



Erie County Community College

College Catalog
Academic Year 2022-2023



ERIE COUNTY COMMUNITY COLLEGE

Our Community, Your College!

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The information in this catalog is considered to be descriptive in nature. The College reserves the right to make any changes in the contents of this catalog or in the documented course of study that it deems necessary or desirable. When changes are made they will be communicated to the appropriate students.



ERIE COUNTY COMMUNITY COLLEGE

Our Community, Your College!

Welcome to EC3--Erie County Community College!

As Pennsylvania's newest community college, EC3 serves all of Erie County with sites located in downtown Erie, Millcreek and Summit Townships, the city of Corry and, of course, online. We are the community's college and are here to help you with your next steps. Whether that first step is one that helps prepare you to transfer to a four-year school, to jump right into a high-wage career, to brush up some skills, or to explore

new subjects, EC3 has classes and training designed for you.

We are here to serve you! EC3 is for everyone: first-generation college students, recent high school graduates, working parents, and those returning to school. We educate veterans who have returned from deployment and are ready to embark on their next career. We welcome adult learners who are entering the world of higher learning for the first time and those who are coming back after a long break looking for a new career.

Our students are as diverse as Erie County itself -- with students coming from everywhere in the County. Diversity is a point of pride for EC3; we will listen to you, understand your unique life circumstances and experiences, and work hand-in-hand with you to reach all of your educational goals.

EC3 is built differently from other institutions of higher learning. We support, challenge, and encourage students to make the best of themselves so that they can give back and make Erie County even stronger. We partner with business and industry leaders to provide skilled workers for the ever-changing world. We truly meet students where they are, listen to their dreams, and help take them where they want to be. Let us empower you!

Let me tell you my own story. A kid from central Illinois from a family with no college education is not supposed to become a theatre professor and then a dean and then an academic administrator. And he certainly isn't supposed to become a college president. I had many barriers in my educational path. Nevertheless, I persisted. My story began one fall semester when I went to my local community college and once I got there, I just started. Then I stayed.

My community college gave me a just start and a chance to do things that no one in my family had done. It helped me realize dreams that were so far beyond me as to be unfathomable. My teachers looked past the big chip on my shoulder and saw something else there. And they helped me to see it too. That's what a community college is supposed to do: to provide a path for even the most economically disadvantaged and academically underprepared student to achieve something bigger. When afforded a just start, all students have that chance.

We are excited to work with you, and we are glad that you've chosen to make EC3 your educational home. This is your college and you belong here!

Best,

Chris Gray
Founding President





ERIE COUNTY COMMUNITY COLLEGE

Our Community, Your College!

Mission Statement

Erie County Community College exists to develop dynamic and diverse learners to advance their quality of life and Erie County's economic growth through affordable access, innovative education and workforce training.

Vision

EC3 uplifts the region as a catalyst to transform lives, to promote social and economic stability in both rural and urban areas, and to develop lifelong learners and a strong workforce that contributes to a thriving economic landscape for all.

Values

Diversity
Community

Innovation
Excellence

Employability
Adaptability

Strategic Priorities

- **Access**- Strengthen and expand access to county residents and area partners by increasing awareness of educational opportunities that are reflective of student, business, and community needs.
- **Student Success**- Promote a student-centered environment that focuses on student achievement, engagement, personalized pathways, holistic student support, and individualized excellence.
- **Academic Excellence**- Deliver a high-quality education and measurable learning outcomes for our students by creating an innovative and engaging learning environment within a supportive, collegial culture.
- **Partnerships**- Nurture collaborative relationships with public and private K-12, universities, businesses, and community partners to develop a cohesive educational strategy that ensures seamless alignment and builds a skilled workforce that leads to economic mobility and increased educational attainment.
- **Workforce Innovations**- Achieve local, regional and national recognition as a premier college of choice for providing workforce training by delivering high-quality programs and instruction that enable students to grow, succeed, and stay globally competitive.





ERIE COUNTY COMMUNITY COLLEGE

Our Community, Your College!

Policy II.A.2: Equal Employment Opportunity Policy

This policy establishes and outlines Erie County Community College's clear commitment to the principle of equal employment opportunity. In making this statement, the College is recognizing both a moral and legal responsibility. Under the direction of the President, the Diversity Officer shall ensure compliance with this policy. The Diversity Officer, and all other staff in a supervisory capacity, shall implement this policy.

Statement of Commitment

EC3P is committed to and affirms a policy of equal employment opportunity to all applicants, employees, and students without regard to race, color, religion, sex, sexual orientation, age, national or ethnic origin, disability, genetic information, gender identification, status as a disabled or Vietnam era veteran, or any other legally protected characteristic and to provide each and every individual with the ability to work in a safe, productive and professional work environment that is free from discriminatory practices.

In achieving equal opportunity, we commit ourselves to:

- Recruit, hire, train, and promote the most qualified persons without regard to race, color, religion, sex, sexual orientation, age, national or ethnic origin, disability, status as a disabled or Vietnam era veteran, or any other legally protected characteristic.
- Ensure that promotion decisions are in accordance with equal employment opportunity requirements by imposing only valid, job-related requirements for promotional opportunities.
- Ensure that all personnel actions relating to compensation, benefits, transfers, retention, terminations, training, social and recreational programs and education are administered in a nondiscriminatory manner.

Classroom Accommodation Statement

EC3 is committed to providing a welcoming, supportive, and inclusive environment for students with disabilities. If you anticipate or experience physical or academic barriers based on disability, please contact the College Counselor at [Andrea Campbell](#) at 814-413-7030.

Diversity Statement

We value human diversity in all its richly complex and multi-faceted forms, whether expressed through race and ethnicity, culture, political and social views, religious and spiritual beliefs, language and geographic characteristics, gender, gender identities and sexual orientations, learning and physical abilities, age, and social or economic classes. We respect the value of every member of the college and everyone is encouraged to share his or her unique perspective as an individual, not as a representative of any category. Multicultural and intercultural awareness and competencies are key leadership skills and we intend to present opportunities that respect and celebrate diversity of thought, background, and experience. College is supposed to challenge assumptions and to provide new and sometimes uncomfortable ways of looking at issues, but if you feel uncomfortable regarding content or perspectives that are presented or discussed by professors, guest speakers, or others, we encourage you to contact one of your instructors or College administrators immediately so that we can discuss those feelings. Also, as a means of respect, please let us know if you would like the College to refer to you by a preferred name (or the pronunciation of your name) or preferred gender pronouns while on campus and in academic and social contexts. Please be aware that your official name will be used for official college business such as your student account or any official information sent out on behalf of the College. Your suggestions on how to incorporate diversity in this college in a meaningful way are appreciated and encouraged. You can contact the diversity officer at [Lamont Higginbottom](#) at 814-413-7009.





ERIE COUNTY COMMUNITY COLLEGE

Our Community, Your College!

HISTORY

Until recently, Erie County, Pennsylvania was the only metropolitan area in Pennsylvania without a community college. In October, 2016, a non-profit organization named Empower Erie was created to study the feasibility of a community college. Funded by the Erie Community Foundation, the Erie County Gaming Revenue Authority, the Susan Hirt Hagen Fund for Transformational Philanthropy, and the Erie County Council, Empower Erie produced a feasibility study on May 8, 2017. This study demonstrated conclusively that a community college was needed in Erie County and that the college would have significant positive impacts on the future of the County.

With Erie County serving as the legal sponsor of the College, an application for a new community college was submitted to the Pennsylvania Department of Education (PDE) in June, 2017. An updated application was filed in 2018. However, it was not until July, 2020 that the Pennsylvania Department of Education (PDE) held a two day evidentiary meeting to discuss the merits of a new community college in Erie, PA. That meeting ended with an initial approval of 9-6 by the PDE Board. The final vote to approve the community college occurred on July 8, 2020 with a 10-5 approval.



Upon receiving approval from the State Board of Education in July 2020, Erie County Community College prioritized the necessary steps to open for the inaugural 2021-22 school year. In accordance with PA

Law 24 P.S. Sec.19-1904-A, Erie County Council and the County Executive had 60 days to appoint a Board of Trustees in accordance with the PDE's "Guidelines for the Establishment of Public Community Colleges." Nine Trustees were appointed by the Erie County Council and convened for the first time on September 8, 2020.

PDE's "Guidelines for the Establishment of Public Community Colleges" also directs a new community college to have a planning year in which to develop all aspects of the operational plan for the college and to achieve PDE approval of the 120-Day Plan. The Erie County Community College started the planning year in September 2020 (Inaugural Board of Trustees Meeting) through August 2021. Work began on the 120 Day Plan in November 2020 and it was submitted to the PDE in April of 2021. It was subsequently approved by the Department of Education.

The Board of Trustees established a strong committee structure supplemented by a team of higher education experts and advisors to expedite progress on multiple fronts, including development of curriculum, hiring of personnel, identification of initial sites, and development of policies and best practices. In late January 2021, the Board of Trustees announced the hiring of Dr. Judith Gay, as interim president to provide leadership and expertise to the effort. Dr. Gay, who served as vice president for strategic initiatives and chief of staff for the Community College of Philadelphia, brought a wealth of experience and insight to Erie County Community College.

By the summer of 2021, the College had added administrative staff, developed major information technology systems, hired the first four full time faculty: Dr. Leatra Tate, Dr. Jennifer Robinette, Alex Wheaton, and Kimber J. Forrester who in turn aided in the development of curriculum, and designed a website. Student enrollment began in August and the EC3 began its first semester of operation on September 1, 2021.





ERIE COUNTY COMMUNITY COLLEGE

Our Community, Your College!

BECOMING A STUDENT

Admission

Erie County Community College of PA (EC3) is an open enrollment institution, with rolling admissions. Everyone is accepted and there is no application deadline.

Admission to Erie County Community College is open to the following individuals:

- High school graduates, General Equivalency/Commonwealth Diploma recipients, and transfer applicants from another college or university.
- Anyone over the age of 18 who can demonstrate the ability to benefit from post-secondary education.
- Persons not meeting the above criteria may be considered for admission on an individual basis.

Admission to EC3 does not imply or guarantee admission to any specific program of study for which more restrictive admission requirements are established in compliance with institutional expectations, accrediting-body standards, Commonwealth rules and regulations, or federal guidelines and statutes. Applicants for such programs must follow the prescribed steps for admission in each program.

The application for admission is found here: <https://www.ecccpa.org/apply/>.

Academic Placement

Students' academic preparedness for different courses is assessed using various methods to ensure that students are placed in the level of classes in which they will succeed. The College will include non-cognitive assessments as part of the placement process. These assessments and measures could include but not be limited to:

- Placement test results
- High School transcripts
- AP exam scores
- GED scores
- SAT scores
- ACT scores
- College transcripts
- CLEP examination scores
- TOEFL examination scores



Students are offered the option to take the EdReady Knowledge Assessment in a non-proctored, self-paced environment. Students will be permitted multiple attempts at these low-stakes, adaptive assessments to modify their placement. <https://www.ecccpa.org/academic-placement/>.

The following students shall be exempt from placement testing:

- Students who have prior academic experience such as an earned degree (associate's or higher) from an accredited institution
- Students who are degree candidates at another institution (visiting students)
- Students who have transferred 12 or more credits to EC3 from another institution where they received a GPA of 2.0 or above
- Students who are readmitted to the College and have received a GPA of 2.0 or above upon the completion of 12 or more credits shall be exempt from placement testing.





ERIE COUNTY COMMUNITY COLLEGE

Our Community, Your College!

BECOMING A STUDENT (continued)

Transfer Information

EC3 welcomes students who have completed coursework at other institutions and who wish to continue their studies at EC3. If students are transferring from another college, the EC3 Registrar's office will evaluate credit to be transferred based on the degree they intend to pursue at EC3.

EC3 shall evaluate and accept credits earned at another college or university accredited by an institutional accrediting organization that is recognized by the Council for Higher Education Accreditation (CHEA). Credits earned at institutions that are not accredited may be accepted upon consideration of course equivalencies, including expected learning outcomes of the institution's curricula and standards. Credit may be awarded for courses from an institution, whether or not similar courses are offered at Erie County Community College. These courses must satisfy both general elective and graduation requirements.

No more than one-half of the credit requirements for a degree, certificate or diploma shall be completed at another institution.

Only courses with a grade value of 2.0 (C) or higher will be considered for transfer. Courses with a grade value of "pass" or "satisfactory" will be accepted as transfer credits when the transcript states that a "pass" or "satisfactory" is equivalent to a C or above. Transfer courses will be awarded credit with no grade value (quality points) assigned.

Developmental coursework is not accepted for transfer credit but will be transcribed for prerequisite purposes.



Specific degree programs may establish additional guidelines for acceptance of transfer credits based on time limitations.

Transfer credit will not be granted if granting such credit is contrary to the requirements of any recognized local, state, or federal accrediting or certifying agencies. Find more information at <https://www.ecccpa.org/transfer-information/>.

Foreign educational credentials must be evaluated initially by a recognized evaluation and/or translation service.

Registration

Currently enrolled and previously enrolled students in good academic standing in credit degree or certificate programs should utilize online registration to enroll in courses. Students may also register in person.

Students will be permitted to attend only those sections of courses for which they have officially registered and paid. Students are not permitted to sit in on classes for which they have not registered.

It is the student's responsibility, in consultation with appropriate College staff or program faculty, to make certain that any registration changes will fulfill the degree requirements. Veteran students, students who are active military, and military dependents are afforded priority registration in accordance with Pennsylvania state requirements.

Students can register for classes until the day classes begin. Because the College offers several sessions each semester, registration times vary.



ERIE COUNTY COMMUNITY COLLEGE

Our Community, Your College!

BECOMING A STUDENT (continued)

Student Course Load

A full-time student is one taking 12 or more credit hours in the course of one academic semester. Each 16-week long fall or spring semester will consist of one 16-week session with the potential to have additional shorter sessions. It is not recommended that students take more than two courses, 6-7 credit hours, in 8-week sessions. Students expecting to fulfill the requirements for an associates degree within two years should successfully complete 15 to 17 college level credit hours each semester or complete summer courses.

Tuition and Fees

EC3 is among the most affordable institutions of higher education in the state. Our tuition and fees are outlined here: <https://www.ecccpa.org/tuition-and-fees/>. Until EC3 has received regional accreditation, the institution is not eligible for Federal student aid. Our students who have financial barriers can speak to [Advising](#) and apply for additional assistance provided by Erie County.

Tuition rates at Erie County Community College are determined by a student's domicile. Domicile is defined as "the place where one intends to and does, in fact, permanently reside."

An applicant or student under the age of 18 shall be presumed to have the domicile of parents or guardian. A minor may prove emancipation and independent domicile through convincing evidence.

Commonwealth of Pennsylvania Residency

To establish Commonwealth residency, one must demonstrate continuous residence in the Commonwealth for a period of twelve (12) months prior to registration as a student.

Erie County Residency

To establish Erie County residency, an applicant must meet all of the following requirements:

1. Must be a citizen or a permanent resident alien of the United States or be admitted on an immigrant visa to the United States.
2. Must have resided in Pennsylvania for at least 12 months prior to registration.
3. Must have resided in Erie County for at least 12 months prior to registration.

The following documentation may be used to provide evidence toward meeting the residency policy requirements:

Important Note: Name and address must be present on all documents.

1. Current apartment lease or mortgage from the permanent residence.
2. Copy of a city/state tax bill.
3. Copies of bank statements, automobile registration, or other registered property.
4. Current Pennsylvania driver's license or state ID.
5. High school transcript showing an Erie County home address.
6. Pay stubs with Erie County home address showing payment of Erie County taxes.

Cases shall be decided on the basis of documentation submitted, with qualitative rather than quantitative emphasis. The determination of residency in each case is one of the subjective intentions of the student to reside indefinitely in this Commonwealth and in the County.

International Students

International students holding an F-1 or J-1 visa cannot be classified as legal residents of Erie County or Pennsylvania.



ERIE COUNTY COMMUNITY COLLEGE

Our Community, Your College!

BECOMING A STUDENT (continued)

United States Veterans, United States Military and Civilian Personnel, and Their Dependents

All eligible veterans of the United States Armed Forces and their spouses and dependents will receive the in-county residency rate for tuition. For veterans to be eligible, they must have served in the United States Armed Forces, including reserve component or National Guard, and must have been discharged or released from service under conditions other than dishonorable.

All active United States military personnel, including their spouses and dependents, who are assigned to an active duty station in Pennsylvania and reside in Pennsylvania will receive the in-county residency rate for tuition. This provision remains in effect for each member, spouse or dependent while continuously enrolled at the College, even if there is a subsequent change in the permanent duty station of the member to a location outside of Pennsylvania. All active United States civilian personnel, including their spouses and dependents, who reside in Pennsylvania or who are employed or transferred to a United States Department of Defense facility in Pennsylvania and reside in Pennsylvania will receive the in-county residency rate for tuition. This provision remains in effect for each member, spouse or dependent while continuously enrolled at the College, even if there is a subsequent change in the assigned employment of the member to a location outside of Pennsylvania.

All active military personnel, including the spouses and dependents will receive the in-county residency rate for tuition for online courses. Veterans and active military and civilian personnel must verify their affiliation with the United States Armed Services. Spouses and dependents must verify the veteran, military or civilian member's status with the United States Armed Services and provide proof of dependent status.

Change of Residency

Change of residency for tuition and mailing purposes is the sole responsibility of the student. Any changes made to residency after the last day of the term's refund period will be reflected in the following semester.

Payment and Refunds of Tuition and Fees

The Board of Trustees sets tuition and fees and reserves the right to change them without notice. Tuition may vary based on residency. To fund the cost of student publications, student clubs and organizations, and other special services and activities for students, there shall be a general College fee for credit courses. Some credit courses offered by the College are subject to additional course fees. These may include courses with laboratories, clinical instruction or additional instructional hours. Other fees may be assessed to include but are not limited to fees for late registration, credit by examination, prior learning assessment, student identification cards, technology use, transcript processing and on-line learning.

Refunds

It is the student's responsibility to submit an official drop form or drop classes via the web, even in cases of non-attendance. Students who drop credit courses prior to the start of the second week of classes for 16-week classes or within the first three (3) calendar days of a shortened session will not incur any charges other than fees that are considered non-refundable.

The first day of the term marks the beginning of the refund policy regardless of the first scheduled class day for any particular student. Students who drop during the equivalent first three weeks (first 20 percent) of the term will be charged 50 percent for tuition and applicable fees and will be financially responsible for the charges incurred. Students who drop classes during the equivalent fourth week and thereafter will be charged 100 percent of tuition and applicable fees and will be financially responsible for the charges incurred.

A full refund of tuition and fees shall be made if the College cancels a class.

Students may request an exception to the above refund policies in the case of extenuating circumstances.



ERIE COUNTY COMMUNITY COLLEGE

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STUDENT SERVICES

EC3 aims to provide student services which meet the needs of our students and support them to successfully complete coursework. The college is committed to removing barriers to student success and facilitating student connections, to faculty, staff, and to other students. Many different support services are offered which are outlined in the next sections.

Advising/Academic Counseling

Academic and career advising are available to each student upon request. Faculty and staff are aware of course and program requirements for each program offered at the institution, curriculum information is available on the website.

Advisors work closely with students to develop educational plans, review program requirements, and select appropriate courses. Advisors also assist students with understanding their program of study in terms of personal, academic, and career goals and expectations associated with those goals. Students are strongly encouraged to be an active part of the advising relationship by engaging with their advisor throughout their time at the College. Students work with advisors to plan for the transfer process by understanding policies and procedures, and referrals to college resources.

The ultimate responsibility for making decisions about personal goals and educational plans rests with each student. Advisors support and assist by helping to identify and assess options. Students who are identified as needing greater emotional, psychological, or other supports will be referred to appropriate support services in the community.

It is the student's responsibility, in consultation with appropriate College staff or program faculty, to make certain that any registration choices fulfill the degree requirements.

Tutoring/Academic Support

Tutoring and academic supports are available to students as needed. When possible, students will be grouped together to address common academic concerns. Workshops addressing study habits and academic needs are offered on a regular basis, and the library provides classroom visits, lectures, and individual consultations as a resource for research and writing. Students can request tutoring and academic support from any Student Services Personnel, including the Librarian.

Learning Accommodations

Any student with a documented learning difference who needs academic accommodations should contact the College Counselor for Academics and Disabilities, [Andrea Campbell](#) to schedule a confidential appointment to review accommodation requests. The College will be looking for documentation regarding the student diagnosis and recommended accommodations. Types of appropriate documentation can be an IEP, Section 504, psychological evaluation, and/or letter from a certified provider.

Reasonable accommodations will be determined by the College.

Basic Needs Support

EC3 has established connections with area agencies and service providers to help students with accessing assistance with housing and food insecurity. Students can visit the Student Services Center in the basement of the St. Benedict's facility and speak with a staff member to be connected to local agencies who will help.

Students, staff, and faculty have provided a "grab and go" food pantry for students in the Student Services Center at EC3 Erie East (St. Benedict Education Center) and at EC3 Summit (Erie County Technical Skills Center) facility (room 202) so students can access food to meet immediate needs. Students experiencing more extensive needs will be referred to area pantries providing additional offerings.



ERIE COUNTY COMMUNITY COLLEGE

Our Community, Your College!

STUDENT SERVICES (continued)

Public Transportation

EC3 students who are currently enrolled and have active EC3 student identification are able to ride the EMTA buses for free when the College is in session. Information is available at: <https://ride-the-e.com/university-services/>.

Bookstore

EC3 is committed to keeping costs as low as possible for our students. As often as possible, our faculty choose Open Educational Resources (OER) as the texts/resources for their classes. When OERs are not available for a course, the College has contracted with Barnes & Noble to provide bookstore services. The Barnes & Noble online bookstore, <https://bncvirtual.com/EC3>, is built around a course-driven system that ensures students order and receive the correct book. Students are encouraged to shop for the assigned texts anywhere, to ensure they receive the best price possible.

STUDENT RIGHTS AND RESPONSIBILITIES

All students shall abide by the College's policies as well as all county, state and federal laws. Further, students shall not interfere with or disrupt the orderly educational processes at the College. All students are expected to understand and adhere to regulations in the College Catalog to include, but not limited to, degree requirements, academic progress, financial obligations, relationships with college authorities, transferability of credits for courses completed, acceptance of credits for graduation and eligibility to graduate.

Family Educational Rights and Privacy Act (FERPA)

The College accords all the rights under the Family Educational Rights and Privacy Act of 1974 to its students. This act is intended to protect the privacy of educational records, to establish the right of students to inspect and review their educational records, and to provide guidelines for the correction of inaccurate or misleading data through informal or formal hearings.

Students may sign a FERPA release form to allow the College to share protected information. Such information will not be shared without such a release in place. Information considered "directory" information, however, can be shared without express permission. EC3 considers "directory" information to be: student's name, program of study, dates of attendance, degrees/awards received, enrollment status, and previous institutions attended. For assistance with completing a release form, please contact the Registrar [Andrew Dick](#), or Dean of Student Support, Success, and Enrollment Management, [Dr. Keri Bowman](#).

Student Code of Conduct

The primary purpose of the Student Code of Conduct is to guide students to understand their responsibilities regarding appropriate behavior and respect for others in the college community. Students are expected to treat all members of the college community with dignity, respect, fairness, and civility and to act in a responsible manner at all times both in and outside of the classroom. Every student is expected to be fully acquainted with and comply with all policies, rules, and regulations outlined in the Student Code of Conduct.

The Student Code of Conduct applies to all students while enrolled at the college, on college premises, and/or while attending college-sponsored activities on or off campus. Certain circumstances, for example, an instance of sexual misconduct, off campus misconduct at non-college-sponsored activities that have a continuing and disruptive effect on members of this College community, will also be actionable under the Student Code of Conduct.

Classroom misconduct is any behavior which disrupts or interferes with the learning experience. Students should conduct and express themselves in a way that is respectful to all persons. This includes respecting the rights of others to comment and participate fully in class. The College may initiate disciplinary proceedings for student violations including, but not limited to disruption of the orderly process of the College, including, but not limited to, disruptions of classes, events, or meetings, or interference with the rights of others; physical or verbal (oral and/or written), and/or sexual assaults, threats, abuse, harassment, and/or endangerment of the health or safety of a person at the College.



ERIE COUNTY COMMUNITY COLLEGE

Our Community, Your College!

STUDENT RIGHTS AND RESPONSIBILITIES (continued)

Students will respect College property, property belonging to a third party on a college-sponsored activity, or property belonging to a student, faculty, staff member, or campus visitor. Students will not bring to campus or any college-related activity any weapon, firearm, explosive and/or facsimile weapons, or flammable liquids such as paint, gasoline, etc., or any fireworks, ammunition, etc., except by an individual for use in a program approved by the College. Students will not knowingly give false information in response to a request from College employees; nor will students forge, alter, or misuse college documents.

Students will not misuse technology, including but not limited to, sending, distributing, posting, or displaying offensive, harassing, or threatening material, forging email messages, and other actions in violation of the College's Acceptable Use of Technology Policy as it relates to use of college technology and computing systems found on pages 22-26 of the college's [Policy Manual](#).

Complaints, Problems, Grievances and Appeals by Students

A student may submit a complaint about any matter in which he or she feels unjustly treated by following the College's appeals procedures.

The College will maintain a fair, equitable, and timely procedure for addressing student complaints and grievances which will ensure that the rights of the students, the College community, and the community-at-large are protected. The student has the right to due process and all grievances and appeals must be conducted in a manner which ensures the accused student adequate notice and a fair opportunity to be heard.

If a student is found responsible for a violation of the Student Code of Conduct and refuses the administrative decision, the student has the right to request an appeal hearing.

GENERAL EDUCATION

Erie County Community College General Education Goals

- EC3 graduates will...
 - ◆ Break down arguments and recognize that different people see things differently
 - ◆ Be able to work with other people and be able to communicate clearly with them.
 - ◆ Create unique solutions that work.
 - ◆ Evaluate solutions and plan for the future.

Erie County Community College general education philosophy.

EC3 recognizes the fast pace of societal and technological changes and is committed to developing graduates with an entrepreneurial mindset. Our graduates will be empathetic, nimble, and possess the creativity and innovation required to succeed in the future; they will apply design thinking tenets in their approach to problem solving and the learning process.

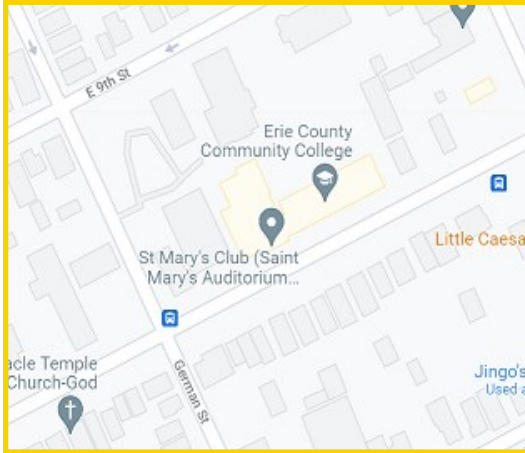




ERIE COUNTY COMMUNITY COLLEGE

Our Community, Your College!

Class Locations



EC3 Erie East: St. Benedicts Education Center

330 East 10th Street

Erie, PA 16503

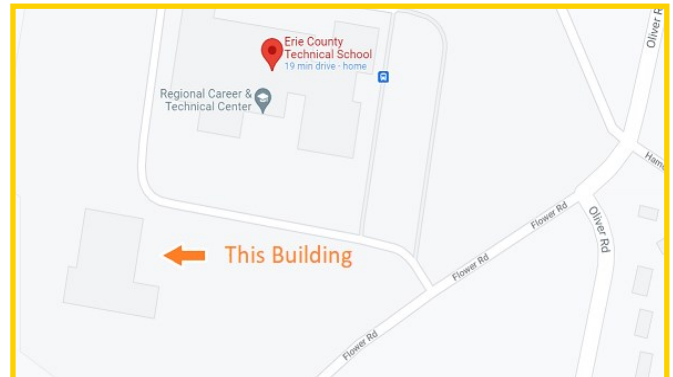
814-413-7000

EC3 Summit: Erie County Technical School

8500 Oliver Road

Erie, PA 16509

814-413-7000



EC3 Erie West: Villa Maria Academy

2403 W 8th St.

Erie, PA 16505

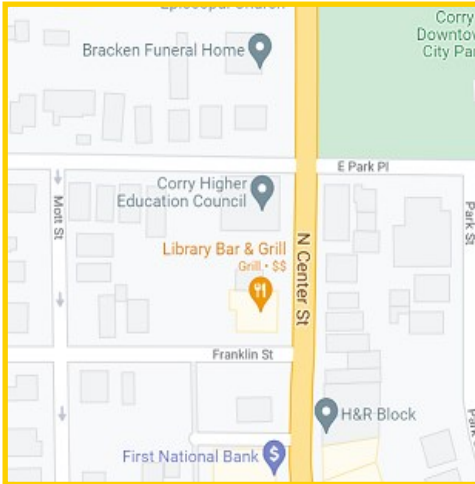
814-413-7000



ERIE COUNTY COMMUNITY COLLEGE

Our Community, Your College!

Class Locations



EC3 Corry: Corry Higher Education Council

221 N. Center St
Corry, PA 16407
(814-413-7000)

Additional Course Locations

Regional Science Consortium at the Tom Ridge Environmental Center

301 Peninsula Dr.
Erie, PA 16505
814-833-7424



Girard High School

1135 Lake St.
Girard, PA 16417



ERIE COUNTY COMMUNITY COLLEGE

Our Community, Your College!

CAMPUS LIBRARY

The mission of the library at EC3 is to provide in-person and online academic support for students and faculty. Our goal is to be an essential part of student success by providing research assistance, class support, and information literacy instruction.

The College has subscribed to e-book databases and general article databases to provide trusted sources of information targeted for community college students. The library also has a collection of reference materials and select physical textbooks to support the classes at EC3

The library can be found on the 3rd floor of EC3 Erie East (St. Benedict Education Center).



Students will be required to apply for an Erie County Public Library (ECPL) card if they do not already have one. With the card, they can choose to borrow materials from ECPL's extensive physical collection and they will have access to numerous electronic databases.



ERIE COUNTY PUBLIC LIBRARY ACCESS

- Access all available print, digital, and audio-visual collections and materials at public library locations across Erie County.
- Use internet-connected computers. These devices provide access to a range of databases, including POWER Library.
- Participate in interlibrary loan services to gain access to even more materials not available within the ECPL catalog.
- Have study time in study rooms or collaborate with classmates and peers.
- Access printing, scanning, and fax services (some additional charges may apply).
- Receive assistance from Reference Librarians.

Blasco Memorial Library
160 East Front Street
Erie, Pa 16507
(814) 451-6900

Millcreek Branch Library
2088 Interchange Rd., Suite 280
Erie, PA 16565
(814) 451-7084

Edinboro Branch Library
413 W. Plum St
Edinboro, PA 16412
(814) 451-7081

Iroquois Avenue Branch
4212 Iroquois Ave
Erie, PA 16511
(814) 451-7082

Lincoln Community Center
1255 Manchester Rd
Erie, PA 16505
(814) 451-7085



ERIE COUNTY COMMUNITY COLLEGE

Our Community, Your College!

UNIVERSITY LIBRARY ACCESS

EC3 students can register for library cards at associated universities, which allow them to benefit from the vast print collection available at each library. Students will also have access to all of Penn State's databases when visiting any of their campuses. Additionally, EC3 students can use public and private study areas and spaces at these facilities.



[John M. Lilley Library](#)
4951 Behrend College Dr.,
Erie, PA 16563
(814) 898-6106



[Baron-Forness Library](#) 200 Tartan Rd.
Edinboro, PA
(814) 732-2273





ERIE COUNTY COMMUNITY COLLEGE

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DEGREE INFORMATION

At EC3 we currently offer 6 Associate Degrees in both the Liberal Arts and Applied fields as well as 5 Certificate Programs.

ASSOCIATE DEGREES:

- Associate of Arts in Liberal Studies
- Associate of Applied Business in Management and Entrepreneurial Thinking
- Associate of Applied Science in Criminal Justice
- Associate of Applied Science in Information Technology: Network Systems
- Associate of Applied Science in Information Technology: Programming
- Associate of Applied Science in Information Technology: Mobile App Development

CERTIFICATE PROGRAMS:

- Automated Electrical Systems
- Corrections
- CNC Operator/Programmer
- Industrial Maintenance
- Welding

DEFINITION OF DEGREES

Associate of Arts Degrees:

An Associate of Arts degree is designed to prepare students with the foundational knowledge and skills to pursue further study at a four-year college or university. Associate of Arts degrees are typically around sixty credit hours.

Associate of Applied Degrees:

Associate of Applied degrees are designed to prepare the student with the skills and abilities to enter the workforce immediately upon graduation. Associate of Applied degrees are typically around sixty credit hours and often include industry credentials.

Certificates:

Certificate programs are short-term training leading to immediate employment or advancement in a current position. Certificates range between nine and thirty credit hours.



ERIE COUNTY COMMUNITY COLLEGE

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ASSOCIATES DEGREES PROGRAMS

Associate of Arts degrees prepare students with the foundational knowledge and skills to pursue further study at a four-year college or university. Applied Associates degrees are designed to prepare the student with the skills and abilities to enter the workforce immediately upon graduation



Associate of Arts in Liberal Studies

An associate degree in liberal arts equips students with written and verbal communication, and critical thinking skills. After two years of full-time study, liberal arts graduates can apply their knowledge to careers in social services, business administration, marketing, healthcare, and many other fields. An associate degree in liberal arts includes courses in subjects like English, communications, history, psychology, economics, and mathematics and science. Rather than zeroing in on one subject,

students focus on learning to think critically.

Program Outcomes

- Examine a variety of perspectives, distinguishing their own cultural patterns.
- Articulate problems and their components while analyzing assumptions and gathering contextual information.
- Engage in creative collaboration to enhance knowledge and develop solutions to complex problems.
- Recognize the importance of “failing fast” to create alternative approaches to academic and social issues.
- Be nimble and able to shift based on circumstances, people, technology, and new information.

Associate of Applied Business in Management and Entrepreneurial Thinking

Graduates with an associate degree in Management and Entrepreneurial Thinking are trained in financial management, human resources and marketing which prepares them to start their own businesses or to work for an established business.

Program Outcomes

- Apply managerial theory and practices to the key functional areas within an organization in today’s business environment, such as accounting, computer information systems, finance, economics, and marketing.
- Examine the social, legal, and ethical principles that guide appropriate and responsible managerial decision-making.
- Demonstrate entrepreneurial critical-thinking and analytical acumen to determine appropriate effective business actions.
- Exhibit professional and proficient communication skills: verbal, written and interpersonal for business situations.





ERIE COUNTY COMMUNITY COLLEGE

Our Community, Your College!

ASSOCIATES DEGREES PROGRAMS

Associate of Applied Science in Criminal Justice

The Associate of Applied Science in Criminal Justice provides students with a comprehensive practical and professional knowledge of the Criminal Justice System, consisting of law enforcement, courts, and corrections. Students will develop a knowledge of the application of the law, social sciences, and criminology to prepare them to advance to the ACT120 Police Academy or transfer to a four-year college or university to obtain a bachelor's degree.

Program Outcomes

- Identify and analyze the core principles, practices and skills required for a successful career in criminal justice.
- Demonstrate a thorough understanding of the functions and roles of all major aspects of the United States criminal justice system in society.
- Describe and evaluate the role of the criminal justice concepts of reasonable suspicion, probable cause, and proof beyond a reasonable doubt from interrogation, arrest, prosecution, and conviction.
- Demonstrate an appreciation of and sensitivity toward the ethnic, racial and gender diversity of American society, and an understanding of how these values can be reflected and projected by the criminal justice system.
- Identify and analyze the ethical issues that arise in each component of the criminal justice system.

Associate of Applied Science in Information Technology: Network Systems

A two-year degree in Information Technology Network Systems is a versatile degree that can help you get your foot in the door with a wide variety of companies and industries in your own backyard. Information technology plays a key role in any organization. It helps organizations design, utilize and support the computer systems that help streamline their production processes. Technology is part of nearly every company in every industry, and they are aware of the value you can bring to an IT department with a two-year degree.

Program Outcomes

- Demonstrate knowledge of computer and network systems terms and concepts.
- Be able to set up, install, configure, and troubleshoot hardware and software for desktop and wireless computer systems.
- Understand how to set up a Local Area Network (LAN), Wide Area Network (WAN), and wireless network (WiFi).
- Understand how to set up and implement security controls.





ERIE COUNTY COMMUNITY COLLEGE

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ASSOCIATES DEGREES PROGRAMS

Associate of Applied Science in Information Technology: Programming

Graduates with either the A.A.S. degree or Certificate in Programming will have entry-level proficiency in C#, Python, Java, HTML/CSS and JavaScript and be able to enter an entry-level position as a programmer or software quality assurance technician. Students completing the Programming A.A.S. degree will be prepared to transfer to a four-year institution for further studies in Information Technology.

Program Outcomes

- Demonstrate knowledge of computer and network systems terms and concepts.
- Be able to set up, install, configure, and troubleshoot hardware and software for desktop and wireless computer systems.
- Understand how to set up a Local Area Network (LAN), Wide Area Network (WAN), and wireless network (WiFi).
- Understand how to set up and implement security controls.

Associate of Applied Science in Information Technology: Mobile App Development

Graduates with either the A.A.S. degree or Certificate in Mobile App Development will have the basic knowledge, skills, and abilities to obtain an entry-level position as a mobile app developer, programmer, or software quality assurance technician. Students completing the Mobile App Development A.A.S. degree will be prepared to transfer to a four-year institution for further studies in Information Technology. In addition, many of the credits earned can be applied to bachelor's degree programs in computer science at participating PA TRAC colleges.

Program Outcomes

- Students will acquire the skills to relate the states of App Development Life Cycle (SDLC) in managing a given project.
- Students will be able to analyze, design, develop and test both web and mobile applications to resolve needs of business and other sectors.
- Students will design native (platform specific) mobile apps that incorporate good User Interface / User Experience (UI/UX) principles and meet the standards of the Google Play and Apple iOS stores.
- Student will be able to use both procedural and Object-Oriented Programming (OOP) principles to provide underlying user interaction to process input and provided formatted output.



ERIE COUNTY COMMUNITY COLLEGE

Our Community, Your College!

CERTIFICATE PROGRAMS

Automated Electrical Systems

Have you already been working in the Industrial Maintenance industry and are looking to expand your skills to different programmable logic controllers (PLCs)? If the answer is yes, the EC3 Automated Electrical Systems is for you. Attaining this certificate signifies that you have the knowledge and skill to program an Allen Bradley SL500 PLC.

Corrections

The Corrections Program develops practical and professional knowledge and skills within the correctional field including the application of the law, social sciences, and criminology. The Certificate prepares students for entry level careers in corrections and employment opportunities within the correctional system.

CNC Operator/Programmer

Graduates obtaining a certificate in CNC Operator/Programmer from EC3 will be prepared for high-demand careers in operating and programming Computer Numeric Controlled (CNC) machines. Students will be able to enter entry-level positions that can lead to a career in application engineering with skills in advanced manufacturing machine safety, blueprint reading, technical math, metrology, and proper part inspection methods.

Industrial Maintenance

As you complete the certificate in Industrial Maintenance, be prepared to build strong troubleshooting and problem-solving skills while gaining foundational skills in the fields of electricity, automation, mechanical systems, pneumatics, and hydraulics.

Welding

If you are interested in a certificate in Welding Technology from EC3, you will be exposed to various materials including steel, aluminum, and stainless steel as you advance your technical skills in shield metal arc welding (SMAW), gas metal arc welding (GMAW) – also referred to as metal inert gas welding (MIG), and gas tungsten arc welding (GTAW). This program is intended to lead to entry-level employment in the welding fabrication industry.



ERIE COUNTY COMMUNITY COLLEGE

Our Community, Your College!

PROGRAM REQUIREMENTS

Associate of Arts in Liberal Studies

I. General Education Course Requirements - 10 courses (31 cr. hrs.) from the following:

- A. FYE 101 First Year Experience (3 cr. hrs.) Required
- B. ENG 101 English Composition I (3 cr. hrs.) Required
- C. One of the following:
 - 1. ENG 102 English Composition 2 (3 cr. hrs.)
 - 2. ENG 110 Fundamentals of Public Speaking (3 cr. hrs.)
- D. Social & Behavioral Sciences - One of the following:
 - 1. ECO 101 Macroeconomics (3 cr. hrs.)
 - 2. ECO 102 Microeconomics (3 cr. hrs.)
 - 3. PSY 101 Introduction to Psychology (3 cr. hrs.)
 - 4. SOC 101 Introduction to Sociology (3 cr. hrs.)
 - 5. ANT 201 Survey of Anthropology (3 cr. hrs.)
 - 6. POL 203 Survey of American Politics (3 cr. hrs.)
- E. Artistic Expression - One of the following:
 - 1. MUS 101 Introduction to Music (3 cr. hrs.)
 - 2. ART 101 Art Appreciation (3 cr. hrs.)
 - 3. ENG 207 Survey of Literature (3 cr. hrs.)
 - 4. ENG 201 Poetry (3 cr. hrs.)
- F. Cultural Awareness - One of the following:
 - 1. HIS 122 Modern History (3 cr. hrs.)
 - 2. PHL 111 Religions of the World (3 cr. hrs.)
 - 3. SOC 211 Racial and Ethnic Minorities (3 cr. hrs.)
 - 4. POL 112 Introduction to International Relations (3 cr. hrs.)
 - 5. MUS 114 World Music (3 cr. hrs.)
- G. Mathematics - One of the following:
 - 1. MAT 102 Mathematical Concepts (3 cr. hrs.)
 - 2. MAT 111 College Algebra (3 cr. hrs.)
 - 3. MAT 202 Introduction to Statistics (3 cr. hrs.)
- H. Natural Science - One of the following:
 - 1. BIO 101 General Biology with Lab (4 cr. hrs.)
 - 2. GLG 220 Environmental Geology with Lab (4 cr. hrs.)
 - 3. EAS 101 Earth Science Meteorology with Lab (4 cr. hrs.)
- I. Technology Skills
 - 1. CIS 100 Computer Applications and Concepts (3 cr. hrs.)
- J. Ethics
 - 1. PHL 101 Introduction to Philosophy (3 cr. hrs.)



ERIE COUNTY COMMUNITY COLLEGE

Our Community, Your College!

PROGRAM REQUIREMENTS

II. Elective Course Options– 10 courses (30 cr. hrs.) to be selected from this section OR General Education courses

- A. COM 201 Effective Interpersonal and Professional Communication (3 cr. hrs.)
- B. PSY 201 Social Psychology (3 cr. hrs.)
- C. PSY 210 Lifespan Development (3 cr. hrs.)
- D. SOC 250 Contemporary Social Problems (3 cr. hrs.)



ERIE COUNTY COMMUNITY COLLEGE

Our Community, Your College!

PROGRAM REQUIREMENTS

Associate of Applied Business in Management and Entrepreneurial Thinking

I. General Education Course Requirements - 10 courses (31 cr. hrs.) from the following:

- A. FYE 101 First Year Experience (3 cr. hrs.) Required
- B. ENG 101 English Composition I (3 cr. hrs.) Required
- C. One of the following:
 - 1. ENG 102 English Composition 2 (3 cr. hrs.)
 - 2. ENG 110 Fundamentals of Public Speaking (3 cr. hrs.)
- D. Social & Behavioral Sciences - One of the following:
 - 1. ECO 101 Macroeconomics (3 cr. hrs.)
 - 2. ECO 102 Microeconomics (3 cr. hrs.)
 - 3. PSY 101 Introduction to Psychology (3 cr. hrs.)
 - 4. SOC 101 Introduction to Sociology (3 cr. hrs.)
 - 5. ANT 201 Survey of Anthropology (3 cr. hrs.)
 - 6. POL 203 Survey of American Politics (3 cr. hrs.)
- E. Artistic Expression - One of the following:
 - 1. MUS 101 Introduction to Music (3 cr. hrs.)
 - 2. ART 101 Art Appreciation (3 cr. hrs.)
 - 3. ENG 207 Survey of Literature (3 cr. hrs.)
 - 4. ENG 201 Poetry (3 cr. hrs.)
- F. Cultural Awareness - One of the following:
 - 1. HIS 122 Modern History (3 cr. hrs.)
 - 2. PHL 111 Religions of the World (3 cr. hrs.)
 - 3. SOC 211 Racial and Ethnic Minorities (3 cr. hrs.)
 - 4. POL 112 Introduction to International Relations (3 cr. hrs.)
 - 5. MUS 114 World Music (3 cr. hrs.)
- G. Mathematics - One of the following:
 - 1. MAT 102 Mathematical Concepts (3 cr. hrs.)
 - 2. MAT 111 College Algebra (3 cr. hrs.)
 - 3. MAT 202 Introduction to Statistics (3 cr. hrs.)
- H. Natural Science - One of the following:
 - 1. BIO 101 General Biology with Lab (4 cr. hrs.)
 - 2. GLG 220 Environmental Geology with Lab (4 cr. hrs.)
 - 3. EAS 101 Earth Science Meteorology with Lab (4 cr. hrs.)
- I. Technology Skills
 - 1. CIS 100 Computer Applications and Concepts (3 cr. hrs.)
- J. Ethics
 - 1. PHL 101 Introduction to Philosophy (3 cr. hrs.)



ERIE COUNTY COMMUNITY COLLEGE

Our Community, Your College!

PROGRAM REQUIREMENTS

II. Program Major Requirements – 8 courses (24 cr. hrs.) from the following courses:

- A. ACC 111 Business Accounting (3 cr. hrs.)
- B. ACC 150 The Legal Environment of Business (3 cr. hrs.)
- C. BUS 101 Introduction to Business Administration (3 cr. hrs.) **Required**
- D. BUS 103 Principles of Management (3 cr. hrs.) **Required**
- E. BUS 130 Business Communications (3 cr. hrs.)
- F. BUS 221 Production Management (3 cr. hrs.)
- G. ENT 110 Fundamentals of Entrepreneurship (3 cr. hrs.) **Required**
- H. ENT 120 Entrepreneurial Marketing (3 cr. hrs.)
- I. ENT 130 Entrepreneurial Finance Intelligence (3 cr. hrs.)
- J. ENT 140 Business Plan Development for the Entrepreneur (3 cr. hrs.)

III. Elective Course Options– 2 courses (6 cr. hrs.) to be selected from this section OR General Education courses

- A. COM 201 Effective Interpersonal and Professional Communication (3 cr. hrs.)
- B. PSY 201 Social Psychology (3 cr. hrs.)
- C. PSY 210 Lifespan Development (3 cr. hrs.)
- D. SOC 250 Contemporary Social Problems (3 cr. hrs.)



ERIE COUNTY COMMUNITY COLLEGE

Our Community, Your College!

PROGRAM REQUIREMENTS

Associate of Applied Science in Criminal Justice

I. General Education Course Requirements - 10 courses (31 cr. hrs.) from the following:

- A. FYE 101 First Year Experience (3 cr. hrs.) Required
- B. ENG 101 English Composition I (3 cr. hrs.) Required
- C. One of the following:
 - 1. ENG 102 English Composition 2 (3 cr. hrs.)
 - 2. ENG 110 Fundamentals of Public Speaking (3 cr. hrs.)
- D. Social & Behavioral Sciences - One of the following:
 - 1. ECO 101 Macroeconomics (3 cr. hrs.)
 - 2. ECO 102 Microeconomics (3 cr. hrs.)
 - 3. PSY 101 Introduction to Psychology (3 cr. hrs.)
 - 4. SOC 101 Introduction to Sociology (3 cr. hrs.)
 - 5. ANT 201 Survey of Anthropology (3 cr. hrs.)
 - 6. POL 203 Survey of American Politics (3 cr. hrs.)
- E. Artistic Expression - One of the following:
 - 1. MUS 101 Introduction to Music (3 cr. hrs.)
 - 2. ART 101 Art Appreciation (3 cr. hrs.)
 - 3. ENG 207 Survey of Literature (3 cr. hrs.)
 - 4. ENG 201 Poetry (3 cr. hrs.)
- F. Cultural Awareness - One of the following:
 - 1. HIS 122 Modern History (3 cr. hrs.)
 - 2. PHL 111 Religions of the World (3 cr. hrs.)
 - 3. SOC 211 Racial and Ethnic Minorities (3 cr. hrs.)
 - 4. POL 112 Introduction to International Relations (3 cr. hrs.)
 - 5. MUS 114 World Music (3 cr. hrs.)
- G. Mathematics - One of the following:
 - 1. MAT 102 Mathematical Concepts (3 cr. hrs.)
 - 2. MAT 111 College Algebra (3 cr. hrs.)
 - 3. MAT 202 Introduction to Statistics (3 cr. hrs.)
- H. Natural Science - One of the following:
 - 1. BIO 101 General Biology with Lab (4 cr. hrs.)
 - 2. GLG 220 Environmental Geology with Lab (4 cr. hrs.)
 - 3. EAS 101 Earth Science Meteorology with Lab (4 cr. hrs.)
- I. Technology Skills
 - 1. CIS 100 Computer Applications and Concepts (3 cr. hrs.)
- J. Ethics
 - 1. PHL 101 Introduction to Philosophy (3 cr. hrs.)



ERIE COUNTY COMMUNITY COLLEGE

Our Community, Your College!

PROGRAM REQUIREMENTS

II. **Program Major Requirements – (21 cr. hrs.)**

- A. CJS 100 Introduction to Criminal Justice (3 cr. hrs.)
- B. CJS 103 Juvenile Justice (3 cr. hrs.)
- C. CJS 150 Criminal Law (3 cr. hrs.)
- D. CJS 170 Introduction to Corrections (3 cr. hrs.)
- E. CJS 190 Race, Crime, and Justice (3 cr. hrs.)
- F. CJS 180 Introduction to Policing (3 cr. hrs.)
- G. CJS 199 Criminal Justice Internship (3 cr. hrs.)

III. **Elective Course Options– 3 courses (9 cr. hrs.) to be selected from this section OR General Education courses**

- A. COM 201 Effective Interpersonal and Professional Communication (3 cr. hrs.)
- B. PSY 201 Social Psychology (3 cr. hrs.)
- C. PSY 210 Lifespan Development (3 cr. hrs.)
- D. SOC 250 Contemporary Social Problems (3 cr. hrs.)



ERIE COUNTY COMMUNITY COLLEGE

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PROGRAM REQUIREMENTS

Associate of Applied Science in Information Technology: Mobile App Development

I. General Education Course Requirements - 10 courses (28 cr. hrs.) from the following:

- A. FYE 101 First Year Experience (3 cr. hrs.) Required
- B. ENG 101 English Composition I (3 cr. hrs.) Required
- C. One of the following:
 - 1. ENG 102 English Composition 2 (3 cr. hrs.)
 - 2. ENG 110 Fundamentals of Public Speaking (3 cr. hrs.)
- D. Social & Behavioral Sciences - One of the following:
 - 1. ECO 101 Macroeconomics (3 cr. hrs.)
 - 2. ECO 102 Microeconomics (3 cr. hrs.)
 - 3. PSY 101 Introduction to Psychology (3 cr. hrs.)
 - 4. SOC 101 Introduction to Sociology (3 cr. hrs.)
 - 5. ANT 201 Survey of Anthropology (3 cr. hrs.)
 - 6. POL 203 Survey of American Politics (3 cr. hrs.)
- E. Artistic Expression - One of the following:
 - 1. MUS 101 Introduction to Music (3 cr. hrs.)
 - 2. ART 101 Art Appreciation (3 cr. hrs.)
 - 3. ENG 207 Survey of Literature (3 cr. hrs.)
 - 4. ENG 201 Poetry (3 cr. hrs.)
- F. Mathematics - One of the following:
 - 1. MAT 102 Mathematical Concepts (3 cr. hrs.)
 - 2. MAT 111 College Algebra (3 cr. hrs.)
 - 3. MAT 202 Introduction to Statistics (3 cr. hrs.)
- G. Natural Science - One of the following:
 - 1. BIO 101 General Biology with Lab (4 cr. hrs.)
 - 2. GLG 220 Environmental Geology with Lab (4 cr. hrs.)
 - 3. EAS 101 Earth Science Meteorology with Lab (4 cr. hrs.)
- H. Technology Skills
 - 1. CIS 100 Computer Applications and Concepts (3 cr. hrs.)
- I. Ethics
 - 1. PHL 101 Introduction to Philosophy (3 cr. hrs.)



ERIE COUNTY COMMUNITY COLLEGE

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PROGRAM REQUIREMENTS/DEGREE TRACKER

Continued from Previous Page

- II. Program Major Requirements – (33 cr. hrs.)**
- A. CIS 113 IT Hardware Essentials and Support (3 cr. hrs.)
 - B. CIS 130 Adobe Photoshop (3 cr. hrs.)
 - C. CIS 135 HTML/CSS Web Development (3 cr. hrs.)
 - D. CIS 138 JavaScript for Web Development (3 cr. hrs.)
 - E. CIS 140 Windows Development Level I [C#] (4 cr. hrs.)
 - F. CIS 215 Database Design and App Development (3 cr. hrs.)
 - G. CIS 240 Windows Development Level II [C#] (3 cr. hrs.)
 - H. CIS 245 Android App Development [Kotlin] (4 cr. hrs.)
 - I. CIS 248 iOS App Development [Swift] (4 cr. hrs.)
 - J. CIS 250 Internet/Intranet Networking (3 cr. hrs.)



ERIE COUNTY COMMUNITY COLLEGE

Our Community, Your College!

PROGRAM REQUIREMENTS

Associate of Applied Science in Information Technology: Network Systems

I. General Education Course Requirements - 10 courses (31 cr. hrs.) from the following:

- A. FYE 101 First Year Experience (3 cr. hrs.) Required
- B. ENG 101 English Composition I (3 cr. hrs.) Required
- C. One of the following:
 - 1. ENG 102 English Composition 2 (3 cr. hrs.)
 - 2. ENG 110 Fundamentals of Public Speaking (3 cr. hrs.)
- D. Social & Behavioral Sciences - One of the following:
 - 1. ECO 101 Macroeconomics (3 cr. hrs.)
 - 2. ECO 102 Microeconomics (3 cr. hrs.)
 - 3. PSY 101 Introduction to Psychology (3 cr. hrs.)
 - 4. SOC 101 Introduction to Sociology (3 cr. hrs.)
 - 5. ANT 201 Survey of Anthropology (3 cr. hrs.)
 - 6. POL 203 Survey of American Politics (3 cr. hrs.)
- E. Artistic Expression - One of the following:
 - 1. MUS 101 Introduction to Music (3 cr. hrs.)
 - 2. ART 101 Art Appreciation (3 cr. hrs.)
 - 3. ENG 207 Survey of Literature (3 cr. hrs.)
 - 4. ENG 201 Poetry (3 cr. hrs.)
- F. Cultural Awareness - One of the following:
 - 1. HIS 122 Modern History (3 cr. hrs.)
 - 2. PHL 111 Religions of the World (3 cr. hrs.)
 - 3. SOC 211 Racial and Ethnic Minorities (3 cr. hrs.)
 - 4. POL 112 Introduction to International Relations (3 cr. hrs.)
 - 5. MUS 114 World Music (3 cr. hrs.)
- G. Mathematics - One of the following:
 - 1. MAT 102 Mathematical Concepts (3 cr. hrs.)
 - 2. MAT 111 College Algebra (3 cr. hrs.)
 - 3. MAT 202 Introduction to Statistics (3 cr. hrs.)
- H. Natural Science - One of the following:
 - 1. BIO 101 General Biology with Lab (4 cr. hrs.)
 - 2. GLG 220 Environmental Geology with Lab (4 cr. hrs.)
 - 3. EAS 101 Earth Science Meteorology with Lab (4 cr. hrs.)
- I. Technology Skills
 - 1. CIS 100 Computer Applications and Concepts (3 cr. hrs.)
- J. Ethics
 - 1. PHL 101 Introduction to Philosophy (3 cr. hrs.)



ERIE COUNTY COMMUNITY COLLEGE

Our Community, Your College!

PROGRAM REQUIREMENTS/DEGREE TRACKER

Continued from Previous Page

II. Program Major Requirements – 8 courses (24 cr. hrs.) from the following courses:

- A. CIS 113 IT Hardware Essentials and Support (3 cr. hrs.)
- B. CIS 115 Information Technology Fundamentals (3 cr. hrs.)
- C. CIS 117 Operating Systems Interfaces (3 cr. hrs.)
- D. CIS 119 Introduction to Programming - Python (4 cr. hrs.)
- E. CIS 120 Network Integration and Management (3 cr. hrs.)
- F. CIS 185 Introduction to Network Security (3 cr. hrs.)
- G. CIS 215 Database Design and Application Development (3 cr. hrs.)
- H. CIS 220 Systems Development (3 cr. hrs.)
- I. CIS 250 Internet/Intranet Networking (3 cr. hrs.)

III. Elective Course Options– 2 courses (6 cr. hrs.) to be selected from this section OR General Education courses

- A. COM 201 Effective Interpersonal and Professional Communication (3 cr. hrs.)
- B. PSY 201 Social Psychology (3 cr. hrs.)
- C. PSY 210 Lifespan Development (3 cr. hrs.)
- D. SOC 250 Contemporary Social Problems (3 cr. hrs.)



ERIE COUNTY COMMUNITY COLLEGE

Our Community, Your College!

PROGRAM REQUIREMENTS

Associate of Applied Science in Information Technology: Programming

I. General Education Course Requirements - 10 courses (31 cr. hrs.) from the following:

- A. FYE 101 First Year Experience (3 cr. hrs.) Required
- B. ENG 101 English Composition I (3 cr. hrs.) Required
- C. One of the following:
 - 1. ENG 102 English Composition 2 (3 cr. hrs.)
 - 2. ENG 110 Fundamentals of Public Speaking (3 cr. hrs.)
- D. Social & Behavioral Sciences - One of the following:
 - 1. ECO 101 Macroeconomics (3 cr. hrs.)
 - 2. ECO 102 Microeconomics (3 cr. hrs.)
 - 3. PSY 101 Introduction to Psychology (3 cr. hrs.)
 - 4. SOC 101 Introduction to Sociology (3 cr. hrs.)
 - 5. ANT 201 Survey of Anthropology (3 cr. hrs.)
 - 6. POL 203 Survey of American Politics (3 cr. hrs.)
- E. Artistic Expression - One of the following:
 - 1. MUS 101 Introduction to Music (3 cr. hrs.)
 - 2. ART 101 Art Appreciation (3 cr. hrs.)
 - 3. ENG 207 Survey of Literature (3 cr. hrs.)
 - 4. ENG 201 Poetry (3 cr. hrs.)
- F. Cultural Awareness - One of the following:
 - 1. HIS 122 Modern History (3 cr. hrs.)
 - 2. PHL 111 Religions of the World (3 cr. hrs.)
 - 3. SOC 211 Racial and Ethnic Minorities (3 cr. hrs.)
 - 4. POL 112 Introduction to International Relations (3 cr. hrs.)
 - 5. MUS 114 World Music (3 cr. hrs.)
- G. Mathematics - One of the following:
 - 1. MAT 102 Mathematical Concepts (3 cr. hrs.)
 - 2. MAT 111 College Algebra (3 cr. hrs.)
 - 3. MAT 202 Introduction to Statistics (3 cr. hrs.)
- H. Natural Science - One of the following:
 - 1. BIO 101 General Biology with Lab (4 cr. hrs.)
 - 2. GLG 220 Environmental Geology with Lab (4 cr. hrs.)
 - 3. EAS 101 Earth Science Meteorology with Lab (4 cr. hrs.)
- I. Technology Skills
 - 1. CIS 100 Computer Applications and Concepts (3 cr. hrs.)
- J. Ethics
 - 1. PHL 101 Introduction to Philosophy (3 cr. hrs.)



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PROGRAM REQUIREMENTS/DEGREE TRACKER

Continued from Previous Page

II. Program Major Requirements (32 cr. hrs.)

- | | | |
|----|---------|---|
| A. | CIS 113 | IT Hardware Essentials and Support (3 cr. hrs.) |
| B. | CIS 119 | Introduction to Programming - Python (4 cr. hrs.) |
| C. | CIS 130 | Adobe Photoshop (3 cr. hrs.) |
| D. | CIS 135 | HTML/CSS Web Development (3 cr. hrs.) |
| E. | CIS 138 | JavaScript for Web Development (3 cr. hrs.) |
| F. | CIS 140 | Windows Development Level I [C#] (4 cr. hrs.) |
| G. | CIS 150 | Java Programming Level 1 (3 cr. hrs.) |
| H. | CIS 215 | Database Design and App Development (3 cr. hrs.) |
| I. | CIS 240 | Windows Development Level II [C#] (3 cr. hrs.) |
| J. | CIS 250 | Internet/Intranet Networking (3 cr. hrs.) |



ERIE COUNTY COMMUNITY COLLEGE

Our Community, Your College!

DEFINITION OF COURSE LEVELS/PREREQUISITES

000-level course designation

- Developmental- courses: placement determined by college-wide testing of entering students or through illustration of coursework and grades from other institutions (multiple measures).
- Intended to improve student performance to meet college-level expectations
- Examples are ENG 090, MAT 090, CIS 090

100-level course designation

- Courses with no prerequisites, survey courses, courses defining basic concepts or presenting the terminology of a discipline.
- Examples are ENG 101, CIS 100, PSY 101
- **Assumptions and Expectations:**
 1. Students possess college-level writing ability sufficient to compose definitions, paragraphs, or essays where appropriate.
 2. Students possess reading skills sufficient to comprehend college-level material in textbook and supplemental material.

200-level course designation

- Courses of intermediate college-level difficulty; courses with 100-level course(s) as prerequisite(s); or survey courses devoted to specific areas or fields within a discipline.
- Examples are HIST 201 (with no prerequisite) and SOC 211 (with SOC 101 prerequisite)
- **Assumptions and Expectations:**
 1. Students possess general skills such as recognition, reading, appropriate quantitative skills, and varying degrees of fluency in writing and articulateness in expression.
 2. Students are acquainted with the basic language, terminology, or methodology of the subject itself.
 3. Students are, in that subject, at a stage of understanding where they can progress towards significant conclusions, experiments, and/or explorations.
 4. Students can successfully complete assignments involving reading and comprehending a specified amount of material and/or preparing organized papers.
 5. Students will accomplish a substantial amount of work, for example: study a number of books or work through a textbook, write several papers, or demonstrate an in-depth knowledge of the material covered.

Prerequisites

A prerequisite is a course that teaches the skills, knowledge, and abilities that will be necessary for the successful completion of another specified course.



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COURSE DESCRIPTIONS

ACC 111 - Business Accounting (Applied Business): This course provides an introduction to basic accounting principles, concepts, and methods for understanding general purpose financial statements and the accounting process. Students learn basic accounting concepts utilized in daily business operations, such as financial statement preparation, allowing them to collect financial data and make decisions based on that data *3 Credits*

ACC 150- The Legal Environment of Business (Applied Business): Students study the regulatory environment in which business operates and the political, social, and economic forces behind and evolution of the forms and types of law that govern disputes and transactions between individuals (including business organizations). The Constitutional foundation of law and the role played by administrative agencies in regulating business activity are studied including remedies in and out of court. Issues of crimes, torts, contracts, property, business organizations, consumer rights, employment, intellectual property rights, and international transactions will be discussed. *3 Credits*

ANT 201– Survey of Anthropology (General): This course is a scientific inquiry into human variability across space and time. The evolution of humanity’s biocultural nature from prehistory to present times is examined. This draws upon evidence from archaeology, physical anthropology/ human paleontology, ethnography and linguistic anthropology. *3 Credits*

ART 101- Art Appreciation (General): The Visual Communication course is designed to introduce students to the fundamental issues involved in the production and understanding of works of art within the broad context of human interaction and communication. The course introduces the student to the concepts, ideas, forms, and qualities of art and art appreciation, while simultaneously connecting the images that appear in everyday life to history, culture and visual aesthetics. Themes include ethical issues and censorship of art. *3 Credits*

BIO 101- Introduction to Biology with Lab (General): Emphasizes biological organization; basic biochemistry; biophysics of living systems; membrane dynamics; cellular structures and functions; cellular reproduction, photosynthesis; cellular respiration; chromosomal and molecular inheritance. *Prerequisite: ENG 101 pre/co-req 4 Credits*

BIO 201– Human Anatomy and Physiology with Lab (Surgical Tech): This course studies the structural relationships of the body at the molecular, cellular, tissue, organ, and system levels with an emphasis on the integration of human function. Laboratory exercises in anatomy and physiology are part of this course. *Prerequisite: ENG 101 pre/co-req 4 Credits*

BIO 202- Human Anatomy and Physiology II with Lab ((Surgical Tech) This course is a continuation of BIO201 that studies the structural and functional relationships and interdependence of body systems. Laboratory exercises in anatomy and physiology are part of this course. *Prerequisite: BIO 201 4 Credits*

BIO 210– Microbiology with Lab (Surgical Tech): Emphasizes biological organization; basic biochemistry; biophysics of living systems; membrane dynamics; cellular structures and functions; cellular reproduction, photosynthesis; cellular respiration; chromosomal and molecular inheritance. *Prerequisite: ENG 101 pre/co-req 4 Credits*

BUS 101- Introduction to Business (Applied Business): This course provides a foundation in modern business and business practices including principles of management, marketing and human resource management. The operation of business in a free enterprise system, the government’s role in business and forms of business ownership are discussed. *Prerequisite: ENG 101 placement or ENG 090 completed 3 Credits*

BUS 103- Principles of Management (Applied Business): This course introduces the theory and basic principles of management. Students examine the management process including the areas of planning, leading, organizing and controlling. *3 Credits*

BUS 130- Business Communications (Applied Business): This course develops a student's skills in writing effective business letters, reports, and research projects. Verbal communication skills and the preparation of resumes and other job-related materials are studied. *Prerequisite: ENG 101 placement 3 Credits*



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COURSE DESCRIPTIONS

BUS 221- Production Management (Applied Business): This course is an introduction to the characteristics and techniques applicable to product or operations management. The emphasis is on decision making in operational areas such as planning and control, cost reduction techniques, inventory control, production engineering, quality control, materials management, value engineering and the use of statistics and quantitative techniques in arriving at sound business decisions.

3 Credits

CIS 100- Computer Applications and Concepts (General): This course is an exploration of modern computer technology used for communication, collaboration, problem solving, decision making, and increasing personal productivity. Topics covered include word processing, electronic spreadsheet, presentation, and database management software; collaboration and networking software; the Internet of Things; and ethical issues related to technology. This is a Windows based hands-on course.

3 Credits

CIS 113- IT Hardware Essentials and Support (Applied IT): Students develop the necessary skills to support personal computers by solving common PC hardware and software problems. Students will learn to install and maintain a variety of processors, operating systems, and applications. Successful completion of the course prepares students for the A+ Certification examination sponsored by the Computing Technology Industry Association.

3 Credits

CIS 115- Information Technology Fundamentals (Applied IT): This course explores technical issues involved with computers and information technology. Students will be able to set up a basic workstation, conduct basic software installation, establish basic network connectivity, identify compatibility issues, identify/prevent basic security risks and demonstrate knowledge in the areas of safety and preventative maintenance of computers. This course prepares students considering a career in Information Technology (IT) or desiring a more detailed knowledge of IT fundamentals.

3 Credits

CIS 117- Operating Systems Interfaces (Applied IT): In this course, students acquire an understanding of how a computer system's hardware components impact performance of software. Students also learn about the impacts of parallelism and latency on performance as well as tradeoffs with various components such as processor clock speed, cycles per instruction, memory size and average memory access time. Problem solving is emphasized through the use of assembly language.

Prerequisites: CIS 113 or Instructor Consent

3 Credits

CIS 119- Introduction to Programming: Python (Applied IT): This course introduces computer programming using the Python programming language. Emphasis is placed on common data types, control flow, object-oriented programming and graphical user interface driven applications utilizing the standard library distributed with Python. *Prerequisites: CIS 113 or Instructor Consent*

4 Credits

CIS 120- Network Integration and Management (Applied IT): This course introduces students to computer networking fundamentals. Topics include: network design, network hardware, network operating systems software, data communications, configuration and installation, internetworking, and troubleshooting basic network problems. Using a Microsoft Windows Server-based LAN environment, students practice network administration concepts and activities. *Prerequisites: CIS 113 or Instructor Consent*

3 Credits

CIS 130 Adobe Photoshop (Applied IT): Use of Adobe Photoshop to edit digital photographs and create bitmap images, with emphasis on selection techniques, making tonal adjustments, and compositing with layers.

3 Credits

CIS 135- HTML/CSS Web Development (Applied IT): Create the foundational display structure of web pages, sites and web apps with HyperText Markup Language (HTML) code and Cascading Style Sheets (CSS) for formatting. Covers HTML5 and CSS3 tags, web standards, best practices, Web fonts, and responsive design.

3 Credits

CIS 138- JavaScript for Web & Mobile (Applied IT): An introduction to JavaScript for enhancing web pages and creating interactive web applications. Covers JavaScript programming fundamentals and the use of a JavaScript framework such as JQuery Mobile or React Native to create mobile device web apps. *Prerequisites: CIS 135 or Instructor Consent*

3 Credits



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COURSE DESCRIPTIONS

CIS 140– Windows Development Level I (C#) (Applied IT): Introduction to C# programming including planning, UI design, algorithm development. Focusing on structured programming (data containers, data types, processing operators, expressions, and methods, string methods and formatting, flow control structures, functions, and debugging), this course introduces Object Oriented Programming techniques and accessing external data sources. *Prerequisites: CIS 113 or Instructor Consent* **4 Credits**

CIS 150– Java Programming Level 1 (Applied IT): Introduction to Java programming to construct Java Applets and Java Applications. Covers structured and Object-Oriented Programming techniques, including control flow structures, data containers and structures, string manipulation, methods, classes and graphics. *Prerequisites: CIS 113* **3 Credits**

CIS 185- Introduction to Network Security (Applied IT): This course highlights the models and protocols essential to securing wired and wireless networks. Students also learn to capture and analyze network traffic, identify network security threats, and apply and evaluate network security controls. *Prerequisites: CIS 113 or Instructor Consent* **3 Credits**

CIS 215- Database Design and Application Development (Applied IT): This course provides students with a foundation of knowledge needed to work with database management systems and to create applications utilizing current development strategies. Students examine various types of database techniques with emphasis on relational designs. Students design and implement solutions to business-related problems. *Prerequisites: CIS 113 or Instructor Consent* **3 Credits**

CIS 220- Systems Development (Applied IT): In this course, students utilize a system development methodology through team-based projects that demonstrate their Information Technology skills. The focus of the course includes the Systems Development Life Cycle (SDLC) phases, user system requirements, logical and physical design, test and implementation planning, performance evaluation, software package evaluation and acquisition, prototyping, structured and object-oriented methodologies, development and adherence to the system life cycle standards and designing interfaces and dialogues. This course encourages interpersonal skill development with clients, users, team members and others associated with development, operation and maintenance of the system. *Prerequisites: CIS 113 or Instructor Consent* **3 Credits**

CIS 240- Windows Development Level II (C#) (Applied IT): Advanced C# programming with emphasis on data structures, object-oriented programming, user interfaces, and database processing. Introduction to using C# and Visual Studio for cross-platform projects (Android, iOS, and Mac), client-side and server-side web development (ASP.NET and Blazor), and gaming (Unity game engine). *Prerequisites: CIS 140 with C or better grade* **3 Credits**

CIS 245- Android App Development (Kotlin) (Applied IT): Foundational knowledge, skills, and abilities to develop mobile apps for Android devices using the Kotlin programming language. Covers tools of the trade, creating user interfaces, coding events, activities and intents, working with internal and external data sources, accessing device services, Object Oriented Programming (OOP) practices, navigating multiple layouts, testing, debugging, and deploying applications. The course culminates with each student creating a custom Android app of their own design. **4 Credits**

CIS 248- iOS App Development (Swift) (Applied IT):

Foundational knowledge, skills, and abilities to develop mobile apps for IOS devices using the Swift programming language from concept to deployment. Covers the Xcode IDE, creating user interfaces, coding events, iOS frameworks, working with internal and external data sources, incorporating media, accessing device services, Object Oriented Programming (OOP) practices, navigating multiple screens, testing, debugging, and deploying applications. The course culminates with each student creating a custom iPhone and/or iPad app of their own design. **4 Credits**

CIS 250- Internet/Intranet Networking (Applied IT): This course introduces students to the essential concepts and technical skills necessary to establish an Internet or Intranet within an enterprise, and the use of TCP/IP as a routable network protocol. Windows Server is used as a vehicle for both discussion and related lab activities. Topics include planning and installation, diverse client support, multiple protocol support, domain management, Novell and Macintosh connectivity, Remote Access Server, Active Directory Services and troubleshooting. Detailed coverage is also provided on TCP/IP issues such as IP addressing, bridging and routing, DHCP and naming services. *Prerequisites: CIS 113 or Instructor Consent* **3 Credits**



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COURSE DESCRIPTIONS

CJS 100 - Introduction to Criminal Justice (Applied CJ): This course provides students with a general introduction to the concepts, phenomena, and issues in the study of criminal justice. A survey of criminal law, criminal procedures, law enforcement agencies, the criminal courts, and corrections (both institutional and community-based) will be conducted to understand the dynamics of the justice system. *3 Credits*

CJS 103 - Juvenile Justice (Applied CJ): This course is a study of the juvenile justice process. Topics include specialized juvenile law, role of the juvenile, role of the juvenile courts, role of police agencies, role of correctional agencies and theories. Concerning delinquency. In addition, students will study the history, philosophy, organization, processes and functions of the juvenile justice systems in the United States and Pennsylvania. Emphasis is placed on jurisdiction, treatment and juvenile court proceedings in juvenile justice decision making. In addition, students will study child abuse and neglect and how the system is designed to deal with these serious issues. *3 Credits*

CJS 150 - Criminal Law (Applied CJ): This course is a study of the nature of criminal law; philosophical and historical development; major definitions and concepts; classification of crime; elements of crimes and penalties using Pennsylvania statutes as illustrations; and criminal responsibility. *Prerequisites: CJS 100 (C or better)* *3 Credits*

CJS 170- Introduction to Corrections (Applied CJ): This course examines the American correctional system; the study of administration of local, state, and federal correctional agencies. The examination also includes the history and development of correctional policies and practices, criminal sentencing, jails, prisons, alternative sentencing, prisoner rights, rehabilitation, and community corrections including probation and parole. Current philosophies of corrections and the debates surrounding the roles and effectiveness of criminal sentences, institutional procedures, technological developments, and special populations are discussed. *3 Credits*

CJS 180- Introduction to Policing (Applied CJ): This course focuses on the philosophy and history of policing, limitations imposed on law enforcement in a democratic society in accordance with the Constitution, and the role and place of law enforcement in the total criminal justice process. Students study law enforcement agencies; examine the current challenges facing the contemporary police officer and practical police problems. Areas of study include homeland security, community policing, and crime control concepts. *3 Credits*

CJS 190 - Race, Crime, and Justice (Applied CJ): This course examines the nature, function, and causes of crime in society and examines how race and criminology intersect. The course will define criminal acts, apply theory that can be used to explain the participation or reason for perpetrating criminal acts, and explore the public policies that are developed to respond to the threat and existence of criminal behavior. *Prerequisites: SOC 101 or Instructor Consent* *3 Credits*

CJS 199 - Criminal Justice Internship (Applied CJ): Provides the student with an opportunity to gain knowledge and skills from a planned work experience in criminal justice. Students are expected to gain a minimum of forty hours of work-based learning experience in a pre-approved criminal justice employer. Students will coordinate specific activities and assignments with the faculty member. *Prerequisites: PR: Completion of 6 credit hours of CJS courses with a grade of "C" or better, and Instructor Consent* *3 Credits*

COM 201- Effective Interpersonal and Professional Communication (Applied Business): This introductory course helps students become better communicators in personal and professional settings and emphasizes roles, skills, strategies, and activities that help develop effective interpersonal relationships. This includes various electronic communication formats such as email, video conferencing, and effective writing for a business setting. Lectures, discussions, and exercises enable students to critically assess the impact that gender, culture, perception, conflict, self-disclosure, listening, language, non-verbal expression, and relationships have on interpersonal communication. *3 Credits*

EAS101-Earth Science Meteorology with Lab (General): This lecture and laboratory-based course investigates the principles and processes that produce weather and climate on earth. It covers the basic elements of meteorology-temperature, pressure, moisture and wind-and analyzes severe storms such as tornadoes and hurricanes. Lab work focuses on basic weather forecasting and weather conditions that affect our daily lives. *4 credits*



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ECO 101- Macroeconomics (General): This course is an introduction to the economic activity of the nation, introducing basic concepts and institutions. The emphasis is on aggregate income and spending, the government fiscal and monetary policy, national income accounting, economic growth and comparative economic systems. *3 Credits*

ECO 102- Principles of Microeconomics (General): This course is an introduction to the activities of individual economic units, such as industries, companies, households and consumers. The course emphasis is on markets, the price system and the allocation of resources as they affect the consumer, the producer and the economy. *3 Credits*

ENG 090- Fundamentals of College Writing (General): English 090 develops written communication skills, beginning with the ability to detect, diagnose, and correct error patterns in focused writings. Students practice sentence mechanics in the context of their own writing, while learning to develop paragraphs and short essays that clarify and support a point of view in preparation for college-level writing. Students then progress to planning, drafting, revising, and editing of short essays, some of which will be reading-based. *Prerequisite: ENG 090 placement* *3 Credits*

ENG 101- English Composition I (General): This course introduces students to college-level, academic writing. Emphasis is placed on critical analysis, argumentation, intellectual honesty and revision. Through the writing process, students will refine arguments; develop and support ideas; investigate, evaluate, and integrate appropriate sources; revise and edit for effective style and usages; and develop an awareness of the variety of contexts, audiences, and purposes of academic writing. Students produce five to seven reading-based, multi-paragraphed argumentative essays of increasing difficulty, totaling 15-20 pages for the semester. *Prerequisite: ENG 101 placement or ENG 090 completed* *3 Credits*

ENG 102- English Composition II (General): This course builds upon the concepts introduced in English Composition I, with a focus on research-based, college-level, academic writing. Emphasis is placed on critical and ethical analysis, the research process, proper citation practices, intellectual honesty, and revision. Through the writing process, students will determine an appropriate topic for research; investigate, evaluate, and integrate multiple sources; revise and edit for effective style and usages; and develop an awareness of the variety of contexts, audiences, and purposes of academic writing. Students will produce several writing projects that culminate in a signature research essay of approximately 7-9 pages. *Prerequisite: ENG 101 completed* *3 Credits*

ENG 110- Fundamentals of Public Speaking (General): This course introduces students to the essential strategies and techniques employed by effective public speakers. The course covers strategic audience adaptation throughout the communication process. It provides suggestions for improving speeches in all facets, including invention, organization, style, and delivery. The course emphasizes the critical analysis of the effective and ineffective practices of historical, cultural, and contemporary speakers. The course stresses the importance of using unbiased and effective evidence to support an argument. It also provides opportunities for students to gain practical experiences in the art of self-expression. *3 Credits*

ENG 201- Poetry (General): This is a course in the study of poems of various periods and types. Emphasis is on the meaning of individual poems and the interplay of sensory images. The course will examine how social and philosophical culture dictate how poetry is written and establish what qualities make great poetry. *3 Credits*

ENG 207- Survey of Literature (General): Explores literature in a variety of genres such as short fiction, poetry, and drama. The focus of this course is on the elements of the literature studied, including character, style, structure, form, tone, and theme. The historical and cultural context of the works studied, including history, geography, culture, race, gender, class, ethnicity, and religion are also considered. Literature studied in this course is drawn from various literary periods as well as from a range writer, including American, British, western European, and world literary figures. *3 Credit*

ENT 110- Fundamentals of Entrepreneurship (Applied Business): This course provides an overview of the challenges of starting a new venture or strengthening an existing one. Students will learn the characteristics of an entrepreneur and how to use the tools that an entrepreneur needs to evaluate a business concept and, if it is viable, how to take the steps needed to make it a reality. The course covers key aspects of entrepreneurship, including planning, operations, human resources, finance, marketing, and ethical responsibilities. *3 Credits*

ENT 120- Entrepreneurial Marketing (Applied Business): The focus of this course is examining the role of marketing in start-up or existing small business ventures, including a review of digital and traditional marketing approaches. Students learn how to define target markets, conduct market research, and select cost-effective marketing techniques. Students develop a working marketing plan and demonstrate their ability to establish measurable marketing goals with a plan of action to achieve the goals using available resources and networks. *3 Credits*



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ENT 130- Entrepreneurial Financial Intelligence (Applied Business): This course is designed to familiarize entrepreneurs with key financial and accounting concepts that are essential in starting and running a business and help them acquire the tools they need to manage an entrepreneurial venture effectively. This course will cover basic accounting terms and ratios, financial statements, cash flow and budgets, and review the accounting software available for a prospective business entity. This course is designed for small business owners and entrepreneurs, rather than those seeking to work as professional accountants.

3 Credits

ENT 140- Business Plan Development (Applied Business): In this course, entrepreneurs learn the process of preparing and implementing a business plan and presenting it to potential lenders and investors. That process includes creating concept statements, developing feasibility studies, and designing business models. Students will learn how to anticipate and solve both typical and atypical problems that entrepreneurs encounter.

3 Credits

FYE 101- First Year Experience (General): This course introduces first-year students to ideas and strategies required for college-level academic inquiry and college success, including critical thinking, communication, cultural competence, problem-solving, data interpretation, and institutional knowledge. Students develop college preparedness skills such as time management, note taking, study methods, test taking, information literacy, and an understanding of academic integrity. Students apply critical thinking and communication skills to areas such as cultural diversity, media literacy and financial literacy and gain an understanding of campus and community resources. Students create an appropriate academic plan, financial plan, and career/transfer plan in the course of the semester.

3 Credits

GLG 220- Environmental Geology with Lab (General): Environmental Geology is an examination of geologic processes which have impact upon humans and of the impact humans have upon those processes. Topics such as coastal erosion, flooding, earthquakes, radon, greenhouse effect, water quality, and waste disposal will be investigated. Environmental Geology should be considered by the following students: those needing a lab-science elective, those preparing for a career as an environmental technician, and those considering a Geology major seeking a geology elective. Class time and optional field trips aligned with the course topics will be taken. This course is subject to a course fee.

4 Credits

HIS 122- Modern History (General): In this course, students examine the recent past to understand the roots of contemporary phenomena such as the nation-state, international law, social movements, and global networks of trade and technology. Students identify and interpret archival materials and primary sources, with a focus on themes, patterns, processes, and events from the sixteenth century onward.

3 Credits

HIS 201- U.S. History to 1865 (General): The Foundation of the English settlements, the American Revolution, the early National Period, Jacksonian Democracy, Abolitionism, expansion to the Pacific, immigration, the Civil War, and the role of minorities are emphasized.

3 Credits

HSC- Medical Terminology (Surgical Tech) This course introduces prefixes, suffixes, and word roots used in the language of medicine. Topics include medical vocabulary and the terms that relate to the anatomy, physiology, pathological conditions, and treatment of selected systems.

3 Credits

IMM 102- Electrical Control Circuits (IMM Certificate): Students will learn the fundamentals of basic (DC) electricity, including series, parallel, and combination circuits. The fundamentals of inductors and capacitors are also studied.

3 Credits

IMM 103- Electrical Motor Control (IMM Certificate): In this course, students will learn lockout-tag-out procedures and how to read and develop ladder logic diagrams. Students will study 3-phase motor control systems, and the components of a 3-phase motor control system. Students will learn to troubleshoot a 3-phase motor control system with practical faults inserted

Prerequisite: IMM 102

3 Credits

IMM 104 - Hydraulics: Fluid Power Systems (IMM Certificate): In this course the students will learn about fluid power systems. This will include principles of fluid power systems. This course will also cover hydraulic and pneumatic systems, symbols and schematics, flow control devices, and actuators. The student will learn to read pressure gauges, along with working with the different formulas associated with hydraulic and pneumatic systems. Besides the lecture the students will have a hands-on lab portion to help with the understanding of the material.

3 Credits



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IMM 105 - Pneumatics: Air Power Systems (IMM Certificate): This course covers introduction to air-powered, pneumatic system maintenance and pneumatic system construction. Students will learn how a pneumatic system works, how to read pneumatic schematics, and how to identify different pneumatic components in a system. Students will learn how to read pressure gauges and how to assemble a simple pneumatic system. Students will also learn how to wire an electro-pneumatic device using a ladder logic diagram. 3 Credits

IMM 102– Basic Mechanical Drives (IMM Certificate): Students will learn how to align and level a motor and how to align various shafts to a motor. Students will also install drive belts and drive chains to a motor. Students will learn how to use various tools to measure belt and chain tension and how to use various specialized tools and measuring devices such as calipers and micrometers when installing mechanical devices. 3 Credits

IMM 112– Programmable Controllers I (IMM/AES Certificates): This course offers students the fundamentals of a Programmable Logic Controller (PLC) using the Allen Bradley SLC 500 PLC. Students learn the basic parts of a PLC system, digital fundamentals, and PLC addressing. Students also learn how to troubleshoot and repair a PLC when a "real world" fault is inserted. *Prerequisite: IMM 103 or Instructor Consent* 3 Credits

IMM 113– Programmable Controllers II (IMM/AES Certificates): This course is an extension of IMM 112. Students learn to program an Allen Bradley SLC500 PLC for advanced sequencing operation. Students also learn to program timers and counters that are used in a PLC application, as well as to write a PLC program using advanced math and data functions. The troubleshooting section from IMM 112 is also used during the course. *Prerequisite: IMM 112* 3 Credits

IMM 114– Advanced Programmable Controllers (IMM/AES Certificates): This is an advanced Programmable Logic Controllers (PLC) course. In this course, students will learn to program an Input/Output Allen Bradley Analog module card. They will learn how data sampling takes place and how this module card interfaces with 'real world' devices. Students will also learn how to set up and program the Allen Bradley PLC for DH485 and RIO Communication. In the final part of this course, students will learn how to set up and program Panelview software to communicate with an Allen Bradley PLC program. *Prerequisite: IMM 113* 3 Credits

IMT 102 - Industrial Manufacturing Technology I (CNC Certificate): This course provides classroom and laboratory learning experiences related to fundamental machine tool technology by focusing on power saws, drill presses, basic lathes and related tooling. Course includes speed and feed calculation, part layout, basic measuring tools and related manufacturing theory. Safe work practices are strongly stressed. 3 Credits

IMT 104 - Industrial Manufacturing Technology II (CNC Certificate): This course is a continuation of IMT 102 beginning with engine lathes and introducing horizontal mills, vertical mills, and CNC basics. Course includes related information on tooling, speeds and feeds, measuring instruments and manufacturing theory. *Prerequisite: IMT 102 or Instructor Consent* 3 Credits

IMT 112– Metrology (CNC Certificate): Study of the proper use of modern precision measurement tools and the interpretation of the data obtained from their use. Topics include the use of traditional precision measurement tools such as micrometers and calipers, surface plate work, modern measurement tools such as laser micrometers, digital height gages and coordinate measuring machines to determine angular and linear dimensions. Measurements from these tools will determine the acceptability of machined parts as specified on geometric dimensioning and tolerancing (GD&T) prints. 3 Credits

IMT 200- Introduction to CNC Programing I (CNC Certificate): A survey of the tools and theory regarding computer integrated manufacturing (CIM). CIM is the union of hardware and software, database management, and communications to automate and control production activities from planning and design to manufacturing and distribution. Introduces basic CNC lathe set up and operation. Includes safety, turning, grooving, drilling, boring, threading, and cutting tools. Programs are written, developed, simulated, run, and debugged on actual machine tools. *Prerequisite: IMT 104 or Instructor Consent* 3 Credits

IMT 202- Introduction to CNC Programing II (CNC Certificate): This course is a continuation of IMT 200, Introduction to CNC programming. The use of M & G code programming to produce CNC programs for machined parts will be taught. Specific areas of programming including linear and circular interpolation, canned cycles, drilling, reaming, tapping, boring, face milling, end milling and the use of sub programs will be covered. Setup and operation of CNC milling machine controls will be covered and used to proof run programs. *Prerequisite: IMT 200, or Concurrent Enrollment in IMT 200 or Instructor Consent* 3 Credits



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IMT 204- Introduction to CNC Toolpath (CNC Certificate): The student will bring together his/her knowledge of geometry generation using CAD and conventional CNC program generation to learn computer generated toolpathing. The student will generate geometry, initiate computer toolpaths and output executable CNC programs using CAD/MasterCam toolpathing software on personal computers. Additionally, post processor generation will be discussed.

Prerequisite: IMT 200, and IMT 202 or Concurrent Enrollment in IMT 202 or Instructor Consent **3 Credits**

IMT 206– Advanced CNC Programing (CNC Certificate): This course builds on the knowledge gained in the IMT 204 Introduction to CNC Toolpath course and expands the knowledge of design and production of CNC programming. Advanced programming are simulated off-line and run on multi-axis CNC machines Students apply advanced precision machining skills, complex setup, and programming advanced part geometry. Canned cycles, cutter compensation, subroutines, probing functions, and high-speed machining processes will be introduced. *Prerequisite: IMT 204 or Instructor Consent*

3 Credits

MAT 090- Arithmetic Fundamentals (General): This is a course in the fundamentals of arithmetic, including topics such as: operations with whole numbers, fractions, and decimals; percentages; ratio and proportion; computations involving measurement and unit conversion; geometric formulas; and an introduction to algebra. *Prerequisite: MAT 090 placement*

3 Credits

MAT 102- Mathematical Concepts (General): A course in contemporary mathematics for liberal arts and other students not majoring in business or the sciences. Topics include basic mathematical concepts: problem solving and critical thinking, sets, elementary logic, numeration systems, elementary geometry, counting techniques, and elementary probability and statistics. Topics are selected at the discretion of the Mathematics Department.

3 Credits

MAT 107– Technical Math (CNC Certificate): The course emphasizes the mathematical knowledge needed to be successful in the workplace, including number systems, geometry, algebra, and trigonometry. Students will engage in problem-solving activities using real-world career examples that help students learn not only the needed mathematical skills, but also how those skills are used in specific fields of interest. *Prerequisite: MAT 090 MAT 102 Placement, or Instructor Consent*

3 Credits

MAT 111- College Algebra (General): This is a course in College Algebra for students not intending to take Calculus. Topics include equations and inequalities, polynomial and rational functions and their graphs, equations and graphs of conic sections, the theory of equations and systems of equations. *Prerequisite: MAT 111 placement or MAT 090 completed*

3 Credits

MAT 202- Introduction to Statistics (General): This course focuses on the mathematical skills needed by students enrolled in technical, business, and liberal arts curricula. This course covers describing and summarizing single and bi-variate data, both graphically and numerically. Also, discrete and continuous probability distributions are covered. In addition, parametric estimation and tests of significance are studied. *Prerequisite: MAT 090 Completed or MAT 102 Placement*

3 Credits

MUS 101- Introduction to Music (General): This course surveys the form, style and basic structure of art, world and popular music. It is designed to enhance students' appreciation and understanding of music by focusing on influential composers and their compositions. Lectures highlight the characteristics, history and performance practice of many genres of music.

3 Credits

MUS 114- World Music (General): Introduction to World Music Cultures is an entry-level course in the study of World Music. These musical traditions will be explored both on the basis of their intrinsic characteristics, as well as in connection with their social, economic, and political contexts. Students will also be introduced to the discipline of Ethnomusicology. As a term project, each student will be required to visit and document a local music culture selected by the student and approved by the instructor.

3 Credits

PHL 101- Introduction to Philosophy (General): This course is a study of basic philosophical problems including: the existence of God, the immortality of the soul, knowledge, the mind-body problem, ethics in society, subjectivism, objectivism and pragmatism, political problems arising from philosophical ideas and the theory of beauty.

3 Credits

PHL 111- Religions of the World (General): This course is a description of the origins, development and manifestations of major world religions. Students explore how people of different faiths practice and express their beliefs. Similarities and differences of different faiths are emphasized.

3 Credits



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COURSE DESCRIPTIONS

POL 112- Introduction to International Relations (General): The course will cover the theories of international relations (IR) and apply them to the broader context of global politics. Students will learn key concepts and ideologies. They will make comparative analyses of the types of political systems and ideologies found in both the developed and developing countries and identify patterns of political behavior. These patterns can then be linked to theories, concepts and ideologies that have been studied. The contents of this course will be placed in historical and socio-cultural contexts. *3 Credit*

POL203- Survey of American Politics (General): This course investigates the development and evolution of the American political system. Students will be introduced to the unique structure, functions, and problems of the national government within the federal system. Close attention is given to the nature of and the controversies emerging from the interaction between political institutions. This includes analysis of the following concepts and topics: federalism, separation of power, check and balances, Bill of Rights, democracy, civil liberties, civil rights and political parties. *3 Credit*

PSY 101- Introduction to Psychology (General): This course provides the student with an understanding of how the scientific method is applied to the study of human and animal behavior. Topics include: research results, the major principles and perspectives of psychology, applications of contemporary psychology, the structure and function of the nervous system, foundations of learning, intelligence, social behavior, personality, feeling and emotion, motivation, abnormal psychology and its causes and therapies, developmental patterns and the measurement of behavior. *3 Credits*

PSY 201- Social Psychology (General): The basic psychological principles involved in the scientific study of individual behavior in social and group situations are examined. Emphasis is placed on understanding attitude formation and change, conformity, group interaction, leadership roles, altruism, aggression and prejudice. *Prerequisite: PSY 101 3 Credits*

PSY 210- Lifespan Development (General): Students will develop an increased understanding of the influences that shape a person's, or group's attitudes, beliefs, emotions, symbols, and actions, and how these systems of influence are created, maintained, and altered by individual, familial, group, situational or cultural means. Students will identify ethical principles that guide individual and collective actions and apply those principles to the analysis of contemporary social and political problems. Classes will consist of lecture, in-class activities, and between-class activities. Learning outcomes will be assessed through multiple choice or short-answer quizzes and exams, writing assignments, in-class discussion, and the viewing and discussion of video material; these assessments may vary slightly per instructor to suit their course needs. *Prerequisite: PSY 101 3 Credits*

SOC 101- Introduction to Sociology (General): An introduction to the science of sociology, including a discussion of sociological theory and method, social structure, culture, and socialization. Also emphasized are social stratification, race, ethnicity, and gender. Social institutions and their change dynamics are examined. *3 Credits*

SOC 211- Racial and Ethnic Minorities (General): This course will investigate the construction of the social categories of race and ethnicity. Discussion will revolve around the history, process and effects of these constructions. A major focus will be on interracial and interethnic relations in the United States. *Prerequisite: SOC101 3 Credits*

SOC 250- Contemporary Social Problems (General): This course will help students to further develop skills to interpret current events as part of general patterns and learn about their own societies. Contemporary Social Problems often reflects and constitutes major trends in society, including but not limited to racism, poverty, unemployment, environmental issues, marriage and divorce, and more. Students will be helped to examine, clarify, and make explicit their values as they participate in in-class discussions during lecture, in-class activities, and between-class activities. Learning outcomes will be assessed through multiple choice or short-answer quizzes and exams, writing assignments, in-class discussion, and the viewing and discussion of video material; these assessments may vary slightly per instructor to suit their course needs. *Prerequisite: SOC 101 3 Credits*



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Jacob Korte	Biology	M.S.	Wayne State University
Catherine Robertson	Math & Entrepreneurship	M.B.A.	Gannon University
Dr. Jennifer Robinette	English	Ph.D.	University of North Dakota
Dr. Leatra Tate	Psychology & Sociology	Ph.D.	Point Park University
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