., West Liberty State College

**Terri Dean** ..... Assistant Director, Workforce  
B.S. M.E., Pennsylvania State University and Community  
Outreach

**Madelyn James** ..... Clerical Assistant\*  
A.A.B., Jefferson Community College

**Nannette Kennedy** ..... Coordinator, Community Outreach  
B.A., West Liberty State College  
M.S., Franciscan University of Steubenville

**Sheryl Huggans** ..... Secretary, Community Outreach  
A.A.B., Jefferson Community College

**Martin Keith Thorn** ..... Director of Ohio Valley Criminal\*  
Justice Training Association,  
Police Academy/Citizens Police Academy Commander

**Jacqueline K. McCoy** ..... ABLE Project Coordinator  
B.S., University of Akron

**Jane Lenkner** ..... ABLE Secretary\*

\*Regular part-time position

# FACULTY

## BUSINESS, ENGINEERING, AND INFORMATION TECHNOLOGIES

### FULL-TIME FACULTY

<b>Kelli Cantor</b> .....	Instructor
B.S., Duquesne University	
M.B.A., Duquesne University	
<b>Nghi Dao</b> .....	Instructor
B.S., University of Pittsburgh	
M.S., University of Pittsburgh	
CISCO Certified Academy Instructor (CCAI)	
CISCO Certified Network Associate (CCNA)	
Certified Performance Analyst in Ethernet	
CORE Certification in ATM switching	
MCP Microsoft Certified Professional	
<b>Thomas Dulaney</b> .....	Assistant Professor
B.A., West Virginia University	
M.P.A., West Virginia University	
M.L.I.S., Kent State University	
MOUS Master, Microsoft Office User Specialist	
CIW CI, Certified Internet Webmaster Certified Instructor	
M CIW D, Master Certified Internet Webmaster Designer	
A+, Network+, iNet+, e-Biz+	
<b>Eric Exley</b> .....	Associate Professor
B.S. (C.E.), Ohio Northern University	
M.S. (C.E.), University of Pittsburgh	
Professional Engineer (OH, PA, DE, PA, WV, IN, MI, NC, SC, and MD)	
Professional Surveyor (West Virginia)	
Class III Operator Licenses: Wastewater Works (Ohio)	
<b>Ken Knox</b> .....	Instructor
A.B.D., Capella University	
B.A., Wheeling Jesuit College	
M.S., Mountain State University	
<b>Bernard L. Levite</b> .....	Professor
B.S., Bethany College	
M.S., University of Toledo	
M.S.Ed.A., University of Dayton	
<b>Gretchen Higgins McGuire</b> .....	Assistant Professor
A.A.B., Jefferson Community College	
B.S.B.A., Wheeling Jesuit College	
M.Ed., University of Dayton	
<b>Roberta Parniczka</b> .....	Instructor
A.A.S., West Virginia Northern Community College	
B.S., Point Park College	
MCP Microsoft Certified Professional	
MCSA Microsoft Certified Systems Administrator	
MCSE Microsoft Certified Systems Engineer	
<b>Beth Stull</b> .....	Assistant Professor
B.A., Fairmont State College	
M.S., West Virginia University	
<b>Marilyn Tubaugh</b> .....	Assistant Professor
A.A., Hocking Technical College	
B.S., Wheeling Jesuit College	
M.S., Capella University	
<b>Kelly Wenner</b> .....	Instructor
B.S., Wright State University	

## BUSINESS, ENGINEERING, AND INFORMATION TECHNOLOGIES AUXILIARY FACULTY

<b>Gregory J. Antinone</b> .....	B.S.T., Cleveland State University
<b>Kristina Ash</b> .....	M.A., Duquesne University
<b>William Barach</b> .....	B.S., Franklin University
<b>Rachel Blankenship</b> .....	B.S., Wheeling Jesuit University
<b>Gregory Bankenship</b> .....	M.B.A., Franciscan University of Steubenville
<b>Gretchen Brooks</b> .....	B.A., University of Findlay
<b>Paul Buffington</b> .....	M.B.A., Franciscan University of Steubenville
<b>William Burruss</b> .....	B.S.M.E., Virginia Polytechnic Institute
<b>Francesca Carinci</b> .....	J.D., T.M. Cooley Law
<b>Dennis Clark</b> .....	B.S.E.E., Virginia Polytechnical Institute
<b>Joyce C. Collins</b> .....	Casey C. Collins Inc. Relators
<b>Tiffany Devore</b> .....	B.S., Geneva College
<b>Bryan Dietrich</b> .....	B.S., University of Pittsburgh
<b>Patricia Easterling</b> .....	M.A., Saint Francis University
<b>Cynthia Erbacher</b> .....	B.S., University of Toledo
<b>Stephen Fournier</b> .....	M.S., Robert Morris University
<b>Wayne Harris</b> .....	A.A.S., Jefferson Community College
<b>William Haynes</b> .....	J.D., Capitol University
<b>Richard Hlivko</b> .....	B.S., West Liberty State College
<b>Dennis L. Jasper</b> .....	M.B.A., Franciscan University of Steubenville
<b>Janet Johnson</b> .....	M.S., Franciscan University of Steubenville
<b>Bryan Kimble</b> .....	B.S., University of Rio Grande
<b>John Kuczykowski</b> .....	M.A., University of Dayton
<b>D. Joan Lantry</b> .....	M.B.A., Franciscan University of Steubenville
<b>Sommer Lukacena</b> .....	B.S., Wheeling Jesuit University
<b>Jayne Maley</b> .....	B.A., Robert Morris University
<b>James Maloy</b> .....	M.A., West Virginia University
<b>Vincent Marshall Jr.</b> .....	B.S., Franciscan University of Steubenville
<b>Ronald Matta</b> .....	B.S., Carnegie Mellon University
<b>Robert McDonald Jr.</b> .....	M.B.A., Franciscan University of Steubenville
<b>Judy Miller</b> .....	B.S., Wheeling Jesuit University
<b>Frank D. Mioduszewski</b> .....	B.S., Youngstown State University
<b>James Nelson</b> .....	B.S., Franciscan University of Steubenville
<b>Stella Parikakis</b> .....	M.S., Marshall University
<b>Mary Paul</b> .....	A.S., Jefferson Community College
<b>Ella J. Paulman</b> .....	M.A., University of Akron
<b>Rocco Petrozzi</b> .....	B.S., Franciscan University of Steubenville
<b>Andrew Plesich</b> .....	M.B.A., Franciscan University of Steubenville
<b>Stephen Purpura</b> .....	M.S., West Virginia University
<b>Timothy Reinard</b> .....	M.B.A., Franciscan University of Steubenville
<b>Arthur Resch</b> .....	M.B.A., Franciscan University of Steubenville
<b>Pamela Richardson</b> .....	B.S., Bowling Green State University
<b>James Ross</b> .....	M.A., University of Pittsburgh
<b>Ronald Salvino</b> .....	M.S., Franciscan University of Pittsburgh
<b>Milan Sherman</b> .....	M.S., University of Pittsburgh
<b>Carl Skidmore</b> .....	
<b>Janice Stefansky</b> .....	M.S., California University of Pittsburgh
<b>John A. Westling</b> .....	M.S., Emmanuel Baptist University
<b>Kurt Yano</b> .....	M.S., Drexel University

## HEALTH AND BIOLOGICAL SCIENCES FULL-TIME FACULTY

- Cynthia K. Carducci** ..... Associate Professor  
R.R.T., B.S., The Ohio State University  
M.Ed., Ohio University
- Kathy Cruny** ..... Associate Professor  
R.R.T., B.S., Wheeling Jesuit College  
M.Ed., University of Dayton
- Sandra L Ewusiak** ..... Professor  
R.N., Ohio Valley Medical Center  
B.S.N., West Liberty State College  
M.S.N., Duquesne University
- Dr. Robin S. Flohr** ..... Professor  
R.N., Ohio Valley Hospital School of Nursing  
B.S.N., West Liberty State College  
M.B.A., Franciscan University of Steubenville  
Ed.D., University of Sarasota
- Michael Freeman** ..... Instructor  
Paramedic Certification, Davenport University (NREMT-P)  
A.S., Monroe Community College
- Shelly Gaumer** ..... Associate Professor  
A.A.S., R.T.(R) (ARRT), Jefferson Community College  
A.A.S., Jefferson Community College  
B.A., Wheeling Jesuit College  
M.S.Ed., University of Dayton
- Tammy Graham** ..... Instructor  
CDA  
A.S., West Liberty State College  
B.S., West Liberty State College
- Ericka E. Guz** ..... Associate Professor  
R.N., Western Pennsylvania Hospital School of Nursing  
B.S.N., West Virginia Wesleyan College  
M.Ed., Franciscan University of Steubenville
- Judith Hince** ..... Assistant Professor  
R.N., B.S.N., Alderson Broaddus College  
M.S., West Virginia University
- Dana Meadows** ..... Instructor  
Diploma, Ohio Valley School of Nursing  
B.S.N., Wheeling Jesuit University  
M.S.N., Franciscan University of Steubenville  
F.N.P., Franciscan University of Steubenville
- Donna L. Robinson** ..... Assistant Professor  
CDA  
A.A.S., Jefferson Community College  
E.F.D.A., State of Ohio  
B.A., West Liberty State College
- Diane Roney** ..... Associate Professor  
R.N., B.S.N., University of Pittsburgh  
M.S.N., Duquesne University  
Post-Master's Certificate, Duquesne University
- Sondra J. Sutherland** ..... Associate Professor  
M.T. (ASCP), CLS (NCA)  
Ohio Valley Hospital School of Medical Technology  
B.S., Franciscan University of Steubenville  
M.Ed., Ohio University
- Stephanie A. Vance** ..... Assistant Professor  
B.S., Shawnee State University  
M.S., University of Tennessee  
M.S., University of Bridgeport
- Anna Marie Welshans** ..... Assistant Professor  
R.T.(R)(ARRT), Allegheny General Hospital  
A.S., Robert Morris College  
B.A., Wheeling Jesuit College

## HEALTH AND BIOLOGICAL SCIENCES AUXILIARY FACULTY

- Jane Antonucci** ..... EMS Instructor
- Dr. Carl Arlotta** ..... Ed.D., University of Sarasota
- Kelly Casey** ..... A.A.S., Jefferson Community College
- Kathleen Corabi** ..... B.S., Franciscan University of Steubenville
- Lisa Cowser** ..... A.D.N., Hocking Technical College
- Sharon Crane** ..... A.D.N., Kent State University
- Judith Davis** ..... Diploma, OVH School of Nursing
- Marjorie Davidson** ..... EMS Instructor
- Stephen Dowell** ..... D.D.S., Case Western Reserve University
- Jodi Eick** ..... A.A.S., Jefferson Community College
- Mary Gale** ..... Diploma, OVH School of Nursing
- Jeffrey Hall** ..... EMS Instructor, Belmont Technical College
- Matthew Handley** ..... EMS Instructor, Jefferson Community College
- Melanie E. Hocking** ..... LL.M., University of Virginia School of Law
- Pamela Kearney** ..... A.A.S. and EFDA, Jefferson Community College
- Cheryl Keenan** ..... A.A.S., Jefferson Community College
- Lori Kerr** ..... B.S.N., Wheeling Jesuit University
- Dale Lackey** ..... EMS Specialty Topics Instructor
- Andrea Landis** ..... EMS Instructor
- Debra Looman** ..... Diploma, OVH School of Nursing
- Valerie Maloney** ..... B.S.N., Franciscan University of Steubenville
- Tracy Miller** ..... B.S., Franciscan University of Steubenville
- William Miller** ..... EMS Instructor
- Brenda Milliken** ..... B.S., University of Pittsburgh
- Constance Moore** ..... B.S., Franciscan University of Steubenville
- Joseph Morell** ..... B.S., Indiana University of Pennsylvania
- Karen Nagy** ..... A.A.S., Jefferson Community College
- AlyceMarie Oliver** ..... B.S.N., Wheeling Jesuit University
- Holly Pate** ..... M.S.N., Franciscan University of Steubenville
- JoAnn Perrone** ..... A.A.S., Jefferson Community College
- Karen Philibin** ..... EMS Instructor
- Michele Purviance** ..... Diploma, Trinity School of Nursing
- Lukas Ricketts** ..... A.A.S., Stark State College of Technology
- Rudy Sacchet** ..... EMS Instructor
- Rachel Scott** ..... B.S., West Liberty State College
- Johnna Sholtis** ..... Ph.D., Texas Tech University
- Jerry Shumate** ..... EMS Instructor
- Melanie Simmons** ..... A.A.S., Jefferson Community College
- Jody Cooper Simpson** ..... A.A.S., Jefferson Community College
- Shawn Smith** ..... EMS Instructor
- Ryan Stackhouse** ..... A.A.S., Jefferson Community College
- Stacy Straughn** ..... A.S., University of Charleston
- Charlotte Turick** ..... A.A.S., Jefferson Community College
- Robert Vance** ..... M.S., University of Tennessee at Knoxville
- Melissa Vostatek** ..... D.Pharm., Ohio State University
- Donald Weaver** ..... EMS Instructor
- Linda White** ..... EMS Instructor
- Mary Alice Wise** ..... R.N., B.S.N., Wheeling Jesuit University
- Amy Ziarko** ..... A.A.S., Jefferson Community College

## HUMANITIES AND SOCIAL SCIENCES FULL-TIME FACULTY

<b>Lee Ann Ballard</b> .....	Associate Professor
A.A.S., Danville Area Community College	
B.A., Eastern Illinois University	
M.C.J., University of Alabama	
<b>Joseph Brom</b> .....	Instructor
B.S., Towson State University	
M.A., Duquesne University	
<b>Thomas Hawley</b> .....	Assistant Professor
A.A., Central Arizona College	
B.S., Arizona State University	
M.S., Arizona State University	
<b>William Hope</b> .....	Associate Professor
B.S., Rio Grande College	
M.S., Southern Illinois University	
<b>Darrel Lawrence</b> .....	Instructor
B.A., California State North Ridge	
M.A., West Virginia University	
<b>John L. Romanek</b> .....	Assistant Professor
B.A., Wheeling Jesuit College	
M.A., Marshall University	
<b>Dr. Anton P. Salinski</b> .....	Assistant Professor
B.A., Duquesne University	
M.A., Duquesne University	
Ph.D., Duquesne University	
<b>Amy Sargent</b> .....	Instructor
B.S., West Liberty State College	
M.A., West Virginia University	

## HUMANITIES AND SOCIAL SCIENCES AUXILIARY FACULTY

<b>Roseanne Allen</b> .....	M.A., Franciscan University of Steubenville
<b>Kathleen Antinone</b> .....	B.A., Wheeling Jesuit University
<b>Amanda Blackburn</b> .....	M.A., National University
<b>Angel Brock-Murphy</b> ..	M.A., Franciscan University of Steubenville
<b>Dr. Samuel Brown</b> .....	Ph.D., University of Pennsylvania
<b>Hayley Bykens</b> .....	B.A., Waynesburg College
<b>Kathy Cardiff</b> .....	M.A.Ed., University of Phoenix
<b>Brent Carney</b> .....	M.A., Old Dominion University
<b>Lindsay Carpenter</b> .....	B.F.A., Aquinas College
<b>Steven Cohen</b> .....	M.P.A., University of Southern California
<b>David Cornett</b> .....	M. Div., Catholic Theological Union
<b>Mary Costantini</b> .....	M.S., Ohio University
<b>Marcy Crago</b> .....	M.S.W., University of Pittsburgh
<b>Francine Crow</b> .....	M.A., West Virginia University
<b>Laurie Cruciotti</b> .....	M.Ed., Ohio University
<b>Stephanie Crust</b> .....	B.A., Franciscan University of Steubenville
<b>Michael Cullinan</b> .....	M.S.W., West Virginia University
<b>Frank DeCaria</b> .....	M.A., Duquesne University
<b>Charles Denning</b> .....	M.A., Youngstown State University
<b>Mary Ann Donnelly</b> .....	B.A., Franciscan University of Steubenville
<b>Lucinda Edwards</b> .....	M.Ed., Ashland University
<b>Bryan Felmet</b> .....	L.L.M., George Washington University
<b>Shirley Fisher</b> .....	M.A., Northwestern University
<b>Keli Freshwater</b> .....	M.B.A., Wheeling Jesuit University

<b>Richard Givens</b> .....	B.S., West Liberty State College
<b>John Gocala</b> .....	M.S., Youngstown State University
<b>Timothy Graves</b> .....	M.S., Southern Illinois University
<b>Elizabeth Hagerty</b> .....	B.A., Franciscan University of Steubenville
<b>D. Scott Henderson</b> .....	M.A., Franciscan University of Steubenville
<b>Janise Kaufman-Young</b> ..	M.A., Franciscan University of Steubenville
<b>James (Douglas) Knight</b> .....	M.S., Youngstown State University
<b>Katherine M. Kolanko</b> .....	M.S.N., West Virginia University
<b>Mark Koleck</b> .....	M.A., Slippery Rock University
<b>Melissa Komorowski</b> .....	M.A., West Virginia University
<b>Patti Kurtz</b> .....	D.A., Idaho State University
<b>Ivan Lambert</b> .....	M.A., Slippery Rock University
<b>Aimee Lannis</b> .....	M.F.A., Ohio University
<b>Joan Lantry</b> .....	M.B.A., Franciscan University of Steubenville
<b>Donna LaPrete</b> .....	M.S., University of Dayton
<b>Brianne Lawson</b> .....	B.A., LaRoche College
<b>Jack Lorenzini</b> .....	M.A., Youngstown State University
<b>William Martino</b> .....	M.L.S., Kent State University
<b>Charles Mascellino</b> .....	M.Ed., University of Dayton
<b>Frank Masciarelli</b> .....	M.S., Central Missouri State University
<b>Jared McCauley</b> .....	M.S., Marshall University
<b>John E. McGuire</b> .....	M.L.S., University of Pittsburgh
<b>Calvin McLoyd</b> .....	M.A., Franciscan University of Steubenville
<b>James Metcalf</b> .....	B.S., New York Institute of Technology
<b>Jennifer Mooney</b> .....	M.A., Slippery Rock University
<b>Joseph Nocera</b> .....	B.A., Waynesburg College
<b>Elizabeth O'Connor</b> .....	M.A., University of Northern Colorado
<b>John Parker</b> .....	B.S., West Liberty State College
<b>Kathie Pasquarella</b> .....	M.A., West Virginia University
<b>Sherry Paull</b> .....	M.Ed., Palm Beach Atlantic University
<b>Margaret Pearson</b> .....	M.F.A., California State University
<b>Regina Pino</b> .....	M.A., University of Phoenix
<b>Dawn Pipo</b> .....	M.Ed., Franciscan University of Steubenville
<b>Shelby Posin</b> .....	M.A., Villanova University
<b>Amy Reed</b> .....	M.A., Marshall University
<b>John Reho</b> .....	M.A., University of Akron
<b>Andrew Rochus</b> .....	M.A., University of Akron
<b>Dr. Geoffrey Rovin</b> .....	Ph.D., University of Pittsburgh
<b>William Schaefer</b> .....	M.A., University of Pittsburgh
<b>Charles Shoaff</b> .....	M.S., Loyola College
<b>Geeta Solanki</b> .....	M.A., State University of New York at Buffalo
<b>Paul Spradley</b> .....	B.A., Robert Morris University
<b>Wayne Spurlock</b> .....	M.A., Marshall University
<b>Melissa Stinnett</b> .....	M.L.S., Indiana University
<b>Karen Taylor</b> .....	M.A., Marygrove College
<b>Martin Thorn III</b> .....	Certified Paramedic, Jefferson Community College
<b>Elizabeth Truax</b> .....	M.S., University of Dayton
<b>Bill Verelst</b> .....	B.A., University of Findlay
<b>Mary Jo Viola</b> .....	M.A., West Virginia University
<b>Candice Ward</b> .....	M.Ed., Washington State University
<b>Joseph Weaver</b> .....	B.A., Ohio University
<b>Jamie Wells</b> .....	M.C.J., Tiffin University
<b>Donna Williams</b> .....	M.Ed., Western Maryland College
<b>Jon Willis</b> .....	M.A., Duquesne University
<b>Thomas Wilson</b> .....	J.D., Ohio Northern University
<b>J.Randolph Yoho</b> .....	M.Ed., University of Dayton
<b>Melinda Zeeb</b> .....	M.A., University of Phoenix

# ADVISORY COMMITTEES

## ACCOUNTING

- Ettor Canestraro** ..... Staff Accountant  
D'Anniballe and Co., CPAs
- Robert Chapman** ..... Certified Public Accountant  
KMC Corporation
- Dana R. Joyce** ..... Certified Public Accountant  
Dana R. Joyce CPA
- Janet Marie Nolan** ..... Controller  
Lancia Convalescent Center
- Thomas W. Ossio, Jr.** ..... Certified Public Accountant  
Ossio Associates
- James M. Riley, CPA** ..... Certified Public Accountant  
Seachrist, Kemmen & Merkey, CPA

## BUSINESS AND INDUSTRY

- Trish Acevedo** ..... General Manager  
ProActive Technologies
- Dwain Hultberg** ..... Process Control Manager  
Ohio Coatings Company
- Quenton Northcraft** ..... Learning Administrator  
AEP Cardinal Plant
- Tony Petrosino** ..... Training Coordinator  
Timet
- Debbie Venci** ..... Safety Officer  
Barium Chemicals

## BUSINESS MANAGEMENT

- Mark S. Bailey** ..... Support Manager, Leadership and Software  
SARCOM
- Scott Campbell** ..... Owner, Manager  
M&M True Value Hardware
- David Cook** ..... General Manager  
Applebee's Grill & Bar
- Edward A. DiPino** ..... Broker, Owner  
Ed DiPino Realty
- Dale Featheringham** ..... Owner/Auctioneer  
Featheringham Realty
- James Guida, GRI** ..... J.J. Guida Realty
- Laurel McDowell** ..... Branch Manager  
Manpower Agency
- Vicki L. Parks** ..... Sales Manager and Assistant Branch Manager  
National City Bank
- Sue Pevac** ..... Project and Management  
Sensible Business Solutions
- Tim Reinard** ..... Manager  
Weirton Transit Authority
- Michael E. Rodgers** ..... Retired
- William Wood** ..... Sales Representative  
M & M Hardware

## CLINICAL LABORATORY TECHNICIAN/ PHLEBOTOMY/HISTOTECHNICIAN

- Annette Castner** ..... Phlebotomist  
Riverside Medical of Ohio
- Rose Cerroni, Ph.D.** ..... Retired Professor
- Tim Jones, B.S., H.T., M.L.T. (ASCP)** ..... Supervisor, Anatomic  
East Ohio Regional Hospital Pathology Department  
and Ohio Valley Medical Center
- Dave Michetti** ..... Lab Services Director  
Weirton Medical Center
- Mary Mihalyo** ..... Chairperson, Science Department  
Catholic Central High School
- Dr. Souheil Nassar** ..... Pathologist  
Ohio Valley Medical Center and East Ohio Regional Hospital
- Susan Rayl** ..... CLS  
Delta Scientific Inc.
- Mona Rowley, M.L.T. (ASCP)** ..... Ridgefield Group
- O. Dean Unzicker, M.A., MT(ASCP), SC, TMC** ..... Lab Services  
Trinity Health Systems Director
- Marlene Vizyak, MT (ASCP), M.Ed.** ..... Medical Technologist  
Fisher/CMS Corporation

## COMPUTER INFORMATION SYSTEMS

- Robert Barnabei** ..... Assistant Professor  
West Liberty State College Computers and Business
- Joseph Bon** ..... Computer Head  
Jefferson County Courthouse
- Jack L. Humphreys**
- Susan Magnone** ..... Software Engineer  
Mittal Steel-Weirton
- Sandra Petrozzi** ..... Manager, Data Processing  
OME-RESA
- Nicholas Riley** ..... Manager, Data Processing  
Iron City Distributing Company
- Alfred Wudarski** ..... Assistant Professor  
West Liberty State College

## COMPUTER SCIENCE

- George Borden** ..... Vice President and Co-Owner  
The Ridgefield Group Inc.
- Dragan J. Lazic** ..... Computer Networking Specialist  
The Ridgefield Group Inc.
- Domenic Palumbo** ..... IT Liaison  
Timet Corporation
- C. Scott Paris** ..... Information Systems Network Analyst  
Weirton Medical Center
- George Parnicza** ..... Director of Information Technology  
Troy Group
- Rudy Rosnick** ..... Information Systems Manager  
Bayer Corporation

## DENTAL ASSISTING

<b>Ronald C. Ard, D.D.S.</b>	Private Practice Weirton, West Virginia
<b>Thomas R. Brown, D.D.S.</b>	Private Practice Wintersville, Ohio
<b>Joseph V. Clause, D.D.S.</b>	Private Practice Steubenville, Ohio
<b>James Fraser, D.D.S.</b>	Private Practice Wintersville, Ohio
<b>Maureen Hamil, CDA, EFDA</b>	Expanded Functions DA Office of Dr. David R. Blanc
<b>Carlene Horner, C.D.A.</b>	Dental Assistant Office of Dr. John Valleria
<b>Thomas Matanzo, D.D.S.</b>	Private Practice Wintersville, Ohio
<b>Eva Nagem</b>	Dental Assistant Office of Dr. J.G. Kramer
<b>Eleisha Nickoles, D.D.S.</b>	Private Practice Follansbee, West Virginia
<b>Cindy Rudy, C.D.A.</b>	Certified Dental Assistant Office of Dr. Eleisha Nickoles
<b>Toni Svec, AQP, CDA</b>	Expanded Functions DA Office of Dr. Eleisha Nickoles

## DESIGN ENGINEERING TECHNOLOGY

<b>Jeffrey Oinonen</b>	Bridge Engineer Jefferson County Engineering
<b>Evan A. Rowles</b>	Professional Engineer Atlantic Engineering Services

## EDUCATIONAL PARAPROFESSIONAL

<b>Kevin Dennis</b>	Counselor Buckeye Local High School
<b>Mary Jo Guidi</b>	Instructor Belmont Career and Technical Center
<b>Nannette Kennedy</b>	Coordinator, Community Outreach Jefferson Community College
<b>Michael McVey</b>	Assistant Superintendent Steubenville City Schools
<b>Dolores Michnowicz</b>	Counselor Steubenville Catholic Central High School
<b>Todd Phillipson</b>	Supervisor Jefferson County Joint Vocational School
<b>Dave Quattrochi</b>	Principal Wintersville Elementary School
<b>Linda Davis Rex</b>	Principal Karaffa Middle School
<b>Dr. Cathy Sistilli</b>	Principal Madonna High School
<b>Ellie Williams</b>	Curriculum Director Edison Local School District

## ELECTRONIC COMMERCE

<b>Bryan Murray</b>	National Sales & Marketing Manager First Internet Services
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## ELECTRICAL/ELECTRONICS ENGINEERING

<b>Gregory Antinone</b>	General Foreman Wheeling Pittsburgh Steel Corporation
<b>Dr. Theodore R. Bosela</b>	Director, Youngstown State University School of Technology
<b>Stephen Purpura</b>	Surveillance Technician Wheeling Island Race Track

## EMERGENCY MEDICAL TECHNICIAN --PARAMEDIC

<b>Ruth Eddy</b>	Retired Administrator Forester Nursing Home
<b>Frank Gaudio, M.D.</b>	Physician, Emergency Room Sewickley Hospital
<b>Robert Herceg, EMT-I</b>	Vice President Ambulance Service Inc.
<b>James Jackson</b>	Captain, Paramedic Mingo Junction Fire Department
<b>William Miller</b>	Fire Chief, Paramedic Richmond Volunteer Fire Department
<b>Kelly Orwick</b>	Akron General Medical Center
<b>Karen Philibin</b>	EMS Chief/N.R. Paramedic Springfield Township Emergency Medical Services
<b>James E. Wood, NREMT-P</b>	Jefferson County TEMS Medic Ambulance Service Inc.

## INTERPRETING FOR THE DEAF

<b>Sister Conchetta LoPresti, OSF</b>	Deaf Counselor Catholic Charities
<b>Laurie Cruciatti</b>	Intervention Specialist Belmont County Educational Services
<b>Marsha Nippert-Moore</b>	Executive Director Ohio Alliance of Community Centers for the Deaf
<b>Beth O'Connor</b>	Special Education
<b>Ella Paulman</b>	Director, Learning Skills Lab Jefferson Community College
<b>Nancy Resh</b>	Director Community Center for the Deaf
<b>Lois Rekowski</b>	Director of Library Services Jefferson Community College
<b>Louis Ricciardi</b>	Case Manager Community Center for the Deaf
<b>Flora Shoe</b>	Sign Language Interpreter
<b>Donna Williams</b>	ASL Instructor Washington State Community College

## LAW ENFORCEMENT

<b>Bryan Felmet</b>	Attorney
<b>Eugene Gallo</b>	Executive Director Eastern Ohio Correction Center
<b>Samuel Kerr</b>	Judge Jefferson County Juvenile Court
<b>Ed Laman</b>	Chief of Police Wintersville
<b>James Lee</b>	Chief Probation Officer Brooke County
<b>Michael Maguschak, Jr.</b>	Retired
<b>Keith M. Thorn, Jr.</b>	Wellsville Chief of Police JCC Police Academy Commander

## MECHANICAL ENGINEERING TECHNOLOGY

**W. McElhany** ..... Project Engineer, MAB  
Weirton Mittal Steel  
**Jeff Michlea**  
**David Velegol** ..... Owner  
Velegol Enterprises Inc.

## MEDICAL ASSISTING

**Judy Hayes-Barnes** ..... Public Member  
**Shirley Coulter, CMA** ..... Medical Assistant  
Riverside Medical  
**Penny Dickinson** ..... Management Services  
Trinity Family Care Center  
**David Dukich** ..... Specialist  
VeriMed Services Inc.  
**Tracy Miller** ..... Office Manager  
Riverside Medical  
**Dr. Frank Petrola** ..... Program Advisor/Physician  
Riverside Medical Group Inc.  
**Patty Sanfilippo** ..... Office Manager  
Dr. Nicholas Mastro  
**Shirley Turrentine, RN** ..... Office Manager  
Riverside Medical

## OFFICE INFORMATION TECHNOLOGY

**Ruth E. Casey** ..... Revolving Loan Fund Administrator  
Progress Alliance  
**D. Joan Lantry** ..... Retired Administrative Assistant  
Jefferson Community College  
**Karen A. Martin** ..... Secretary  
Jefferson County Superintendent of Schools  
**Carole Patton** ..... Jefferson Community College Alumnus  
**Sheila Robinson** ..... West Virginia Northern Community College  
**Nancy Trombetta** ..... Personnel Administrator  
Bank One

## PLACEMENT

**Michael J. Barber** ..... President  
National Colloid  
**Michele Chevront** ..... Human Resources Recruiter  
Mountaineer Race Track and Gaming Resort  
**Marie Gosney** ..... Employment Manager  
Trinity Medical Center West  
**Cindy Heatherington** ..... Human Resources Supervisor  
Titanium Metals Corporation  
**Laurel Huggins McDowell** ..... Manager  
Manpower Temporary Services Inc.  
**John Riley** ..... President  
Kwik King Food Stores  
**Lori G. Szymanek** ..... Human Resources/Payroll Coordinator  
Weirton Mittal Steel

## PRACTICAL NURSING

**Diedra Rusnak, R.N.** ..... Pediatrics Clinical Manager  
Trinity Medical Center West  
**Cathy Cich, RN, B.S.N.** ..... Charity Hospice  
**Carmel Esposito, RN, Ph.D.** ..... Retired Registered Nurse  
**Lianne Grimes, LPN** ..... Staff Nurse  
Weirton Medical Center

**Amy Parks, LPN** ..... Staff Nurse  
Harrison Community Hospital  
**Jan Potenzini** ..... Nursing Director,  
Trinity East Medical Center Skilled Care Center

## PREKINDERGARTEN CARE & EDUCATION

**Marian Barnes** ..... Head Teacher, Preschool  
Jefferson Community College  
**Kathy Cardiff** ..... Administrator  
Daycare Depot  
**Connie Dasch** ..... Adjunct Faculty  
Jefferson Community College  
**Eunice Lincoff** ..... Youth Services Director  
Jefferson County Action Council  
**Kathy Pavlik** ..... Even Start Director and Parent Mentor  
Steubenville City Schools  
**Marjorie Radarovich** ..... Teacher/Principal  
Steubenville City Schools  
**Marilyn Roush** ..... Preschool Director/Child Care Instructor  
Jefferson County Joint Vocational School  
**Juanita Shepherd Thorn** ..... Director  
Jefferson County Head Start  
**Patricia Westfall** ..... Preschool Teacher  
Roosevelt Elementary School

## RADIOLOGIC TECHNOLOGY

**Frank Hamilton** ..... Radiology Manager  
Trinity Health Systems  
**Lewis Musso** ..... Human Resources Vice President  
Trinity Health System  
**Kerri Tush, R.T.(R)** ..... Staff Radiographer  
East Ohio Regional Hospital  
**Linda Vaughan** ..... Images Manager  
Trinity Health System  
**W. Hunter Vaughan, M.D.** ..... Director of Radiology  
Trinity Health System

## RESPIRATORY THERAPY

**Albert Augustine** ..... Educational/Clinical Services  
University of Pittsburgh Medical Center  
**Ravi K. Alagar, M.D.** ..... Pulmonologist  
Alagar Medical Associates, P.C.  
**Dave Artman** ..... Manager, Respiratory Services  
Mercy Medical Center  
**Robert Coppa** ..... Staff Therapist  
University of Pittsburgh Medical Center  
**Thomas DeFallo** ..... Marketing Representative  
Tri-State Medical  
**Jason Mattern** ..... Manager, Quality and Regulatory Compliance  
Sal Chemical  
**Dr. Moriseth** ..... Pulmonologist  
Riverside Medical  
**Stacy Straughn** ..... Coordinator, Pulmonary Rehabilitation  
Trinity Medical Center West  
**Larry Teramana** ..... Respiratory Supervisor  
Trinity Medical Center West  
**Matthew L. VanCamp** ..... Director, Respiratory Care  
Uniontown Hospital  
**Thomas Walthers, M.D.** ..... Medical Director, Respiratory  
Trinity Medical Center West Therapy Department