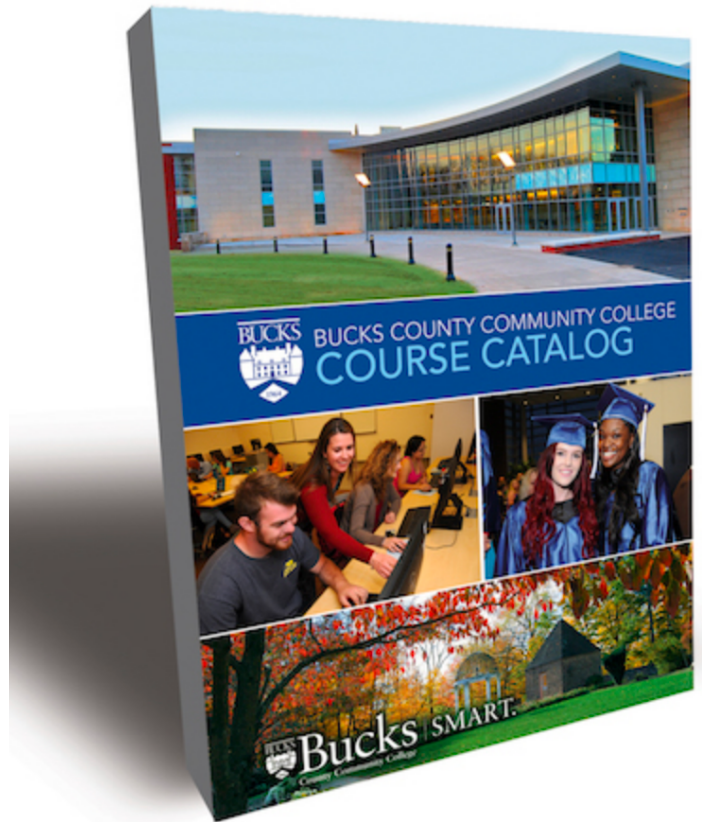


2022-2023

**BUCKS COUNTY COMMUNITY COLLEGE
CATALOG**



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SECTION 1: INTRODUCTION TO BUCKS

College Calendar

Bucks County Community College's academic calendar is available each year in printed form in semester schedules and on the college website:

<https://www.bucks.edu/calendarnews/academiccalendar/>.

Students are responsible for meeting college deadlines including all academic deadlines and financial obligations.

This catalog is designed to provide you with the information you need to plan your educational experience at Bucks. The official version is posted at <https://www.bucks.edu/catalog/>.

Bucks County Community College reserves the right to change the regulations, fees, and other information contained in this publication at any time without prior notice.

The President's Welcome

On behalf of our Board of Trustees, faculty, and staff, welcome to Bucks County Community College—home of the Centurions!

We look forward to connecting with you as a student on one of our three physical campuses located in Newtown, Perkasie, and Bristol, or through our virtual campus, Bucks Online. Our staff and faculty are ready to help you reach your educational and career goals! Whether your plans include transferring credits to a university, receiving training to enter the workforce, learning new skills, or taking a self-enrichment course, we hope you will find your home here at Bucks alongside a family of educators ready to help you on your journey.



Bucks County Community College has proudly served the greater Bucks County area for more than 50 years, and we are ready to help you navigate your educational path. No matter where you are in the county, we have a campus nearby to serve you, support you, and to help you succeed. Your dreams are central to our mission, and I encourage you to virtually visit all of our campuses to find the location that fits your needs, and to stop by our campuses this fall to explore everything Bucks has to offer.

As a community college, the word “community” isn’t only in our name, it is central to all that we do. Bucks has been a proud premier partner in our local workforce community for decades by providing specialized training and occupational programs to support high demand jobs in our service area. We continue to strive towards excellence as we work to meet the needs of our local employers, while also helping those individuals who seek a higher living wage for themselves and their family. Our goal is to ensure that everyone who enrolls in one of our programs will find success in their chosen field *and* see an increase in their living wage that will forever positively impact their family’s financial tree.

As we come out of COVID and try to find a “new normal” within our daily lives, I am confident that Bucks County Community College can help you start, reboot, or complete your educational journey. Our various academic and workforce offerings will be provided in numerous modalities to offer you the flexibility to learn the way that you want to. Whether you’d like to be totally online, on campus a small percentage of time, or physically in class with your instructor each day, Bucks offers you the opportunity to select courses that best fit your schedule and life.

In addition, we offer a wide range of free services to help with your mental and physical well-being. From student clubs and activities, to sports, tutoring and counseling. The staff

and faculty are here to help make your experience at Bucks the best it can be.

Bucks County Community College is a great place to call your educational home! We can't wait to serve and support you as you navigate your journey. As President, I look forward to seeing you on campus, interacting with you on our virtual platform, or in our wonderful community.

Be well until we meet!

Dr. Felicia L. Ganther

Bucks County Community College, President

Dr. Ganther's Bio

President Felicia L. Ganther, J.D., Ph.D.



With a higher education career that spans more than a quarter century, Dr. Felicia Ganther became the fifth president of Bucks County Community College in July 2021, as well as its first African American president.

Originally from Los Angeles, Ganther holds a Bachelor of Arts and Master of Arts from Norfolk State University, as well as a Juris Doctorate from the University of Illinois. Ganther moved to Arizona in 2012 to serve as associate vice chancellor for student affairs for one of the nation's largest community college systems, Maricopa Community Colleges. In 2019, she earned a Ph.D. in community development from Arizona State University.

Ganther has a remarkable record of accomplishments as an educator, administrator, and a strong advocate for students. She has extensive experience in crisis management, student life, academic quality improvement, among others. In addition to her work in student affairs, Ganther has also served as an adjunct instructor for Speech, Interpersonal/Group Communication and law courses.

Ganther received the National Resource Center for the First-Year Experience's National Outstanding First-Year Advocate Award and a Proclamation from the Illinois State Senate for her work with the retention of first year students. In 2017, she was selected as an Aspen Institute Presidential Fellow and nominated to receive the John Rouché League of Innovation Excellence in Community Colleges Award.

In her more than 25 years of experience in higher education, she consistently infuses her passion in helping students reach their intended goals through crafting meaningful and intentional programs, services and initiatives.

Campuses

Bucks County Community College offers a wide range of academic programs, services, and facilities right in your neighborhood. Classes are held at our beautiful 200-acre campus in Newtown, our Lower Bucks Campus in Bristol, and our Upper Bucks Campus in Perkasie.

What's more, our Virtual Campus allows you to take courses online. Non-credit continuing education opportunities, including workforce development training, are available as well. With all these convenient and affordable options, it's clear that Bucks is "where to learn, where to return."

Take a virtual tour of our three campuses and explore all that Bucks has to offer!

<https://www.bucks.edu/catalog/intro/campuses/>

Newtown Campus

275 Swamp Road
Newtown, PA 18940
215-968-8000

- Campus Map: <https://www.bucks.edu/campus/newtown/campusmap/>
- Directions: <https://www.bucks.edu/campus/newtown/>
- Virtual Tour: <https://www.youvisit.com/tour/bucks>
- Nearly 80 programs of study available, including two-year associate degrees and shorter-term certificates, plus continuing education and business and industry training
- Facilities include library, computer labs, science labs, teleconference center, art studios and workshops, kitchens, TV studios, Zlock Performing Arts Center, Fitness Center, indoor pool, and gymnasium
- Located adjacent to Tyler State Park, minutes from Interstate 95

Gene and Marlene Epstein Campus at Lower Bucks

1304 Veterans Highway (formerly New Rodgers Road)
Bristol, PA 19007
267-685-4800
Campus Director: Rose Cooper

- Campus Website: <https://www.bucks.edu/campus/lbc/>
- Directions: <https://www.bucks.edu/campus/lbc/>
- Virtual Tour: <https://www.youvisit.com/tour/bucks>
- Students can complete associate degree programs in Business Administration, Criminal Justice, Health Sciences, Liberal Arts-General Emphasis, Radiography, Medical Lab Technician and Diagnostic Medical Sonography.

Students may also take a variety of continuing education and workforce development courses for personal enrichment (example: art studio courses) or professional development (example: Microsoft software training through our IT Academy).

- The environmentally friendly campus includes classrooms, computer labs, allied health, and STEM laboratories, a library, an art studio, and an art gallery.
- Conveniently located on 14 acres near the Delhaas Woods on Veterans Highway, Route 413, near Interstate 95.

Upper Bucks Campus

One Hillendale Road
Perkasie, PA 18944
215-258-7700

Campus Director: Kevin Murray

- Campus Website: <https://www.bucks.edu/campus/ubc/>
- Directions: <https://www.bucks.edu/campus/ubc/>
- Virtual Tour: <https://www.youvisit.com/tour/bucks>
- Students can complete associate degree programs in Business Administration, Communication Studies, Education, Health Sciences and Liberal Arts-General Emphasis, plus Practical Nursing, a certificate program in Phlebotomy, continuing and workforce education
- Facilities include the Fickes Art Center, Penn Color Library, a science lab, an allied health lab, and computer labs in two expanded state-of-the-art buildings
- Located on 14 acres in East Rockhill Township, convenient to Quakertown and Doylestown

Bucks Online

[bucks.edu/online](https://www.bucks.edu/online)
215-968-8052

Associate Dean: Susan Darlington

- Campus Website: <https://www.bucks.edu/bucks-online/>
- More than 300 eLearning courses offered in a variety of sessions ranging from 4 to 15 weeks.
- 22 degrees and 5 certificates are available fully online; about 22 are available 80% or more online.
- You experience the same excellent professors and small class size that you find in our traditional face-to-face classes.

- All courses are facilitated by an instructor and are interactive.
- Detailed course information is available at bucks.edu/welcome.

Off-Campus Locations

Advanced Manufacturing Training Center

Bridge Business Center
310 George Patterson Blvd., Suite 109
Bristol, PA 19007

Pennswood Village

1382 Newtown-Langhorne Road
Newtown, PA 18940

Bucks County Public Safety Training Center

1760 South Easton Rd.
Doylestown, PA 18901

Lower Bucks Public Safety Training Center

2912 River Rd.
Croydon, PA 19021

Vision, Mission, Values and Goals

Our Vision

We envision Bucks County Community College as a vibrant center for community engagement and learning, providing innovative paths that inspire educational, career, and personal fulfillment.

Our Mission

Bucks County Community College provides a diverse community of learners with exemplary, accessible educational opportunities and the personal connections that foster success.

To support our mission, we:

- Engage and support students in learning experiences that lead to academic excellence and provide a foundation for the pursuit of higher degrees and lifelong learning.
- Empower students with the skills and credentials to secure employment in their fields and the capability to adapt and respond to the changing needs of tomorrow's workplace.
- Develop the critical thinking skills, broad-based knowledge, and the social, ethical, and civic responsibility of our students.
- Enrich the intellectual, cultural, and recreational life of the community.

2019-2025 Strategic Plan

Connection. Community. Commitment.

1. Our Learners of Tomorrow - We will ensure our learners achieve their future success through a unique, personalized and responsive Bucks Experience. Our "One College" integrated approach will serve all learners, traditional and post-traditional, credit and non-credit.
2. Our Promise - We will provide all students with comprehensive and innovative support personalized to their needs, challenges and preferences. Advisors and support staff will meet students where they are - regardless of modality - and always with student success at the forefront. We will support them to achieve their goals through a culture of care.
3. Our Programs - We will offer flexible, adaptable credit and non-credit lifelong learning. High demand, occupational programs based on regional needs will join our already excellent transfer programs to provide an inclusive credit and non-credit curricular roadmap that not only efficiently navigates students to their destinations, but also offers alternate routes as students' needs evolve. The community will recognize the college as a premier provider of lifelong learning.
4. Our People - We will foster connections and shared goals between and among students, faculty, and staff across divisions. We will create and sustain a healthy campus climate by ensuring all college community members feel welcomed, supported, included, and valued by the college and each other. We will attract highly qualified and diverse faculty and staff and provide an environment in which all can thrive professionally.

5. Our Partners - We will become an educational partner of choice in our community through an integrated approach to the learning needs of our business, industry and non-profit partners. We will build new solutions and engage in strategic partnerships in our region that are mutually beneficial to the college and our partners.
6. Our Technology - We will continuously enable modern technology for our learners, faculty and staff that is simple to use, accessible across devices and enables efficiency, productivity and student success. We will utilize data and analytics across the student experience and in the administration of the college for continuous improvement and predictive capabilities. We will be a solutions provider, internally and externally.
7. Our Communication - We will expand current markets and cultivate new ones through innovative branding and marketing of our programs, opportunities, and value. We will share student stories, so our students and community know how Bucks changes lives. We will strengthen internal communication with students, faculty and staff by utilizing new technologies and ensuring excellent service.
8. Our Financial Sustainability - We will ensure that the college is fiscally strong while supporting student success. We will engage in comprehensive, transparent financial review of all credit and non-credit programs; periodic and agile assessment of new revenue streams and markets; and stewardship of human capital, resources and campus facilities.

Our Core Values

We value:

- a culture of learning that fosters continuous improvement
- excellence in teaching and service to students
- respect for the individual
- open-minded civil discourse
- diversity and an understanding of world cultures
- innovation and creativity
- collaboration
- responsible stewardship of resources
- ability to adapt to change
- service to the community

Accreditations and Approvals

Bucks County Community College is accredited by the Middle States Commission on Higher Education, 3624 Market Street, Philadelphia, PA 19104, 267-284-5000. The Commission on Higher Education is an institutional accrediting agency recognized by the U. S. Secretary of Education and the Commission on Postsecondary Accreditation.

In addition, **Bucks County Community College** is an accredited institutional member of:

The National Association of Schools of Music (NASM) 11250 Roger Bacon Drive, Suite 21 Reston, Virginia 21090-5248; and

The National Association of Schools of Art and Design (NASAD) 11250 Roger Bacon Drive, Suite 21 Reston, Virginia 21090-5248.

The **Business + Innovation** department Associates degree programs of Business Administration, Accounting & Analytics, Business, and Paralegal are accredited by the Association of Collegiate Business Schools and Programs (ACBSP), 11520 West 119th Street Overland Park, KS 66213.

The **Paralegal** Associates degree and certificate programs are approved by the American Bar Association (ABA), 321 N. Clark Street, 19th Floor Chicago, IL 60654-7598.

The **Associate Degree Nursing Program** is approved by the Pennsylvania State Board of Nursing, P.O. Box 2649, Harrisburg, PA 17105-2649.

The **Associate Degree Nursing Program** at Bucks County Community College located in Newtown, PA is accredited by the Accreditation Commission for Education in Nursing (ACEN), 3390 Peachtree Road NE, Suite 1400 Atlanta, GA 30326, (404) 975-5000.

The **Practical Nursing Program** is approved by the Commonwealth of Pennsylvania State Board of Nursing PA Department of State Bureau of Professional & Occupational Affairs Penn Center 2601 North Third Street Harrisburg, PA 17110.

The **Radiography** program is accredited by the Joint Review Committee on Education in Radiologic Technology (JRCERT) 20 N. Wacker Drive, Suite 2850 Chicago, IL 60606-3182.

The Associates in **Fire Science** degree program is recognized by the Fire and Emergency Services Higher Education (FESHE) and National Fire Academy (NFA) as a collegiate emergency service degree program through the United State Fire Administration, 16825 S. Seton Ave, Emmitsburg, MD 21727.

The **Medical Laboratory Technician** program is accredited by the National Accrediting Agency for Clinical Laboratory Science (NAACLS), 5600 N. River Rd, Suite 720 Rosemont IL 60018-5119.

The **Historic Preservation** program is accredited by the National Council for Preservation Education (NCPE), 105 Sibley Hall, Ithaca, New York, 14853.

Eligibility standards for our athletic programs are set by the Eastern Pennsylvania Athletic Conference (EPAC), Region XIX of the National Junior College Athletic Association (NJCAA), the National Junior College Athletic Association (NJCAA) National Office, and the

Intercollegiate Horse Shows Association (IHSA).

The College is approved for Veterans Education by the Department of Education of the Commonwealth.

Our Educational Program

Bucks County Community College combines traditional and academic disciplines with flexible educational programs preparing students for a future of technological and social change.

Education at Bucks County Community College provides:

- quality instruction offered by a highly competent faculty;
- courses which develop students' abilities to think and write critically and to compute with proficiency and confidence;
- facilities and resources that reflect the latest technology;
- a variety of educational offerings: credit and non-credit courses, workshops, lecture series, and special events;
- a program of assessment which places students in courses consistent with their abilities;
- student services, such as counseling, financial aid, and job placement, which help students to reach personal goals;
- a community of students of diverse ages and experience;
- a center for community services and cultural activities;
- an environment which encourages lifelong intellectual development.

A Definition of an Educated Person

A Statement from the Faculty

Education can help us live more complete and meaningful lives by nurturing essential values and skills. By valuing uniqueness and diversity, we accept our responsibility for their protection. By valuing open-minded inquiry, we may accept that, while we can seek certainties, perspectives may be the best we can gain. By valuing growth as a lifelong process and recognizing change as inevitable, we may work towards goals whose fruition may lie beyond our lifetime. By valuing the ability to analyze and make reasoned judgments, we may gain insights into ourselves and our world and a greater understanding of the interdependency of all things. By valuing the ability to communicate, we may give expression to our vision of the world where people can work cooperatively to improve their environment and the condition of their lives.

We believe that the curriculum of Bucks County Community College must endeavor to nurture such values and foster such skills. It must seek to empower its students by making them aware of the influences that affect their lives and confident of their ability to effect change in their lives and in the world. It must help them to make connections among disciplines, help them develop an integrated view of knowledge, and help them recognize that their use of knowledge always carries consequences, as well as moral and ethical responsibilities.

History

About the College

Bucks County Community College was founded in 1964 as the first public two-year college in the county. Sponsored by the County of Bucks under provisions of Pennsylvania's Community College Act, the college's first 15-member Board of Trustees was appointed on October 5, 1964, by the County Commissioners.

Three months later, the site of the college was determined when the county acquired 200 acres of the former 2,000-acre Tyler Estate in Newtown Township from Temple University. The estate had been bequeathed to Temple in 1963 by Mrs. Stella Elkins Tyler, a sculptress and patron of the arts who had been a university trustee for 20 years.

Over the years, the Newtown campus continued to grow. In 1968, the first major expansion included construction of Founders Hall, the Library (Pemberton Hall), the Gymnasium and pool, and the Student Union Building, now named the Charles E. Rollins Center in honor of the college's founding president.

The 1972 expansion included construction of Penn Hall, a new Library, including an audio-visual center, an auditorium and two television studios; conversion of the original Library into Pemberton Hall; and conversion of a carriage-style garage into the Hicks Art Center. A fine woodworking studio was added to the Hicks Art Center in 1980. In 1994, the Music and Multimedia Center was constructed for the college's music and communication students. The 3D Arts building opened in 2002, providing extensive modern facilities for sculpture, ceramics, and glassblowing programs, which had been housed in the Art Barn on the east end of campus.

The Early Learning Center, a childcare center for children of students and staff, opened in 1973 and moved to its own building behind Founders Hall in 1987. The Gateway Center, which houses science labs, a teleconference center and computer classrooms, was constructed in 1999, expanding the Library. A new home for the Fitness Center, adjacent to the gym, was added in 2002. The Allied Health building, adjacent to the Music and Multimedia Center, opened in 2006 to house the College's Practical Nursing, Radiography, and other Allied Health programs.

Extensive renovations of the Newtown campus continued, including the addition of the 9,000-square foot Links Pavilion in 2012, dedicated to Dr. James Links, the college's second president. Bucks also added a 38,000-square foot Science Center 2017 and a state-of-the-art Culinary Lab to provide more classrooms and laboratories. A complete renovation of Founders Hall provided new laboratories and classrooms for the STEM (Science, Technology, Engineering, and Mathematics) and Health Sciences departments. In addition, the Advising and Transfer Center, along with Career Services, can be found in newly renovated spaces on the lower level of the Rollins Center, providing students with easier access to the advice they need to launch their academic and professional careers.

To better serve the needs of the entire county, the college opened a 55,000-square-foot Lower Bucks Campus in 2007, complete with science labs, classrooms, and meeting rooms. The facility replaced the Bristol Center, which opened in 1989 in a nearby office park. Meanwhile, the Upper Bucks Campus in Perkasi, which first opened in 1999, completed a 26,000 square-foot expansion in 2010.

SECTION 2: MAJORS AND CERTIFICATE PROGRAMS

Enrollment Options and Degree Requirements

All students, upon application for admission to the College, must indicate a major and their intention to seek or not to seek the associate degree. By written notification to the Admissions Office, students may, at any time, change their major or change their status from degree-seeking to non-degree-seeking or vice versa, recognizing that change may require taking more credits or spending more time to fulfill different requirements.

The College's official transcript lists in detail all courses, grades, and credits. In addition, it distinguishes among these options:

Option	Requirements	Reflection on Transcript
Award of Associate of Arts Degree, Associate of Music, Associate of Fine Arts, Associate of Science, or Associate of Applied Science.	See Catalog section on Degree Requirements.	Occupational or Transfer major specified. Satisfaction of both degree and major requirements recorded.
Completion of Major Requirements only.	Varies from major to major. See footnote under the major.	Major specified. Satisfaction of only major requirements recorded. No degree awarded.
Award of a Certificate of Completion.	See Catalog section on Certificate Programs.	Certificate program specified. Satisfaction of certificate requirement recorded. Award of certificate recorded.
Completion of one or more courses.	Course requirements only.	Major specified.

Degree Requirements

Students newly admitted to the College for classes beginning in a fall semester must meet the degree requirements for the associate degree that are effective for the academic year (beginning of fall semester through the end of summer sessions). These requirements also apply to all students who change their major after the start of the fall semester.

All students admitted before the fall semester have the option of completing the associate degree and major requirements that are effective for the new academic year.

Students who enter their major during the current academic year, and who do not change their major or elect to follow a subsequent catalog, have a maximum of 10 years to complete the degree requirements in effect for this academic year. Students who do not complete these requirements by August, 2025, must follow the degree requirements effective for the 2025 - 2026 academic year.*

Students who entered their major prior to the start of the 2000 fall semester had until the end of the summer session, 2010 to complete degree requirements effective on the date they entered their major. Students who did not complete

degree requirements by this time (August, 2010) must follow the degree requirements in effect for the 2013 academic year.*

Students who entered their major between the 2000 through 2006 academic years also have 10 years to complete their degree requirements before those requirements are retired. View a chart detailing academic years and [degree completion deadlines](#).

*Please see the section on [Deactivated Majors](#).

Revisions in Major

If revisions occur in a major, the College follows the principle that students will not be required to spend more time taking additional credits to complete the revised major or be hindered in their normal progress toward the completion of the major in which they are already enrolled.

Students changing their major to one with revised requirements must meet the new requirements in effect at the time of their entry into that major, regardless of the date of their admission to the College.

Students already enrolled in a major in which revisions occur may elect to follow the revised major. In this case, students assume the responsibility if they must spend more time taking additional credits to complete their requirements.

Deactivated Majors

From time to time, the College finds it necessary to deactivate certain majors. When this occurs, the College makes every effort to notify the students who are currently enrolled in these majors.

Students enrolled in deactivated majors have three (3) academic years to complete degree requirements and graduate before the major becomes obsolete. (This may shorten the 10-year degree completion deadline.) Students who do not graduate by the end of the allotted time must change their major and follow the degree requirements that are in effect at the time.

- [Inactive Majors](#)
- [Obsolete Majors](#)

Earning Credits

Credits may be earned by successfully completing a course, by demonstrating an acceptable level of proficiency via credit by examination where available, through credit for life learning experience, advanced placement, transfer of credits, or through other methods which might be developed by the College.

Earning the Associate Degree

The Associate degree will be awarded to each student who has completed these requirements:

- completion of no fewer than sixty semester credit hours;
- completion of one of the associate degree programs;
- a cumulative grade point average of at least 2.00;
- enrollment during the semester the degree is anticipated;

- completion of no fewer than thirty semester credit hours in graded college-level courses at Bucks County Community College. However, individual academic departments may accept course work from a Bucks non-accredited program as internal credits, if there is an existing articulation agreement with the department. In this case, the student must still complete a minimum of fifteen (15) credits in graded courses at Bucks County Community College; and
- fulfillment of all financial and other obligations to the College.

Bucks County Community College awards five degrees, the Associate of Arts, Associate of Music, Associate of Fine Arts, Associate of Science, and Associate of Applied Science.

Students may complete more than one associate degree program or certificate. Please review and follow the guidelines below for completion of a second degree.

- Students may earn only one degree per program/major. For example, a student who graduated and earned an AA degree in Biology cannot receive an AS degree in Biology. A student can earn two degrees with the same degree designation. For example, a student can earn an AA degree in Liberal Arts and an AA degree in Business Administration.
- A second associate degree will require a minimum of 15 credits different from and in addition to those needed to satisfy the first associate degree.
- The second associate degree may use common credits. For example, both Liberal Arts: General Emphasis and Communication Studies programs require COMM110 and COMP110. If a student earned the Liberal Arts: General Emphasis degree and is now in the Communication Studies degree program, Communication Studies will use the previously completed COMM110 and COMP110.
- Course substitutions in the new/second degree program that are requested in order to allow use of previously completed credits will be allowed only in unusual circumstances, and only with special permission of the Department Dean and the Associate Provost.
- Students should not alternate back and forth between degree programs/majors. Students should take courses leading to one degree at a time.
- Students receiving financial aid assistance and pursuing a second degree should speak to the Financial Aid Office to understand the ramifications/conditions of satisfactory academic progress and also time, amount limits to grant and loan programs that could affect your eligibility if seeking a second degree.

Associate Degree Requirements

Each Associate Degree major is built upon the foundation of a common set of educational experiences. The goal of this core curriculum is to unify the educational experience of all students at the College by providing a shared blueprint for achieving the outcomes described in "A Definition of the Educated Person: A Touchstone for the Curriculum at Bucks County Community College."

Students must complete the General Education Program to earn an associate degree from Bucks County Community College. **Students complete their [General Education requirements](#) as part of the program of the study in their major.**

While many courses are aligned with the General Education Program, students **cannot** choose just any course from the list of aligned courses. Rather, the majors are designed so that students will take certain General Education courses that will enhance their learning experience in the major and maximize the number of courses that transfer into the relevant programs at transfer institutions.

Students Not Seeking the Associate Degree

Students who enroll in a major in order to receive preparation for upper division work for the baccalaureate degree are encouraged to check with the appropriate transfer institution to determine course transferability.

For students who only want to enroll in a major to take specific courses, the degree requirements and the major requirements do **not** have to be met. In this instance, only a list of courses, grades, and credits will appear on the transcript.

Certificate Programs

A certificate of completion is awarded to students who successfully complete a prescribed major. Credits earned in a certificate program may be applied toward an associate degree.

The following procedures govern enrollment and completion of certificate programs:

- A student must fulfill the admissions requirements of the College.
- A student must attain and maintain a cumulative grade point average of 2.00.
- A student must enroll in the certificate program on the application or by submitting a Change of Major Form at the Registrar's Office.
- At least 50% of the credits required for the certificate must be completed in graded courses at Bucks County Community College.
- Upon completion of the prescribed course of study, the student must formally apply, via the Registrar's Office for the awarding of the certificate of completion.

Attention PHEAA Grant Applicants or Recipients

To be eligible to receive PHEAA Grant awards, students must be enrolled in majors at least two years in length. If a student is awarded a PHEAA Grant, and chooses a Certificate Program as a major, he or she will not be eligible to receive PHEAA Grant awards. (Certificate Programs are less than two years in length.)

PHEAA requires the College to certify that PHEAA Grant recipients meet all state eligibility criteria each semester. A student's major, as listed by the Registrar's Office, is used to determine compliance with the state eligibility regulations.

If a PHEAA Grant is cancelled because the College reported the student's enrollment in a Certificate Program, and the student decides to change his or her major to a two-year program, the student must appeal directly to PHEAA regarding a request for reinstatement of the grant.

Financial Aid Applicants or Recipients

Students not seeking the Associate of Arts degree are not eligible to receive some types of financial aid. All federal and state programs require that students be enrolled on a degree-seeking basis.

General Education Program

When students pursue a higher education, they develop a sizable body of knowledge, a level of awareness of the world, and the skills needed for rigorous thinking. Regardless of their college major, educated persons share a body of knowledge and skills, commonly called a general education that consists of many of the courses taken during the first years of college. Through this educational experience, Bucks helps students become confident, creative, and balanced thinkers in preparation for transferring to other academic institutions

and meeting the needs of prospective employers. In this way, beyond the short-term benefits of transfer or career preparation, a general education sparks a lifetime commitment to learning and growing in a complex and changing world. Therefore, the faculty of Bucks County Community College aims to help students become educated persons by assisting them to develop the following abilities and skills:

GENERAL EDUCATION LEARNING GOALS

Students will be able to

1. **Arts/Humanities:** Demonstrate an understanding of human intellectual heritage and/or creative expression
2. **Critical Thinking:** Read critically, analyze and interpret information, and construct logical, well-supported positions
3. **Diversity:** Demonstrate an understanding of diverse human perspectives in local, national, or global contexts
4. **Information Literacy:** Find, evaluate, and ethically use information in a variety of formats for a variety of purposes
5. **Oral Communication:** Communicate effectively through speech
6. **Quantitative Literacy:** Demonstrate and apply quantitative reasoning
7. **Scientific Literacy:** Demonstrate an understanding of scientific reasoning
8. **Social Sciences:** Demonstrate an understanding of human behavior and/or the relationships of people within societies
9. **Technological Competence:** Demonstrate technological competence within the context of the major
10. **Writing:** Communicate effectively through writing

ASSOCIATE DEGREE PROGRAM: HOW TO COMPLETE THE GENERAL EDUCATION PROGRAM

Students must complete the General Education Program to earn an associate degree from Bucks County Community College. **Students complete their General Education requirements as part of the program of the study in their major.**

While many courses are aligned with the General Education Program, students **cannot** choose just any course from the list of aligned courses. Rather, the majors are designed so that students will take certain General Education courses that will enhance their learning experience in the major and maximize the number of courses that transfer into the relevant programs at transfer institutions.

Career and Technical Programs

Office of Academic and Curricular Services

The Office of Academic and Curricular Services administers the College's occupational majors. The office is located in Tyler Hall 127. For further information, call 215-968-8212 or 8213.

Perkins Grant Support of CTE College Programs

The College offers students opportunities to apply their classroom theory and skills in an on-the-job, off-campus working environment, part- or full-time.

Cooperative Education and Internship Programs

The College offers students an opportunity to apply their classroom theory and skills in an on-the-job, off-campus working environment, part- or full-time.

Students receive three credits for Cooperative Education/Internship. These credits usually qualify for Veteran Education Benefits.

Students currently employed may find their positions qualify for Cooperative Education/Internship. Thus, students may be able to maintain their present positions and enroll in Cooperative Education/Internship courses.

Academic departments attempt to provide opportunities to qualified students interested in careers related to accounting, chemistry, computers, criminal justice, education, emergency management, fine woodworking, graphic design, historic preservation, hospitality management, journalism, media arts, management, marketing, paralegal, political science, psychology, sport management, and women's studies.

Cooperative Education/Internship courses have varied prerequisites. Interested students may obtain an application to register for Cooperative Education, permission to register for an internship, and a fact sheet for their subject area from the appropriate department office.

Cooperative Education and/or Internships are offered as part of the following occupational majors:

- Accounting and Analytics
- Biology and Biotechnology
- Chemistry
- Cinema Video Production
- Computer Science
- Criminal Justice
- Emergency Management
- Environmental Science
- Fine Woodworking
- Graphic Design
- Historic Preservation
- Hospitality Management
- Journalism
- Management
- Marketing

- Meeting, Convention and Event Planning
- Paralegal
- Political Science
- Psychology
- Sport Management
- Technical Entrepreneurship
- Women's Studies

Majors and Certificate Programs

All associate degree majors are designed to fully reflect the faculty's philosophy of curriculum as stated in "A Definition of an Educated Person."

There are two types of associate degree majors: occupational and transfer, as well as occupational certificate programs.

Occupational Majors

Occupational programs are designed primarily to prepare graduates for entry-level employment in positions which require both theoretical knowledge and practical skills. Bucks offers occupational programs in fields as varied as accounting, chef apprenticeship, graphic design, medical assistant, microcomputer applications, networking technology, nursing, and paralegal.

Although occupational programs are designed for students seeking employment immediately after completion, many of the courses in these programs will transfer to baccalaureate institutions. Transfer of these courses is made easier because of the College's accreditation by The Middle States Commission on Higher Education, the Business + Innovation Department's accreditation by the Accreditation Council for Business Schools and Programs (ACBSP), the Arts Department's accreditation by the National Association of Schools of Art and Design (NASAD) and the National Association of Schools of Music (NASM), and the Associate Degree Nursing Program's accreditation by the Accreditation Commission for Education in Nursing (ACEN). Consult with the Advising & Transfer Center for information about the transferability of courses.

All occupational programs are guided by advisory committees. Practitioners in the various fields meet with College faculty to discuss the skills and abilities needed for the job market. These advisory committees and the ongoing evaluation they provide ensure that the College's occupational programs are relevant and up-to-date.

Occupational degree programs require four or more semesters of full-time study for completion and include courses that provide both concentrated study in a field and general education designed to broaden a student's knowledge and skills beyond the area of concentration.

Occupational certificate programs usually require two or more semesters for completion, and all the required courses focus on occupational skills.

Transfer Majors

Transfer programs are designed to parallel the first two years of study in a variety of subject areas at the baccalaureate institutions to which our students most frequently transfer. Transfer of course credits is determined entirely by the receiving institution. Students planning to transfer to a bachelor's degree granting institution are encouraged to obtain a current catalog for that institution. Bucks' courses should be selected to parallel the requirements at that institution. Many area colleges and universities have transfer (articulation) agreements with Bucks County Community College. Information on these agreements can be obtained in the academic department offices and at Transfer and Planning: <https://www.bucks.edu/academics/transferplanning/>.

The type of major does not necessarily limit a student's options after completion. Students who complete an occupational major may successfully transfer many of their

credits to a baccalaureate institution. Students who complete a transfer major may successfully secure entry-level employment after graduation.

Students must work closely with an academic advisor in choosing courses for their major. While the responsibility for the selection of courses is the student's, the advice and help of an academic advisor is based upon knowledge and experience and can aid the student in making wise and constructive major and course decisions.

Most majors are designed to be completed in four semesters of full-time (15 to 17 credits) study. A variety of circumstances, such as a change in major, or required work in English, mathematics, or reading as a result of placement testing, may require a longer time for completion. A recommended sequence of courses is provided for each semester. This schedule is given as a guide for students in planning their course selections. Students are urged to complete all courses required by placement testing immediately. The time of year a student enters a major may require the student to depart from the recommended sequence. In any case, students must work with an academic advisor in planning their individual courses of study.

Certificate Programs

A certificate of completion is awarded to a student who successfully completes a prescribed program. Depending on the program, certificate requirements may be completed in one or more semesters. All required courses in certificate programs focus on developing occupational skills. Credits earned in a certificate program may be applied toward an associate degree.

Online Majors

Visit [Bucks Online](#) to see which of the programs of study listed below can be completed in their entirety through eLearning courses.

Definition of an Educated Person

A Statement from the Faculty

Education can help us live more complete and meaningful lives by nurturing essential values and skills. By valuing uniqueness and diversity, we accept our responsibility for their protection. By valuing open-minded inquiry, we may accept that, while we can seek certainties, perspectives may be the best we can gain. By valuing growth as a lifelong process and recognizing change as inevitable, we may work towards goals whose fruition may lie beyond our lifetime. By valuing the ability to analyze and make reasoned judgments, we may gain insights into ourselves and our world and a greater understanding of the interdependency of all things. By valuing the ability to communicate, we may give expression to our vision of the world where people can work cooperatively to improve their environment and the condition of their lives.

We believe that the curriculum of Bucks County Community College must endeavor to nurture such values and foster such skills. It must seek to empower its students by making them aware of the influences that affect their lives and confident of their ability to effect change in their lives and in the world. It must help them to make connections among disciplines, help them develop an integrated view of knowledge, and help them recognize that their use of knowledge always carries consequences, as well as moral and ethical responsibilities.

Below are the Associate's Degree Program majors and academic certificates, arranged by department. Click here to [jump to the alphabetical list](#).

Degrees and Certificates: Listing by Department

Arts and Communication

Transfer

- 1201 Art and Art History
- 1181 Cinema Video Production
- 1120 Communication Studies
- 1001 Fine Arts
- 1187 Fine Woodworking
- 1110 Graphic Design
- 1019 Music
- 1175 Multimedia and Digital Arts
- 1195 Photography

Certificate Programs

- 3185 Applied Photography
- 3187 Furniture and Cabinetmaking
- 3147 Web and Multimedia Designer

Business + Innovation

Transfer

- 1009 Business Administration

Occupational

- 2019 Accounting & Analytics
- 2220 Baking and Pastry Arts
- 2204 Business
- 2210 Culinary Arts
- 2178 Emergency Management
- 2158 Fire Science
- 2022 Hospitality Management
- 2171 Meeting, Convention and Event Planning
- 2128 Paralegal Studies
- 2070 Technical Entrepreneurship

Certificate Programs

- 3176 Accounting and Taxation
- 3150 Baking & Pastry Arts
- 3202 Business Analytics
- 3154 Culinary Arts

- 3179 Emergency Management Certificate
- 3205 Entrepreneurship
- 3144 Fire Prevention and Investigation
- 3143 Fire Science
- 3208 Management
- 3172 Meeting, Convention and Event Planning
- 3129 Paralegal*
- 3099 Social Media and Digital Marketing

Health Sciences

Transfer

- 1108 Health Science
- 1207 Public Health

Occupational

- 2205 Diagnostic Medical Sonography*
- 2191 Health Information Technology
- 2131 Medical Assistant
- 2203 Medical Laboratory Technician*
- 2035 Nursing (Fall 2022)*
- 2202 Radiography*

Certificate Programs

- 3200 Computed Tomography*
- 3148 Medical Administrative Specialist
- 3199 Medical Assistant
- 3174 Medical Coding/Billing
- 3201 Magnetic Resonance Imaging*
- 3204 Patient Care Technician
- 3166 Phlebotomy

Kinesiology and Sport Studies

Transfer

- 1206 Dance
- 1197 Exercise Science
- 1031 Health/Physical Education
- 1154 Sport Management

Certificate Programs

- 3203 Health Coach*
- 3190 Recreational Leadership

Language and Literature

Transfer

- 1200 English
- 1204 Global Studies/World Languages
- 1202 Guided Studies
- 1045 Journalism
- 1002 Liberal Arts

Science, Technology, Engineering and Mathematics

Transfer

- 1003 Biology
- 1105 Biomedical Sciences
- 1004 Chemistry
- 1103 Computer Science
- 1203 Cybersecurity
- 1205 Data Science
- 1102 Information Science
- 1028 Engineering
- 1188 Environmental Science
- 1146 Individual Transfer Studies
- 1006 Mathematics
- 1194 Neuroscience
- 1117 Science
- 1177 Secondary Education: Mathematics

Occupational

- 2207 Advanced Technology
- 2119 Biotechnology
- 2194 Brewing & Fermentation Science
- 2136 Computer Networking Technology
- 2193 Engineering Technology
- 2164 Information Technology Studies

Certificate Programs

- 3207 Advanced Technology
- 3186 Biotechnology
- 3162 Computer Hardware Installation and Maintenance
- 3133 Computer Networking Technology

Social and Behavioral Science

Transfer

- 1189 Criminal Justice

- 1196 History
- 4192 Pre K-4 Early Education
- 1183 Psychology: Interpersonal Emphasis
- 1060 Psychology: Pre-Professional Emphasis
- 1180 Secondary Education: History
- 1059 Social Science
- 1130 Social Work

Occupational

- 2034 Education: Paraprofessional Instructional Assistant

Certificate Programs

- 3127 Historic Preservation

Special Non-Degree Programs

- 0080 Non-Degree/Guest
- 0089 Non-Degree/Non-Certificate Seeking
- 0098 High School Dual Enrollment*
- 0099 High School Enrichment

**These programs may require departmental approval for entering applicants.*

Degrees and Certificates: Alphabetical Listing

Transfer Programs

- 1201 Art and Art History
- 1003 Biology
- 1105 Biomedical Sciences
- 1009 Business Administration
- 1004 Chemistry
- 1181 Cinema Video Production
- 1120 Communication Studies
- 1103 Computer Science
- 1189 Criminal Justice
- 1203 Cybersecurity
- 1206 Dance
- 1205 Data Science
- 1028 Engineering
- 1200 English
- 1188 Environmental Science
- 1197 Exercise Science
- 1001 Fine Arts
- 1187 Fine Woodworking
- 1204 Global Studies/World Languages
- 1110 Graphic Design
- 1202 Guided Studies
- 1031 Health/Physical Education
- 1108 Health Science
- 1196 History
- 1146 Individual Transfer Studies
- 1102 Information Science
- 1045 Journalism
- 1002 Liberal Arts
- 1006 Mathematics
- 1175 Multimedia & Digital Arts
- 1019 Music
- 1194 Neuroscience
- 1195 Photography
- 4192 Pre K-4 Early Education
- 1183 Psychology: Interpersonal Emphasis
- 1060 Psychology: Pre-Professional Emphasis
- 1207 Public Health

- 1180 Secondary Education: History
- 1177 Secondary Education: Mathematics
- 1117 Science
- 1059 Social Science
- 1130 Social Work
- 1154 Sport Management

Occupational Programs

- 2019 Accounting & Analytics
- 2207 Advanced Technology
- 2220 Baking & Pastry Arts
- 2194 Brewing & Fermentation Science
- 2204 Business
- 2119 Biotechnology
- 2136 Computer Networking Technology
- 2210 Culinary Arts
- 2205 Diagnostic Medical Sonography*
- 2034 Education: Paraprofessional Instructional Assistant
- 2178 Emergency Management
- 2193 Engineering Technology
- 2158 Fire Science
- 2191 Health Information Technology
- 2022 Hospitality Management
- 2164 Information Technology Studies
- 2131 Medical Assistant
- 2203 Medical Laboratory Technician*
- 2171 Meeting, Convention and Event Planning
- 2035 Nursing*
- 2128 Paralegal Studies
- 2202 Radiography*
- 2070 Technical Entrepreneurship

Certificate Programs

- 3176 Accounting and Taxation
- 3207 Advanced Technology
- 3185 Applied Photography
- 3150 Baking & Pastry Arts
- 3186 Biotechnology

- 3202 Business Analytics
- 3200 Computed Tomography*
- 3162 Computer Hardware Installation and Maintenance
- 3133 Computer Networking Technology
- 3154 Culinary Arts
- 3179 Emergency Management Certificate
- 3205 Entrepreneurship
- 3144 Fire Prevention & Investigation
- 3143 Fire Science
- 3187 Furniture and Cabinetmaking
- 3203 Health Coach
- 3127 Historic Preservation
- 3201 Magnetic Resonance Imaging*
- 3208 Management
- 3148 Medical Administrative Specialist
- 3199 Medical Assistant
- 3174 Medical Coding/Billing
- 3172 Meeting, Convention and Event Planning
- 3129 Paralegal*
- 3204 Patient Care Technician
- 3166 Phlebotomy
- 3190 Recreational Leadership
- 3099 Social Media and Digital Marketing
- 3147 Web and Multimedia Designer

**These programs may require departmental approval for entering applicants*

Accounting and Analytics

ASSOCIATE OF ARTS

OCCUPATIONAL MAJOR



This program is accredited by the Accreditation Council for Business Schools and Programs (ACBSP).

This major is primarily designed for job preparedness. Students who are considering transferring to a baccalaureate institution should be aware that decisions on transferability of courses are made by the baccalaureate institution and differ from school to school. Students should contact the Transfer Services Office early in their academic program to determine which courses will transfer to the college of their choice.

Department of Business and Innovation

Grupp 401 • Phone: (215) 968-8227

Curriculum Code No. **2019**

This major is designed for two-year accounting paraprofessionals, junior accountants and full-charge bookkeepers. Students should work closely with their academic advisors in the selection of courses.

Graduates of this program are able to

- complete the accounting cycle;
- prepare GAAP based financial statements;
- apply financial accounting pronouncements to financial reporting and disclosure;
- research and analyze tax law; and
- apply managerial accounting concepts and data analytics.

DEGREE COURSE REQUIREMENTS

Course	Credits
ACCT105 Financial Accounting ^{A,D}	4

Course	Credits
<u>ACCT106</u> Managerial Accounting ^D	4
<u>ACCT130</u> Accounting Applications for the Computer ^{D,9}	3
<u>ACCT200</u> Intermediate Accounting I ^D	3
<u>ACCT201</u> Intermediate Accounting II ^D	3
<u>ACCT210</u> Cost Accounting I ^D	3
<u>ACCT240</u> Federal and State Taxes I ^D	3
<u>ACCT241</u> Federal and State Taxes II ^D	3
<u>ACCT280</u> Accounting Internship ^{B,D}	3
<u>CISC110</u> Introduction to Information Systems ^{D,9}	3
<u>COLL101</u> College Success Seminar	1
<u>COMM110</u> Effective Speaking ^{A,D,4,5}	3
<u>MATH115</u> Elementary Statistics ^{A,D,2,6}	3
OR	
<u>MGMT120</u> Business Mathematics ^{A,D,6}	3
<u>MGMT100</u> Introduction to Business ^{2,3,4,8}	3
<u>MGMT122</u> Introduction to Business Analytic ^D	3
<u>MGMT135</u> Business Communication ^{A,D,2,4,10}	3

Course	Credits
Scientific Literacy ^{A,D,E,7}	3-4
Arts/Humanities ^{E,1}	3
Electives ^C	6
Total Credit Hours	60-61

^A Placement testing required.

^B All academically qualified students must enroll in ACCT280.

^C Select any one of the following (with proper prerequisites): ACCT110, ACCT120, ACCT230, ACCT250, CISC127, CISC215, MATH215.

^D Course requires prerequisite or corequisite.

^E Consult the list of courses approved for this subcategory. Any course may be chosen.

¹ Satisfies Arts/Humanities

² Satisfies Critical Thinking

³ Satisfies Diversity

⁴ Satisfies Information Literacy

⁵ Satisfies Oral Communication

⁶ Satisfies Quantitative Literacy

⁷ Satisfies Scientific Literacy

⁸ Satisfies Social Sciences

⁹ Satisfies Technological Competence

¹⁰ Satisfies Writing

Accounting & Taxation

CERTIFICATE MAJOR

Department of Business and Innovation

Grupp 401 • Phone (215) 968-8227

Curriculum Code No. **3176**

Students who successfully complete the Accounting & Taxation Certificate Program will have highly developed accounting competencies and an understanding of tax accounting. Students in this program will be qualified to work as full-charge bookkeepers, accounting clerks, auditing clerks, junior accountants and in other positions in which a strong background in accounting is required.

Graduates of this program are able to

- complete the accounting cycle;
- prepare GAAP based financial statements;

- use software to perform accounting functions and analyze financial statements;
- prepare audit working papers; and
- research and analyze tax problems and prepare tax returns.

CERTIFICATE REQUIREMENTS

Course	Credits
<u>ACCT103</u> Introductory Accounting	3
<u>ACCT105</u> Financial Accounting ^B	4
<u>ACCT106</u> Managerial Accounting ^B	4
<u>ACCT130</u> Accounting Applications for the Computer ^B	3
<u>ACCT240</u> Federal and States Taxes I ^B	3
<u>ACCT241</u> Federal and State Taxes II ^B	3
<u>ACCT200</u> Intermediate Accounting I ^B	3
<u>ACCT201</u> Intermediate Accounting II ^B	3
<u>ACCT250</u> Auditing ^B	3
<u>COLL101</u> College Success Seminar	1
<u>MGMT135</u> Business Communication ^{A,B}	3
<u>MGMT120</u> Business Mathematics ^{A,B}	3
Total Credit Hours	36

^A Placement testing required

^B Course requires prerequisite.

Advanced Technology

ASSOCIATE OF APPLIED SCIENCE

OCCUPATIONAL MAJOR

Department of Science, Technology Engineering & Mathematics

Founders 110 • Phone (215) 968-8305

Curriculum Code No. **2207**

This program is designed to prepare students to seek employment as technicians in industry fields. Concentrations include electrical, mechanical, process control, biotechnology, environmental, computer science, and chemical. Through a sequence of laboratory-based and professional development courses, students develop technical, interpersonal, and communication skills needed for immediate employment in industry.

Upon successful completion of the program students will be awarded the Associate of Applied Science degree.

Graduates of this program are able to:

- apply fundamental principles of mathematics, physics, engineering, and laboratory measurements to solve problems encountered as industry technicians;
- apply problem solving skills utilized in an industry setting to a component or system; and
- solve an industry related problem by applying the skills necessary for a practicing industry technician.

Prospective students with inadequate academic preparation should be aware that they may need additional time to acquire the necessary academic background. Prerequisites and corequisites for the required courses must be strictly followed.

DEGREE COURSE REQUIREMENTS

Course	Credits
<u>COLL101</u> College Readiness	1
<u>CHEM101</u> Chemistry A ^{A,B,6,7}	4
OR	

Course	Credits
CHEM121 Chemistry I ^{A,B,6,7}	4
COMM110 Effective Speaking ^{A,B,4,5}	3
ENGR112 Engineering Design ^{A,B,9}	4
MATH120 College Algebra ^{A,B,6}	4
MGMT135 Business Communications ^{A,B,2,4,1}	3
PHYS106 Physics A ^{A,B}	4
PHYS107 Physics B ^A	4
Computer Science Elective ^{A,B,D}	3-4
General Elective ^F	3
Math Elective ^{A,B,E}	3-4
Social Science/Diversity ^{C,2,3,8}	3
Technical Electives ^{G,H}	22
Total Credit Hours	61-63

A Course requires a prerequisite or co-requisite.

B Placement Testing Required.

C [Consult the approved list of courses.](#)

D Choose any CISC course except for CISC100.

E Choose any MATH course that is MATH115 or above.

F Any college-level course may be chosen. See advisor for a recommended course.

G Choose from BIOL101, BIOL121, BIOL220, BIOT105, BIOT125, BIOT225, BRFS101, BRFS102, BRFS201, CHEM122, CISC110, CISC113, CISC115, CISC119, CISC128, ENGT222, ENGT240, MATH115, MATH125, MATH140, SCIE103, SCIE104, SCIE105, VAFW100, VAFW140.

H Courses, certifications, internships, and prior work experience may be approved for credit. See advisor and/or PLA office to discuss Prior Learning Assessment (PLA) options. Must be approved by the Dean of STEM.

1 Satisfies Arts/Humanities.

2 Satisfies Critical Thinking.

3 Satisfies Diversity.

4 Satisfies Information Literacy.

5 Satisfies Oral Communication.

6 Satisfies Quantitative Literacy.

7 Satisfies Scientific Literacy.

8 Satisfies Social Sciences.

9 Satisfies Technological Competence.

10 Satisfies Writing.

Advanced Technology

CERTIFICATE PROGRAM

Department of Science, Technology Engineering & Mathematics

Founders 110 • Phone (215) 968-8305

Curriculum Code No. **3207**

This certificate program is designed to prepare students to seek employment as an industry technician in concentrations such as electrical, mechanical, process control, environmental, biotechnology, computer science, and chemical. Through laboratory-based science, technology, engineering, math, business courses, and technical electives, students develop technical skills and professional development needed for immediate employment. Technical electives allow students to choose from a wide variety of industry disciplines. Technical electives also include certifications, work experience, and prior education, if applicable.

Upon successful completion of the program students will be awarded a certificate in Advanced Technology.

Graduates of this program are able to:

- apply fundamental principles of mathematics, physics, and laboratory measurements to solve problems encountered as industry technicians;
- apply problem solving skills utilized in an industry setting to a component or system; and
- solve an industry related problem by applying the skills necessary for a practicing industry technician.

Prospective students with inadequate academic preparation should be aware that they may need additional time to acquire the necessary academic background. Prerequisites and corequisites for the required courses must be strictly followed.

CERTIFICATE REQUIREMENTS

Course	Credits
<u>COLL101</u> College Readiness	1
<u>CHEM101</u> Chemistry A	4
OR	
<u>CHEM121</u> Chemistry I ^{C,D}	4
<u>ENGR112</u> Engineering Design ^{C,D}	4
<u>MATH120</u> College Algebra ^{C,D}	4
<u>MGMT135</u> Business Communications ^{C,D}	3
<u>PHYS106</u> Physics A ^A	4
<u>PHYS107</u> Physics B ^{C,D}	4
Computer Science Elective ^E	3-4
Technical Electives ^{A,B}	12
Technical Electives ^{G,H}	22
Total Credit Hours	39-40

A Choose from BIOL101, BIOL121, BIOL220, BIOT105, BIOT125, BIOT225, BRFS101, BRFS102, BRFS201, CHEM122, CISC110, CISC113, CISC115, CISC119, CISC128, ENGT222, ENGT240, MATH115, MATH125, MATH140, SCIE103, SCIE104, SCIE105, VAFW100, VAFW140.

B Courses, certifications, internships, and prior work experience may be approved for credit. See advisor and/or PLA office to discuss Prior Learning Assessment (PLA) options. Must be approved by the Dean of STEM.

C Course requires a prerequisite or corequisite.

D Placement Testing Required.

E Choose any CISC course except for CISC100.

Applied Photography

CERTIFICATE PROGRAM

Arts & Communication Department

Hicks Art Center • Phone (215) 968-8425

Curriculum Code No. **3185**

This one-year certificate program blends traditional and digital techniques and is designed for students seeking intensive technical training. This program develops essential entry-level skills required in a commercial photography studio or in a business such as wedding and/or portrait photography.

Graduates of this program are able to

- expose, develop, and print negatives employing the standard techniques.
- employ software and dark room techniques used in the manipulation and control of photographic imagery
- employ software/tools used in the manipulation and control of digital-based imagery.
- critically examine technical and aesthetic aspects of photographic images.

Check out this [video](#) about the program made by a Bucks photography student.

Note: Studio courses can be expensive. Lab Fees may be required.

CERTIFICATE COURSE REQUIREMENTS*

Course	Credits
<u>COLL101</u> College Success Seminar	1
<u>VAMM100</u> Digital Imaging	3
<u>VAPH110</u> Digital Photography Fundamentals	3
<u>VAPH151</u> Introduction to Photography	3
<u>VAF193</u> History of Modern Art	3

OR

Course	Credits
<u>VAPH196</u> History of Photography	3
<u>VAPH157</u> Photography II ^A	3
<u>VAPH210</u> Digital Photography II ^A	3
<u>VAPH211</u> Studio Lighting for Photography ^A	3
Electives	6
Total Credit Hours	28

SUGGESTED ELECTIVES (SELECT TWO):

Course	Credits
<u>MGMT100</u> Introduction to Business	3
<u>VACV140</u> Digital Editing	3
<u>VACV231</u> Video Field Production	3
<u>VAMM250</u> Digital Arts Portfolio Studio ^A	3
<u>VAPH257</u> Large Format Photography ^A	3
<u>VAGD101</u> Layout and Typography	3
<u>VAGD102</u> Illustration: Drawing/Digital ^A	3

Course	Credits
<u>VAGD280</u> Cooperative Education/Graphics ^A	3
<u>VAMM110</u> Web and Interactive Design ^A	3
<u>VAMM209</u> Multimedia Concepts I ^A	3

^A Course requires prerequisite.

**Since the individual circumstances and backgrounds of students vary, all students planning to complete this certificate program must meet with their assigned academic advisor to develop a planned sequence of courses to meet their individual needs.*

Art and Art History

ASSOCIATE OF ARTS

TRANSFER MAJOR

Decisions on the transferability of courses are made by the four-year colleges and differ from school to school. Students enrolled in this major should contact the Transfer Services Office early in their academic program to determine which courses will transfer to the college of their choice.

Arts & Communication Department

Hicks Art Center • Phone (215) 968-8425

Curriculum code No. **1201**

In the Art and Art History transfer major, students experience the process of making artistic objects, as well as the practice of interpreting historical objects through the study of art history. Students develop skills in drawing and then explore other artistic media. Students also apply the methodologies used by art historians as they analyze and research various kinds of art and/or architecture.

The major serves those contemplating careers in areas such as museum and archival work, historic preservation and archaeological investigation, research and teaching.

Graduates of this program are able to:

- demonstrate an understanding of the methods and materials associated with the creation of a work of art;
- demonstrate an understanding of the history of Western art; and
- read about, write about, and analyze art and art history using basic research, critical thinking skills, and a visual arts vocabulary.

Note: Studio courses can be expensive. **Lab Fees** may be required.

DEGREE COURSE REQUIREMENTS*

Course	Credits
<u>COLL101</u> College Success Seminar	1
<u>COMM110</u> Effective Speaking ^{A,4,5}	3
<u>COMP110</u> English Composition I ^{A,10}	3
<u>COMP111</u> English Composition II ^{C,2,4,10}	3
<u>VAFA100</u> Drawing I ^{C,1}	3
<u>VAFA191</u> Art History Before 1450 ¹	3
<u>VAFA192</u> Art History After 1450 ^{C,1}	3
<u>VAFA193</u> History of Modern Art ^{C,1}	3
Art History/History Electives (<i>choose from list</i>)	6
Digital Elective ^{9,D}	3
Diversity ^{B,3}	3
Electives ^E	6
Foreign Language ^{1,F}	6

Course	Credits
Mathematics ^{A,B,6}	3
Science ^{A,B,7}	3/4
Social Science ^{B,8}	3
Studio Art Electives (<i>choose from list</i>)	6
Total Credit Hours	61/62

**Art History/History Electives
(select at least 6 credits)**

<u>VACV141</u> Art of Independent Cinema ^C	
<u>VACV142</u> Art of Theatrical Cinema ^C	
<u>VAFA194</u> American Art History ^{C,1}	
<u>VAFA195</u> Non-Western Art History ^C	
<u>VAFW190</u> History of American Furniture ^C	
<u>VAPH196</u> History of Photography ^{C,1}	
<u>HIST111</u> History of Western Civilization I ¹	
<u>HIST112</u> History of Western Civilization II ¹	
<u>HIST151</u> History of the United States I ¹	
<u>HIST152</u> History of the United States II ¹	
<u>HIST195</u> Introduction to Historical Archeology I	
<u>HIST197</u> History and Theory of Preservation	
<u>HIST198</u> History of American Architecture	

Studio Electives
(select at least 6 credits)

VAF A107 Introduction to Jewelry ¹

VAF A141 Introduction to Sculpture ¹

VAF A147 Introduction to Glassblowing

VAF A161 Introduction to Printmaking ¹

VAF A171 Introduction to Painting ¹

VAF A181 Introduction to Ceramics ¹

VAF W100 Fine Woodworking Fundamentals ¹

VAF W133 Woodcarving – Furniture

VAF H151 Introduction to Photography ¹

^A Placement testing required.

^B Consult the list of courses approved for this category. Any course may be chosen.

^C Course requires prerequisite.

^D Any of the following may be chosen: VAPH110, VAMM100, VACV140.

^E Pre-college level courses do not meet this requirement.

^F German, French, or Italian is recommended.

¹ Satisfies Arts/Humanities.

² Satisfies Critical Thinking.

³ Satisfies Diversity.

⁴ Satisfies Information Literacy.

⁵ Satisfies Oral Communication.

⁶ Satisfies Quantitative Literacy.

⁷ Satisfies Scientific Literacy.

⁸ Satisfies Social Sciences.

⁹ Satisfies Technological Competence.

¹⁰ Satisfies Writing.

Bucks County Community College is an accredited institutional member of the National Association of Schools of Arts and Design.

Credits exceeding the required minimum cannot be used to satisfy required credits in other course requirements.

Baking and Pastry Arts

ASSOCIATE OF ARTS

OCCUPATIONAL MAJOR

Department of Business and Innovation

Grupp 401 • Phone (215) 968-8227

Certificate Code No. **2220**

The Baking and Pastry Arts degree qualifies individuals to compete for various entry-level culinary positions in bakeries, restaurants, catering or institutional foodservice or hospitality management. Graduates seek employment in positions with job titles such as baker, cake decorator, pastry sous chef or pastry chef.

Major requirements include supervised and documented on-the-job training and educational courses that support and enhance the work experience. Students in the program choose between an internship or apprenticeship. The internship requires the completion of two 2-credit internship courses involving employment in the culinary field. The apprenticeship requires the completion of four one-credit culinary practicum courses and 4000 hours of culinary work experience. Upon successful completion of the major requirements, apprentices will be awarded an Associate of Arts Degree from the College and Journeyperson Pastry Cook certification from the United States Department of Labor.

- Graduates of this program, graduates will
- identify the tools and equipment found in the kitchen;
- safely utilize the tools and equipment found in the kitchen;
- perform various baking and pastry making tasks following industry accepted safety and sanitation rules and regulations;
- competently prepare baked goods and pastries;
- demonstrate appropriate, creatively expressed decorating techniques used to finish cakes, various bakery products, and desserts;
- demonstrate effective written and oral communication skills; and
- exhibit work habits and ethical behavior that model a food service professional.

DEGREE COURSE REQUIREMENTS*

Course	Credits
<u>CISC100</u> Digital Literacy ⁹	3
OR	
<u>CISC110</u> Introduction to Information Systems ^{A,B,9}	3
<u>COLL101</u> College Success Seminar	1

Course	Credits
<u>COMM110</u> Effective Speaking ^{A,B,4,5}	3
<u>CULN100</u> Culinary Foundations	1
<u>CULN101</u> Apprenticeship Practicum I ^{B,C}	1
<u>CULN102</u> Apprenticeship Practicum II ^{B,C}	1
<u>CULN103</u> Apprenticeship Practicum III ^{B,C}	1
<u>CULN104</u> Apprenticeship Practicum IV ^{B,C} OR	1
<u>CULN281</u> Culinary Internship I ^{B,D}	2
<u>CULN282</u> Culinary Internship II ^{B,D}	2
<u>CULN110</u> Basic Food Preparation	4
<u>CULN130</u> Baking and Decorating ¹	3
<u>CULN138</u> Ice Cream and Frozen Desserts	2
<u>CULN139</u> Wedding Cake Assembly and Decoration	2
<u>CULN151</u> Bread Fabrication-Basic	2
<u>CULN152</u> Bread Fabrication-Advanced ^B	2
<u>CULN156</u> Chocolate - Essential Skills ^B	2

Course	Credits
<u>CULN158</u> Cookies	1
<u>CULN160</u> Advanced Baking: Pastry ^B	2
<u>CULN165</u> Advanced Baking: Cakes ^B	2
CULN202 Food Purchasing/Techniques and Procedures ^B	3
<u>CULN203</u> Menu Planning/Costing/Design ^B	3
<u>CULN285</u> Culinary Capstrone ^B	2
CULN Elective ^E	4
<u>HLTH120</u> Nutrition ^{A,2,4,7}	3
<u>HOSP100</u> Introduction to Hospitality Management	3
<u>HOSP106</u> Safety and Sanitation	2
<u>MGMT100</u> Introduction to Business ^{2,3,4,8}	3
<u>MGMT120</u> Business Mathematics ^{A,B,6}	3
<u>MGMT135</u> Business Communication ^{A,B,2,4,10}	3
Total Credit Hours	63

A Placement testing required.

B Course requires prerequisite.

C Apprenticeship track.

D Internship track.

E Choose one: CULN111, CULN112, CULN113, CULN114, CULN115.

- 1 Satisfies Arts/Humanities.
- 2 Satisfies Critical Thinking.
- 3 Satisfies Diversity.
- 4 Satisfies Information Literacy.
- 5 Satisfies Oral Communication.
- 6 Satisfies Quantitative Literacy.
- 7 Satisfies Scientific Literacy.
- 8 Satisfies Social Sciences.
- 9 Satisfies Technological Competence.
- 10 Satisfies Writing.

Baking and Pastry

CERTIFICATE PROGRAM

Department of Business and Innovation

Grupp 401 • Phone (215) 968-8227

Certificate Code No. **3150**

This certificate program prepares students to pursue employment as a baker, decorator, or pastry professional. Bakers and decorators work in retail bake shops or supermarket bakeries. Positions as a pastry professional are available in restaurants, hotels, casinos, foodservice locations and country clubs. Graduates of this program can enter the industry as a cake decorator, baker or pastry cook. Students who complete this program may apply these credits toward the completion of the Chef Apprenticeship Associate of Arts degree programs.

Upon completion of this program, graduates will

- Identify, and safely utilize the tools and equipment found in the pastry kitchen;
- Perform various baking and pastry making tasks following industry accepted safety and sanitation rules and regulations;
- Utilize a variety of recipes for all types of baking and pastry products;
- Identify and competently prepare baked goods and pastries;
- Select and demonstrate appropriate, creatively expressed decorating techniques used to finish cakes, various bakery products, and desserts; and
- Exhibit work habits and ethical behavior that model a baker, decorator, or pastry professional in the food service industry.

CERTIFICATE REQUIREMENTS

Course	Credits
<u>COLL101</u> College Success Seminar	1
<u>CULN130</u> Baking and Decorating - Techniques and Procedures	3
<u>CULN138</u> Ice Cream and Frozen Desserts	2
<u>CULN139</u> Wedding Cake Assembly and Decoration	2
<u>CULN151</u> Bread Fabrication-Basic	2
<u>CULN152</u> Bread Fabrication-Advanced ^A	2
<u>CULN156</u> Chocolate - Essential Skills ^A	2
<u>CULN160</u> Advanced Baking: Pastry ^A	2
<u>CULN165</u> Advanced Baking: Cakes ^A	2
<u>HOSP106</u> Safety and Sanitation	2
Total Credit Hours	20

^A Course requires prerequisite.

Biology

ASSOCIATE OF SCIENCE

TRANSFER MAJOR

Decisions on the transferability of courses are made by the four-year colleges and differ from school to school. Students enrolled in this major should contact the Transfer Services Office early in their academic program to determine which courses will transfer to the college of their choice.

Science, Technology, Engineering & Mathematics Department

Founders 110 • Phone: 968-8305

Curriculum Code No. **1003**

The Biology major provides an understanding of fundamental biological concepts. This major is for students planning to earn a baccalaureate degree in biological science or seeking employment as a technician in areas such as ecology, environmental health and sanitation, pollution control, plant science, or animal science.

Graduates of this program are able to

- Explain the unity of life.
- Describe the evidence to support the principle of descent from a common ancestor.
- Explain the use and distribution of energy in living systems.
- Construct tables and graphs from collected data and interpret these compilations.
- Describe the relationship between inheritance, variation and evolution.
- Demonstrate appropriate techniques to collect, organize, evaluate, and present data.

Prospective students with academic deficiencies should be aware that they will need additional time to acquire the necessary academic background. Prerequisites and corequisites for required courses must be followed.

DEGREE COURSE REQUIREMENTS

Course	Credits
<u>BIOL121</u> Biological Principles I ^E	4
<u>BIOL122</u> Biological Principles II ^E	4
<u>BIOL220</u> Principles of Ecology ^E	4
<u>BIOL228</u> Microbiology ^{9,E}	4
<u>CHEM121</u> Chemistry I ^{A,E,6,7}	4
<u>CHEM122</u> Chemistry II ^E	4
<u>CHEM221</u> Organic Chemistry I ^E	5

Course	Credits
CHEM222 Organic Chemistry II ^E	5
COLL101 College Success Seminar	1
COMP110 English Composition I ^{A,E,2,10}	3
COMP111 English Composition II ^{2,4,10,E}	3
MATH122 Trigonometry and Analytic Geometry ^{A,B,E,H,6}	3
MATH125 Pre-Calculus ^{C,E,H,6}	4
COMM110 Effective Speaking ^{4,5,E}	3
Social Sciences/Diversity ^{3,8,F}	3
Arts/Humanities ^{1,D}	3
Electives ^G	4-6
Total Credit Hours	61-63

^A Placement testing required.

^B MATH140 may be substituted.

^C MATH141 may be substituted.

^D Consult the list of courses approved for this subcategory. Any course may be chosen.

^E Course requires prerequisite.

^F Choose from any of the following choices: COMM111, ECON111, GEOG110, MUSC103, POLI111, PSYC110, SOCI110, SOCI120

^G Choose any courses

^H Students planning to continue on to a Baccalaureate degree program are strongly urged to continue their math studies through Calculus II

¹ Satisfies Arts/Humanities.

² Satisfies Critical Thinking.

³ Satisfies Diversity.

⁴ Satisfies Information Literacy.

⁵ Satisfies Oral Communication.

⁶ Satisfies Quantitative Literacy.

⁷ Satisfies Scientific Literacy.

⁸ Satisfies Social Sciences.

⁹ Satisfies Technological Competence.

¹⁰ Satisfies Writing.

Credits exceeding the required minimum cannot be used to satisfy required credits in other course requirements.

Biomedical Sciences

ASSOCIATE OF SCIENCE

TRANSFER MAJOR

Decisions on the transferability of courses are made by the four-year colleges and differ from school to school. Students enrolled in this major should contact the Transfer Services Office early in their academic program to determine which courses will transfer to the college of their choice.

Science, Technology, Engineering & Mathematics Department

Founders 110 • Phone (215) 968-8305

Curriculum Code No. **1105**

This major prepares students for transfer into baccalaureate degree majors in allied health fields. These may include: occupational therapy, physical therapy, respiratory therapy, medical technology, or dental hygiene. Students are advised to review the entrance requirements of the baccalaureate institutions. In order to ensure that students make proper decisions, advising by the Science, Technology, Engineering & Mathematics Department is required.

Graduates of this program are able to

- demonstrate and apply proficiency in the basic sciences including laboratory skills and knowledge of biology.
- demonstrate and apply proficiency in the basic sciences including laboratory skills and knowledge of chemistry.
- demonstrate appropriate techniques to collect, organize, evaluate and present data.

Prospective students with inadequate academic preparations should be aware that they may need additional time to acquire the necessary academic background. Prerequisites and corequisites for the required courses must be followed.

DEGREE COURSE REQUIREMENTS

Course	Credits
<u>BIOL121</u> Biological Principles I ^E	4
<u>BIOL122</u> Biological Principles II ^E	4
<u>CHEM121</u> Chemistry I ^{A,E,6,7,9}	4
<u>CHEM122</u> Chemistry II ^{A,E}	4
<u>COLL101</u> College Success Seminar	1
<u>COMP110</u> English Composition I ^{A,2,10}	3
<u>COMP111</u> English Composition II ^{E,2,4,10}	3
<u>MATH120</u> College Algebra ^{A,B,6}	4
<u>PSYC110</u> Introduction to Psychology ^{2,3,8}	3
<u>SOCI110</u> Introduction to Sociology ^{2,3,8}	3
<u>COMM110</u> Effective Speaking ^{4,5}	3
<u>CISC110</u> Intro to Information Systems ^{A,9}	3
<u>HLTH120</u> Nutrition ^G	3
Arts/Humanities Elective ^{D,1}	3
Biomedical Sciences electives ^F	18
Total Credit Hours	63

^A Placement testing required.

^B MATH122, MATH125, or MATH140 may be substituted.

^C MATH141 may be substituted.

^D Consult the list of **courses approved for this subcategory**. Any course may be chosen.

^E Course requires prerequisite.

^F Depending on career choice and transfer institution, BIOL228, COMM105, COMM110, CHEM221, CHEM222, CHEM242, BIOL181, BIOL182, BIOT105, BIOT125, MATH115, PHYS106, PHYS107, PSYC180, PSYC181, PSYC200, SOCI120, or courses in Quantitative Literacy, Arts/Humanities, and Social Sciences.

^G HLTH120N may be substituted.

¹ Satisfies Arts/Humanities.

² Satisfies Critical Thinking.

³ Satisfies Diversity.

⁴ Satisfies Information Literacy.

⁵ Satisfies Oral Communication.

⁶ Satisfies Quantitative Literacy.

⁷ Satisfies Scientific Literacy.

⁸ Satisfies Social Sciences.

⁹ Satisfies Technological Competence.

¹⁰ Satisfies Writing.

Completion of non-degree major is not available in this program.

Credits exceeding the required minimum cannot be used to satisfy required credits in other course requirements.

Biotechnology

ASSOCIATE OF APPLIED SCIENCE

OCCUPATIONAL MAJOR

Science, Technology, Engineering & Mathematics Department

Founders 110 • phone (215) 968-8305

Curriculum Code No. **2119**

A graduate of the program can expect to find entry-level employment as an industrial or academic biotechnology technician.

Graduates of this program are able to

- operate, calibrate, and maintain standard biotechnology lab equipment.
- perform basic biotechnology processes in a safe and aseptic manner.
- prepare, culture, and maintain cell cultures.
- employ methods to detect, purify, and characterize DNA and protein.
- collect, graph, interpret, and present data.
- write reports and maintain lab books and equipment logs.

DEGREE COURSE REQUIREMENTS

Course	Credits
<u>BIOL121</u> Biological Principles I ^C	4
<u>BIOL228</u> Microbiology ^C	4
<u>BIOT105</u> Introduction to Biotechnology ⁷	4
<u>BIOT125</u> Biotechnology Methods and Techniques ^{C,9}	4
<u>BIOT225</u> Bioprocessing Science ^C	4
<u>CHEM121</u> Chemistry I ^{A,C,6,7}	4
<u>CHEM122</u> Chemistry II ^C	4
<u>CISC110</u> Introduction to Information Systems	3
<u>COLL101</u> College Success Seminar	1
<u>COMM110</u> Effective Speaking ^{A,4,5}	3
<u>COMP110</u> English Composition I ^{A,C,2,10}	3
<u>COMP114</u> Technical Writing ^C	3
<u>MATH115</u> Elementary Statistics ^{A,C,6}	3
<u>BIOL280</u> Cooperative Education: Biotechnology ^C OR Science Elective	3-4
Math ^{A,B,C} or Science Elective ^{B,C}	8

Course	Credits
Diversity/Arts/Humanities ^{D,1,3}	3
Social Sciences ^{E,8}	3
Total Credits	61-62

^A Placement testing required.

^B Choose from MATH120, MATH122, MATH125, MATH140, MATH 141, BIOL122, BIOL181, BIOL182, CHEM221, CHEM222, NEUR121, NEUR122, PHYS121.

^C Course requires prerequisite.

^D Choose from AMSL110, AMSL111, ARBC110, ARBC111, CHNS110, CHNS111, FREN110, FREN111, FREN201, FREN202, FREN250, FREN251, GRMN110, GRMN111, GRMN201, GRMN202, GRMN250, GRMN251, HIST111, HIST112, HIST113, HIST114, HIST151, HIST152, HUMN111, HUMN112, HUMN113, HUMN114, HUMN120, ITAL110, ITAL111, ITAL201, ITAL202, ITAL250, ITAL251, JPNS101, JPNS102, LITR234, LITR235, LITR254, LITR255, LITR261, LITR271, LITR273, LITR275, LITR278, PHIL125, SPAN110, SPAN111, SPAN201, SPAN202, SPAN250, SPAN251.

^E **Choose from Approved List.**

¹ Satisfies Arts/Humanities.

² Satisfies Critical Thinking.

³ Satisfies Diversity.

⁴ Satisfies Information Literacy.

⁵ Satisfies Oral Communication.

⁶ Satisfies Quantitative Literacy.

⁷ Satisfies Scientific Literacy.

⁸ Satisfies Social Sciences.

⁹ Satisfies Technological Competence.

¹⁰ Satisfies Writing.

Biotechnology

CERTIFICATE MAJOR

Science, Technology, Engineering & Mathematics Department

Founders 110 • Phone (215) 968-8305

Curriculum Code No. **3186**

The strength and continued growth of the Biotechnology industry in the Philadelphia metropolitan area has created a need for technicians with cell culture expertise. Students completing the certificate will be prepared for employment as skilled technicians in biotechnology, biomanufacturing, pharmaceutical, and academic laboratories. Workers currently employed as biotechnology technicians can benefit by enhancing their skill sets.

Graduates of this program are able to

- perform basic lab procedures common to biotechnology laboratories
- operate and maintain standard laboratory equipment
- aseptically culture and maintain cell cultures
- perform advanced techniques in biomanufacturing

CERTIFICATE COURSE REQUIREMENTS

Course	Credits
BIOT125 Biotechnology Methods and Techniques ^B	4
BIOT225 Bioprocessing Science ^B	4
CHEM121 Chemistry I ^{A,B}	4
Math/Science Elective ^{B,C}	4
Total Credit Hours	16

^A Placement testing required.

^B Requires prerequisite.

^C Choose from MATH120, MATH122, MATH125, MATH140, MATH141, BIOL121, BIOL122, BIOL181, BIOL182, BIOL220, BIOL228, BIOT105, CHEM122, CHEM221, CHEM222, CHEM242, NEUR121, NEUR122, PHYS121, PHYS122, SCIE105.

Since the academic and employment backgrounds of students vary, all students planning to complete this certificate program must meet with a department representative to devise a sequence of courses to meet their academic need.

Brewing & Fermentation Science

ASSOCIATE OF APPLIED SCIENCE

OCCUPATIONAL MAJOR

Science, Technology, Engineering & Mathematics Department

Founders 110 • phone (215) 968-8305

Curriculum Code No. **2194**

The Associate of Applied Science in Brewing and Fermentation Science program prepares students for employment within the brewing and/or fermentation industries.

Graduates of this program are able to

- describe and apply the biochemistry and microbiology principles that convert fermentable sugars into beer;
- communicate and work effectively with management, staff, and customers in a production brewing environment;
- understand and apply the technological and manufacturing processes required for brewing, and perform cost analysis of processing raw materials into finished product in order to calculate profit margins;
- maintain safe brewing and fermentation practices;
- explain the legal requirements associated with the selling and distribution of beer;
- demonstrate knowledge of the practical considerations that must be addressed to satisfy the requirements of regulatory agencies overseeing breweries, such as food safety, brew house safety, environmental compliance, and labeling; and
- identify and solve problems related to microbial, chemical, and physical threats using appropriate tests, and determine origin, type, prevention, and elimination of standard off-flavors in contaminated samples.

Notes: Students in this program of study must be at least 21 years of age prior to registering for BRFS201 and BRFS280 as these courses involve beer production. Interested students who will not be 21 years of age prior to registration for these courses should consider adding an additional complementary major (e.g. Business Administration, Biology, Chemistry, etc.).

Some Brewing & Fermentation Science coursework will require regular travel to local brewing facilities.

DEGREE COURSE REQUIREMENTS

Course	Credits
<u>BIOL101</u> Biological Science I ^{A,C,7}	4
<u>BIOL228</u> Microbiology ^{C,E}	4
<u>BRFS101</u> Introduction to Brewing Science ^{A,C,7}	3
<u>BRFS102</u> Brewing Analysis & Quality Assurances ^C	3
<u>BRFS201</u> Practical Malting & Brewing ^C	3
<u>BRFS280</u> Brewing & Fermentation Science Internship ^C	3

Course	Credits
CHEM101 Chemistry A ^{A,C,2,6,7}	4
CISC110 Introduction to Information Systems ^{A,C,9}	3
COLL101 College Success Seminar	1
COMM110 Effective Speaking ^{A,C,4,5}	3
COMP110 English Composition I ^{A,C,2,10}	3
HOSP106 Sanitation & Safety	2
MGMT100 Introduction to Business ^{2,3,4,8}	3
MGMT135 Business Communications ^{A,C,2,4,10}	3
Arts/Humanities ^{B,1}	3
Brewing & Fermentation Science Electives ^{C,F}	12-16
Mathematics Elective ^{A,C,D,6}	3-4
Total Credits	60-65

^A Placement testing required.

^B Select from one of the **approved Arts/Humanities courses** in the catalog.

^C Course requires prerequisite.

^D Students may select from the following: MATH101; MATH103; MATH110; MATH115; MATH117; MATH118; MATH120; MATH122; MATH125; or MATH140.

^E BIOL101 (C or better) and permission from the Department of STEM required prior to registration.

^F Students may select from the following: BIOT105; BIOT125; BIOT225; CHEM102; CHEM242; MATH115; MATH117; MATH118; MATH120; MATH122; MATH125; MATH140; or PHYS106.

¹ Satisfies Arts/Humanities.

² Satisfies Critical Thinking.

³ Satisfies Diversity.

⁴ Satisfies Information Literacy.

⁵ Satisfies Oral Communication.

⁶ Satisfies Quantitative Literacy.

⁷ Satisfies Scientific Literacy.

⁸ Satisfies Social Sciences.

⁹ Satisfies Technological Competence.

¹⁰ Satisfies Writing.

Business

ASSOCIATE OF APPLIED SCIENCE

OCCUPATIONAL MAJOR

The Business degree is for individuals and entrepreneurs who are interested in developing the knowledge and skills that are essential in the current global business environment. This program prepares graduates for entry-level positions in management, sales, and marketing, as well as to start their own business or take over an existing business.

This major is primarily designed for job preparedness. Students who are considering transferring to a four-year college should be aware that decisions on transferability of courses are made by the four-year colleges and differ from school to school. Students should contact the Transfer Services Office early in their academic program to determine which courses will transfer to the college of their choice.

Department of Business and Innovation

Grupp 401 • Phone (215) 968-8227

Curriculum Code No. **2204**

Graduates of this program are able to

- apply management theories to management practice;
- use technology to complete common business functions, processes, and communication;
- analyze the impact of forces in the global business environment on the organization and its stakeholders;
- exhibit competent and effective communication skills; and
- demonstrate an understanding of the marketing practices and processes related to the successful operation of an organization.

Degree Course Requirements

Course	Credits
ACCT103 Introductory Accounting ^E	3
OR	
ACCT105 Financial Accounting ^{A,E}	4

Course	Credits
<u>CISC110</u> Introduction to Information Systems ^{A,E}	3
<u>COLL101</u> College Success Seminar	1
<u>COMM110</u> Effective Speaking ^{A,E,4,5}	3
<u>MGMT100</u> Introduction to Business ^{2,3,4,8}	3
<u>MGMT130</u> Business Law	3
OR	
<u>MGMT180</u> Legal Environment of Business	3
<u>MGMT135</u> Business Communication ^{A,E,2,4,10}	3
<u>MGMT230</u> Principles of Management ^E	3
<u>MGMT280</u> Management Internship ^E	3
OR	
<u>MKTG280</u> Marketing Internship ^E	3
<u>MKTG215</u> Principles of Marketing ^E	3
Accounting Elective ^{D,E}	3/4
Arts/Humanities Elective ^{B,1}	3
Business Elective ^C	21
Quantitative Literacy ^{A,E,F,6}	3/4
Scientific Literacy ^{A,B,7}	3/4
Total Credit Hours	61-65

^A Placement testing required.

^B Consult the *list of courses approved for this subcategory*. Any course may be chosen.

^C Any course with a prefix of ACCT, HOSP, MGMT, MKTG, or ECON may be chosen.

^D Any ACCT course may be chosen.

^E Course requires prerequisite.

^F Choose one: MGMT120, MATH115, MATH117, MATH118, MATH120.

- ¹ Satisfies Arts/Humanities
- ² Satisfies Critical Thinking
- ³ Satisfies Diversity
- ⁴ Satisfies Information Literacy
- ⁵ Satisfies Oral Communication
- ⁶ Satisfies Quantitative Literacy
- ⁷ Satisfies Scientific Literacy
- ⁸ Satisfies Social Sciences
- ⁹ Satisfies Technological Competence
- ¹⁰ Satisfies Writing

Business Administration

ASSOCIATE OF ARTS



This program is accredited by the Accreditation Council for Business Schools and Programs (ACBSP).

TRANSFER MAJOR

Decisions on the transferability of courses are made by the four-year colleges and differ from school to school. Students enrolled in this major should contact the Transfer Services Office early in their academic program to determine which courses will transfer to the college of their choice.

Department of Business and Innovation

Grupp 401 • Phone (215) 968-8227

Curriculum Code No. **1009**

This program of study prepares students for upper-division course work leading to a bachelor's degree in Business Administration. The program parallels the first two years of study required by similar programs offered at baccalaureate institutions and universities. Students select the area of concentration best suited to their interests and aptitudes.

Graduates of this program are able to

- demonstrate an understanding of the functions of business;
- research and apply business problem solving and decision making in the context of the larger social and economic environment;

- employ tools and skills necessary to solve business and organizational problems; and
- apply the necessary skills to communicate and lead effectively.

DEGREE COURSE REQUIREMENTS

Course	Credits
<u>ACCT105</u> Financial Accounting ^E	4
<u>ACCT106</u> Managerial Accounting ^E	4
<u>CISC110</u> Introduction to Information Systems ^{E,9}	3
<u>COLL101</u> College Success Seminar	1
<u>COMP110</u> English Composition I ^{A,E,2,10}	3
<u>COMP111</u> English Composition II ^{E,2,4,10}	3
OR	
<u>MGMT135</u> Business Communication ^{E,10}	3
<u>COMM110</u> Effective Speaking ^{E,4,5}	3
<u>ECON111</u> Principles of Economics: Macro ^{2,3,8}	3
<u>ECON112</u> Principles of Economics: Micro ²	3
<u>MATH115</u> Elementary Statistics ^{E,2,6}	3
<u>MKTG215</u> Principles of Marketing ^E	

Course	Credits
<u>MGMT100</u> Introduction to Business ^{2,3,4,8}	3
<u>MGMT130</u> Business Law	3
OR	
<u>MGMT180</u> Legal Environment of Business	3
<u>MGMT230</u> Principles of Management ^E	3
<u>MATH118</u> Business Calculus ^{E,6}	3
OR	
<u>MATH140</u> Calculus I ^{E,6}	3/4
ARTS/HUMANITIES ^{B,1}	3
Laboratory Science ^{C,7}	4
Electives ^D	9
Total Credit Hours	61/62

^A Placement testing required.

^B Consult the list of courses approved for this subcategory. Any course may be chosen.

^C Any of the following may be chosen: BIOL101, BIOL 181, CHEM101, PHYS106, SCIE103, SCIE104, SCIE105

^D Pre-college level courses do not meet this requirement.

^E Course requires prerequisite.

¹ Satisfies Arts/Humanities

² Satisfies Critical Thinking

³ Satisfies Diversity

⁴ Satisfies Information Literacy

⁵ Satisfies Oral Communication

⁶ Satisfies Quantitative Literacy

⁷ Satisfies Scientific Literacy

⁸ Satisfies Social Sciences

⁹ Satisfies Technological Competence

¹⁰ Satisfies Writing

Business Analytics

CERTIFICATE PROGRAM

Department of Business and Innovation

Grupp 401 • Phone (215) 968-8227

Curriculum Code No. **3202**

This certificate program is designed to provide students with the skills and knowledge to apply analytic tools to real-world business contexts for improved decision-making and problem-solving. It prepares students who are currently employed and who need their skills enhanced, as well as those who are seeking employment where analytical skills are required.

Graduates of this program are able to

- Demonstrate an understanding of the foundational elements of business analytics;
- Apply analytic tools and data management techniques effectively;
- Utilize business information systems and data to make better decisions; and
- Convey analytical results and insights effectively.

CERTIFICATE REQUIREMENTS

Course	Credits
<u>COLL101</u> College Success Seminar	1
<u>CISC110</u> Introduction to Information Systems ^{A,B}	3
<u>CISC127</u> Quantitative Data Analysis ^{A,B}	3
<u>CISC215</u> Database Design and Application Development ^A	3
<u>MATH115</u> Elementary Statistics ^{A,B}	3
<u>MATH215</u> Elementary Statistics II ^A	3

Course	Credits
<u>MGMT100</u> Introduction to Business	3
<u>MGMT122</u> Introduction to Business Analytics ^A	3
<u>MGMT135</u> Business Communication ^{A,B}	3
Total Credit Hours	25

^A Course requires prerequisites and/or co-requisites

^B Placement testing required

Chemistry

ASSOCIATE OF SCIENCE

TRANSFER MAJOR

Decisions on the transferability of courses are made by the four-year colleges and differ from school to school. Students enrolled in this major should contact the Transfer Services Office early in their academic program to determine which courses will transfer to the college of their choice.

Science, Technology, Engineering & Mathematics Department

Founders 110 • Phone 968-8305

Curriculum Code No. **1004**

This major provides a broad but quantitative understanding of matter and the physical and chemical transformations of matter, based on an understanding of chemical, physical, and mathematical principles. The major is for students planning to transfer to baccalaureate majors in chemistry, chemical engineering, and other fields requiring an emphasis on chemistry such as environmental science, forensic science, and oceanography. Students planning to enter medical school could also enter this major and select additional courses in biology. Students completing this degree, although typically transferring to a Bachelor's degree program, may also be employed as Laboratory Technicians or Assistants.

Prospective students with inadequate academic preparations should be aware that they may need additional time to acquire the necessary academic background. Prerequisites and corequisites for the required courses must be followed.

Graduates of this program are able to:

- demonstrate an understanding of chemical, physical and mathematical principles as pertaining to the study of matter;
- compute with proficiency as to be able to obtain correct numerical solutions to chemistry problems;
- analyze and make reasoned judgments dealing with chemistry problems;
- develop a chemical knowledge and be able to apply it to other disciplines, such as biology, environmental science, engineering, pharmacy, health sciences, etc.; and
- demonstrate proficiency in laboratory skills as they pertain to: chemical information, the safe handling, use and disposal of chemicals; synthetic procedures including isolation, purification and structure elucidation of obtained products; stoichiometry and the use of instrumentation; and writing of laboratory notebooks and reports in accordance with current scientific journals styles.

DEGREE COURSE REQUIREMENTS

Course	Credits
<u>CHEM121</u> Chemistry I ^{A,E,6,7}	4
<u>CHEM122</u> Chemistry II ^E	4
<u>CHEM221</u> Organic Chemistry I ^E	5
<u>CHEM222</u> Organic Chemistry II ^{E,9}	5
<u>COLL101</u> College Success Seminar	1
<u>COMP110</u> English Composition I ^{A,E,2,10}	3
<u>COMP111</u> English Composition II ^{E,2,4,10}	3

Course	Credits
MATH140 Calculus I ^{A,E,6}	4
MATH141 Calculus II ^E	4
PHYS121 Physics I ^{E,7}	4
PHYS122 Physics II ^E	4
Chemistry Electives ^B	7
COMM110 Effective Speaking ^{E,4,5}	3
Diversity/Arts/Humanities ^{C,1,3}	3
Elective ^F	4
Social Sciences ^{D,8}	3
Total Credit Hours	61

^A Placement testing required.

^B Any Chemistry course above CHEM121, other than those required. All academically qualified chemistry students are urged to enroll in CHEM280. You may choose BIOL121, BIOL122, BIOL181, BIOL182, BIOT125, MATH 242, MATH 250, or MATH 260.

^C Choose from HUMN111, HUMN112, HUMN113, HUMN114, HIST151, HIST152, PHIL125

^D Consult the list of [courses approved for this category](#).

^E Course requires prerequisite.

^F Strongly recommended: CHEM242, BIOT105.

¹ Satisfies Arts/Humanities.

² Satisfies Critical Thinking.

³ Satisfies Diversity.

⁴ Satisfies Information Literacy.

⁵ Satisfies Oral Communication.

⁶ Satisfies Quantitative Literacy.

⁷ Satisfies Scientific Literacy.

⁸ Satisfies Social Sciences.

⁹ Satisfies Technological Competence.

¹⁰ Satisfies Writing.

Credits exceeding the required minimum cannot be used to satisfy required credits in other course requirements.

Cinema Video Production

ASSOCIATE OF FINE ARTS

TRANSFER MAJOR

Arts & Communication Department

Hicks Art Center 125 • Phone (215) 968-8425

Curriculum Code No. **1181**

The Cinema Video Production transfer major combines film and video production. It permits students to explore video and film production media, journalistic media and educational media as both communication and art forms. The program includes a variety of electives that allow students to tailor the program to their needs and interests.

This program offers a basic examination of the art and the processes of motion picture film making and video production. Though designed as a transfer major, graduates of the program should qualify for entry-level positions in the motion picture and electronic media industries in areas such as radio and television broadcasting, cable television systems, corporate video, multimedia development and production, cinematography, editing, sound recording, and mixing. Graduates will also have job skills in related industries such as sales, service, promotion, distribution, multimedia design and advertising.

Graduates of this program are able to

- read about, write about, and analyze films;
- demonstrate an understanding and use of the methods and materials associated with studio and field video capture, editing, digital audio, and production;
- participate in the planning, production, and/or directing of film, video and multimedia productions; and
- prepare and present a formal, professional-quality portfolio of work which may be used to apply for admission to a four-year college or entry-level professional employment*.

* In preparing and presenting a portfolio in VAMM250, students currently need an array of digital skills, such as, but not limited to, media capture, manipulation, and presentation. Students take several required digital courses (e.g. VACV140, VACV137, VACV230) and then reinforce/develop their digital skills across the major. Essential digital competencies associated with portfolio preparation and presentation are assessed within this course.

Note: Studio courses can be expensive. Lab fees may be required

DEGREE COURSE REQUIREMENTS

Course	Credits
<u>COLL101</u> College Success Seminar	1
<u>COMP110</u> English Composition I ^{A,C,10}	3
<u>COMP111</u> English Composition II ^{C,2,4,10}	3
<u>VACV130</u> Media Scriptwriting	3
<u>VACV135</u> Video Studio Production I	3
<u>VACV137</u> Sound Design for Film and Video	3
<u>VACV140</u> Digital Editing ¹	3
<u>VACV141</u> The Art of Independent Cinema ¹	3
<u>VACV142</u> The Art of Theatrical Cinema ¹	3
<u>VACV145</u> Filmmaking	3
<u>VACV230</u> Motion Graphics ^C	3
<u>VACV231</u> Video Field Production ^C	3
<u>VACV238</u> Cinematography ^C	3

Course	Credits
<u>VAMM250</u> Digital Arts Portfolio Seminar ^{C,5,9}	3
<u>VAPH110</u> Digital Photography Fundamentals	3
<u>VAPH211</u> Studio and Lighting Fundamentals	3
Mathematics/Science ^{A,B,6,7}	3/4
Social Science/Diversity ^{E,3,8}	3
Program Electives (<i>Choose from list</i>)	9
Total Credit Hours	61/62

PROGRAM ELECTIVES (SELECT AT LEAST 9 CREDITS):

Course	Credits
<u>COMT103</u> Introduction to Acting	3
<u>COMT106</u> Introduction to Improvisational Performance	3
<u>JOUR175</u> News Reporting and Writing	3
<u>MUSC124</u> Music Technology I	3
<u>VACV280</u> Cooperative Education - Media ^C	3
<u>VAPH151</u> Introduction to Photography ¹	3
<u>VAPH157</u> Photography II ^C	3

Course	Credits
<u>VAPH210</u> Digital Photography II ^C	3
<u>VAPH257</u> Large Format Photography ^C	3
<u>VAGD102</u> Illustration: Drawing and Digital ^C	3
<u>VAMM100</u> Digital Imaging	3
<u>VAMM110</u> Web Design ^C	3
<u>VAMM130</u> 3D Digital Modeling Concepts ^C	3
<u>VAMM209</u> Multimedia Concepts I ^C	3
<u>VAMM230</u> 3D Digital Animation ^C	3

^A Placement testing required.

^B Any of the following may be chosen: SCIE101, SCIE102, SCIE104, CHEM101

^C Course requires prerequisite.

^D Any Program Elective course from the list.

^E Any of the following may be chosen: COMM111, ECON111, GEOG110, MUSC103, POLI111, PSYC110, SOCI110.

¹ Satisfies Arts/Humanities.

² Satisfies Critical Thinking.

³ Satisfies Diversity.

⁴ Satisfies Information Literacy.

⁵ Satisfies Oral Communication.

⁶ Satisfies Quantitative Literacy.

⁷ Satisfies Scientific Literacy.

⁸ Satisfies Social Sciences.

⁹ Satisfies Technological Competence.

¹⁰ Satisfies Writing.

Note: Studio courses can be expensive. Lab fees may be required.

Bucks County Community College is an accredited institutional member of the National Association of Schools of Arts and Design.

Credits exceeding the required minimum cannot be used to satisfy required credits in other course requirements.

Bucks County Community College is a Blackmagic Design training partner for DaVinci Resolve 15.3.1. Students who successfully complete the course are prepared to take the Blackmagic certification test and, upon passing, become Certified Resolve 15.3.1 users.

DaVinci Resolve 15.3.1 is an advanced editing, color correction and audio post-production solution for feature films, television shows, and commercials. Its workflow allows you to switch between tasks with a single click without needing to translate projects between different software programs.

Communication Studies

ASSOCIATE OF ARTS

TRANSFER MAJOR

Decisions on the transferability of courses are made by the four-year colleges and differ from school to school. Students enrolled in this major should contact the Transfer Services Office early in their academic program to determine which courses will transfer to the college of their choice.

Arts & Communication Department:

Hicks 125 • Phone (215) 968-8425

Curriculum Code: **1120**

Communication is an essential skill highly valued by most employers. In today's ever-changing world, effective communication will significantly affect your relationships and career. Students in the Communication Studies major will observe, interpret, and evaluate human communication in a wide variety of contexts. By exploring a variety of courses in the major, students will develop competency in oral and written communication, critical thinking and problem-solving, and presentations and teamwork. The program is designed to encourage students to explore other areas of interest relevant to communication while also learning how other academic disciplines can provide insight into your communication studies.

This program prepares students in various communication fields for occupations such as advertising, public relations, marketing, international relations, technical writing, broadcast news analysts, reporters and correspondents, theatre or performance, film and video editing or camera operators.

The degree is designed for students preparing to enter a program leading to a baccalaureate degree at a four-year college or university.

Graduates of this program can:

- create messages appropriate to the audience, purpose, and context;
- describe the basic theories and principles of communication in various contexts;
- apply the basic theories and principles of communication to one's lived experience in various contexts;
- apply intercultural competence-related skills in communication;
- describe the ethical principles in decision making and communication. *

*To fulfill the technological competence requirement, students demonstrate proficiency in accessing, creating, and presenting a digital visual aid appropriate for public presentation in COMM240.

Students who plan to transfer into a Communications major at a four year college will find this major well suited to their individual needs.

DEGREE COURSE REQUIREMENTS

Course	Credits
<u>COLL101</u> College Success Seminar	1
<u>COMM101</u> Communication Theory	3
<u>COMM105</u> Interpersonal Communication ^{2,3,8}	3
<u>COMM110</u> Effective Speaking ^{A,4,5}	3
<u>COMM111</u> Media and Society ^{2,3,8}	3
<u>COMM215</u> Intercultural Communication ^{2,3}	3
<u>COMM240</u> Persuasive Communication ^{D,2,4,9}	3
<u>COMP110</u> English Composition I ^{A,2,10}	3
<u>COMP111</u> English Composition II ^{D,2,4,10}	3
<u>COMT101</u> Introduction to Theatre ¹	3
<u>MATH115</u> Elementary Statistics ^{A,D,2,6}	3
<u>SOCI110</u> Introduction to Sociology ^{2,3,8}	3
Cinema Elective: <u>VACV141</u> or <u>VACV142</u> ¹	3
Social Science ^B	3
Electives ^F	6

Course	Credits
Foreign Language and/or Literature ^B	3
College Level Science ^{A,E,7}	4
Program Electives ^C (<i>choose from list</i>)	12
Total Credit Hours	62

PROGRAM ELECTIVES (SELECT AT LEAST 12 CREDITS):

Course	Credits
<u>COMT103</u> Introduction to Acting	3
<u>COMT106</u> Introduction to Improvisational Performance	3
<u>COMT203</u> Acting II ^D	3
<u>COMT206</u> Improvisational Performance II ^D	3
<u>JOUR155</u> Advertising Copywriting	3
<u>JOUR175</u> News Reporting and Writing ^D	3
<u>MGMT145</u> Negotiation and Conflict Resolution	3
<u>MKTG200</u> Advertising	3
<u>MKTG230</u> Social Media Marketing	3
<u>PSYC105</u> Introduction to Group Dynamics	3

Course	Credits
VACV130 Media Scriptwriting ^D	3
VACV135 Video Studio Production I ^D	3
VACV137 Sound Design for Film and Video	3
VACV140 Digital Video Editing	3
VACV145 Filmmaking	3
VAPH110 Digital Photography Fundamentals	3
VAMM100 Digital Imaging	3
VAMM110 Web Design ^D	3

^A Placement testing required.

^B Consult the list of [courses approved for this subcategory](#). Any course may be chosen.

^C Consult the list of Program Electives.

^D Course requires pre-requisites.

^E Choose from BIOL101, BIOL181, CHEM101, CHEM121, PHYS106, SCIE103, SCIE104, SCIE105.

^F [Pre-college level courses](#) do not meet this requirement.

¹ Satisfies Arts/Humanities

² Satisfies Critical Thinking

³ Satisfies Diversity

⁴ Satisfies Information Literacy

⁵ Satisfies Oral Communication

⁶ Satisfies Quantitative Literacy

⁷ Satisfies Scientific Literacy

⁸ Satisfies Social Sciences

⁹ Satisfies Technological Competence

¹⁰ Satisfies Writing

Computed Tomography

ABOUT THE PROGRAM

The Computed Tomography Certificate program prepares the post-graduate registered radiologic technologist to use x-rays and computed radiologic technology to produce cross-sectional anatomical images of the human body. Computed Tomography (CT) technologists operate CT scanners, picture archiving and communication systems and related equipment.

The Computed Tomography Certificate program is a two-semester on-line didactic course with a clinical practicum experience. The Computed Tomography Certificate Program is designed to provide the working Radiologic Technologist with the theoretical background and documented clinical experience necessary to sit for the Computed Tomography registry examination offered by the American Registry of Radiologic Technologist (ARRT).

TECHNICAL PERFORMANCE STANDARDS

The admissions policies of the Computed Tomography Program do not discriminate on the basis of sex, race, creed, religion, marital status, age or mental/physical handicaps. The following is an outline of performance standards relative to Computed Tomography. In addition to the academic requirement for the Computed Tomography Program, all applicants must be able to:

- Communicate to the patient in order to converse and instruct
- Hear a patient speak in a normal tone from a distance of 20 feet.
- Observe the patient in order to assess the patient's condition or needs from a distance of 20 feet.
- Read the patient medical chart and/or physician orders.
- Transport, move, lift or transfer patients from a wheelchair or litter to an x-ray table or to a patient's bed;
- Move, adjust and manipulate a variety of x-ray equipment with respect to the patient and image receptor according to established procedures and standards of speed and accuracy (to include mobile equipment) and;
- Physically place patients in proper positions for x-ray examinations according to established procedures and standards of speed and accuracy.
- Handling stressful situations related to technical, procedural or patient care situations; providing physical and emotional support to patients during procedures;
- Physically be able to administer emergency care including performing CPR
- Visually reviewing and evaluating radiographic images to identify shades of gray, proper patient positions, proper exposure factors, and other appropriate technical qualities.

PROGRAM MISSION

The mission of the Computed Tomography Program is to provide each student with the instruction, skills, and learning experiences to become a compassionate, knowledgeable, and competent entry-level Computed Tomography Technologist.

PROGRAM GOALS

1. Function as competent, entry-level professionals.
 1. Students will be able to adequately perform procedures at entry level competence.
 2. Students will select appropriate technical factors for quality patient exams.
 3. Students will demonstrate proper radiation practices.
2. Demonstrate appropriate, professional communication skills.
 1. Students will demonstrate effective communication strategies during the clinical experience.
 2. Students will practice written communication skills
3. Develop and practice effective problem-solving skills and critical thinking skills.
 1. Students will be able to adequately perform non-routine procedures at entry level competence.
 2. Students will be able to adequately alter technical factors in non-routine situations.
4. Conduct him/herself in a professional manner.
 1. Students will demonstrate professional behavior
 2. Students will recognize the benefits of professional development

ADMISSION PROCEDURES

Admission to the Computed Tomography Certificate program is open only to current Radiologic Technologists certified by the American Registry of Radiologic Technologist (ARRT) or Nuclear Medicine Technologist certified by Nuclear Medicine Technologist Certification Board (NMTCB). To apply for the Computed Tomography Certification Program, please complete the following steps:

1. **Submit an application to Bucks County Community College.**
2. **Submit previous college transcripts, if applicable, for evaluation by the Admissions Department.**
3. Submit completed **Computed Tomography Application**
4. Submit current ARRT credential card or current NMTCB card via email to **Program Director of Radiography.**

Applications will be accepted from May 1st- June 15th of each year. Accepted students will be notified by July 1st.

Program Director of Radiography:

Colleen Cardilla

267-685-4821
colleen.cardilla@bucks.edu

CLINICAL EDUCATION REQUIREMENTS

The number students accepted into clinical education ([RADI310](#) and [RADI325](#)) for computed tomography will be equal to the number of available clinical spaces.

Once accepted into the Computed Tomography Clinical Courses, students will be required to:

1. Purchase a Computed Tomography uniform from the preferred uniform vendor.
2. Assume all responsibility for transportation to and from the clinical sites assigned.
3. Obtain and maintain current CPR certification.
4. Obtain and maintain Immunization records.
5. Complete an FBI Fingerprint Criminal Background Check, a PA Criminal Background check, Child Abuse clearance and drug screening (until clearance is received, program acceptance is provisional and may be rescinded).
6. Show proof of health insurance coverage for the student.

CERTIFICATE REQUIREMENTS

- [Computed Tomography certificate requirements](#)

Computer Hardware Installation and Maintenance

CERTIFICATE MAJOR

Science, Technology, Engineering & Mathematics Department

Founders 110 • phone (215) 968-8305

Curriculum Code No. **3162**

This certificate prepares the student to sit for two industry standard, vendor independent certifications, the A+ certification and the Network+ certification. Students receiving their certificates possess the knowledge, skills, and customer relations experience needed to enter the computer or network technician area, as PC support technicians, help desk technicians, and PC installer. Students who complete this program may be prepared to sit for industry certification exams, such as those offered by Microsoft, Cisco, and CompTIA.

Graduates of this program are able to:

- sit for the A+ Certification and Network + Certification examination;

- install Software and Hardware;
- support users in a PC environment; and
- troubleshoot Hardware and Software Problems.

CERTIFICATE COURSE REQUIREMENTS

Course	Credits
<u>CISC128</u> Comparative Operating Systems	4
<u>CISC143</u> Essentials of Networking ^A	4
<u>CISC201</u> Managing and Maintaining the PC ^A	4
<u>CISC235</u> Networking Devices ^A	4
<u>COLL101</u> College Success Seminar	1
<u>COMM105</u> Interpersonal Communication	3
Total Credit Hours	20

^A Course requires prerequisite.

Since the individual circumstances and backgrounds of students vary, all students planning to complete this certificate program must meet with their assigned academic advisor to develop a planned sequence of courses to meet their individual needs.

NOTE: Computer classes may be expensive. Purchase of equipment may be required.

Computer Networking Technology

ASSOCIATE OF APPLIED SCIENCE

OCCUPATIONAL MAJOR

Science, Technology, Engineering & Mathematics Department

Founders 110 • phone (215) 968-8305

Curriculum Code No. **2136**

This associate degree major enables graduates to qualify for entry-level advanced positions in computer communications. Major requirements can be met in a two academic year period of full-time study. Graduates might be employed in positions with job titles such as network administrator, network technician, field service engineer, or related occupations. Students who complete this program may be prepared to sit for industry certification exams, such as those offered by Microsoft, Cisco, and CompTIA.

Graduates of this program are able to

- install, maintain, and troubleshoot modern network hardware and software;
- design, implement and administer the user's network environment - including file sharing and printing; and
- devise a network security plan using modern Network Operating Systems, technologies and protocols.

DEGREE COURSE REQUIREMENTS*

Course	Credits
<u>COLL101</u> College Success Seminar	1
<u>COMM110</u> Effective Speaking ^{F,5}	3
<u>MGMT100</u> Introduction to Business ^{3,4,8}	3
<u>CISC110</u> Introduction to Information Systems ^{F,9}	3
<u>CISC128</u> Comparative Operating Systems	4
<u>CISC143</u> Essentials of Networking ^{F,7}	4

Course	Credits
<u>CISC144</u> Introduction to Microsoft Desktop ^F	4
<u>CISC201</u> Managing & Maintaining the PC ^F	4
<u>CISC202</u> Network Administration ^F	4
<u>CISC244</u> Intro to Microsoft Server ^F	4
<u>CISC234</u> Topics in Networking ^F	3
<u>CISC235</u> Network Devices (CISCO) ^F	4
<u>CISC245</u> Network Security and Troubleshooting ^{F9}	4
Computing Electives ^D	6-8
Arts/Humanities ^{B,1}	3
College Level Writing ^{A,C,2,4,10}	6
College Level Mathematics ^{A,E,6}	3-4
Total Credit Hours	63-66

^A Placement testing required.

^B Consult the list of [courses approved for this category](#). Any course may be chosen.

^C Select any two of the following (with proper prerequisites): MGMT135, COMP110, COMP111, COMP114

^D Choose any CISC or SCIE206.

^E Consult an advisor. At least one course must be chosen from the following: CISC127, MATH110, MATH115, MATH117, MATH120, MATH122, MATH125 or MATH140.

^F Course requires prerequisite.

¹ Satisfies Arts/Humanities.

² Satisfies Critical Thinking.

³ Satisfies Diversity.

⁴ Satisfies Information Literacy.

⁵ Satisfies Oral Communication.

⁶ Satisfies Quantitative Literacy.

⁷ Satisfies Scientific Literacy.

⁸ Satisfies Social Sciences.

⁹ Satisfies Technological Competence.

¹⁰ Satisfies Writing.

NOTE: Computer classes may be expensive. Purchase of equipment may be required.

Computer Networking Technology

CERTIFICATE PROGRAM

Science, Technology, Engineering & Mathematics Department

Founders 110 • Phone (215) 968-8305

Curriculum Code No. **3133**

This certificate prepares students for a career position as a Network Technician, Network Administrator, Sales Support and related occupations. Upon completion of this program of study the graduate will be able to:

- plan, install, modify and troubleshoot computer networks.

Students who complete this program may be prepared to sit for industry certification exams, such as those offered by Microsoft, Cisco, and CompTIA.

CERTIFICATE COURSE REQUIREMENTS

Course	Credits
<u>CISC128</u> Comparative Operating Systems	4
<u>CISC143</u> Essentials of Networking ^A	4
<u>CISC144</u> Intro to MS Windows Professional ^A	4
<u>CISC201</u> Managing and Maintaining the PC ^A	4
<u>CISC202</u> Network Administration ^A	4
<u>CISC244</u> MS Windows Server ^A	4
<u>CISC234</u> Topics in Networking ^A	3
<u>CISC235</u> Network Devices (CISCO) ^A	4
<u>CISC245</u> Network Security and Troubleshooting ^A	4

Course	Credits
<u>COLL101</u> College Success Seminar	1
Total Credit Hours	36

^A Course requires prerequisite.

Since the individual circumstances and backgrounds of students vary, all students planning to complete this certificate program must meet with their assigned academic advisor to develop a planned sequence of courses to meet their individual needs.

Computer Science

ASSOCIATE OF SCIENCE

TRANSFER MAJOR

Decisions on the transferability of courses are made by the four-year colleges and differ from school to school. Students enrolled in this major should contact the Transfer Services Office early in their academic program to determine which courses will transfer to the college of their choice.

Science, Technology, Engineering & Mathematics Department

Founders 110 • Phone (215) 968-8305

Curriculum Code No. **1103**

This major prepares students for upper-division course work leading to a bachelor's degree in computer science. The major parallels the first two years of study required by similar majors offered at four-year colleges and universities.

Graduates of this program will be able to:

- demonstrate proficiency in mathematics at the calculus level;
- demonstrate proficiency in Program Analysis, algorithm development, coding, testing, debugging and documentation; and
- demonstrate the ability to analyze a business problem and develop data management.

DEGREE COURSE REQUIREMENTS*

Course	Credits
<u>CISC110</u> Intro to Information Systems ^F	3
<u>CISC113</u> Visual Basic Programming I	3
<u>CISC115</u> Computer Science I ^F	4
<u>CISC122</u> Computer Science II ^F	4
<u>CISC213</u> Computer Science III ^{F,9}	4
<u>CISC215</u> Database Design & Application Development ^{F,9}	3
<u>COLL101</u> College Success Seminar	1
<u>COMM110</u> Effective Speaking ^{F,4,5}	3
<u>COMP110</u> English Composition I ^{A,F,2,10}	3
<u>COMP111</u> English Composition II ^{F,2,10}	3
<u>MATH121</u> Discrete Mathematics ^F	3
<u>MATH140</u> Calculus I ^{A,F,4,6}	4
<u>MATH141</u> Calculus II ^F	4
Computer Science Electives ^B	6
Science Electives ^{C,7}	8

Course	Credits
Arts/Humanities ^{D,1,3}	3
Social Sciences ^{E,3,8}	3
Total Credit Hours	62

^A Placement testing required.

^B Choose any CISC (except CISC100), CISD, CISS, ENGR112 or SCIE206. Consult with an advisor.

^C Choose either PHYS121 and PHYS122 or CHEM121 and CHEM122.

^D Any of the following may be chosen for Arts/Humanities- (this will also fulfill the Diversity requirement): FREN110, FREN111, GRMN110, GRMN111, HIST111, HIST112, HIST151, HIST152, ITAL110, ITAL111, JPNS101, JPNS102, LITR254, LITR255, LITR261, PHIL125, SPAN110, SPAN111.

^E Any of the following may be chosen for Social Sciences (this will also fulfill the Diversity requirement): ECON111, MUSC103, POLI111, PSYC110, SOCI110, SOCI120.

^F Course requires prerequisite.

¹ Satisfies Arts/Humanities.

² Satisfies Critical Thinking.

³ Satisfies Diversity.

⁴ Satisfies Information Literacy.

⁵ Satisfies Oral Communication.

⁶ Satisfies Quantitative Literacy.

⁷ Satisfies Scientific Literacy.

⁸ Satisfies Social Sciences.

⁹ Satisfies Technological Competence.

¹⁰ Satisfies Writing.

Criminal Justice

ASSOCIATE OF ARTS

TRANSFER MAJOR

Decisions on the transferability of courses are made by the four-year colleges and differ from school to school. Students enrolled in this major should contact the Transfer Services Office early in their academic program to determine which courses will transfer to the college of their choice.

Department of Social & Behavioral Science

Founders 210A • Phone (215) 968-8270

Curriculum Code No. **1189**

The transfer major has the following objectives

- to provide students with a solid foundation in Criminal Justice as an academic field of study in preparation for transfer to a four-year institution;

- to provide students with a comprehensive understanding of the functioning of the criminal justice system's major components- police, courts, and sanctions; and
- to provide students with an understanding of the purposes, scope, and sources of criminal law

Graduates of this program are able to:

- apply their knowledge of the function and roles of the police to representative situations
- describe the function and roles of the courts and apply to representative situations
- analyze the function and roles of sanctions and apply to representative situations
- examine the constitution, elements of crimes, and defenses and apply to appropriate legal cases
- analyze evidentiary data using software programs.

Upon completion of this associate degree program, the student will be qualified to apply for a position as a police officer, sheriff deputy, or correctional officer.

DEGREE COURSE REQUIREMENTS

Course	Credits
<u>BIOL101</u> Biological Science I ^{C,E,7}	4
<u>COLL101</u> College Success Seminar	1
<u>COMM110</u> Effective Speaking ^{C,4,5}	3
<u>COMP110</u> English Composition I ^{A,C,2,10}	3
<u>COMP111</u> English Composition II ^{C,2,4,10}	3
<u>CRIJ100</u> Introduction to the Administration of Criminal Justice ^E	3
<u>CRIJ110</u> Introduction to Criminal Law ^D	3
<u>CRIJ130</u> Criminal Investigation/Forensics ^{D,9}	3

Course	Credits
<u>CRIJ160</u> Introduction to Juvenile Justice ^D	3
<u>HIST151</u> U.S. History: Young America ^{1,2,3}	3
<u>HIST152</u> U.S. History: Modern America ^{1,2,3}	3
<u>MATH101</u> Mathematical Concepts ^{A,C,H,2,6}	3
<u>POLI120</u> American State and Local Government	3
<u>PSYC110</u> Introduction to Psychology ^{A,E,2,3,8}	3
<u>SOCI110</u> Introduction to Sociology ^{2,3,8}	3
<u>SOCI150</u> Criminology	3
Criminal Justice Electives ^{D,F}	9
Electives ^G	6
Total Credit Hours	62

^A Placement testing required.

^B Pre-college level courses do not meet this requirement.

^C Course requires prerequisite.

^D Course requires prerequisite or co-requisite of CRIJ100.

^E Prerequisite: Reading Placement Test score Level 3 or Read110 (C or better), or Co-requisite: Reading Placement Test score Level 2 and enrollment in a paired section of READ110.

^F Students may choose any elective within Criminal Justice or other course outside of Criminal Justice with prior written approval from the Criminal Justice Coordinator or the Assistant Academic Dean. Criminal Justice electives include: CRIJ 115, CRIJ 116, CRIJ 120, CRIJ 140, CRIJ 210, CRIJ 220, CRIJ 250, CRIJ 260, CRIJ 275, CRIJ 280, CRIJ 285.

^G Pre-college level courses do not meet this requirement.

^H Depending on career choice and transfer institution, MATH115 may be substituted. Students should consult an academic advisor.

¹ Satisfies Arts/Humanities

² Satisfies Critical Thinking

³ Satisfies Diversity

⁴ Satisfies Information Literacy

⁵ Satisfies Oral Communication

⁶ Satisfies Quantitative Literacy

⁷ Satisfies Scientific Literacy

⁸ Satisfies Social Sciences

⁹ Satisfies Technological Competence

¹⁰ Satisfies Writing

Culinary Arts

ASSOCIATE OF ARTS

OCCUPATIONAL MAJOR

This major is primarily designed for job preparedness. Students who are considering transferring to a baccalaureate institution should be aware that decisions on transferability of courses are made by the baccalaureate institutions and differ from school to school. Students should contact the Transfer Services office early in their academic programs to determine which courses transfer to the college of their choice.

Department of Business and Innovation

Grupp 401 • Phone (215) 968-8227

Curriculum Code No. **2210**

The Culinary Arts degree prepares individuals to compete for various entry-level culinary positions in restaurants, lodging, catering or institutional foodservice or hospitality management. Graduates seek employment in positions with job titles such as cook, sous chef, chef, foodservice production supervisor, kitchen manager, garde manger chef or lead cook.

Major requirements include supervised and documented on-the-job training and educational courses that support and enhance the work experience. Students in the program choose between an internship or an apprenticeship. The internship requires the completion of two two-credit internship courses involving 240 hours of employment in the culinary field. The apprenticeship requires the completion of four one-credit culinary practicum courses and 4,000 hours of culinary work experience. Upon successful completion of the major requirements, apprentices will be awarded an Associate of Arts Degree from the College and Journeyman Cook certification from the United States Department of Labor.

Graduates of this program are able to:

- identify the tools and equipment found in the kitchen;
- safely utilize the tools and equipment found in the kitchen;
- demonstrate hot and cold food preparation tasks following industry accepted safety and sanitation rules and regulations;
- utilize a variety of recipes for all types of food products;
- demonstrate effective written and oral communication skills; and
- exhibit work habits and ethical behavior that model a food service professional.

Degree Course Requirements*

Course	Credits
<u>CISC100</u> Digital Literacy ⁹	3
OR	
<u>CISC110</u> Introduction to Information Systems ^{A,B,9}	3
<u>COLL101</u> College Success Seminar	1
<u>COMM110</u> Effective Speaking ^{A,C,4,5}	3
<u>CULN100</u> Culinary Foundations	1
<u>CULN101</u> Apprenticeship Practicum I ^{B,C}	1
<u>CULN102</u> Apprenticeship Practicum II ^{B,C}	1
<u>CULN103</u> Apprenticeship Practicum III ^{B,C}	1
<u>CULN104</u> Apprenticeship Practicum IV ^{B,C}	1
OR	
<u>CULN281</u> Culinary Internship I ^{B,D}	2
<u>CULN282</u> Culinary Internship II ^{B,D}	2
<u>CULN110</u> Basic Food Preparation	4
<u>CULN111</u> Advanced Food Preparation ^B	4
<u>CULN112</u> Garde Manger and Buffet Planning	4
<u>CULN113</u> International Cuisine ^B	4
<u>CULN114</u> Regional Cuisines of the U.S. ^B	4
<u>CULN115</u> Cooking for Special Diets ^B	4

Course	Credits
<u>CULN130</u> Baking and Decorating ¹	3
<u>CULN202</u> Food Purchasing/Techniques and Procedures ^B	3
<u>CULN203</u> Menu Planning/Costing/Design ^B	3
<u>CULN285</u> Culinary Capstone ^B	2
<u>HLTH120</u> Nutrition ^{A,2,4,7}	3
<u>HOSP100</u> Introduction to Hospitality Management	3
<u>HOSP106</u> Safety and Sanitation	2
<u>MGMT100</u> Introduction to Business ^{2,3,4,8}	3
<u>MGMT120</u> Business Mathematics ^{A,B,6}	3
<u>MGMT135</u> Business Communication ^{A,B,2,4,10}	3
Total Credit Hours	64

^A Placement testing required.

^B Course requires prerequisite.

^C Apprenticeship track.

^D Internship track.

¹ Satisfies Arts/Humanities.

² Satisfies Critical Thinking.

³ Satisfies Diversity.

⁴ Satisfies Information Literacy.

⁵ Satisfies Oral Communication.

⁶ Satisfies Quantitative Literacy.

⁷ Satisfies Scientific Literacy.

⁸ Satisfies Social Sciences.

⁹ Satisfies Technological Competence.

¹⁰ Satisfies Writing.

Culinary Arts

CERTIFICATE PROGRAM

Department of Business and Innovation

Grupp 401 • Phone (215) 968-8227

Certificate Code No. **3154**

This certificate prepares students for such careers as hotel/restaurant/catering management trainee, foodservice production assistant, shift supervisor, cook or baker.

Upon completion of this program, graduates will

- demonstrate basic hospitality industry knowledge and be proficient in the core function of their job;
- demonstrate competence in a variety of hospitality industry aspects;
- demonstrate basic written and oral communication skills;
- articulate an understanding of ethical and social issues; and
- apply their training and knowledge to related industry/business problems.

CERTIFICATE REQUIREMENTS

COURSE	CREDITS
<u>COLL101</u> College Success Seminar	1
<u>HOSP100</u> Introduction to Hospitality Management	3
<u>HOSP106</u> Safety and Sanitation	2
<u>CULN110</u> Basic Food Preparation	4
<u>CULN111</u> Advanced Food Preparation ^A	4
<u>CULN112</u> Garde Manager and Buffet Planning ^A	4
<u>CULN130</u> Baking and Decorating - Techniques and Procedures ^A	3
<u>CULN202</u> Food Purchasing/Techniques and Procedures ^A	3

COURSE	CREDITS
CULN203 Menu Planning/Costing/Design ^A	3
Total Credit Hours	27

^A Course requires prerequisite.

Since the individual circumstances and backgrounds of students vary, all students planning to complete this certificate program must meet with their assigned academic advisor to develop a planned sequence of courses to meet their individual needs.

Cybersecurity

ASSOCIATE OF SCIENCE

TRANSFER MAJOR

Decisions on the transferability of courses are made by the four-year colleges and differ from school to school. Students enrolled in this major should contact the Transfer Services Office early in their academic program to determine which courses will transfer to the college of their choice.

Science, Technology, Engineering & Mathematics Department

Founders 110 • Phone (215) 968-8305

Curriculum Code No. **1203**

This major prepares students for upper-division course work leading to a bachelor's degree in Cybersecurity, Information Technology or Information Science. The major parallels the first two years of study required by similar majors offered at four-year colleges and universities.

Students pursuing this major develop an understanding of the challenges and requirements for securing information systems.

Graduates of this program will be able to:

- evaluate the hardware and software components of modern computing environments.
- apply networking technologies to implement, monitor and manage computer networks.
- assess computer system threats, agents, and attack vectors.
- evaluate the cyber defense tools, methods, and components used to mitigate threats.
- create secure systems using security design best practices.

DEGREE COURSE REQUIREMENTS*

Course	Credits
<u>CISC115</u> Computer Science I ^{A,E}	4
<u>CISC128</u> Comparative Operating Systems	4
<u>CISC143</u> Essentials of Networking ^{E,7}	4
<u>CISC201</u> Managing and Maintaining the PC ^E	4
<u>CISC202</u> Linux Network Administration ^E	4
<u>CISC206</u> Introduction to Cybersecurity ^{E,2,9}	4
<u>CISC215</u> Database Design and Application Development ^E	3
<u>CISC235</u> Network Devices ^E	4
<u>CISC244</u> Introduction to Microsoft Server ^E	4
<u>CISC245</u> Network Security and Troubleshooting ^E	4
<u>COLL101</u> College Success Seminar	1
<u>COMM110</u> Effective Speaking ^{A,E,4,5}	3
<u>COMP110</u> English Composition I ^{A,E,2,10}	3
<u>COMP111</u> English Composition II ^{E,2,10}	3
Social Sciences ^{F,2,3,8}	3
Arts/Humanities ^{B,1}	3
College level Mathematics Electives ^{A,C,E,6}	6-8

Course

Credits

Total Credit Hours

61-63

^A Placement testing required.

^B Consult the list of courses approved for this subcategory. Any course may be chosen.

^C Complete one of the following three sub requirements: (1.) MATH 117 & MATH 118, (2.) MATH 140 & MATH 141, or (3.) MATH 140 and MATH 121.

^D An Pre-college level courses do not meet this requirement.

^E Course requires prerequisite.

^F Choose from: PSYC110; SOCI110

¹ Satisfies Arts/Humanities.

² Satisfies Critical Thinking.

³ Satisfies Diversity.

⁴ Satisfies Information Literacy.

⁵ Satisfies Oral Communication.

⁶ Satisfies Quantitative Literacy.

⁷ Satisfies Scientific Literacy.

⁸ Satisfies Social Sciences.

⁹ Satisfies Technological Competence.

¹⁰ Satisfies Writing.

Dance

ASSOCIATE OF ARTS

TRANSFER MAJOR

Decisions on the transferability of courses are made by the four-year colleges and differ from school to school. Students enrolled in this major should contact the Transfer Services Office early in their academic program to determine which courses will transfer to the college of their choice.

Department of Kinesiology and Sports Studies

Linksz Pavillion 208 • Phone (215) 968-8450

Curriculum Code No. **1206**

The Dance major prepares undergraduate students for transfer to a four-year institution to continue their dance education. Possible professions include performance, teaching practices, journalism, children's outreach programs in the arts, movement therapy, fitness instruction and art administration (studio ownership). A degree in dance enhances the student's development of dance pedagogy as well as movement research and methodologies to develop a clear understanding of the creative process and one's artistic voice.

Graduates of this program are able to:

- Explain the terminology and techniques associated with Modern Dance and Classical Ballet;
- Execute the techniques associated with Modern Dance and Classical Ballet;
- Describe careers and professional aspirations in the dance field;
- Discuss dance as a communicative art and a means of personal expression connecting choreographic meaning to historical, social, and political issues;
- Design choreography in a non-traditional dance space using unique dance environments;
- Create movement incorporating the tools of choreography and connection to the student's artistic voice; and
- Describe the process of starting a dance studio or performance company.

DEGREE COURSE REQUIREMENTS

Course	Credits
Arts/Humanities Elective ^{B,1}	3
<u>COLL101</u> College Success Seminar	1
<u>COMM110</u> Effective Speaking ^{A,C,4,5}	3
<u>COMP110</u> English Composition I ^{A,C,2,10}	3
<u>COMP111</u> English Composition II ^{C,2,4,10}	3
<u>DANC101</u> Fundamentals of Modern Dance	2
<u>DANC102</u> Beginner Modern Dance ^C	2
<u>DANC105</u> Fundamentals of Classical Ballet	2
<u>DANC106</u> Beginner Classical Ballet ^C	2
<u>DANC107</u> Freshman Seminar in Dance	3
<u>DANC201</u> Intermediate Modern Dance ^C	2
<u>DANC202</u> Advanced Modern Dance ^C	2
<u>DANC204</u> Dance History ^{A,C}	3
<u>DANC205</u> Intermediate Classical Ballet ^C	2
<u>DANC206</u> Advanced Classical Ballet ^C	2
<u>DANC207</u> Dance Composition I ^C	3

Course	Credits
<u>DANC208</u> Dance Composition II ^C	3
<u>HLTH103</u> Life & Health ²	3
<u>HLTH110</u> Responding to Emergencies ²	3
OR	
<u>KINS170</u> Individual Wellness & Fitness ²	2
<u>HLTH120</u> Nutrition ^{A,C,2,4,7}	3
OR	
<u>HLTH120N</u> Nutrition with a Registered Dietician ^{A,C,2,4,7}	3
<u>HLTH130</u> Principles & Applications – Diet & Fitness ⁹	3
<u>HLTH200</u> Introduction to Women's Health Issues ^{2,3}	3
<u>MATH101</u> Mathematical Concepts I ^{A,C,6}	3
<u>PSYC110</u> Introduction to Psychology ^{A,C,2,3,8}	3
OR	
<u>SOCI110</u> Introduction to Sociology ^{2,3,8}	3
Total Credit Hours	61-62

^A Placement testing required

^B Consult the **list of courses approved for this category.**

^C Course requires prerequisite or co-requisite.

¹ Satisfies Arts/Humanities

² Satisfies Critical Thinking

³ Satisfies Diversity

⁴ Satisfies Information Literacy

⁵ Satisfies Oral Communication

⁶ Satisfies Quantitative Literacy

⁷ Satisfies Scientific Literacy

⁸ Satisfies Social Sciences

⁹ Satisfies Technological Competence

¹⁰ Satisfies Writing

Data Science

ASSOCIATE OF SCIENCE

TRANSFER MAJOR

Decisions on the transferability of courses are made by the four-year colleges and differ from school to school. Students enrolled in this major should contact the Transfer Services Office early in their academic program to determine which courses will transfer to the college of their choice.

Science, Technology, Engineering & Mathematics Department

Founders Hall 110 • Phone (215) 968-8305

Curriculum Code No. **1205**

This major prepares students for upper-division course work leading to a bachelor's degree in Data Science. Data Science uses hardware and software to solve problems involving massive data sets, focusing on the development and implementation of efficient algorithms and data structures, as well as the emphasis on the statistical techniques used for data analysis.

Graduates of this program will be able to:

- use data science concepts and methodologies to solve problems in various contexts and to communicate those solutions effectively;
- analyze data using computing theory, languages, and algorithms, in conjunction with mathematical and statistical models; and
- demonstrate proficiency in mathematics at the calculus level.

Degree Course Requirements

Course	Credits
<u>CISC115</u> Computer Science I ^{A,C}	4
<u>CISC122</u> Computer Science II ^C	4
<u>CISC215</u> Database Design & Application Development ^C	3
<u>CISC219</u> Programming in Python ^{C,9}	4
<u>CISD201</u> Data Science ^C	3

COLL101 College Success Seminar	1
COMM110 Effective Speaking ^{A,C,4,5}	3
COMP110 English Composition I ^{A,C,2,10}	3
COMP111 English Composition II ^{C,2,4,10}	3
MATH115 Elementary Statistics ^{A,C,2,6}	3
MATH215 Elementary Statistics II ^C	3
MATH140 Calculus I ^{A,C,6}	4
MATH141 Calculus II ^C	4
MATH242 Calculus III ^C	4
Math Electives ^{C,D}	3
Science Electives ^{C,E,7}	8
PSYC110 Introduction to Psychology ^{A,C,2,3,8}	3
Arts/Humanities ^{B,1}	3
Total Credit Hours	63

^A Placement testing required.

^B Consult *the list of courses approved for this subcategory*. Any course may be chosen.

^C Course requires prerequisite.

^D Choose from: MATH260 Linear Algebra, MATH121 Discrete Math, MATH250 Differential Equations.

^E Choose either PHYS121 and PHYS122 or CHEM121 and CHEM122.

¹ Satisfies Arts/Humanities.

² Satisfies Critical Thinking.

³ Satisfies Diversity.

⁴ Satisfies Information Literacy.

⁵ Satisfies Oral Communication.

⁶ Satisfies Quantitative Literacy.

⁷ Satisfies Scientific Literacy.

⁸ Satisfies Social Sciences.

⁹ Satisfies Technological Competence.

¹⁰ Satisfies Writing.

Diagnostic Medical Sonography

ASSOCIATE OF APPLIED SCIENCE

OCCUPATIONAL MAJOR

Health Sciences

Founders Hall 112 • Phone (215) 968-8353 (option 5)

Curriculum Code No. **2205**

The Associate Degree of Applied Science in Diagnostic Medical Sonography (DMS) Program is designed to prepare the student to perform diagnostic ultrasound examinations required of an entry-level general sonographer. Sonography uses sound waves to generate an image for the assessment and diagnosis of various medical conditions on a broad spectrum of patients.

Classes are conducted at the Lower Bucks Campus and clinical experience at varied locations.

To prepare competent entry level general sonographers in the cognitive (knowledge), psychomotor (skills), and affective (behavior) learning domains.

Graduates of this program are able to:

- Demonstrate critical thinking skills during the performance of sonographic procedures to provide optimum diagnostic services.
- Perform sonographic procedures appropriately and accurately recording all anatomic and physiologic information for interpretation by a physician.
- Demonstrate effective communication skills with patients and all members of the healthcare team
- Conduct themselves in a professional manner.

ADMISSION PROCEDURES

The Diagnostic Medical Sonography Program has a limited number of spaces and admission into this program is very competitive.

To apply for the Associate of Applied Science of Diagnostic Medical Sonography, please complete the following requirements and steps:

- Applicants must be at least 18 years of age
- Submit an application with Bucks County Community College designating Diagnostic Medical Sonography as their major.
- Submit previous college transcripts, if applicable, for evaluation by the Registrar.
- Complete any placement exams that are required by Bucks County Community College.
- Conditional approval will be based on the completion of 35 credits from the courses in the general education framework, listed below. The 35 credits must be completed with a final grade by the start of the first DXMS course. The GPA for the 35 credits must be 2.5 or better
 - COLL101- College Success Seminar
 - BIOL181- Anatomy and Physiology I (C or better)
 - BIOL182- Anatomy and Physiology II (C or better)
 - PHYS106- Physics A (C or better)
 - MATH120- College Algebra
 - COMM110- Effective Speaking
 - COMP110- English Composition I
 - COMP111- English Composition II
 - MEDA120- Medical Terminology (C or better)
 - PSYC110- Introduction to Psychology
 - Arts/Humanities Elective
- Science and Math courses must be taken within past 7 years prior to applying.
- Applications are accepted from January 1st to 31st of each year. Accepted students are notified by the first week of March.

Once accepted into the Diagnostic Medical Sonography Program, students will be required to:

- Purchase a uniform from preferred uniform vendor.
- Purchase all textbooks and materials.
- Assume all responsibility for transportation to and from the clinical sites assigned.
- Obtain and maintain current CPR certification.
- Obtain and maintain Immunization records.
- Complete an FBI Fingerprint Criminal Background Check, a PA Criminal Background check, Child Abuse clearance and drug screening (until clearance is received, program acceptance is provisional and may be rescinded).
- Show proof of health insurance coverage for the student.

DMS PROGRAM REQUIREMENTS

Course	Credits
<u>BIOL181</u> Anatomy and Physiology I ^{A,7}	4
<u>BIOL182</u> Anatomy and Physiology I ^A	4
<u>COLL101</u> College Success Seminar	1
<u>COMM110</u> Effective Speaking ^{A,B,4,5}	3
<u>COMP110</u> English Composition I ^{A,B,2,10}	3
<u>COMP111</u> English Composition II ^{A,2,4,10}	3
<u>DXMS100</u> Introduction to Sonography/Patient Care ^A	3
<u>DXMS101</u> Cross Sectional Anatomy in Sonography ^A	3
<u>DXMS200</u> Physics and Instrumentation in Sonography I ^{A,9}	2
<u>DXMS201</u> Sonography of the Abdomen with Lab ^A	4
<u>DXMS202</u> Sonography of Superficial Parts/Vascular Structures with Lab ^A	3
<u>DXMS210</u> Clinical Experience in Sonography I ^A	2

Course	Credits
<u>DXMS211</u> Sonography of OB/GYN with Lab ^A	4
<u>DXMS212</u> Physics and Instrumentation in Sonography II ^A	2
<u>DXMS215</u> Clinical Experience in Sonography II ^A	3
<u>DXMS220</u> Clinical Experience in Sonography III ^A	3
<u>MATH120</u> College Algebra ^{A,B,6}	4
<u>MEDA120</u> Medical Terminology	3
<u>PHYS106</u> Physics A ^{A,B,7}	4
<u>PSYC110</u> Introduction to Psychology ^{A,B,2,3,8}	3
Arts/Humanities Elective ^{C,1}	3
Total Credit Hours	64

^A Course requires prerequisites.

^B Placement testing required

^C Consult **the list of courses approved** for this subcategory. Any course may be chosen.

¹ Satisfies Arts/Humanities.

² Satisfies Critical Thinking.

³ Satisfies Diversity.

⁴ Satisfies Information Literacy.

⁵ Satisfies Oral Communication.

⁶ Satisfies Quantitative Literacy.

⁷ Satisfies Scientific Literacy.

⁸ Satisfies Social Sciences.

⁹ Satisfies Technological Competence.

¹⁰ Satisfies Writing.

Education: Paraprofessional Instructional Assistant

ASSOCIATE OF ARTS

OCCUPATIONAL MAJOR

This major is primarily designed for job preparedness. Students who are considering transferring to a four-year college should be aware that decisions on transferability of courses are made by the four-year colleges and differ from school to school. Students should contact the Transfer Services Office early in their academic program to determine which courses will transfer to the college of their choice.

Department of Social & Behavioral Science

Grupp 301 • Phone (215) 968-8270

Curriculum Code No. **2034**

Leading to the Associate of Arts degree, this major prepares students to work effectively as instructional assistants in public and private schools in Pennsylvania.

Graduates are prepared to assist teachers and to secure teaching materials and equipment, check workbooks and homework, prepare profiles of student progress and record teacher-assigned grades, monitor testing situations, supervise student activities in the cafeteria and on the playground, assist students in the use of teaching machines and computers, and perform instructional services when delegated.

Graduates of this program are able to

- implement a lesson under the supervision of the teacher.
- describe modifications and accommodations to instruction for students with learning differences to accomplish instructional objectives;
- demonstrate professional behavior when working with students, co-workers, and families; and
- apply strategies as directed to facilitate effective integration of students with learning differences into various settings.

DEGREE COURSE REQUIREMENTS

Course	Credits
<u>COLL101</u> College Success Seminar	1
<u>COMM110</u> Effective Speaking ^{A,D,4,5}	3
<u>COMP110</u> English Composition I ^{A,D,10}	3
<u>COMP111</u> English Composition II ^{D,4,10}	3

Course	Credits
EDUC100 Foundations of Education ^{A,E,F}	3
EDUC115 Observing and Recording the Behavior of Young Children ^{E,F}	3
EDUC150 Science and Math Experiences for Young Children ^{E,F}	3
EDUC160 Introduction to Exceptionalities ^{E,F,9}	3
EDUC170 Language Development ^{E,F}	3
EDUC220 Practicum in Education ^{D,E,F}	6
LITR246 Children's Literature ¹	3
MATH102 Mathematical Concepts II ^{A,6}	3
PSYC110 Introduction to Psychology ^{A,2,3,8}	3
PSYC180 Human Growth and Development ^D	3
PSYC190 Educational Psychology ^{D,E,2,3}	3
SOCI160 Marriage and the Family	3
Science Elective ^{C,7}	3-4
Personal Health Elective ^B	3
Electives ^G	6
Total Credit Hours	61-62

^A Placement testing required.

^B Any of the following may be chosen: HLTH103, HLTH110, HLTH120.

^C Any of the following may be chosen: BIOL101, SCIE101, SCIE102, SCIE103.

^D Course requires prerequisite.

^E Field experience component.

^F PA clearances required.

^G Pre-college level courses do not meet this requirement.

¹ Satisfies Art/Humanities

² Satisfies Critical Thinking

³ Satisfies Diversity

⁴ Satisfies Information Literacy

⁵ Satisfies Oral Communications

⁶ Satisfies Quantitative Literacy

⁷ Satisfies Scientific Literacy

⁸ Satisfies Social Sciences

⁹ Satisfies Technological Competence

¹⁰ Satisfies Writing

Emergency Management

ASSOCIATE OF ARTS



THIS PROGRAM IS ACCREDITED BY THE INTERNATIONAL FIRE SERVICE ACCREDITATION CONGRESS (IFSAC).

OCCUPATIONAL MAJOR

Department of Business and Innovation

Cottage 1 • Phone (215) 968-8190

Curriculum Code No. **2178**

The Emergency Management Associate Degree Program, which is aligned with the Emergency Management Institute's Higher Education Program and the Principles of Emergency Management, prepares the student for a position in Emergency Management, Business Continuity, and related disciplines. In addition to the courses that prepare the student to plan for all-hazards, the courses in this curriculum provide the student with technical information on a wide range of topics. Courses such as Emergency Management Exercise/Design, Crisis Management and Critical Incident Stress, and Business Continuity Planning prepare the student for careers that are directly and indirectly related to the Emergency Management field. These careers include working in fire and emergency services, public/municipal planning, healthcare safety, security, and public service. In addition, this program provides individuals already working in emergency management or in a related field, the opportunity to prepare for promotion and/or professional certification while at the same time earning an Associate Degree.

Graduates of this program are able to:

- Manage a public or private sector emergency management plan;
- Demonstrate and apply the fundamental skills associated with emergency planning, hazard vulnerability analysis, risk assessment, and business impact analysis based on emergency management concepts;
- Evaluate vulnerabilities to communities and businesses through discussion-based and operations-based exercises;
- Develop plans for resilience and continuity of essential operations based on after action reviews; and
- Apply emergency management principles for the prevention, mitigation, preparedness, response, and recovery to all-hazards.

DEGREE COURSE REQUIREMENTS

Course	Credits
<u>ACCT105</u> Financial Accounting ^A	4
<u>COLL101</u> College Success Seminar	1
<u>COMM110</u> Effective Speaking ^{C,4,5}	3
<u>COMP110</u> English Composition I ^{A,C,2,10}	3
<u>COMP111</u> English Composition II ^{C,2,4,10}	3
<u>FRSC202</u> Hazardous Material ^C	3
<u>MATH101</u> Mathematical Concepts I ^{A,C,2,6}	3
<u>MGMT140</u> Supervision	3
<u>MGMT200</u> Organizational Behavior ^{C,E}	3
<u>MGMT230</u> Principles of Management ^{C,E}	3
<u>MGMT250</u> Human Resource Management ^{C,E}	3

Course	Credits
<u>POLI120</u> American State and Local Government	3
<u>PUBS101</u> Introduction to Emergency Management	3
<u>PUBS104</u> Crisis Management and Critical Incident Stress ^C	3
<u>PUBS206</u> Business Continuity Management ^{A,C}	3
<u>PUBS207</u> Emergency Management Exercise Design ^C	3
<u>PUBS212</u> Emergency Communications and Public Information ^{C,9}	3
<u>PUBS280</u> Emergency Management Internship ^C	3
Arts/Humanities Elective ^{B,1}	3
Science Elective ^{A,C,D,7}	3-4
<u>SOCI110</u> Intro. to Sociology ^{2,3,8}	3
OR	
<u>PSYC110</u> Intro. to Psychology ^{2,3,8}	3
Total Credit Hours	62-63

^A Placement testing required

^B Arts/Humanities (Gen Ed Core) Requirement: Consult the approved list of courses

^C Course requires prerequisites and/or co-requisites

^D Choose between: BIOL101, BIOL115, CHEM101, SCIE103, or SCIE104

^E Successful completion of PUBS101 (C or better) and MGMT140 (C or better) meets the prerequisites for MGMT200, MGMT230, and MGMT250

¹ Satisfies Arts/Humanities

² Satisfies Critical Thinking

³ Satisfies Diversity

⁴ Satisfies Information Literacy

⁵ Satisfies Oral Communication

⁶ Satisfies Quantitative Literacy

⁷ Satisfies Scientific Literacy

⁸ Satisfies Social Sciences

⁹ Satisfies Technological Competence

¹⁰ Satisfies Writing

View the [AA.2178 Emergency Management Associates Degree Assessment & AA.2178 Emergency Management Associates Degree Outcomes](#)

Emergency Management

OCCUPATIONAL CERTIFICATE

Department of Business and Innovation

Cottage 1 • Phone (215) 968-8190

Curriculum Code No. **3179**

This certificate program provides students an opportunity to pursue a career in emergency management or for professional development for those currently employed or who already have a degree in another field.

The Emergency Management Certificate Program, which is aligned with the Emergency Management Institute's Higher Education Program and the Principles of Emergency Management, prepares the student for a position in Emergency Management, Business Continuity, and related disciplines. In addition to the courses that prepare the student to plan for all-hazards, the courses in this curriculum provide the student with technical information on a wide range of topics.

Graduates of this program are able to:

- Manage a public or private sector emergency management plan;
- Demonstrate and apply the fundamental skills associated with emergency planning, hazard vulnerability analysis, risk assessment, and business impact analysis based on emergency management concepts;
- Evaluate vulnerabilities to communities and businesses through discussion-based and operations-based exercises;
- Develop plans for resilience and continuity of essential operations based on after action reviews; and
- Apply emergency management principles for the prevention, mitigation, preparedness, response, and recovery to all-hazards.

CERTIFICATE COURSE REQUIREMENTS

Course	Credits
<u>ACCT105</u> Financial Accounting ^A	4
<u>COLL101</u> College Success Seminar	1
<u>FRSC202</u> Hazardous Material ^B	3
<u>MGMT140</u> Supervision	3
<u>MGMT200</u> Organizational Behavior ^{B,C}	3
<u>MGMT230</u> Principles of Management ^{B,C}	3
<u>MGMT250</u> Human Resource Management ^{B,C}	3
<u>POLI120</u> American State and Local Government	3
<u>PUBS101</u> Introduction to Emergency Management	3
<u>PUBS104</u> Crisis Management and Critical Incident Stress ^B	3
<u>PUBS206</u> Business Continuity Management ^{A,B}	3
<u>PUBS207</u> Emergency Management Exercise Design ^B	3
<u>PUBS212</u> Emergency Communications and Public Information ^B	3
Total Credit Hours	38

^A Placement testing required.

^B Course requires prerequisites and/or co-requisites

^c Successful completion of PUBS101 (C or better) and MGMT140 (C or better) meets the prerequisites for MGMT200, MGMT230, and MGMT250

[View the CER.3179 Emergency Management Academic Certificate Assessment & CER.3179 Emergency Management Academic Certificate Outcomes](#)

Engineering

ASSOCIATE OF SCIENCE

TRANSFER MAJOR

Decisions on the transferability of courses are made by the four-year colleges and differ from school to school. Students enrolled in this major should contact the Transfer Services Office early in their academic program to determine which courses will transfer to the college of their choice.

Science, Technology, Engineering & Mathematics Department

Founders 110 • Phone (215) 968-8305

Curriculum Code No. **1028**

The academic major for the first two years of engineering is similar for all branches of the discipline. This major provides a foundation for all phases of engineering as well as for physics and prepares students to continue their education at a four-year institution.

Graduates of this program are able to

- apply fundamental principles of mathematics, physics, engineering, and laboratory measurements to solve engineering problems;
- analyze engineering problems and make reasoned judgments in solving those problems;
- apply the engineering design process and technology in a collaborative nature to develop practical solutions to identified needs; and
- analyze the economic, societal, environmental, and ethical responsibilities of a professional engineer.

Prospective students with inadequate academic preparation should be aware that they may need additional time to acquire the necessary academic background. Prerequisites and corequisites for the required courses must be strictly followed.

DEGREE COURSE REQUIREMENTS

Course	Credits
<u>COLL101</u> College Success Seminar	1
<u>CHEM121</u> Chemistry I ^{A,D,6,7}	4
<u>CISC119</u> Programming for Engineers and Scientists ^{A,D}	4
<u>COMM110</u> Effective Speaking ^{A,D,4,5}	3
<u>COMP110</u> English Composition I ^{A,D,2,10}	3
<u>COMP111</u> English Composition II ^{D,2,4,10}	3
OR	
<u>COMP114</u> Technical Writing ^D	3
<u>ENGR112</u> Engineering Design ^{A,D,1,9}	4
<u>ENGR222</u> Statics ^D	3
<u>ENGR223</u> Dynamics ^D	3
<u>ENGR224</u> Strength of Materials ^D	3
<u>ENGR240</u> Introduction to Circuit Analysis ^D	4
<u>MATH140</u> Calculus I ^{A,D,6}	4
<u>MATH141</u> Calculus II ^D	4
<u>MATH242</u> Calculus III ^D	4

Course	Credits
MATH250 Differential Equations ^D	3
PHYS121 Physics I ^{D,7}	4
PHYS122 Physics II ^D	4
Social Science/Diversity Elective ^{B,3,8}	3
Engineering Elective ^C	3-5
Total Credit Hours	64

^A Placement testing required.

^B Any of the following may be chosen: ECON111, PSYC110, SOCI110, SOCI120.

^C Engineering Elective should be chosen based on engineering concentration and the requirements of your transfer institution. Please consult with your advisor. Choose from BIOL121, CHEM122, CHEM221, CISC115, CISC219, MATH121, MATH260, SCIE103, SCIE206.

^D Course requires prerequisite or co-requisite.

¹ Satisfies Arts/Humanities.

² Satisfies Critical Thinking.

³ Satisfies Diversity.

⁴ Satisfies Information Literacy.

⁵ Satisfies Oral Communication.

⁶ Satisfies Quantitative Literacy.

⁷ Satisfies Scientific Literacy.

⁸ Satisfies Social Sciences.

⁹ Satisfies Technological Competence.

¹⁰ Satisfies Writing.

Credits exceeding the required minimum cannot be used to satisfy required credits in other course requirements.

Engineering Technology

ASSOCIATE OF APPLIED SCIENCE

OCCUPATIONAL MAJOR

Science, Technology, Engineering & Mathematics Department

Founders 110 • Phone (215) 968-8305

Curriculum Code No. **2193**

This program is designed to prepare students to seek employment as technicians in the various engineering technology fields. Through a sequence of laboratory-based and business courses, students develop technical, interpersonal, and communication skills needed for immediate employment in the field.

Upon successful completion of the program students will be awarded the Associate of Applied Science degree.

Graduates of this program are able to:

- apply fundamental principles of mathematics, physics, engineering, and laboratory measurements to solve engineering technology problems;
- apply the engineering design process to an engineering component or system; and
- employ the skills necessary for the engineering technology practice in the solution of an engineering problem.

Prospective students with inadequate academic preparation should be aware that they may need additional time to acquire the necessary academic background. Prerequisites and corequisites for the required courses must be strictly followed.

DEGREE COURSE REQUIREMENTS

Course	Credits
<u>CHEM121</u> Chemistry I ^{A,B,6,7}	4
<u>COLL101</u> College Success Seminar	1
<u>COMM110</u> Effective Speaking ^{A,B,4,5}	3
<u>ECON111</u> Principles of Economics-Macro ^{2,3,8}	3
<u>ENGR112</u> Engineering Design ^{A,D,1,9}	4
<u>ENGT222</u> Applied Engineering Statics ^{A,B}	3
<u>ENGT240</u> Applied Circuit Analysis ^{A,B}	4
<u>MATH115</u> Elementary Statistics ^{A,B,2,6}	3
<u>MATH125</u> Precalculus Mathematics ^{A,B,6}	4
<u>MGMT135</u> Business Communication ^{A,B,2,4,10}	3

Course	Credits
MGMT155 Introduction to Entrepreneurship ²	3
PHYS106 Physics A ^{A,B,7}	4
PHYS107 Physics B ^A	4
Computer Science Elective ^{A,C}	3-4
Technical Electives ^{D,E,F}	15
Total Credit Hours	61-62

^A Course requires a prerequisite or co-requisite.

^B Placement Testing Required.

^C Choose any CISC course except for CISC100.

^D Choose from BIOL121, BIOL228, BIOT105, BIOT125, BIOT225, BRFS101, BRFS102, BRFS201, CHEM122, CISC110, CISC113, CISC115, CISC119, CISC128, COMP114, MATH140, SCIE103, SCIE104, SCIE105, VAFW100, VAFW140.

^E Certifications from Center for Workforce Development, internships, and prior work experience may be approved for credit. Must be approved by the Dean of STEM.

^F You may take 18 directed electives for the nanotechnology certification through Penn State as engineering technology electives. Must be approved by the Dean of STEM.

^G Choose any course from the approved list.

¹ Satisfies Arts/Humanities.

² Satisfies Critical Thinking.

³ Satisfies Diversity.

⁴ Satisfies Information Literacy.

⁵ Satisfies Oral Communication.

⁶ Satisfies Quantitative Literacy.

⁷ Satisfies Scientific Literacy.

⁸ Satisfies Social Sciences.

⁹ Satisfies Technological Competence.

¹⁰ Satisfies Writing.

English

ASSOCIATE OF ARTS

TRANSFER MAJOR

Decisions on the transferability of courses are made by the four-year colleges and differ from school to school. Students enrolled in this major should contact the Transfer Services Office early in their academic program to determine which courses will transfer to the college of their choice.

Department of Language & Literature

Grupp 105 • Phone (215) 968-8150

Curriculum Code No. **1200**

This program is designed for students who seek a general education with a focus on the study of English. English majors investigate a variety of literatures and hone their academic writing skills, preparing themselves for transfer to a four-year institution or entry into the workforce in fields such as public relations, technical writing, and the non-profit sector.

GRADUATES OF THIS PROGRAM ARE ABLE TO

- demonstrate proficiency in written communication, including awareness of purpose and audience, ability to effectively compose documents for print and non-print environments, and facility with thesis and argument construction;
- identify the distinguishing characteristics of literary genres and the historical and cultural environments in which literary texts have been created;
- demonstrate critical thinking skills in the analysis of literary works;
- demonstrate critical reasoning skills in the selection, identification, evaluation, and use of secondary sources needed in writing effectively about literature;
- apply correct documentation and citation style to academic writing; and
- use technology effectively to retrieve, evaluate, and incorporate information.

Course	Credits
<u>COLL101</u> College Success Seminar	1
<u>COMM110</u> Effective Speaking ^{A,4,5}	3
<u>COMP110</u> English Composition I ^{A,2,10}	3
<u>COMP111</u> English Composition II ^{B,2,4,10}	3
<u>CISC100</u> Digital Literacy ⁹	
OR	
<u>CISC110</u> Introduction to Information Systems ^{B,9}	3

Course	Credits
<u>LITR231</u> American Literature to 1865 ^{1,2}	3
<u>LITR232</u> American Literature from 1865 ^{1,2}	3
<u>LITR205</u> English Literature to the 19th Century ^{1,2}	
OR	
<u>LITR206</u> English Literature in the 19th & 20th Century ^{1,2}	3
<u>LITR254</u> World Literature I ^{1,2}	
OR	
<u>LITR255</u> World Literature II ^{1,2}	3
Literature Elective ^{C,1,2}	3
Mathematics ^{A,D,6}	3
Science ^{E,7}	4
History ^{F,3}	3
Foreign Language ^{G,1,3}	6
Social/Behavioral Science ^{H,8}	3
General Electives ^I	14
Total Credit Hours	61

^A Placement testing required.

^B Prerequisite or co-requisite required.

^C Any LITR may be chosen.

^D Choose from: MATH101, 115, 120, 122, 125, or 140.

^E Choose from: SCIE103, SCIE105, BIOL101, CHEM101, or PHYS106.

^F Choose from: HIST111, 112, 151, or 152.

^G Any foreign language may be taken except AMSL and International Cultures.

^H Choose from: ECON111, GEOG110, PSYC110, or SOCI110.

^I Consult the list of courses approved for general elective credit:

- For the base English major, any may be taken.
- For the Writing Emphasis, any 8 elective credits plus 6 credits from COMP114, 115, 116, or any JOUR course.
- For the Secondary Education Emphasis, any 8 elective credits plus PSYC190 & EDUC160.
- For the Women's Studies Emphasis, any 8 elective credits plus WMST110 & HLTH200.

¹ Satisfies Arts/Humanities

² Satisfies Critical Thinking

³ Satisfies Diversity

⁴ Satisfies Information Literacy

⁵ Satisfies Oral Communication

⁶ Satisfies Quantitative Literacy

⁷ Satisfies Scientific Literacy

⁸ Satisfies Social Sciences

⁹ Satisfies Technological Competence

¹⁰ Satisfies Writing

Entrepreneurship

CERTIFICATE PROGRAM

Department of Business and Innovation

Grupp 401 • Phone (215) 968-8227

Curriculum Code No. **3205**

This certificate program is designed for students seeking the skills and knowledge to become an entrepreneur, start their own business, or improve an existing business. It provides the essential knowledge that is the foundation of a successful business.

Graduates of this program are able to:

- Analyze viable business opportunities to pursue;
- Demonstrate proficiency in fundamental financial planning procedures;
- Develop a realistic plan for their business;
- Apply legal principles and concepts in business operations; and
- Demonstrate professional skills needed to communicate effectively in a business.

Certificate Requirements

Course	Credits
<u>ACCT110</u> Personal Financial Planning	3
<u>COLL101</u>	1

Course	Credits
College Success Seminar	
<u>MGMT135</u> Business Communication ^{A,B}	3
<u>MGMT140</u> Supervision	3
OR	3
<u>MGMT110</u> Small Business Management	3
<u>MGMT155</u> Introduction to Entrepreneurship	3
<u>MGMT180</u> Legal Environment of Business	3
OR	3
<u>MGMT130</u> Business Law	3
<u>MKTG230</u> Social Media Marketing	3
OR	3
<u>MKTG112</u> Customer Experience	3
Total Credit Hours	19

^A Placement testing required.

^B Course requires prerequisite.

Environmental Science

ASSOCIATE OF SCIENCE

TRANSFER MAJOR

Science, Technology, Engineering & Mathematics Department

Founders 110 • Phone (215) 968-8305

Curriculum Code No. **1188**

Decisions on the transferability of courses are made by the four-year colleges and differ from school to school. Students enrolled in this major should contact the Transfer Services Office early in their academic program to determine which courses will transfer to the college of their choice.

The Environmental Science major provides an understanding of a wide range of environmental and ecological concepts. This major is for students planning to earn a baccalaureate degree in the broad range of environmental sciences.

Graduates of this program are able to

- sample and analyze the biological, chemical, and physical components of ecosystems;
- utilize geographic information systems (GIS) software to generate project maps and address a wide range of environmental issues;
- participate in habitat restoration and resource management projects; and
- describe how geologic processes can impact the earth system.

Prospective students with academic deficiencies should be aware that they will need additional time to acquire the necessary academic background. Prerequisites and corequisites for required courses must be followed.

DEGREE REQUIREMENTS

Course	Credits
<u>BIOL121</u> Biological Principles I ^C	4
<u>BIOL122</u> Biological Principles II ^C	4
<u>BIOL220</u> Principles of Ecology ^C	4
<u>BIOL228</u> Microbiology ^C	4
<u>CHEM121</u> Chemistry I ^{A,C,6,7}	4
<u>CHEM122</u> Chemistry II ^C	4
<u>COLL101</u> College Success Seminar	1

Course	Credits
SCIE103 Physical Geology ^{A,C,7}	4
SCIE105 Introduction to Environmental Science	4
SCIE206 Fundamentals of Geographic Information Systems ^{C,9}	3
MATH115 Elementary Statistics ^{A,C,2,6}	3
Mathematics Elective ^{A,C,D,6}	3-4
CISC110 Introduction to Information Systems ^{A,C}	3
COMP110 English Composition I ^{A,C,2,10}	3
COMP111 English Composition II ^{C,2,4,10}	3
COMM110 Effective Speaking ^{C,4,5}	3
ECON111 Principles of Economics: Macro ^{2,3,8}	3
Elective	3
Arts/Humanities ^{B,1}	3
Total Credit Hours	63-64

^A Placement testing required

^B Consult the list of courses approved for this subcategory. Any course may be chosen.

^C Course requires prerequisite.

^D Choose from MATH120, MATH122, MATH125, MATH140.

¹ Satisfies Arts/Humanities.

² Satisfies Critical Thinking.

³ Satisfies Diversity.

⁴ Satisfies Information Literacy.

⁵ Satisfies Oral Communication.

⁶ Satisfies Quantitative Literacy.

⁷ Satisfies Scientific Literacy.

⁸ Satisfies Social Sciences.

⁹ Satisfies Technological Competence.

¹⁰ Satisfies Writing.

Exercise Science

ASSOCIATE OF SCIENCE

TRANSFER MAJOR

Decisions on the transferability of courses are made by the four-year colleges and differ from school to school. Students enrolled in this major should contact the Transfer Services office early in their academic program to determine which courses will transfer to the college of their choice.

Department of Kinesiology and Sports Studies

Linksz Pavillion 208 • Phone (215) 968-8450

Curriculum Code No. **1197**

The Exercise Science major prepares undergraduate students for transfer to a four year institution where they major in any allied healthcare field including, but not limited to physical therapy, occupational therapy, athletic training, exercise physiology and nursing. Other possible professions include strength and conditioning coaches, health and fitness specialists and chiropractors. Community members currently working in the health field who would like to pursue continuing education will benefit from the Program's course offerings.

Graduates of this program are able to:

- Demonstrate an understanding of the body's anatomical and physiological systems as they pertain to exercise physiology principles and disease;
- Find, evaluate, discuss, and ethically use scholarly health science articles published in peer reviewed literature and relate concepts to exercise recommendations and prescription: and
- Demonstrate technological competence with health science computer programs, tools and equipment (i.e., skin fold calipers, heart rate monitors).

DEGREE COURSE REQUIREMENTS*

Course	Credits
<u>COLL101</u> College Success Seminar	1
<u>COMP110</u> English Composition I ^{A,B,2,10}	3

Course	Credits
<u>COMP111</u> English Composition II ^{B,2,10}	3
<u>COMM110</u> Effective Speaking ^{B,5}	3
<u>MATH115</u> Elementary Statistics ^{A,6}	3
<u>KINS180</u> Foundations of Physical Education	3
<u>BIOL181</u> Anatomy & Physiology I ^{B,7}	4
<u>BIOL182</u> Anatomy & Physiology II ^B	4
<u>EXSC200</u> Biomechanics ^B	4
<u>EXSC201</u> Physiology of Exercise ^{B,9}	4
<u>HLTH120</u> Nutrition ^{A,2,4,7}	3
OR	
<u>HLTH120N</u> Nutrition (with a Registered Dietician) ^{A,2,4,7}	3
<u>SOCI110</u> Introduction to Sociology ³	3
<u>PSYC110</u> Introduction to Psychology ^{A,8}	3
Arts Elective ^{G,1}	3
Lifestyle Activity ^D	2
Aquatics Activity ^F	2
Survival Activity ^E	2
Fitness Activity ^C	2

Course	Credits
General Elective	9
Total Credit Hours	61

^A Placement testing required

^B Course requires prerequisite or departmental approval.

^C Exercise Science majors must take at least one of the following fitness activity courses: KINS180, KINS134, KINS145, KINS188, and KINS189.

^D Exercise Science majors must take at least one of the following lifestyle activity courses: KINS130, KINS191.

^E Exercise Science majors must take at least one of the following survival activity courses: KINS106, KINS129, KINS133, and KINS190.

^F Exercise Science majors must take at least one of the following aquatics activity courses: KINS150, KINS155, and KINS156.

^G Students must take at least one of the following arts courses: VAFA191, VAFA192, VAFA193, VAFA194, VAPH196, COMT101, MUSC101, MUSC105, MUSC106.

^H HLTH120N sections are taught by a registered dietitians as required by the PA State Board of Nursing.

¹ Satisfies Arts/Humanities

² Satisfies Critical Thinking

³ Satisfies Diversity

⁴ Satisfies Information Literacy

⁵ Satisfies Oral Communication

⁶ Satisfies Quantitative Literacy

⁷ Satisfies Scientific Literacy

⁸ Satisfies Social Sciences

⁹ Satisfies Technological Competence

¹⁰ Satisfies Writing

Fine Arts

ASSOCIATE OF FINE ARTS

TRANSFER MAJOR

Decisions on the transferability of courses are made by the four-year colleges and differ from school to school. Students enrolled in this major should contact the Transfer Services Office early in their academic program to determine which courses will transfer to the college of their choice.

Arts & Communication Department

Hicks Art Center • Phone (215) 968-8425

Curriculum code No. **1001**

Students interested in Fine Arts at Bucks need to meet with a Visual Arts faculty member for advising.

The Fine Arts major is designed to serve the fine arts major and the general college student. The major equips the art student with the skills, attitudes, and knowledge necessary for further training in a four-year professional or liberal arts institution and develops mastery of arts, crafts, and design in the student whose formal education ends after two years at the College.

All full-time students entering as Fine Arts majors are required to schedule a portfolio review. In the absence of a portfolio, students will schedule an assessment interview for placement purposes. An art advisor will help select the appropriate sequence of courses.

For the non-art major many electives in art require no pre-requisite or portfolio evaluation.

Graduates of this program are able to

- demonstrate an understanding of the methods and materials associated with drawing, two-dimensional design, and three-dimensional design;
- use traditional and new media to begin to explore and express their own creative voice;
- read about, write about, and analyze art and art history using basic research, critical thinking skills, and a visual arts vocabulary; and
- prepare and present a formal, professional-quality portfolio of work which may be used to apply for admission to a four-year college.*

* In preparing and presenting a portfolio in VAFA250, students currently need an array of digital skills, such as, but not limited to, media capture, manipulation, and presentation. Students take at least one required digital course (e.g. VAMM100, VAPH110, or VACV140) and then reinforce/develop their digital skills across the major. Essential digital competencies associated with portfolio preparation and presentation will be assessed within this course.

Note: Studio courses can be expensive. Lab Fees may be required .

DEGREE COURSE REQUIREMENTS*

Course	Credits
<u>COLL101</u> College Success Seminar	1

Course	Credits
COMP110 English Composition I ^{A,H,2,10}	3
COMP111 English Composition II ^{H,2,4,10}	3
VAFA100 Drawing I ¹	3
VAFA101 2-D Design Fundamentals	3
VAFA102 3-D Design Fundamentals	3
VAFA103 Drawing II ^H	3
VAFA104 2-D Design Color ^H	3
VAFA105 3-D Design Materials/Modeling ^H	3
VAFA202 Figure Drawing ^H	3
VAFA250 Fine Arts and Design Portfolio Studio ^{H,5,9}	3
Social Science/Diversity ^{B,3,8}	3
Art History ^{C,H,1}	6
Elective ^G	3
Math/Science ^{A,D,6,7}	3/4
Digital Elective ^E	3
Studio Electives ^F	12
Total Credit Hours	61/62

^A Placement testing required.

^B Any of the following may be chosen: COMM111, ECON111, GEOG110, MUSC103, POLI111, PSYC110, SOCI110, SOCI120.

^C Any of the following may be chosen: VAFA191, VAFA192, VAFA193.

^D Any of the following may be chosen: SCIE101, SCIE102, SCIE104, CHEM101.

^E Any of the following may be chosen: VAMM100, VAPH110, VAMM130, VACV140.

^F Any 3-credit studio course with the prefix of VAFA, VACV, VAPH, VAFW, and/or VAMM may be selected.

^G Any college-level course may be chosen.

^H Course requires prerequisite and/or co-requisite.

¹ Satisfies Arts/Humanities.

² Satisfies Critical Thinking.

³ Satisfies Diversity.

⁴ Satisfies Information Literacy.

⁵ Satisfies Oral Communication.

⁶ Satisfies Quantitative Literacy.

⁷ Satisfies Scientific Literacy.

⁸ Satisfies Social Sciences.

⁹ Satisfies Technological Competence.

¹⁰ Satisfies Writing.

Credits exceeding the required minimum cannot be used to satisfy required credits in other course requirements.

Fine Woodworking

ASSOCIATE OF FINE ARTS

TRANSFER MAJOR

Arts & Communication Department

Hicks Art Center • Phone (215) 968-8425

Curriculum Code No. **1187**

Students interested in Fine Woodworking at Bucks need to meet with a Fine Woodworking faculty member for advising.

The Fine Woodworking Transfer Program is designed for the studio arts major interested in specializing in the medium of wood. The major provides the art student with the basic foundation of skills and knowledge necessary for further training in a wood or a fine arts program. The craftsmanship and creative expression of each student is developed through a variety of functional and sculptural projects in wood. A portfolio review is recommended for placement purposes. Graduates will be prepared to transfer to the highest caliber four-year wood programs and qualified for entry level positions in cabinetmaking, furniture designing, furniture making, and machine operating.

Bucks County Community College is an accredited institutional member of the National Association of Schools of Art and Design.

Graduates of this program are able to

- demonstrate an understanding of the methods and materials associated with fundamental drawing, two-dimensional design, and three-dimensional design;
- design and create unique personal finished wood products;
- read about, write about, and analyze art, art history, and furniture history using basic research, critical thinking skills, and a visual arts vocabulary; and
- prepare and present a formal, professional-quality portfolio of work which may be used to apply for transfer applications or an entry-level position in woodworking.*

* In preparing and presenting a portfolio in VAFA250, students currently need an array of digital skills, such as, but not limited to, media capture, manipulation, and presentation. Students take several required digital course (e.g. VAMM100, VAGD101, VAGD201, VAMM110) and then reinforce/develop their digital skills across the major. Essential digital competencies associated with portfolio preparation and presentation will be assessed within this course.

Check out this [video](#) about the program.

Note: Studio courses can be expensive. Lab fees may be required.

DEGREE COURSE REQUIREMENTS*

Course	Credits
<u>VAFA100</u> Drawing I ¹	3
<u>VAFA101</u> 2-D Design Fundamentals	3
<u>VAFA102</u> 3-D Design Fundamentals	3
<u>VAFA103</u> Drawing Composition ^F	3
<u>VAFA104</u> 2-D Design Color ^F	3
<u>VAFA105</u> 3-D Design Materials/Modeling ^F	3
<u>VAPH110</u> Digital Photo Fundamentals ¹	3

Course	Credits
<u>VAFW190</u> History of American Furniture ^F	3
<u>VAFW250</u> Fine Arts and Design Portfolio Studio ^{F,5,9}	3
<u>VAFW100</u> Fine Woodworking Fundamentals ¹	3
<u>VAFW140</u> Cabinetmaking ^F	3
<u>VAMM130</u> 3-D Modeling Concepts	3
<u>COLL101</u> College Success Seminar	1
<u>COMP110</u> English Composition I ^{A,F,10}	3
<u>COMP111</u> English Composition II ^{F,2,4,10}	3
Art History ^{C,F,1}	3
Math/Science ^{A,D,7,8}	3/4
Social Science/Diversity ^{B,3,8}	3
Elective ^E	3
Fine Wood Studio Electives (Choose from list)	6
Total Credit Hours	61/62

FINE WOOD STUDIO ELECTIVE COURSES (SELECT AT LEAST 6 CREDITS)

Course	Credits
<u>VACV140</u> Digital Video Editing	3
<u>VAFW133</u> Woodcarving/Furniture	3
<u>VAFW136</u> Bending and Veneering ^F	3
<u>VAFW137</u> Chair Construction ^F	3
<u>VAFW138</u> Table Systems ^F	3
<u>VAFW145</u> Conceptual Furniture	3
<u>VAFW180</u> Woodturning	3
<u>VAFW181</u> Woodturning II ^F	3
<u>VAFW280</u> Cooperative Education/Fine Woodworking ^F	3
<u>Vafa107</u> Intro to Jewelry and Metalsmithing	3
<u>Vafa141</u> Introduction to Sculpture	3
<u>Vafa147</u> Introduction to Glassblowing	3
<u>Vafa181</u> Introduction to Ceramics	3
<u>Vafa200</u> Drawing Anatomy ^F	3
<u>Vafa246</u> Sculpture/Foundry ^F	3

^A Placement testing required.

^B Any of the following may be chosen: COMM111, ECON111, GEOG110, MUSC103, POLI111, PSYC110, SOCI110, SOCI120.

^C Any of the following may be chosen: VAFA191, VAFA192, VAFA193.

^D Any of the following may be chosen: SCIE101, SCIE102, SCIE104, CHEM101.

^E Any college-level course may be chosen.

^F Course requires prerequisite and/or corequisite.

¹ Satisfies Arts/Humanities.

² Satisfies Critical Thinking.

³ Satisfies Diversity.

⁴ Satisfies Information Literacy.

⁵ Satisfies Oral Communication.

⁶ Satisfies Quantitative Literacy.

⁷ Satisfies Scientific Literacy.

⁸ Satisfies Social Sciences.

⁹ Satisfies Technological Competence.

¹⁰ Satisfies Writing.

Credits exceeding the required minimum cannot be used to satisfy required credits in other course requirements.

Fire Prevention & Investigation

OCCUPATIONAL CERTIFICATE

Department of Public Safety

Cottage I • Phone (215) 968-8190

Curriculum Code No. **3144**

This certificate program provides students an opportunity to pursue a career in fire prevention and/or inspection or for professional development for those currently employed or who already have a degree in another field.

The Fire Prevention and Investigation Certificate, which follows the Fire and Emergency Services Higher Education (FESHE) and the National Fire Academy models, prepares the student for a position in the fire prevention area discipline. In addition to the courses that prepare the student to perform inspections and investigations, the Fire Science courses in this curriculum provide the student with technical information on a wide range of topics.

Graduates of this program are able to:

- Demonstrate an understanding of fire dynamics, flame spread, and incident investigation, plus the technical, legal, and social aspects of arson;
- Demonstrate and apply the fundamental skills associated with fire protection, prevention, and investigation, such as scientific methods of inquiry and reasoning;
- Evaluate fire behavior and building construction as it related to firefighter safety, building codes, and fire prevention; and
- Apply safety codes and proper procedures for the transportation and storage of hazardous materials.

DEGREE COURSE REQUIREMENTS

Course	Credits
<u>COLL101</u> College Success Seminar	1
<u>FRSC100</u> Introduction to Fire Science	3
<u>FRSC103</u> Building Construction for the Fire Service ^B	3
<u>FRSC104</u> Fire Prevention and Code Enforcement ^B	3
<u>FRSC105</u> Fire Prevention Systems ^B	3
<u>FRSC112</u> Fire Behavior and Combustion	3
<u>FRSC202</u> Hazardous Materials ^B	3
<u>FRSC204</u> Legal Aspects of Emergency Services	3
<u>FRSC206</u> Fire Investigation I ^{A,B}	3
<u>FRSC210</u> Fire Prevention and Fire Safety Education ^{A,B}	3
<u>FRSC214</u> Fire Plan Review ^B	3
<u>FRSC216</u> Fire Investigation II ^B	3
Total Credit Hours	34

^A Placement testing required

^B Course requires prerequisites and/or co-requisites

View the [CER.3144 Fire Prevention and Investigation Academic Certificate Assessment](#) & [CER.3144 Fire Prevention Investigation Academic Certificate Outcomes](#)

Fire Science

ASSOCIATE OF ARTS



This program is accredited by the International Fire Service Accreditation Congress (IFSAC) additionally recognized by Fire and Emergency Service Higher Education (FESHE) and the National Fire Academy (NFA).

OCCUPATIONAL MAJOR

Department of Business and Innovation

Cottage I • Phone (215) 968-8190

Curriculum Code No. **2158**

The Fire Science Associate Degree Program, which follows the Fire and Emergency Services Higher Education (FESHE) and the National Fire Academy models, prepares the student for a position in the fire service. In addition to the courses that prepare the student to manage a complex emergency scene, the courses in this curriculum provide the student with technical information on a wide range of topics. Courses such as Building Construction, Building and Fire Code Enforcement, Hazardous Materials, Fire Protection Systems, Fire Behavior, and Fire Safety Education prepare the student for careers that are directly and indirectly related to the Fire and Emergency Service. These careers include working in code enforcement, insurance investigation, fire protection, equipment inspection, and public service. In addition, this program provides individuals, already working in the fire service or in a related field, the opportunity to prepare for promotion while at the same time earning an Associate Degree.

Graduates of this program are able to:

- Manage a fire protection organization through effective use of public and private emergency planning and resources;
- Demonstrate and apply the fundamental skills associated with firefighter safety and wellness, such as prevention, incident safety/risk management, organizational health and safety, and wellness programs;

- Evaluate fire behavior and building construction as it relates to firefighter safety, building codes, and fire prevention; and
- Apply safety codes and proper procedures for the transportation and storage of hazardous materials.

DEGREE COURSE REQUIREMENTS

Course	Credits
<u>COLL101</u> College Success Seminar	1
<u>COMM110</u> Effective Speaking ^{C,4,5}	3
<u>COMP110</u> English Composition I ^{A,C,2,10}	3
<u>COMP111</u> English Composition II ^{C,2,4,10}	3
<u>FRSC100</u> Introduction to Fire Science	3
<u>FRSC103</u> Building Construction for the Fire Service ^C	3
<u>FRSC104</u> Fire Prevention and Code Enforcement ^C	3
<u>FRSC105</u> Fire Prevention Systems ^{C,9}	3
<u>FRSC112</u> Fire Behavior and Combustion	3
<u>FRSC114</u> Fire and Emergency Services Safety and Survival	3
<u>FRSC202</u> Hazardous Materials ^C	3
<u>FRSC208</u> Principles of Fire and Emergency Services Administration ^{A,C}	3
<u>FRSC209</u> Fire Service Occupational Safety & Health ^{A,C}	3

Course	Credits
<u>FRSC210</u> Fire and Life Safety Education ^{A,C}	3
<u>MATH101</u> Mathematical Concepts I ^{A,C,2,6}	3
Arts/Humanities Elective ^{B,1}	3
Emergency Services & Management Electives ^E	9-10
Science Elective ^{A,C,D,7}	3-4
<u>SOCI110</u> Introduction to Sociology ^{2,3,8}	3
OR	
<u>PSYC110</u> Introduction to Psychology ^{2,3,8}	3
Total Credit Hours	61-63

FIRE SCIENCE ELECTIVES

Course	Credits
<u>FRSC201</u> Firefighting Strategy and Tactics ^C	3
<u>FRSC204</u> Legal Aspects of Emergency Services ^C	3
<u>FRSC206</u> Fire Investigator I ^{A,C}	3
<u>FRSC214</u> Fire Plan Review ^C	3
<u>FRSC216</u> Fire Investigation II ^C	3

Course	Credits
<u>FRSC227</u> Pre-emergency Planning and Computer Aided Design ^{C,9}	3
<u>FRSC280</u> Fire and Emergency Services Internship ^C	3

NOTE: By taking FRSC 204, FRSC206, FRSC214, and FRSC216, you can complete the Fire Prevention and Investigation Certificate requirements in addition to the Fire Science Associate Degree and Certificate.

^A Placement testing required

^B **Arts/Humanities** (Gen Ed Core) Requirement: Consult the approved list of courses

^C Course requires prerequisites and/or co-requisites

^D Choose from: BIOL101, BIOL115, CHEM101, SCIE103, or SCIE104

^E Choose three courses from: ACCT105, CRIJ120, CRIJ130, CRIJ160, CRIJ210, CRIJ260, CRIJ275, FRSC201, FRSC204, FRSC206, FRSC214, FRSC216, FRSC227, FRSC280, HLTH103, HLTH110, MGMT140, MGMT200, MGMT230, MGMT250, MEDA120, PUBS104, PUBS206, PUBS207, PUBS212, and POLI120

¹ Satisfies Arts/Humanities

² Satisfies Critical Thinking

³ Satisfies Diversity

⁴ Satisfies Information Literacy

⁵ Satisfies Oral Communication

⁶ Satisfies Quantitative Literacy

⁷ Satisfies Scientific Literacy

⁸ Satisfies Social Sciences

⁹ Satisfies Technological Competence

¹⁰ Satisfies Writing

View the **AA.2158 Fire Science Associates Degree Assessment & AA.2158 Fire Science Associates Degree Outcomes**

Fire Science Certificate

OCCUPATIONAL CERTIFICATE

Department of Public Safety

Cottage I • Phone (215) 968-8190

Curriculum Code No. **3143**

This certificate program provides students an opportunity to pursue a career in fire science or for professional development for those currently employed or who already have a degree in another field.

The Fire Science Certificate, which follows the Fire and Emergency Services Higher Education (FESHE) and the National Fire Academy models, prepares the student for a position in the fire service. In addition to the courses that prepare the student to manage a complex emergency scene, the courses in this curriculum provide the student with technical information on a wide range of topics.

Graduates of this program are able to:

- Manage a fire protection organization through effective use of public and private emergency planning and resources;
- Demonstrate and apply the fundamental skills associated with firefighter safety and wellness, such as prevention, incident safety / risk management, organizational health and safety, and wellness programs;
- Evaluate fire behavior and building construction as it related to firefighter safety, building codes, and fire prevention; and
- Apply safety codes and proper procedures for the transportation and storage of hazardous materials.

DEGREE COURSE REQUIREMENTS

Course	Credits
<u>COLL101</u> College Success Seminar	1
<u>FRSC100</u> Introduction to Fire Science	3
<u>FRSC103</u> Building Construction for the Fire Service ^B	3
<u>FRSC104</u> Fire Prevention and Code Enforcement ^B	3
<u>FRSC105</u> Fire Prevention Systems ^B	3
<u>FRSC112</u> Fire Behavior and Combustion	3
<u>FRSC114</u> Fire and Emergency Services Safety and Survival	3
<u>FRSC202</u> Hazardous Materials ^B	3
<u>FRSC208</u> Principles of Fire and Emergency Services Administration ^{A,B}	3

Course	Credits
<u>FRSC209</u> Fire Service Occupational Safety & Health ^{A,B}	3
<u>FRSC210</u> Fire Prevention and Fire Safety Education ^{A,B}	3
Total Credit Hours	31

^A Placement testing required

^B Course requires prerequisites and/or co-requisites

View the [CER.3143 Fire Science Academic Certificate Assessment](#) & [CER.3143 Fire Science Academic Certificate Outcomes](#)

Furniture and Cabinetmaking

CERTIFICATE PROGRAM

Arts & Communication Department

Hicks Art Center • Phone (215) 968-8425

Curriculum Code No. **3187**

This one-year certificate program develops essential entry-level skills required in the furniture/cabinetmaking business. An introduction to the history and theory of making functional wooden objects is combined with studio practices related to handling materials and employing safe working methods. The program provides students with practical experience in using hand tools, power tools, and other equipment routinely used in the industry.

Graduates of this certificate are able to:

- create functional finished wood products that they design.
- design furniture and parts of furniture two dimensionally using digital and manual drawing techniques.
- present a formal, professional-quality portfolio of their work which may be used to apply for a position in the woodworking field.

Check out this [video](#) about the program.

Note: Studio courses can be expensive. Lab Fees may be required.

CERTIFICATE COURSE REQUIREMENTS*

Course	Credits
<u>COLL101</u> College Success Seminar	1
<u>VAFW100</u> Fine Woodworking Fundamentals	3
<u>VAFW140</u> Cabinetmaking ^B	3
<u>VAFW100</u> Drawing I ^A	3
<u>VAMM130</u> 3-D Modeling Concepts	3
OR	
<u>VAFW145</u> Conceptual Furniture ^B	3
<u>VAFW138</u> Table Systems ^B	3
<u>VAFW190</u> History of American Furniture	3
OR	
<u>MGMT102</u> Business Skills for Artists	3
OR	
<u>MGMT155</u> Introduction to Entrepreneurship	3
<u>VAFW250</u> Fine Arts and Design Portfolio Studio ^B	3

VAFW
Fine Wood Studio Electives

Course	Credits
OR	
Co-op ^B	6
Total Credit Hours	31

SUGGESTED ELECTIVES (SELECT 3 COURSES):

Course	Credits
<u>VAFW133</u> Woodcarving/Furniture ^B	3
<u>VAFW136</u> Bending and Veneering ^B	3
<u>VAFW137</u> Chair Construction ^B	3
<u>VAFW180</u> Woodturning	3
<u>VAFW181</u> Woodturning II ^B	3
<u>VAFW280</u> Cooperative Education/Fine Woodworking ^B	3

^A Portfolio review required with Fine Arts advisor.

^B Requires prerequisite and/or co requisite.

**Since the individual circumstances and backgrounds of students vary, all students planning to complete this certificate program must meet with their assigned academic advisor to develop a planned sequence of courses to meet their individual needs.*

Global Studies/World Languages

ASSOCIATE OF ARTS

TRANSFER MAJOR

Decisions on the transferability of courses are made by the four-year colleges and differ from school to school. Students enrolled in this major should contact the Transfer Services Office early in their academic program to determine which courses will transfer to the college of their choice.

Department of Language & Literature

Grupp 105 • Phone (215) 968-8150

Curriculum Code No. **1204**

This interdisciplinary program is designed for students who seek a general education with a focus on the study of a world language and global or international studies. Students in the major complete their degrees with a strong background in global or international perspectives in the history, culture, geopolitics, economics, and language of various world regions. This major prepares students for transfer to a four-year institution and for careers with an international or global component in government, business, the non-profit sector, education, or law.

GRADUATES OF THIS PROGRAM ARE ABLE TO

- demonstrate proficiency in written communication with the ability to construct well-supported positions;
- demonstrate knowledge and critical thinking skills in the analysis of global history and international relations;
- analyze cultural contexts and perspectives relevant to a particular issue, conflict, or cultural expression;
- analyze an artistic expression and explain how that expression relates to the culture which produced it;
- analyze macro-economic trends and evaluate the impacts these trends have on diverse societal groups;
- demonstrate proficiency in speaking, comprehending, reading, and writing in a world language at the level of four semesters of college study

Course	Credits
<u>COLL101</u> College Success Seminar	1
<u>COMM110</u> Effective Speaking ^{A,B,4,5}	3
<u>COMP110</u> English Composition I ^{A,B,2,10}	3
<u>COMP111</u> English Composition II ^{B,2,4,10}	3
<u>CISC100</u> Digital Literacy ⁹	3
OR	
<u>CISC110</u> Introduction to Information Systems ^{A,B,9}	3

Course	Credits
<u>ECON111</u> Principles of Economics - Macro ^{2,3,8}	3
<u>HIST114</u> Global History: Modern World ^{1,2,3}	3
<u>MATH115</u> Elementary Statistics ^{A,B,2,6}	3
<u>POLI212</u> International Relations	3
World Arts/Literature/Music Elective ^D	3
World Cultures Elective ^C	3
World Languages Electives ^{G,1,3}	12
General Electives ^H	8
Program Electives ^F	6
Science ^{A,B,E,7}	4
Total Credit Hours	61

^A Placement testing required.

^B Course requires prerequisite or co-requisite required.

^C Choose from: GEOG110, SOCI120, COMM215

^D Choose from: LITR254, LITR255, LITR271, MUSC103, VAFA192, VAFA195, CLTR220

^E Choose from: BIOL101, CHEM101, PHYS106, SCIE103, SCIE104

^F See list of [Program Electives](#) below.

^G See additional information about [World Languages](#) requirements below; the 12 credits need to be taken in one world language.

^H Any college-level course may be taken. For students who plan to pursue a teaching degree in Spanish, French, German, or Italian the following courses are recommended: EDUC160 and PSYC190 (which has a prerequisite PSYC110)

¹ Satisfies Arts/Humanities

² Satisfies Critical Thinking

³ Satisfies Diversity

⁴ Satisfies Information Literacy

⁵ Satisfies Oral Communication

⁶ Satisfies Quantitative Literacy

⁷ Satisfies Scientific Literacy

⁸ Satisfies Social Sciences

⁹ Satisfies Technological Competence

¹⁰ Satisfies Writing

Program Electives (Select at least 6 credits)

CLTR110	Communication between Cultures
CLTR220	Introduction to Folklore
COMM215	Intercultural Communication
ECON112	Principles of Economics – Micro
GEOG110	World Geography
HIST111	History of Western Civilization I
HIST112	History of Western Civilization II
HIST113	Global History: Ancient and Medieval World
HIST146	East Asia
HIST155	The Peoples of Russia and Eastern Europe
HLTH200	Introduction to Women’s Health Issues
HOSP110	Introduction to Hospitality Management
HUMN111	Ancient World: Culture and Ideas
HUMN112	Medieval and Renaissance Worlds: Culture and Ideas
HUMN113	Early Modern World: Culture and Ideas
HUMN114	Modern World and Beyond: Culture and Ideas
HUMN120	Survey of World Religions
HUMN121	Christianity
HUMN122	Buddhism—An Introduction
HUMN126	Science and Religion
HUMN128	Holy War, Holy Peace in Islam, Judaism, Christianity
HUMN129	Eastern Religions
LITR236	Introduction to Latin American Literature

LITR254	World Literature I
LITR255	World Literature II
LITR271	World Drama
MKTG215	Principles of Marketing
MGMT100	Introduction to Management
MUSC103	World Music
PHIL125	Introduction to Philosophy
PHIL115	Philosophy of Religion East and West
PSYC110	Introduction to Psychology (<i>This course should be taken by students seeking a teaching degree in a world language</i>)
PSYC200	Social Psychology
SOCI110	Introduction to Sociology
SOCI120	Introduction to Cultural Anthropology
VAFA191	Art History Before 1450
VAFA192	Art History After 1450
VAFA195	Non-Western Art History
WMST110	Introduction to Gender Studies

WORLD LANGUAGES (SELECT AT LEAST 12 CREDITS IN ONE LANGUAGE)

1. Students should select at least 12 credits in one language from the list of approved **World Languages**, with the exception of American Sign Language (AMSL) and International Cultures (CLTR).
2. Students may have the opportunity to receive credit for approved World Languages through prior learning assessment (PLA). Students starting their language coursework at a higher level than beginner or wishing to take courses in a language that currently offers less than twelve credits, should contact the Language & Literature Department for proper placement and advising.

3. Students who choose to take courses in more than one language can use credits in the additional language for General Electives. Please contact the Language and Literature department for proper placement and advising.

Graphic Design

ASSOCIATE OF FINE ARTS

TRANSFER MAJOR

Decisions on the transferability of courses are made by the four-year colleges and differ from school to school. Students enrolled in this major should contact the Transfer Services Office early in their academic program to determine which courses will transfer to the college of their choice.

Arts & Communication Department

Hicks Art Center • Phone (215) 968-8425

Curriculum Code No. **1110**

This major begins with the traditional Fine Arts Foundation experience and then introduces students to the field of graphic design using up-to-date technology and industry-standard software applications. Although graduates from this program typically pursue transfer to professional art schools and complete a baccalaureate degree, this program also provides sufficient training for those seeking to begin an entry-level graphic design career in advertising agencies, publishing companies, television stations, packaging companies, magazines, and other firms in the business of communicating information visually.

All full-time students entering as Graphic Design majors are required to schedule a portfolio review. In the absence of a portfolio, students will schedule an assessment interview for placement purposes. An art advisor will help select the appropriate sequence of courses.

Graduates of this program are able to:

- demonstrate an understanding of the methods and materials associated with fundamental drawing, two-dimensional design, and three-dimensional design;
- read about, write about, and analyze art and art history using basic research, critical thinking skills, and a visual arts vocabulary;
- demonstrate and apply fundamental skills associated with digital imaging, layout, typography, graphic design, and web design; and
- prepare and present a formal, professional-quality portfolio of work.*

* In preparing and presenting a portfolio in VAFA250, students currently need an array of digital skills, such as, but not limited to, media capture, manipulation, and presentation. Students take several required digital courses (e.g. VAMM100, VAGD101, VAGD102, VAGD201, VAMM110) and then reinforce/develop their digital skills across the major. Essential digital competencies associated with portfolio preparation and presentation are assessed within this course.

Bucks County Community College is an accredited institutional member of the National Association of Schools of Arts and Design.

Note: Studio courses can be expensive. Lab Fees may be required.

DEGREE COURSE REQUIREMENTS*

Course	Credits
<u>VAFA100</u> Drawing I ¹	3
<u>VAFA101</u> 2-D Design Fundamentals	3
<u>VAFA102</u> 3-D Design Fundamentals	3
<u>VAFA103</u> Drawing Composition ^E	3
<u>VAFA104</u> 2-D Design Color ^E	3
<u>VAFA250</u> Fine Arts and Design Portfolio Studio ^{E,5,9}	3
<u>VAGD101</u> Layout and Basic Typography ^E	3
<u>VAGD102</u> Illustration: Drawing and Digital ^E	3
<u>VAGD201</u> Graphic Design ^E	3
<u>VAMM100</u> Digital Imaging	3

Course	Credits
<u>VAMM110</u> Web and Interactive Design ^E	3
<u>COLL101</u> College Success Seminar	1
<u>COMP110</u> English Composition I ^{A,E,10}	3
<u>COMP111</u> English Composition II ^{E,2,4,10}	3
Art History ^{C,E,1}	6
Math/Science ^{A,D,6,7}	3/4
Social Science/Diversity ^{B,3,8}	3
Elective ^G	3
Studio Electives ^F	6
Total Credit Hours	61/62

^A Placement testing required.

^B Any of the following may be chosen: COMM111, ECON111, GEOG110, MUSC103, POLI111, PSYC110, SOCI110, SOCI120.

^C Choose one or two of the following for Arts/Humanities: VAFA191, VAFA192, VAFA193; VAGD190 is also an available art history elective.

^D Any of the following may be chosen: SCIE101, SCIE102, SCIE104, CHEM101.

^E Course requires prerequisite and/or co-requisite.

^F Any of the following may be chosen: VACV140, VAFA105, VAPH110, VAPH210, VAPH211, VAFA160, VAFA161, VAFA171, VAFA200, VAFA202, VAGD280, VAMM120, VAMM130, VAMM209, VAMM210.

^G MGMT100, MGMT110, MKTG200, MKTG220 are recommended. However, any college-level course may be chosen to fulfill this free elective.

¹ Satisfies Arts/Humanities.

² Satisfies Critical Thinking.

³ Satisfies Diversity.

⁴ Satisfies Information Literacy.

⁵ Satisfies Oral Communication.

⁶ Satisfies Quantitative Literacy.

⁷ Satisfies Scientific Literacy.

⁸ Satisfies Social Sciences.

⁹ Satisfies Technological Competence.

¹⁰ Satisfies Writing.

Credits exceeding the required minimum cannot be used to satisfy required credits in other course requirements.

Guided Studies

ASSOCIATE OF ARTS

TRANSFER MAJOR

Decisions on the transferability of courses are made by the four-year colleges and differ from school to school. Students enrolled in this major should contact the Transfer Services Office early in their academic program to determine which courses will transfer to the college of their choice.

Department of Language & Literature

Grupp 105 • Phone (215) 968-8150

Curriculum Code No. **1202**

The Guided Studies major provides an efficient vehicle for exploring possible majors while completing some/many courses that will meet requirements of an Associate degree at Bucks and/or earn credits that will transfer as requirements or electives at another institution.

GRADUATES OF THIS PROGRAM ARE ABLE TO:

- Articulate and discuss main concepts, features, and applications of two areas of study (Concentrations).
- Articulate personal qualities and interests as they relate to academic, training, and/or career planning.
- Create a plan for an academic or professional career by researching academic, training, and career opportunities, and matching those opportunities with personal qualities and interests.
- Use software programs commonly needed in workplaces and academic settings.

The Guided Studies Concentrations include the following: Creativity and Aesthetics; Culture and Society; Helping Professions and Public Service; Humanities; Management, Leadership, Entrepreneurship, and Business; Media and Technology; Numbers, Engineering, and Computer Technology; Science, Nature, and Health; Service Industries; Words, Texts, and Communication.

DEGREE COURSE REQUIREMENTS

Course	Credits
<u>COLL101</u> College Success Seminar	1
<u>GUID101</u> Introduction to Guided Studies	1
<u>COMP110</u> English Composition I ^{A,2,10}	3

Course	Credits
<u>CISC100</u> Digital Literacy ⁹	
OR	
<u>CISC110</u> Introduction to Information Systems ⁹	3
OR	
<u>CISC115</u> Computer Science I ⁹	3
Writing Elective ^{B,C,G}	3
Concentration A Elective Course ^{D,E,G}	12-16
Concentration B Elective Course ^{D,E,G}	12-16
<u>GUID250</u> Guided Studies Seminar ^B	1
Arts/Humanities ^{F,G,1}	3
Diversity ^{F,G,3}	3
Information Literacy ^{F,G,4}	3
Oral Communication ^{F,G,5}	3
Quantitative Literacy ^{F,G,6}	3-4
Scientific Literacy ^{F,G,7}	3-4
Social Sciences ^{F,G,8}	3
Electives ^H	3
Total Credit Hours	60-70

^A Placement testing required.

^B Course requires prerequisite and/or co-requisite.

^C Any of the following may be chosen: COMP111, COMP114, JOUR175, MGMT135.

^D Consult the list of approved Concentration Elective courses for this Concentration, which appears on the Guided Studies Concentration Information Sheets.

^E Courses that count for one Concentration may not also count for the other Concentration.

^F Consult the list of approved General Education courses.

G Concentration courses and Writing Electives may also satisfy General Education requirements, as appropriate. Some General Education courses may satisfy more than one General Education requirement, according to the list of approved General Education courses.

H Any college-level course may be chosen.

¹ Satisfies Arts/Humanities

² Satisfies Critical Thinking

³ Satisfies Diversity

⁴ Satisfies Information Literacy

⁵ Satisfies Oral Communication

⁶ Satisfies Quantitative Literacy

⁷ Satisfies Scientific Literacy

⁸ Satisfies Social Sciences

⁹ Satisfies Technological Competence

¹⁰ Satisfies Writing

Health and Physical Education

ASSOCIATE OF ARTS

TRANSFER MAJOR

Decisions on the transferability of courses are made by the four-year colleges and differ from school to school. Students enrolled in this major should contact the Transfer Services Office early in their academic program to determine which courses will transfer to the college of their choice.

Department of Kinesiology and Sport Studies

Linksz Pavillion 208 • Phone (215) 968-8450

Curriculum Code No. **1031**

The Health and Physical Education program prepares undergraduate students for a career in teaching health and physical education. The major is for students planning to transfer to a four-year institution as a health and physical education major. It provides the fundamental courses for students to successfully transfer into upper division course work. Students should plan their major to parallel that of the transfer college.

Program goals:

Graduates in this major will be able to:

- demonstrate an understanding of basic health materials and physical education concepts,
- communicate effectively in both oral and written forms; be able to write lesson plans, and teach a physical education class,

- access, evaluate and use information as it becomes available to continually improve and update their personal health and physical education objectives, and those that they will communicate to their future classes,
- demonstrate an understanding of how they can change their lives and those of their students by improving their attitudes about health, exercise and nutrition.

DEGREE COURSE REQUIREMENTS

Course	Credits
<u>COLL101</u> College Success Seminar	1
<u>COMP110</u> English Composition I ^{A,4,10}	3
<u>COMP111</u> English Composition II ^{B,2,10}	3
<u>COMM110</u> Effective Speaking ^{4,5}	3
<u>KINS180</u> Foundations of Physical Education	3
<u>HLTH103</u> Life and Health ²	3
<u>HLTH110</u> Responding to Emergencies ²	3
<u>HLTH120</u> Nutrition ^{1,4}	3
<u>HLTH130</u> Principles and Applications of Diet and Fitness ⁹	3
<u>SOCI110</u> Introduction to Sociology ^{3,6}	3
<u>PSYC110</u> Introduction to Psychology ^{A,8}	3
<u>KINS183</u> Movement and Physical Education for Early Childhood	3
Kinesiology Skills Courses ^C	12
HUMN Elective ^{D,1}	3

Course	Credits
Math ^{A,E,6}	3
Scientific Literacy ^{A,F,7}	3-4
General Electives	6
Total Credit Hours	61-62

^A Placement testing required.

^B Course requires prerequisite or departmental approval.

^C Choose six from the following: KINS116, KINS133, KINS145, KINS150, KINS155, KINS156, KINS170, KINS175, KINS176, KINS178, KINS179, KINS188, Kins189

^D HUMN111, HUMN112, HUMN113, HUMN114

^E MATH101 or MATH115

^F The following may be taken to fulfill the Scientific Literacy requirement: BIOL101, BIO115, CHEM101

¹ Satisfies Arts/Humanities

² Satisfies Critical Thinking

³ Satisfies Diversity

⁴ Satisfies Information Literacy

⁵ Satisfies Oral Communication

⁶ Satisfies Quantitative Literacy

⁷ Satisfies Scientific Literacy

⁸ Satisfies Social Sciences

⁹ Satisfies Technological Competence

¹⁰ Satisfies Writing

Health Coach

CERTIFICATE PROGRAM

OCCUPATIONAL MAJOR

Department of Kinesiology and Sport Studies

Linksz Pavillion 208 • Phone (215) 968-8450

Curriculum Code No. **3203**

The Health Coach Certificate Program prepares students to work in the health coaching field by providing students with the essential skills of a health and wellness coach. It prepares students who are currently employed and need to enhance their skills, as well as those seeking employment in the health and wellness coaching area.

The program is designed to provide students with a fundamental knowledge base of the following: health and wellness scope of practice, code of ethics, skills to facilitate client behavior change, basics of health and nutrition, design of effective coaching programs, and tools to becoming a health coach entrepreneur.

Bucks County Community College - Health Coach Certificate is an Approved Health and Wellness Coach Training & Education Program by the National Board for Health and Wellness Coaching (NBHWC). Graduates of

this program are eligible to apply for the HWC Certifying Examination to become National Board Certified Health & Wellness Coach (NBC-HWC).

Graduates of this certificate are able to:

- Perform within legal and ethical boundaries for health and wellness coaches;
- Demonstrate effective communication and collaborative skills as related to health coaching;
- Demonstrate an understanding of the basic tools necessary for becoming a health coach entrepreneur;
- Apply health and wellness coaching motivational interviewing principles to facilitate behavior change; and
- Find, evaluate, and discuss scholarly health science articles published in peer-reviewed literature to nutrition and exercise recommendations.

CERTIFICATE COURSE REQUIREMENTS*

Course	Credits
<u>COLL101</u> College Success Seminar	1
<u>COMM105</u> Interpersonal Communication	3
<u>HLTH103</u> Life and Health	3
<u>HLTH120</u> Nutrition ^{A,B}	3
OR	
<u>HLTH120N</u> Nutrition (with a Registered Dietician) ^{A,B,C}	3
<u>HLTH250</u> Introduction to Health Coaching ^B	3
<u>HLTH251</u> HLTH251 Applied Health Coaching ^B	2

Course	Credits
<u>MGMT155</u> Introduction to Entrepreneurship	3
<u>PSYC100</u> Psychology of Personal Awareness	3
OR	
<u>PSYC110</u> Introduction to Psychology ^{A,B}	3
Elective ^D	3
Total Credit Hours	24

^A Placement testing required.

^B Course requires prerequisite.

^C HLTH120N sections are taught by registered dietitians as required by the PA State Board of Nursing.

^D Choose one of the following electives: HLTH121, HLTH130, or COMP110

Health Information Technology

ASSOCIATE OF ARTS

OCCUPATIONAL MAJOR

This major is primarily designed for job preparedness. Students who are considering transferring to a four-year college should be aware that decisions on transferability of courses are made by the four-year colleges and differ from school to school. Students should contact the Transfer Services Office early in their academic program to determine which courses will transfer to the college of their choice.

Health Sciences

Founders Hall 112 • Phone 215-968-8353 (option 3)

Curriculum Code No. **2191**

Students pursuing programs in the medical office laboratory area are required to complete an [Essential Functions form](#) prior to registering for courses.

The Health Information Technology Associate degree program is designed to prepare the student to function effectively in a technical manner in health information departments in a wide variety of healthcare settings. These settings include: ambulatory care, rehabilitation centers, drug and alcohol facilities, local health departments, third-party payers, pharmaceutical companies, acute care, as well as other healthcare related organizations such as insurance companies, consulting firms and technology companies. The curriculum is designed to prepare entry-level graduates with the knowledge and skills necessary to use, analyze, present, abstract, code, add, store and/or retrieve healthcare data for the support of departmental operations and clinical and business decision making in healthcare or related organizations.

Health Information Technology professionals are employed as health data analysts, insurance claims analysts, records technician specialists, clinical coding specialists, physician practice managers, or patient information coordinators.

Graduates of this program are able to

- Perform complex coding and billing tasks using analytical thinking and problem-solving skills;
- Explain how health information is managed, shared, and improved;
- Analyze healthcare data using current software;
- Apply Health Insurance Portability and Accountability Act (HIPAA) regulations to protect the security and confidentiality of patient health information;
- Communicate effectively with identified stakeholders, including patients and families, hospital departments, physician offices, clinics, and insurance companies; and
- Apply record retention and release of information standards/policies/practices.

[View a video about this program](#)

DEGREE COURSE REQUIREMENTS

Course	Credits
<u>BIOL181</u> Human Anatomy and Physiology I ^{C,7}	4
<u>BIOL182</u> Human Anatomy and Physiology II ^C	4
<u>CISC110</u> Introduction to Information Systems ^{A,C}	3
<u>COLL101</u> College Success Seminar	1
<u>COMM110</u> Effective Speaking ^{C,4,5}	3
<u>COMP110</u> English Composition I ^{B,2,10}	3
<u>MATH115</u> Elementary Statistics ^{A,B,C,6}	3
<u>HITT105</u> Legal Aspects of Health Information Technology	3
<u>MEDA120</u> Medical Terminology ^A	3
<u>HITT190</u> Introduction to Health Information Technology	3
<u>HITT207</u> Health Information Technology Applications ^C	3
<u>HITT208</u> Healthcare Quality Improvement ^C	3
<u>HITT217</u> Health Insurance and Reimbursement ^C	3
<u>HITT250</u> Basic Pathophysiology and Pharmacology for Health Information Technology ^C	3
<u>HITT297</u> Medical Coding ^C	3
<u>HITT298</u> Advanced Procedural Coding ^C	3

Course	Credits
<u>HITT299</u> Advanced Diagnostic Coding ^C	3
<u>HITT280</u> Health Information Technology Externship ^C	3
<u>MGMT100</u> Introduction to Business ^{2,3,4,8}	3
<u>MGMT135</u> Business Communication ^{B,4,10}	3
Arts/Humanities ^{D,1}	3
Total Credit Hours	63

^A Open to Credit by Examination.

^B Placement testing required.

^C Course requires prerequisite.

^D Consult the list of courses approved for this subcategory.

¹ Satisfies Arts/Humanities.

² Satisfies Critical Thinking.

³ Satisfies Diversity.

⁴ Satisfies Information Literacy.

⁵ Satisfies Oral Communication.

⁶ Satisfies Quantitative Literacy.

⁷ Satisfies Scientific Literacy.

⁸ Satisfies Social Sciences.

⁹ Satisfies Technological Competence.

¹⁰ Satisfies Writing.

Health Science

ASSOCIATE OF SCIENCE

TRANSFER MAJOR

Department of Health Sciences

Founders Hall 112 • Phone 215-968-8353 (option 3)

Curriculum Code No. **1108**

The Associate Degree in Health Science is designed to prepare the graduate to transfer into baccalaureate degree programs in health fields. The degree also provides the student with pre-requisite courses necessary to enter one of the College's health care programs.

Graduates of this program are able to:

- Demonstrate appropriate, professional written and communication skills;
- Demonstrate effective problem-solving skills and critical thinking skills;
- Demonstrate an understanding of the health care field as it relates to psychological, social, and legal implications; and
- Demonstrate a strong foundation in the health sciences.

DEGREE COURSE REQUIREMENTS

Course	Credits
<u>BIOL181</u> Human Anatomy and Physiology I ^{A,7}	4
<u>BIOL182</u> Human Anatomy and Physiology II ^A	4
<u>BIOL228</u> Microbiology ^A	4
<u>CHEM101</u> Chemistry A ^{A,2,6,7}	4
<u>CISC100</u> Digital Literacy ⁹	3
<u>COLL101</u> College Success Seminar	1
<u>COMM110</u> Effective Speaking ^{B,4,5}	3
<u>COMP110</u> English Composition I ^{B,2,10}	3

Course	Credits
<u>COMP111</u> English Composition II ^{A,2,4,10}	3
<u>HLTH103</u> Life & Health ²	3
OR	
<u>HLTH200</u> Introduction to Women's Health Issues ^{2,3}	3
<u>HLTH120N</u> Nutrition with a Registered Dietician ^{2,4,7}	3
<u>MATH120</u> College Algebra ^{B,6}	4
<u>MEDA120</u> Medical Terminology	3
<u>MEDA205</u> Medical Law and Ethics	3
<u>PSYC110</u> Introduction to Psychology ^{A,2,3,8}	3
<u>PSYC181</u> Developmental Psychology - Lifespan ^A	3
<u>SOCI110</u> Introduction to Sociology ^{2,3,8}	3
Arts/Humanities ^{C,1}	3
General Electives ^D	3
Total Credit Hours	60

^A Course requires prerequisites

^B Placement testing required

^C **Arts/Humanities** Requirement: Consult the approved list of courses.

^D Any course may be chosen. Consult with academic advisor.

¹ Satisfies Arts/Humanities

² Satisfies Critical Thinking

³ Satisfies Diversity

⁴ Satisfies Information Literacy

⁵ Satisfies Oral Communication

⁶ Satisfies Quantitative Literacy

⁷ Satisfies Scientific Literacy

⁸ Satisfies Social Sciences

⁹ Satisfies Technological Competence

¹⁰ Satisfies Writing

Historic Preservation

CERTIFICATE MAJOR

Department of Social and Behavioral Science

Grupp 301 • Phone (215) 968-8270

Curriculum Code No. **3127**

The Historic Preservation occupational program provides opportunities for individuals seeking a career in historic preservation to build knowledge, skills, and behaviors appropriate to the field. The Certificate is designed for job placement, with students finding employment in the preservation field in the workplaces of community planners, developers, architects, contractors, realtors, zoning commissions, certified local governments, museums and historic sites, private and public research agencies, educational institutions, landscape architects, and historic reproduction businesses. Some students also take the Certificate to enhance their present employment situation.

Graduates of this program are able to

- describe the theoretical and historical bases of historic preservation
- identify elements of architectural character appropriate to given styles or forms
- employ research techniques to document historic sites
- apply historic preservation standards and regulations to specific sites
- communicate historic preservation values to the general public in written and oral/video presentation formats
- demonstrate entry-level professional skills rooted in the principles and practice of historic preservation

CERTIFICATE REQUIREMENTS

Course	Credits
<u>COLL101</u> College Success Seminar	1
<u>HIST197</u> History and Theory of Historic Preservation	3
<u>HIST198</u> History of American Architecture	3
<u>HIST199</u> Methodology and Documentation	3
<u>HIST201</u> Building Conservation	3
<u>HIST203</u> Internship for Historic Preservation ^A	3
Total Required Hours	16

9 Credits of Electives Required

<u>HIST191</u> Principles of Historic Preservation	1
<u>HIST192</u> Principles of Historic Building Analysis	1
<u>HIST193</u> Principles of Building Conservation	1
<u>HIST194</u> Historic Preservation Planning and Sustainability	3
<u>HIST195</u> Introduction to Historical Archaeology	3
<u>HIST202</u> Law, Taxes and Zoning for Historic Preservation	3
<u>HIST204</u> Oral History	3
<u>HIST205</u> Principles of Restoration & Rehabilitation	1

Course	Credits
<u>HIST206</u> Restoration Workshop	2
<u>HIST208</u> History, Society and Architecture in the Delaware Valley	3
<u>HIST210</u> Topics in Historic Preservation	3
<u>HIST214</u> Preservation Site Project ^A	3
<u>HIST217</u> Principles of Historic Gardens	1
<u>HIST219</u> Management of Historic Sites	3
<u>HIST222</u> Archaeology Topics	1
<u>HIST246</u> Advanced Techniques in Conservation ^A	3
<u>CLTR220</u> Introduction to Folklore Studies	3
<u>INDP290</u> Independent Study: Historic Preservation	1-3
<u>VAFW190</u> History of American Furniture	3
Total Credit Hours	25

^A Course requires prerequisite.

History

ASSOCIATE OF ARTS

TRANSFER MAJOR

Decisions on the transferability of courses are made by the four-year colleges and differ from school to school. Students enrolled in this major should contact the Transfer Services Office early in their academic program to determine which courses will transfer to the college of their choice.

Department of Social & Behavioral Science

Grupp 301 • Phone (215) 968-8270

Curriculum Code No. **1196**

The study of history and the practice of historical reasoning assist the development of higher level thinking - an intellectual ability with academic and everyday applications. Through research and writing, history majors at Bucks County Community College constantly develop higher level thinking by exercising their critical and analytical muscles. With an eye towards identifying the relationship between the past and present, and the world and nation, the history program immerses students in the perspectives of past civilizations and cultures and leads them to debate and assess the historical genesis of contemporary issues.

This program provides a broad range of transferable courses that inspires students to examine and explore historical knowledge while developing the skills necessary to seek answers that enhance a greater understanding of our nation and world.

Graduates of this program are able to:

- Demonstrate an understanding of the American historical heritage;
- Demonstrate an understanding of the Western historical heritage; and
- Demonstrate an understanding of the historical heritage of at least one Non-Western culture;
- Analyze recent historical literature in the discipline's major journals; and
- Write historical reports using the University of Chicago style.

DEGREE COURSE REQUIREMENTS*

Course	Credits
COMM110 Effective Speaking ^{E,4,5}	3
COLL101 College Success Seminar	1

Course	Credits
<u>COMP110</u> English Composition I ^{A,E,2,10}	3
<u>COMP111</u> English Composition II ^{E,2,4,10}	3
<u>HIST151</u> U.S. History I ^{1,2,3}	3
<u>HIST152</u> U.S. History II ^{1,2,3}	3
<u>HIST111</u> History of Western Civilization I ^{1,2,3}	
OR	
<u>HIST112</u> History of Western Civilization II ^{1,2,3}	3
<u>HIST113</u> Global History: Ancient and Medieval World ^{1,2,3}	
OR	
<u>HIST114</u> Global History: Modern World ^{1,2,3}	3
<u>HIST290</u> History Seminar ^{E,9}	3
<u>GEOG110</u> World Geography ^{2,3,8}	3
History Elective ^F	3
Social Science ^B	6
Arts/Humanities ^B	6
General Electives ^G	12
Quantitative Literacy ^{A,C,6}	3-4
Scientific Literacy ^{D,7}	3-4

Course	Credits
Total Credit Hours	61-63

^A Placement testing required.

^B Consult the list of courses approved for these subcategories [Arts/Humanities](#) and [Social Sciences](#). Any course except GEOG 110 may be chosen.

^C Choose from MATH101, MATH102, MATH115, MATH117, MATH120, MATH122, MATH125 and MATH140.

^D Choose from BIOL101, CHEM101, CHEM121, SCIE101, SCIE102, SCIE103, SCIE104, or SCIE105.

^E Course requires prerequisite and/or corequisite.

^F Choose from HIST 100, 101, 121, 126, 131, 136, 139, 140, 141, 143, 144, 146, 149, 153, 154, 155, 156, 159, 160, 170, 172, 174, 175, 176, 177, 178, 180, 190, 194, 195, 196, 197, 198, 199, 201, 202, 203, 204, 205, 207, 208, 210, 214, 216, 219, 239, 281, or 288.

^G Can be any course, but six consecutive credits of a foreign language are recommended.

¹ Satisfies Arts/Humanities

² Satisfies Critical Thinking

³ Satisfies Diversity

⁴ Satisfies Information Literacy

⁵ Satisfies Oral Communication

⁶ Satisfies Quantitative Literacy

⁷ Satisfies Scientific Literacy

⁸ Satisfies Social Sciences

⁹ Satisfies Technological Competence

¹⁰ Satisfies Writing

Hospitality Management

ASSOCIATE OF ARTS

OCCUPATIONAL MAJOR

This major is primarily designed for job preparedness. Students who are considering transferring to a four-year college should be aware that decisions on transferability of courses are made by the four-year colleges and differ from school to school. Students should contact the Transfer Services office early in their academic programs to determine which courses will transfer to the college of their choice.

Department of Business and Innovation

Grupp 401 • Phone (215) 968-8227

Curriculum Code No. **2022**

Graduates seek employment in positions with job titles such as hotel/restaurant management trainee, front desk supervisor, foodservice supervisor, food production assistant, dietary manager, shift supervisor, or assistant manager in hotel/motel/restaurant/institutional operations.

This Associate Degree program prepares graduates to compete for various entry-level management careers in the hospitality management, commercial and non-commercial foodservice and tourism/lodging industries.

Graduates of this program are able to

- demonstrate basic hospitality industry knowledge and proficiency in the core functions of their hospitality positions;
- communicate effectively with internal and external customers through oral, written or graphic methods to demonstrate professional attitudes and workplace habits;
- employ asset management techniques in various hospitality operations to control costs; and
- organize and direct food production and service in a variety of settings and supervise employees.

DEGREE COURSE REQUIREMENTS*

Course	Credits
<u>ACCT103</u> Introductory Accounting	3
OR	
<u>ACCT105</u> Financial Accounting ^{A,C}	4
<u>CISC100</u> Digital Literacy ⁹	3
OR	
<u>CISC110</u> Introduction to Information Systems ^{A,C,9}	3
<u>COLL101</u> College Success Seminar	1
<u>COMM110</u> Effective Speaking ^{A,C,4,5}	3
<u>CULN120</u> Basic Food Preparation and Management	3
<u>CULN121</u> Advanced Food Preparation and Management ^C	3
<u>CULN130</u> Baking & Decorating - Techniques & Procedures ¹	3
<u>HLTH120</u> Nutrition ^{A,C,2,4,7}	3

Course	Credits
<u>HOSP100</u> Introduction to Hospitality Management	3
<u>HOSP106</u> Safety and Sanitation	2
<u>HOSP110</u> Hospitality Financial Management ^C	3
<u>HOSP200</u> Hotel & Lodging Operations Management ^C	3
<u>HOSP210</u> Hospitality Internship ^C	3
<u>MGMT100</u> Introduction to Business ^{2,3,4,8}	3
<u>MGMT120</u> Business Mathematics ^{A,C,6}	3
<u>MGMT130</u> Business Law	3
<u>MGMT135</u> Business Communication ^{A,C,2,4,10}	3
<u>MKTG112</u> Customer Experience	3
<u>MKTG215</u> Principles of Marketing ^C	3
<u>MKTG220</u> Digital Marketing	3
OR	
<u>MKTG230</u> Social Media Marketing	3
World Language ^{B,1,3}	3
Total Credit Hours	60/61

^A Placement testing required.

^B Any world language may be taken except International Cultures (CLTR)

^C Course requires prerequisite.

- ¹ Satisfies Arts/Humanities.
- ² Satisfies Critical Thinking.
- ³ Satisfies Diversity.
- ⁴ Satisfies Information Literacy.
- ⁵ Satisfies Oral Communication.
- ⁶ Satisfies Quantitative Literacy.
- ⁷ Satisfies Scientific Literacy.
- ⁸ Satisfies Social Sciences.
- ⁹ Satisfies Technological Competence.
- ¹⁰ Satisfies Writing.

Individual Transfer Studies

ASSOCIATE OF ARTS

TRANSFER MAJOR

Decisions on the transferability of courses are made by the four-year colleges and differ from school to school. Students enrolled in this major should contact the Transfer Services Office early in their academic program to determine which courses will transfer to the college of their choice.

Science, Technology, Engineering & Mathematics Department

Founders 110 • Phone (215) 968-8305

Curriculum Code No. **1146**

This major is intended for students whose educational goals are not met by the College's other transfer majors. It allows a student to build a sequence of courses to satisfy specific requirements of a particular four-year college. Upon successful completion it results in the award of the Associate of Arts degree.

Graduates of this program will be able to:

- Develop a plan for achieving vocational and/or transfer goals.
- Prepare a clearly delineated transfer plan tailored to the transfer school of choice.
- Demonstrate Technological Competence as appropriate to transfer major or create and modify word processing, spreadsheet, and electronic presentation documents using appropriate features of the selected application.

Students are admitted to this major only after they have identified the major and the four-year college into which they wish to transfer. They must also document that no other major will allow them to complete the associate of arts degree and transfer all of the required credits. Students are required to supply a catalog from the college or university to which they wish to transfer. They must meet with the Dean of the Science,

Technology, Engineering and Mathematics Department to develop a Transfer Education Plan. This plan must be approved by the Provost.

DEGREE COURSE REQUIREMENTS

Course	Credits
<u>COLL101</u> College Success Seminar	1
<u>COMM110</u> Effective Speaking ^{4,5,E}	3
<u>COMP110</u> English Composition I ^{A,E,2,10}	3
<u>COMP111</u> English Composition II ^{E,2,4,10}	3
Arts/Humanities ^{D,1}	3
Diversity ^{D,3}	3
Social Sciences ^{8,D}	3
<u>CISC100</u> Digital Literacy ⁹ OR	
<u>CISC110</u> Intro to Information Systems ⁹ OR	
Approved Course ⁹	3
Quantitative Literacy ^{6,A,E}	3-4
Scientific Literacy ⁷	3-4
Transferable Credits ^{B,C}	3
Total Credit Hours	61-63

^A Placement testing required.

^B Transferable electives are courses which contribute directly to the fulfillment of students' academic goals; they are selected by students in consultation with and must be approved by the Dean of the Science, Technology, Engineering and Mathematics Department.

^C A Transfer Education Plan (TEP) must be completed in consultation with the Dean of the Science, Technology, Engineering and Mathematics Department and must have the written approval of the department dean.

^D Consult the list of [courses approved for this subcategory](#).

^E Course requires prerequisite.

¹ Satisfies Arts/Humanities.

² Satisfies Critical Thinking.

³ Satisfies Diversity.

⁴ Satisfies Information Literacy.

⁵ Satisfies Oral Communication.

⁶ Satisfies Quantitative Literacy.

⁷ Satisfies Scientific Literacy.

⁸ Satisfies Social Sciences.

⁹ Satisfies Technological Competence.

¹⁰ Satisfies Writing.

Credits exceeding the required minimum cannot be used to satisfy required credits in other course requirements.

Information Science

ASSOCIATE OF SCIENCE

TRANSFER MAJOR

Decisions on the transferability of courses are made by the four-year colleges and differ from school to school. Students enrolled in this major should contact the Transfer Services Office early in their academic program to determine which courses will transfer to the college of their choice.

Science, Technology, Engineering & Mathematics Department

Founders 110 • Phone (215) 968-8305

Curriculum Code No. **1102**

This major prepares students for upper-division course work leading to a bachelor's degree in computer or information science. The major parallels the first two years of study required by similar majors offered at four-year colleges and universities.

Students pursuing this major develop an understanding of the business environment and its information processing needs.

Graduates of this program will be able to:

- demonstrate an ability to develop and effectively use application software as well as the related technology and
- demonstrate proficiency in Program Analysis, algorithm development, coding, testing, debugging and documentation.

DEGREE COURSE REQUIREMENTS*

Course	Credits
<u>CISC110</u> Introduction to Information Systems ^E	3
<u>CISC113</u> Visual Basic Programming I ^E	3
<u>CISC115</u> Computer Science I ^E	4
<u>CISC122</u> Computer Science II ^E	4
<u>CISC213</u> Computer Science III ^{E,9}	4
<u>CISC128</u> Comparative Operating Systems	4
<u>CISC143</u> Essentials of Networking ^{E,7}	4
<u>CISC215</u> Database Design and Application Development ^{E,9}	3
<u>COLL101</u> College Success Seminar	1
<u>VAMM110</u> Web and Interactive Design	3
<u>COMM110</u> Effective Speaking ^{E,4,5}	3
<u>COMP110</u> English Composition I ^{A,E,2,10}	3
<u>COMP111</u> English Composition II ^{E,2,10}	3
<u>MGMT100</u> Introduction to Business ^{2,3,4,8}	3
Arts/Humanities ^{B,1}	3
College level Mathematics Electives ^{A,C,E,6}	6-8
Electives ^D	7

Course

Credits

Total Credit Hours

61-63

^A Placement testing required.

^B Consult the list of [courses approved for this subcategory](#). Any course may be chosen.

^C Choose either MATH117 and 118 or MATH140 and 141 or MATH140 and MATH121.

^D Pre-college level courses do not meet this requirement.

^E Course requires prerequisite.

¹ Satisfies Arts/Humanities.

² Satisfies Critical Thinking.

³ Satisfies Diversity.

⁴ Satisfies Information Literacy.

⁵ Satisfies Oral Communication.

⁶ Satisfies Quantitative Literacy.

⁷ Satisfies Scientific Literacy.

⁸ Satisfies Social Sciences.

⁹ Satisfies Technological Competence.

¹⁰ Satisfies Writing.

Information Technology Studies

ASSOCIATE OF APPLIED SCIENCE

OCCUPATIONAL MAJOR

This major is primarily designed for job preparedness. Students who are considering transferring to a four-year college should be aware that decisions on transferability of courses are made by the four-year colleges and differ from school to school. Students should contact the Transfer Services Office early in their academic program to determine which courses will transfer to the college of their choice.

Science, Technology, Engineering & Mathematics Department

Founders 110 • Phone (215) 968-8305

Curriculum Code No. **2164**

This major is for students whose educational and occupational goals are not met by the Science, Technology, Engineering & Mathematics Department's other occupational and transfer majors. It allows students to build a sequence of computer-related courses to satisfy specific skills needed for employment and, upon successful completion, results in the award of the Associate of Applied Science degree.

This program is not for students planning to transfer. Students are admitted to this major only after they indicate in writing both the occupational objective and specific employment they expect to achieve through

completion of the major. While the major is designed for students beginning their collegiate work, students with fewer than sixty credits of collegiate work may enter the major after receiving permission from both an academic advisor from the Computer Science area and the Science, Technology, Engineering & Mathematics Academic Dean. Students will be admitted to this major only after they indicate both the specific occupational objectives they expect to achieve and a specific sequence of courses that will be taken. This written plan will be used to determine graduation eligibility. Any changes in this sequence must be approved, in writing, by the Science, Technology, Engineering & Mathematics Academic Dean.

Positions that might be available, depending on courses chosen, are those that often combine the skills of two or more computer-related areas, such as:

- programmer/web developer
- web master/developer
- network administrator/developer

Based on the choice of courses, graduates of this program are able to

- interpret, analyze, and solve problems using a computer;
- adapt to changing technology; and
- work effectively as a team member to plan and implement solutions to computer related problems.

DEGREE COURSE REQUIREMENTS*

Course	Credits
<u>COLL101</u> College Success Seminar	1
<u>COMM110</u> Effective Speaking ^{G,4,5}	3
<u>MGMT100</u> Introduction to Business ^{3,4,8}	3
<u>CISC110</u> Intro to Information Systems ^{G,9}	3
Computing Electives ^{F,9}	34
Elective ^H	3
College Level Writing ^{A,B,2,10}	6

Course	Credits
Arts/Humanities ^{C,1}	3
Scientific Literacy ^{E,7}	3-4
College Level Mathematics Electives ^{A,D,6}	3-4
Total Credit Hours	62-64

^A Placement testing required.

^B Select any two of the following (with proper prerequisites): MGMT135, COMP110, COMP111, COMP114.

^C Consult the list of **courses approved for this category**. Any course may be chosen.

^D Consult an advisor. At least one course must be chosen from the following: CISC127, MATH 110, MATH115, MATH117, MATH120, MATH122, MATH125, or MATH140.

^E Consult an advisor. At least one course must be chosen from the approved list of courses. CISC143 is recommended.

^F Computing Electives are courses which contribute directly to the fulfillment of the students' occupational and employment goals; they are selected by the students in consultation with an academic advisor and require the approval of the advisor. An Occupational Education Plan (OEP) must be completed in consultation with the academic advisor and with written approval of the Dean: Science, Technology, Engineering and Mathematics Department. A portfolio is required to fulfill graduation requirements.

^G Course requires prerequisite.

^H Pre-college level courses do not meet this requirement.

¹ Satisfies Arts/Humanities.

² Satisfies Critical Thinking.

³ Satisfies Diversity.

⁴ Satisfies Information Literacy.

⁵ Satisfies Oral Communication.

⁶ Satisfies Quantitative Literacy.

⁷ Satisfies Scientific Literacy.

⁸ Satisfies Social Sciences.

⁹ Satisfies Technological Competence.

¹⁰ Satisfies Writing.

Journalism

ASSOCIATE OF ARTS

TRANSFER MAJOR

Decisions on the transferability of courses are made by the four-year colleges and differ from school to school. Students enrolled in this major should contact the Transfer Services Office early in their academic program to determine which courses will transfer to the college of their choice.

Department of Language & Literature

Grupp 105 • Phone (215) 968-8150

Curriculum Code No. **1045**

Students interested in Journalism at Bucks need to meet with a Journalism faculty member for advising.

The Journalism major prepares students for news reporting, writing, copy editing, and page layout in both print and online journalism. The courses parallel the offerings in the first two years of most four-year journalism programs. The weekly campus newspaper provides practical workshop experience. Students gain computer skills by writing stories in computer labs and by using the Internet and electronic databases to gather information.

THE JOURNALISM PROGRAM OF STUDY IS FOR STUDENTS WHO

- intend to transfer to four-year colleges in journalism or a communication major;
- want to gain employment in entry-level news reporting or editing;
- want to use the most current layout software in publishing or a newspaper position; and
- desire experience in both print and online journalism.

GRADUATES OF THIS PROGRAM ARE ABLE TO

- recognize the complexities of media and society studies;
- practice the skills and knowledge necessary for jobs in print and online journalism, including the fundamentals of news reporting, writing, editing, and page layout;
- demonstrate their understanding of journalism ethics, press freedom, the First Amendment, and libel law.
- demonstrate technological competence appropriate to the major, such as using computer software to do newspaper layout, creating digital video news reports using cameras and professional video and audio editing software, and uploading stories and photographs to the student newspaper website.

Course	Credits
<u>COLL101</u> College Success Seminar	1
<u>COMM110</u> Effective Speaking ^{A,2,4,5}	3
<u>COMM111</u> Media and Society ^{3,8}	3
<u>COMP110</u> English Composition I ^{A,2,10}	3
<u>COMP111</u> English Composition II ^{B,2,4,10}	3

Course	Credits
<u>ECON111</u> Principles of Economics - Macro ^{3,8}	3
<u>HIST151</u> U.S. History: Young America ^{1,3}	3
<u>HIST152</u> U.S. History: Modern America ^{1,3}	3
<u>JOUR175</u> News Reporting and Writing ^{B,4,10}	3
<u>JOUR275</u> Newspaper Editing and Page Layout ^C	3
<u>JOUR276</u> Feature Writing for Newspapers and Magazines ^{10,C}	3
<u>JOUR277</u> Public Affairs Reporting ^C	3
<u>JOUR278</u> Webcast News Production ^{C,9}	3
<u>POLI120</u> American State and Local Government	3
Literature ^{D,1}	3
Journalism Elective ^E	3
Math ^{A,B,F,6}	3
Science ^{A,B,G,7}	4
Social/Behavioral Science ^{G,3,8}	3
Elective ^I	6
Total Credit Hours	62

^A Placement testing required.

^B Prerequisite or co-requisite required.

^C Prerequisite: JOUR175.

^D Choose LITR232 or LITR277.

^E Choose VAMM100 Digital Imaging or JOUR155 Advertising Copywriting.

^F Choose MATH101, MATH115, MATH117, MATH118, MATH120, MATH125, or MATH140.

^G Choose BIOL101, CHEM101, PHYS106 or SCIE103.

^H Choose one from: GEOG110, POLI111, PSYC110, or SOCI110.

^I Pre-college level courses do not fulfill this requirement.

¹ Satisfies Arts/Humanities

² Satisfies Critical Thinking

³ Satisfies Diversity

⁴ Satisfies Information Literacy

⁵ Satisfies Oral Communication

⁶ Satisfies Quantitative Literacy

⁷ Satisfies Scientific Literacy

⁸ Satisfies Social Sciences

⁹ Satisfies Technological Competence

¹⁰ Satisfies Writing

Liberal Arts

ASSOCIATE OF ARTS

TRANSFER MAJOR

Decisions on the transferability of courses are made by the four-year colleges and differ from school to school. Students enrolled in this major should contact the Transfer Services Office early in their academic program to determine which courses will transfer to the college of their choice.

Department of Language & Literature

Grupp 105 • Phone (215) 968-8150

Curriculum Code No. **1002**

This major is designed for students who intend to transfer to a four-year college and complete a liberal arts major. This major requires students to explore multiple humanities and humanistic social science fields, enabling them to make informed choices about more-focused related majors at Bucks or elsewhere. The Liberal Arts major includes a robust General Education program, including courses in science and mathematics.

Students in the Liberal Arts customarily prepare for transfer to bachelor degree majors which may lead to careers in government, education, business, industry, public relations, social services, social entrepreneurship, or journalism.

NOTE: Many transfer institutions require some knowledge of a world language, either for admission or to complete a degree. This requirement varies from one semester to two years of study at the college level (or equivalent). Students planning to transfer should be aware of any world language requirements that may affect their acceptance into certain colleges or programs.

LIBERAL ARTS IS FOR STUDENTS WHO

- intend to transfer to a particular humanities or humanistic social science major offered at a 4-year transfer institution with no specific parallel program offered at Bucks County Community College; and
- need to explore the humanities and humanistic social sciences prior to a commitment to a specific major.

GRADUATES OF THIS PROGRAM ARE ABLE TO

- demonstrate an understanding of human intellectual heritage and creative expression;
- demonstrate an understanding of human diversity and its impact on human experience;
- read critically, analyze and interpret information, and construct logical, well-supported positions;
- communicate effectively orally and in writing;
- demonstrate an understanding of human behavior and/or the relationships of people within societies; and
- find, evaluate, and ethically use information in a variety of formats for a variety of purposes.

DEGREE COURSE REQUIREMENTS *

Course	Credits
<u>CISC100</u> Digital Literacy ⁹	3
OR	
<u>CISC110</u> Introduction to Information Systems ^{A,B,9}	3
<u>COLL101</u> College Success Seminar	1
<u>COMP110</u> English Composition I ^{A,B,2,10}	3
<u>COMP111</u> English Composition II ^{B,2,4,10}	3
Art History ^{A,B,E}	3
History ^G	3
Humanities Survey ^{D,1,3}	3
Literature ^F	3
World Language ^{C,1,3}	6

Course	Credits
Religion ^H OR Philosophy ^I	3
Religion ^H OR Philosophy ^I OR Literature ^F	3
Mathematics ^{A,B,L,6}	3
Oral Communication ^{A,B,K,5}	3
Science ^{B,M,7}	3-4
Social Science ^{J,3,8}	3
General Electives ^O	6
Program Electives ^N	9
Total Credit Hours	61-62

*Completion of non-degree major is not available in this program. Credits exceeding the required minimum cannot be used to satisfy required credits in other course requirements.

^A Placement testing required.

^B Course requires prerequisite and/or co-requisite.

^C Choose any world language, including American Sign Language (but not FCUL); students are encouraged to consider whether their preferred transfer school(s) accept American Sign Language for their language requirements.

^D Choose from HUMN111, HUMN112, HUMN113, HUMN114.

^E Choose from COMT101, MUSC101, MUSC103, MUSC106, MUSC107/HIST239, VAPH196, VACV141, VACV142, VAFA191, VAFA192, VAFA193, VAFA194, VAFA195, VAFW190, VAGD190, HIST198.

^F Choose any LITR.

^G Choose from HIST courses numbered 100-176; HIST178, HIST190; HIST198; HIST204; HIST208; HIST239/MUSC107.

^H Choose from HUMN120 through HUMN129.

^I Choose any PHIL.

^J Choose from COMM111, ECON111, GEOG110, MUSC103, POLI111, PSYC110, SOCI110, SOCI120, WMST110.

^K Consult the list of courses approved for **Oral Communication**. Any course may be chosen.

^L Choose from MATH101, MATH115, MATH120, MATH125, MATH140.

^M Consult the list of courses approved for **Scientific Literacy**. Any course may be chosen. Students are strongly encouraged to consider whether transfer school requires a lab science.

^N Any of the following may be chosen: courses with the prefix CLTR, COMM (except COMM210), LITR, PHIL, HUMN, SOCI; any world language; additional courses listed as options for the Art History Elective; additional courses listed as options for the History Elective; COMP 115; COMP 116; JOUR175; JOUR276; WMST110.

^O Any college-level course may be chosen.

¹ Satisfies Arts/Humanities

² Satisfies Critical Thinking

³ Satisfies Diversity

⁴ Satisfies Information Literacy

⁵ Satisfies Oral Communication

⁶ Satisfies Quantitative Literacy

⁷ Satisfies Scientific Literacy

⁸ Satisfies Social Sciences

⁹ Satisfies Technological Competence

¹⁰ Satisfies Writing

Magnetic Resonance Imaging

CERTIFICATE PROGRAM

Gainful Employment Information is available for this program here: [3201 Magnetic Resonance Imaging](#)

Health Sciences

Lower Bucks Campus • Phone 215-968-8353 (option 5)

Curriculum Code No. **3201**

The Magnetic Resonance Imaging (MRI) Certificate program prepares the post-graduate registered radiologic technologist to use magnetic field and radio waves to produce cross-sectional anatomical images of the human body. MRI technologists operate MRI scanners, picture archiving and communication systems and related equipment.

The MRI Certificate program is a two-semester program. The program consists of online didactic courses and a clinical practicum experience. The MRI Certificate Program is designed to provide the working Radiologic Technologist with the theoretical background and documented clinical experience necessary to sit for the Magnetic Resonance Imaging Post-Primary Certification exam offered by the American Registry of Radiologic Technologist (ARRT).

Applicants must be registered and in good standing with the American Registry of Radiologic Technologist (ARRT) in Radiography, Sonography, Nuclear Medicine or Radiation Therapy. The American Registry of Diagnostic Medical Sonography (ARDMS) for Ultrasound or the Nuclear Medicine Technology Certification Board (NMTCB) for Nuclear Medicine are also accepted.

Graduates of this program are able to:

- function as competent, entry-level professionals;
- demonstrate appropriate, professional communication skills;
- develop and practice effective problem-solving skills and critical thinking skills; and
- conduct him/herself in a professional manner.

ADMISSION PROCEDURES

Magnetic Resonance Imaging Program Information

Admission to the Magnetic Resonance Imaging Certificate program is open only to applicants who are in good standing with the American Registry of Radiologic Technologist (ARRT) in Radiography, Sonography, Nuclear Medicine or Radiation Therapy. The American Registry of Diagnostic Medical Sonography (ARDMS) for Ultrasound or the Nuclear Medicine Technology Certification Board (NMTCB) for Nuclear Medicine are also accepted. To apply for the MRI Certification Program, please complete the following steps:

- Submit an [application](#) to Bucks County Community College.
- Submit [previous college transcripts](#), if applicable, for evaluation by the Admissions Department.
- Submit completed [Magnetic Resonance Imaging Application](#) via email to the Program Director of Radiography.
- Submit current ARRT credential card, current NMTCB card or ARDMS card via email to Program Director of Radiography.

Applications will be accepted from May 1st- June 15th of each year. Accepted students will be notified by July 1st.

CLINICAL EDUCATION REQUIREMENTS:

The number students accepted into clinical education (RADI311 and RADI326) for MRI will be equal to the number of available clinical spaces.

Once accepted into the MRI Clinical Courses, students will be required to:

- Purchase a MRI uniform from preferred uniform vendor.
- Assume all responsibility for transportation to and from the clinical sites assigned.
- Obtain and maintain current CPR certification.
- Obtain and maintain Immunization records.
- Complete an FBI Fingerprint Criminal Background Check, a PA Criminal Background check, Child Abuse clearance and drug screening (until clearance is received, program acceptance is provisional and may be rescinded).
- Show proof of health insurance coverage for the student.

CERTIFICATE REQUIREMENTS

Course	Credits
<u>COLL101</u> College Success Seminar	1

Course	Credits
<u>RADI301</u> Patient Care in MRI	3
<u>RADI306</u> Procedures in MRI	3
<u>RADI311</u> MRI Clinical Practicum I	2
<u>RADI315</u> Cross-sectional Anatomy in Medical Imaging	3
<u>RADI321</u> Physics Instrumentation in MRI	3
<u>RADI326</u> MRI Clinical Practicum II ^A	2
Total Credit Hours	17

^A Course requires prerequisites.

Management

CERTIFICATE PROGRAM

Department of Business and Innovation

Grupp 401 • Phone (215) 968-8227

Curriculum Code No. **3208**

This certificate program provides students with the supervisory skills, knowledge, and techniques to develop and lead effective teams, departments, and/or organizations. Credits earned in the Management Certificate can be applied to our Business AAS degree.

Graduates of this program are able to

- Employ professional and competent communication skills;
- Apply fundamental knowledge of management concepts;
- Identify management skills needed to address business problems; and
- Demonstrate motivational strategies and practices.

Certificate Requirements

Course	Credits
<u>COLL101</u> College Success Seminar	1
<u>COMM105</u> Interpersonal Communications	3
OR	
<u>MGMT135</u> Business Communication ^{A,B}	3
<u>MGMT100</u> Introduction to Business	3
OR	
<u>MGMT110</u> Small Business Management	3
<u>MKTG112</u> Customer Experience	3
OR	
<u>MGMT122</u> Introduction to Business Analytics ^B	3
<u>MGMT140</u> Supervision	3
OR	
<u>MGMT145</u> Negotiation and Conflict Resolution	3
<u>MGMT175</u> Professional Development	3
<u>MGMT230</u> Principles of Management ^B	3
Total Credit Hours	19

^A Placement testing required.

^B Course requires prerequisite.

Mathematics

ASSOCIATE OF SCIENCE

TRANSFER MAJOR

Decisions on the transferability of courses are made by the four-year colleges and differ from school to school. Students enrolled in this major should contact the Transfer Services Office early in their academic program to determine which courses will transfer to the college of their choice.

Science, Technology, Engineering & Mathematics Department

Founders 110 • Phone (215) 968-8305

Curriculum Code No. **1006**

This major prepares students for upper division course work leading to a bachelor's degree in mathematics or a mathematics-related area. Upon completion of the appropriate bachelor's degree, graduates are qualified for entry-level positions in actuarial science, statistics, applied mathematics, operations research, economic forecasting, teaching, and graduate study.

Graduates of this program are able to

- accurately interpret and translate pictorial and descriptive information into mathematical statements;
- solve problems quantitatively and communicate results clearly;
- demonstrate understanding of functions, limits, differentiation and integration, as appropriate;
- demonstrate computational skills in areas of applied mathematics; and
- utilize systems software to implement problem solutions on a computer system.

Although students completing this degree typically transfer to a 4-year institution with the intention of completing a Bachelor's program, they may be employed as teaching assistants or science technicians.

DEGREE COURSE REQUIREMENTS*

Course	Credits
<u>CISC115</u> Computer Science I ^{D,9}	4
<u>CHEM121</u> Chemistry I ^{A,D,6,7}	
OR	4
<u>PHYS121</u> Physics I ^{D,7}	
<u>COLL101</u> College Success Seminar	1
<u>COMP110</u> English Composition I ^{A,D,2,10}	3
<u>COMP111</u> English Composition II ^{D,2,4,10}	3

Course	Credits
COMM110 Effective Speaking ^{D,4,5}	3
MATH121 Discrete Mathematics ^D	3
MATH140 Calculus I ^{A,D,6}	4
MATH141 Calculus II ^D	4
MATH242 Calculus III ^D	4
MATH260 Linear Algebra ^D	3
Arts/Humanities ^{E,1}	3
Electives ^C	13
Mathematics Electives ^B	6
Social Sciences ^{F,3,8}	3
Total Credit Hours	61

^A Placement testing required.

^B Any of the following may be chosen: MATH101, MATH115, MATH125, MATH215, MATH250.

^C Pre-college level courses do not meet this requirement.

^D Course requires prerequisite.

^E Any of the following may be chosen: LITR254, LITR255, LITR261, MUSC101, PHIL125, FREN110, SPAN110, SPAN111, GRMN110, JPNS101, JPNS102.

^F Any of the following may be chosen: PSYC110, SOCI110, POLI111, ECON111.

¹ Satisfies Arts/Humanities.

² Satisfies Critical Thinking.

³ Satisfies Diversity.

⁴ Satisfies Information Literacy.

⁵ Satisfies Oral Communication.

⁶ Satisfies Quantitative Literacy.

⁷ Satisfies Scientific Literacy.

⁸ Satisfies Social Sciences.

⁹ Satisfies Technological Competence.

¹⁰ Satisfies Writing.

Medical Administrative Specialist

CERTIFICATE PROGRAM

Health Sciences

Founders Hall 112 • Phone 215-968-8353 (option 3)

Curriculum Code No. **3148**

Students pursuing programs in the medical office laboratory area are required to complete an [Essential Functions form](#) prior to registering for courses.

Medical Administrative Specialists complete office paperwork, schedule patients, and handle insurance billing in physicians' offices, clinics, or insurance companies. They may work as admitting clerks, billing agents, or in other medical administrative positions in hospital outpatient areas.

Graduates of this program are able to

- Perform basic medical administrative functions including scheduling, appointments, coding, managing accounts receivables and payables and maintaining accounting records
- Perform within the legal and ethical boundaries of a Medical Administrative Specialist
- Demonstrate effective communication strategies in clinical settings; and
- Communicate accurately and respectfully using medical terms descriptive of body systems.

Course	Credits
<u>COLL101</u> College Success Seminar	1
<u>COMM105</u> Interpersonal Communication	3
<u>HITT297</u> Medical Coding ^A	3
<u>MEDA120</u> Medical Terminology ^{A,B}	3
<u>MEDA140</u> Keyboarding and Document Processing ^B	3
<u>MEDA205</u> Medical Law and Ethics	3

Course	Credits
MEDA215 Medical Administrative Procedures ^A	3
MEDA216 Medical Insurance, Billing, & Reimbursement ^A	3
MEDA280 Medical Administrative Specialist Externship ^A	4
Total Credit Hours	26*

^A Course requires prerequisite.

^B Open to Credit by Examination.

* All students are required to pass MEDA140 Keyboarding and Document Processing either by taking the course at Bucks County Community College or by passing the appropriate challenge test given by the Office Administration Area at the College. A competency of 35 words a minute with a 5-error maximum on a 5-minute timed writing is required.

Since the individual circumstances and backgrounds of students vary, all students planning to complete this certificate program must meet with their assigned academic advisor to develop a planned sequence of courses to meet their individual needs.

Medical Assistant

ASSOCIATE OF ARTS

OCCUPATIONAL MAJOR

This major is primarily designed for job preparedness. Students who are considering transferring to a four-year college should be aware that decisions on transferability of courses are made by the four-year colleges and differ from school to school. Students should contact the Transfer Services Office early in their academic program to determine which courses will transfer to the college of their choice.

Health Sciences

Founders Hall 112 • Phone 215-968-8353 (option 3)

Curriculum Code No. **2131**

Students pursuing programs in the medical office laboratory area are required to complete an [Essential Functions form](#) prior to registering for courses.

Medical Assistants work in medical practices, clinics, and hospitals. Medical Assistants have cross-training for both administrative and clinical responsibilities. Their administrative duties include keeping patient records, managing financial matters, handling insurance arrangements, processing correspondence, and managing an office. In the clinical setting, the medical assistant prepares and assists in patient examination, records laboratory data, and obtains patients' vital signs.

Prospective students with inadequate preparation should be aware that they may need additional time to acquire the necessary academic background. Prerequisites and co-requisites for the required courses must be followed.

Graduates of this program are able to

- perform basic administrative medical assisting functions including scheduling appointments, coding, managing accounts receivables and payables, and maintaining accounting records;
- perform basic clinical medical assisting functions including preparing and maintaining examination treatment areas, assisting with examinations, procedures and immunizations, collecting and processing specimens, performing diagnostic testing, and applying proper aseptic techniques;
- perform within legal and ethical boundaries; and
- demonstrate effective communication strategies in clinical settings.

DEGREE COURSE REQUIREMENTS

Course	Credits
<u>ACCT103</u> Introductory Accounting	3
<u>BIOL115</u> Basic Human Anatomy ^{A,C,7}	3
<u>COLL101</u> College Success Seminar	1
<u>COMM105</u> Interpersonal Communication ^{2,3}	3
<u>COMM110</u> Effective Speaking ^{A,4,5}	3
<u>COMP110</u> English Composition I ^{A,C,2,10}	3

Course	Credits
<u>HITT297</u> Medical Coding ^C	3
<u>HLTH110</u> Responding to Emergencies ²	3
<u>MEDA120</u> Medical Terminology ^D	3
<u>MEDA140</u> Keyboarding/Typing ^{D, 9}	3
<u>MEDA200</u> Clinical Procedures I ^C	3
<u>MEDA201</u> Clinical Procedures II ^C	3
<u>MEDA203</u> Laboratory Procedures ^C	3
<u>MEDA205</u> Medical Law and Ethics	3
<u>MEDA215</u> Medical Administrative Procedures ^C	3
<u>MEDA216</u> Medical Insurance, Billing & Reimbursement ^C	3
<u>MEDA220</u> Medical Assistant Externship ^C	4
<u>MGMT120</u> Business Math ^{A,6}	3
<u>MGMT135</u> Business Communication ^{A,2,4,10}	3
<u>PSYC110</u> Introduction to Psychology ^{A,2,3,8}	3
Arts/Humanities ^{B,1}	3
Total Credit Hours	62

- ^A Placement testing required.
- ^B Consult the list of courses approved for this subcategory.
- ^C Course requires prerequisite.
- ^D Open to Credit by Examination.
- ¹ Satisfies Arts/Humanities.
- ² Satisfies Critical Thinking.
- ³ Satisfies Diversity.
- ⁴ Satisfies Information Literacy.
- ⁵ Satisfies Oral Communication.
- ⁶ Satisfies Quantitative Literacy.
- ⁷ Satisfies Scientific Literacy.
- ⁸ Satisfies Social Sciences.
- ⁹ Satisfies Technological Competence.
- ¹⁰ Satisfies Writing.

Medical Assistant

CERTIFICATE PROGRAM

The major is primarily designed for job preparedness. Students who are considering transferring to a four-year college should be aware that decisions on transferability of courses are made by the four-year colleges and differ from school to school. Students should contact the Advising and Transfer Center early in their academic program to determine which course will transfer to the college of their choice.

Health Sciences

Founders Hall 112 • Phone 215-968-8353 (option 3)

Curriculum Code No. **3199**

Students pursuing programs in the medical office laboratory area are required to complete an [Essential Functions form](#) prior to registering for courses.

The Medical Assistant Certificate program offers complete training for students to receive a Certificate with specialization in clinical and administrative medical assisting. Medical Assistants assist physicians and patients in medical offices, clinics, and hospital outpatient departments.

Graduates of this program are able to

- perform basic administrative medical assisting functions, including scheduling appointments, coding, managing accounts receivables and payables, and maintaining accounting records;
- perform basic clinical medical assisting functions, including preparing and maintaining examination treatment areas, assisting with examinations, procedures and immunizations, drawing blood, collecting and processing specimens, performing diagnostic testing, and applying proper aseptic techniques;
- perform within legal and ethical boundaries; and
- demonstrate effective communication strategies in clinical settings.

CERTIFICATE REQUIREMENTS

Course	Credits
<u>BIOL115</u> Basic Human Anatomy ^{A,C}	3
<u>COLL101</u> College Success Seminar	1
<u>COMM105</u> Interpersonal Communication	3
<u>HITT297</u> Medical Coding ^A	3
<u>MEDA120</u> Medical Terminology ^B	3
<u>MEDA140</u> Keyboarding and Typewriting ^B	3
<u>MEDA200</u> Clinical Procedures I ^A	3
<u>MEDA201</u> Clinical Procedures II ^A	3
<u>MEDA203</u> Laboratory Procedures ^A	3
<u>MEDA205</u> Medical Law and Ethics	3
<u>MEDA215</u> Medical Administrative Procedures ^A	3
<u>MEDA216</u> Medical Insurance, Billing, & Reimbursement ^A	3
<u>MEDA220</u> Medical Assistant Externship ^A	4
Total Credit Hours	38

^A Course requires a prerequisite or corequisite.

^B Open to credit by examination.

^C Placement testing required.

Medical Coding/Billing

CERTIFICATE PROGRAM

This major is primarily designed for job preparedness. Students who are considering transferring to a baccalaureate institution should be aware that decisions on transferability of courses are made by the baccalaureate institutions and differ from school to school. Students should contact the Transfer Services Office early in their academic program to determine which courses will transfer to the college of their choice.

Health Sciences

Founders Hall 112 • Phone 215-968-8353 (option 3)

Curriculum Code No. **3174**

Students pursuing programs in the medical office laboratory area are required to complete an [Essential Functions form](#) prior to registering for courses.

The Medical Coding/Billing Certificate program prepares graduates for positions as ambulatory care coders (Current ICD Curriculum, CPT/HCPCs), as well as billers, patient accounts representatives, and other support positions in medical offices, hospitals, and other health care facilities. Upon program completion, graduates are qualified to take the Certified Coding Specialist - Physician's Office - National Certification Examination conducted by the American Health Information Management Association (AHIMA), and the Certified Professional Coder (CPC) National Certification Examination conducted by the American Academy of Professional Coders.

Graduates of this program are able to

- Identify diagnoses and procedures provided in patient information;
- Assign appropriate diagnoses and procedure codes for patient care, population health statistics and billing purposes;
- Integrate information for cost control, quality management, statistics, marketing, and planning;
- Monitor governmental and non-governmental standards;
- Design system controls to monitor patient information security; and
- Communicate effectively with patients, members of the health care team, and billing offices, both face-to-face and via telehealth.

CERTIFICATE REQUIREMENTS

Course	Credits
<u>COLL101</u> College Success Seminar	1

Course	Credits
<u>MEDA140</u> Keyboarding and Document Processing ^A	3
<u>BIOL115</u> Basic Human Anatomy ^B	3
<u>MEDA120</u> Medical Terminology ^A	3
<u>HITT190</u> Introduction to Health Information Technology	3
<u>HITT105</u> Legal Aspects of Health Information Technology	3
<u>HITT217</u> Medical Insurance & Reimbursement ^B	3
<u>HITT285</u> Medical Coding/Billing Externship ^C	3
<u>HITT297</u> Medical Coding ^B	3
<u>HITT298</u> Advanced Procedural Coding ^B	3
<u>HITT299</u> Advanced Diagnostic Coding ^B	3
Total Credit Hours	31

^A Open for credit by examination.

^B Course requires prerequisite or corequisite.

^C Completion of all other HIT courses and permission of the Department of Professional Studies.

Since the individual circumstances and backgrounds of students vary, all students planning to complete this certificate program must meet with their assigned academic advisor to develop a planned sequence of courses to meet their individual needs.

Medical Laboratory Technician

ASSOCIATE OF APPLIED SCIENCE

OCCUPATIONAL MAJOR

Health Sciences

Lower Bucks Campus • Phone 267-685-4832

Curriculum Code No. **2203**

This associate of applied science degree prepares the graduate entering the profession of medical laboratory science. The degree provides the student with a variety of sound clinical experiences in which the student develops competency in skills, and personal and professional growth in the discipline.

This degree program prepares the student both educationally and clinically to take the American Society for Clinical Pathology (ASCP) examination for credentialing and to seek employment as a medical laboratory technician.

Graduates of this program are able to

- Collaborate with diverse health care team members to provide patient care and perform quality, cost-effective laboratory procedures;
- Incorporate concepts learned through classroom instruction and clinical practice to ensure accurate, meaningful laboratory results that reflect current standards of care;
- Practice responsibly in compliance with ethical, social, legal and regulatory requirements of medical laboratory science professionals;
- Utilize appropriate methods for the basic operation and troubleshooting of laboratory instrumentation and information systems;
- Integrate current technologies and procedures into clinical practice

ADMISSION PROCEDURES

This is a restricted program with limited enrollment capacity. The application window opens each December.

1. To begin the MLT program application process, you must be enrolled as a BCCC student. **(Notice of Non-Discrimination)**
2. MLT program requires [TEAS testing](#) (Test of Essential Academic Skills).
3. Conditional approval will be based on the completion of 30 credits from the courses in the general education framework, listed below. The GPA for the 30 credits must be 2.75 or better (no lower than a C in course work), and must include BIOL181, 182, 228, and CHEM101. BIOL228 may be registered for, but not yet taken, when applying to the program. However, it

must be completed prior to the start of the program.

- BIOL181 Anatomy & Physiology I*
- BIOL182 Anatomy & Physiology II*
- BIOL228 Microbiology*
- CHEM101 Chemistry A
- COLL101 College Success Seminar
- COMM110 Effective Speaking**
- COMP110 English Composition I
- COMP114 Technical Writing
- Humanities Elective**
- MATH120 College Algebra
- PSYC110 Intro to Psychology
- MEDA120 Medical Terminology

*Courses must be taken within past 7 years

**Courses may be completed in spring of MLT (second) year

4. Conditional acceptance will be emailed to your BCCC account; the MLT program begins in the summer. MDLB classes are required to be taken as listed under RECOMMENDED SEMESTER SEQUENCE
5. The application window is now closed. The application window will re-open Dec 15.
6. In order to register for MDLB220, students must have completed and uploaded the following: State, FBI and child abuse clearances and physical exam form including hepatitis and flu immunization and 2-step PPD status or QuantiFERON gold test. Students must also show proof of full COVID vaccination. Students must have Healthcare Provider CPR training and must remain current through entirety of program. The 10-parameter drug screen with extended opiates is to be completed thirty days prior to their first clinical day. Directions will be provided to accepted students at required spring orientation.

DEGREE COURSE REQUIREMENTS

Course	Credits
Arts/Humanities ^{C,1}	3
<u>BIOL181</u> Human Anatomy and Physiology I ^{C,7}	4
<u>BIOL182</u> Human Anatomy and Physiology II ^A	4
<u>BIOL228</u> Microbiology ^A	4

Course	Credits
<u>CHEM101</u> Chemistry A ^{B,2,6,7}	4
<u>COLL101</u> College Success Seminar	1
<u>COMM110</u> Effective Speaking ^{B,4,5}	3
<u>COMP110</u> English Composition I ^{B,2,10}	3
<u>COMP114</u> Technical Writing ^A	3
<u>MATH120</u> College Algebra ^{B,6}	4
<u>MEDA120</u> Medical Terminology ^B	3
<u>MDLB101</u> Introduction to Medical Laboratory ^A	3
<u>MDLB201</u> Immunology ^A	3
<u>MDLB205</u> Immunoematology ^A	4
<u>MDLB210</u> Diagnostic Microbiology ^A	4
<u>MDLB215</u> Clinical Chemistry ^{A,9}	4
<u>MDLB220</u> Hematology ^A	4
<u>MDLB225</u> MLT Seminar ^A	3
<u>MDLB230</u> Medical Lab Clinical I ^A	2
<u>MDLB235</u> Medical Lab Clinical II ^A	2

Course	Credits
PSYC110 Intro to Psychology ^{B,2,3,8}	3
Total Credit Hours	68

Please note: MLT specific courses (MDLB) are held weekdays face-to-face

^A Course requires prerequisites.

^B Placement testing required.

^C Arts/Humanities course - consult the list of courses approved for this subcategory. Any course may be chosen.

¹ Satisfies Arts/Humanities.

² Satisfies Critical Thinking.

³ Satisfies Diversity.

⁴ Satisfies Information Literacy.

⁵ Satisfies Oral Communication.

⁶ Satisfies Quantitative Literacy.

⁷ Satisfies Scientific Literacy.

⁸ Satisfies Social Sciences.

⁹ Satisfies Technological Competence.

¹⁰ Satisfies Writing.

- **MLT Essential Functions**
- **Medical Laboratory Technology (MLT) Student Handbook and Attendance Policy**
- **Medical Laboratory Technician Pass Rates**

Meeting, Convention and Event Planning

ASSOCIATE OF ARTS

OCCUPATIONAL MAJOR

This major is primarily designed for job preparedness. Students who are considering transferring to a baccalaureate institution should be aware that decisions on transferability of courses are made by the baccalaureate institutions and differ from school to school. Students should contact the Transfer Services office early in the academic program to determine which courses will transfer to the college of their choice.

Department of Business and Innovation

Grupp 401 • Phone: 215-968-8227

Curriculum Code No. **2171**

This Associate of Arts degree program prepares graduates to compete for various careers in the travel services and meeting planning industries. Program requirements can be completed in a two-year period of full-time study (including one summer employment internship). Graduates seek employment in such positions as meeting planners, conference planners, catering planners, exposition organizers, travel managers, travel agents, corporate planners, association planners, medical meeting planners, trade show coordinators, government meeting planners, incentive travel planners, independent meeting planners, seminar coordinators and sports event planners.

Graduates of this program are able to:

- plan corporate and business meetings and conferences;
- provide a variety of service functions in preparing for an event and managing ancillary services including food and beverage requirements;
- develop sales techniques and marketing plans; and
- develop business presentation techniques for group and convention presentations.

DEGREE COURSE REQUIREMENTS*

Course	Credits
<u>CISC100</u> Digital Literacy ⁹	3
OR	
<u>CISC110</u> Introduction to Information Systems ^{A,B,9}	3
<u>COLL101</u> College Success Seminar	1
<u>COMM110</u> Effective Speaking ^{A,B,4,5}	3
<u>COMP110</u> English Composition I ^{A,B,2,10}	3
<u>CULN130</u> Baking & Decorating-Techniques & Procedures ¹	3
<u>HLTH120</u> Nutrition ^{2,4,7}	3
<u>HOSP100</u> Introduction to Hospitality Management	3

Course	Credits
<u>HOSP110</u> Hospitality Financial Management ^B	3
<u>HOSP111</u> Conference and Business Meeting Planning	3
<u>HOSP200</u> Hotel & Lodging Operations Management ^B	3
<u>HOSP210</u> Hospitality Internship ^{B,C}	3
<u>MGMT100</u> Introduction to Business ^{2,3,4,8}	3
<u>MGMT120</u> Business Mathematics ^{A,B,6}	3
<u>MGMT130</u> Business Law	3
<u>MGMT135</u> Business Communication ^{A,B,2,4,10}	3
<u>MKTG215</u> Principles of Marketing ^B	3
<u>MKTG110</u> Selling	3
<u>MKTG112</u> Customer Experience	3
<u>MKTG220</u> Marketing on the Internet	3
<u>MKTG230</u> Social Media Marketing	3
World Language ^{D,1,3}	3
Total Credit Hours	61

^A Placement testing required.

^B Course requires prerequisite.

^C Approval from program faculty advisor required.

^D Take any world language

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² Satisfies Critical Thinking

³ Satisfies Diversity

⁴ Satisfies Information Literacy

⁵ Satisfies Oral Communication

⁶ Satisfies Quantitative Literacy

⁷ Satisfies Scientific Literacy

⁸ Satisfies Social Sciences

⁹ Satisfies Technological Competence

¹⁰ Satisfies Writing

Meeting, Convention and Event Planning

CERTIFICATE PROGRAM

Department of Business and Innovation

Grupp 401 • Phone (215) 968-8227

Curriculum Code No. **3172**

This certificate program prepares students for such careers as travel agents, travel, conference and meeting planners for hotels, conference centers and catering companies, and meeting organizers and independent meeting planners. Students who complete this program may apply these credits toward the completion of the Meeting, Convention and Event Planning Associate of Arts degree program.

Graduates of this program are able to

- demonstrate skills to plan corporate and business meetings and conferences;
- provide a variety of service functions in preparing for an event and managing ancillary services including food and beverage requirements;
- develop sales techniques and marketing plans;
- develop business presentation techniques for group and convention presentations.

CERTIFICATE REQUIREMENTS

Course	Credits
<u>CISC100</u> Introduction to Computers	3
OR	
<u>CISC110</u> Introduction to Information Systems ^{A,B}	3

Course	Credits
<u>COLL101</u> College Success Seminar	1
<u>HOSP100</u> Introduction to Hospitality Management	3
<u>HOSP111</u> Conference and Meeting Planning	3
<u>HOSP210</u> Hospitality Internship ^{B,C}	3
<u>MGMT135</u> Business Communication ^{A,B}	3
<u>MKTG110</u> Selling	3
<u>MKTG230</u> Social Media Marketing	3
Total Credit Hours	22

^A Placement testing required

^B Course requires prerequisite.

^C Approval from program faculty advisor required.

Multimedia and Digital Arts

ASSOCIATE OF FINE ARTS

TRANSFER MAJOR

Students interested in Multimedia & Digital Arts at Bucks need to meet with a Visual Arts faculty member for advising. Decisions on the transferability of courses are made by the four-year colleges and differ from school to school. Students enrolled in this major should contact the Transfer Services Office early in their academic program to determine which courses will transfer to the college of their choice.

Arts & Communication Department

Hicks Art Center • Phone (215) 968-8425

Curriculum code No. **1175**

The Multimedia & Digital Arts Transfer Major provides students with experiences creating image, text, sound, and video, with an emphasis on digital media. Using interactive design, students will combine these different digital components into projects that convey their ideas as Web sites, multimedia or digital arts projects. The Multimedia & Digital Arts Transfer Major strongly emphasizes the concepts and the fundamentals of design, as well as the artistic skills needed to create interactive projects. The program also prepares students with technical skills using up-to-date technology and industry-standard software applications. Graduates from this program may pursue transfer to professional art schools and complete a baccalaureate degree or begin a career as an entry level digital designer. Digital artists may find work with advertising agencies, publishing companies, television stations, training companies, and other firms in the communications business.

Graduates of this program are able to

- Design and create web sites, digital art and multimedia projects;
- prepare and present a formal, professional-quality portfolio of work which may be used to apply for admission to a four-year college or entry level employment; and*
- apply skills associated with the digital arts including: digital imaging, digital video, photography, web design, and multimedia.

* In preparing and presenting a portfolio in VAMM250, students currently need an array of digital skills, such as, but not limited to, media capture, manipulation, and presentation. Students take several required digital courses (e.g. VAMM100, VAMM110, VAPH110, VACV140) and then reinforce/develop their digital skills across the major. Essential digital competencies associated with portfolio preparation and presentation will be assessed within this course.

Full time day students entering as visual arts and digital arts majors require an assessment interview. A portfolio review is not required for admission, but is recommended for placement purposes. An art advisor will help select the appropriate sequence of courses.

Note: Studio courses can be expensive. Lab Fees may be required.

DEGREE COURSE REQUIREMENTS*

Course	Credits
<u>COLL101</u> College Success Seminar	1
<u>VACV140</u> Digital Editing	3
<u>VACV145</u> Filmmaking	3
<u>VACV230</u> Motion Graphics ^D	3
<u>VAFV100</u> Drawing I	3
<u>VAMM100</u> Digital Imaging ¹	3
<u>VAMM110</u> Web and Interactive Design ^D	3
<u>VAMM120</u> Interface Design	3
<u>VAMM130</u> 3D Modeling Concepts ^D	3
<u>VAMM209</u> Multimedia Concepts I ^D	3
<u>VAMM250</u> Digital Arts Portfolio Studio ^{D,5,9}	3
<u>VAPH110</u> Digital Photography Fundamentals	3
<u>COMP110</u> English Composition I ^{A,10}	3

Course	Credits
<u>COMP111</u> English Composition II ^{D,2,4,10}	3
Art or Flim History ^{C,1}	6
Math/Science ^{A,B,6,7}	3/4
Social Science/Diversity ^{E,3,8}	3
Program Electives	9
Total Credit Hours	61/62

PROGRAM ELECTIVE COURSES (SELECT AT LEAST 9 CREDITS)

Course	Credits
<u>CISC113</u> Visual Basic Programming ^{A,D}	3
<u>CISC115</u> Computer Science 1 ^{A,D}	3
<u>CISC135</u> Programming for Mobile Devices ^D	3
<u>COMM111</u> Media and Society	3
<u>MGMT100</u> Introduction to Business	3
<u>MGMT155</u> Introduction to Entrepreneurship	3
<u>MKTG220</u> Digital Marketing	3
<u>MKTG230</u> Social Media Marketing	3
<u>MUSC124</u> Music Technology	3

Course	Credits
<u>VACV141</u> Art of Independent Cinema ^A	3
<u>VACV142</u> Art of Theatrical Cinema ^A	3
<u>VACV231</u> Video Field Production ^D	3
<u>VACV238</u> Cinematography ^D	3
<u>VACV247</u> Advanced Cinema Video Production ^D	3
<u>VAGD101</u> Layout and Typography ^D	3
<u>VAGD102</u> Illustration: Drawing and Digital ^D	3
<u>VAFA100</u> Drawing Fundamentals ^{A,D}	3
<u>VAFA104</u> 2-D Design Color ^D	3
<u>VAFA191</u> Art History Before 1450 ^{A,D}	3
<u>VAFA192</u> Art History After 1450 ^A	3
<u>VAFA193</u> Modern Art History ^{A,D}	3
<u>VAPH196</u> History of Photography ^{A,D}	3
<u>VAPH210</u> Digital Photography II ^D	3
<u>VAPH211</u> Studio Light ^D	3

^A Placement testing required.

^B Any of the following may be chosen: SCIE101, SCIE102, SCIE104, CHEM101.

^C Any of the following may be chosen: VAFA191, VAFA192, VAFA193, VACV142, VAPH196.

^D Course requires prerequisite.

^E Any of the following may be chosen: COMM111, ECON111, GEOG110, MUSC103, POLI111, PSYC110, SOCI110, SOCI120.

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⁵ Satisfies Oral Communication.

⁶ Satisfies Quantitative Literacy.

⁷ Satisfies Scientific Literacy.

⁸ Satisfies Social Sciences.

⁹ Satisfies Technological Competence.

¹⁰ Satisfies Writing.

Credits exceeding the required minimum cannot be used to satisfy required credits in other course requirements.

Music

ASSOCIATE OF MUSIC

TRANSFER MAJOR

Students interested in Music at Bucks need to meet with a music faculty member for advising. Decisions on the transferability of courses are made by the four-year colleges and differ from school to school. Students enrolled in this major should contact the Transfer Services office early in their academic program to determine which courses will transfer to the college of their choice.

Arts & Communication Department

Hicks 125 • Phone (215) 968-8425

Music Area

Hicks 208 • Phone (215) 968-8425

Curriculum Code No. **1019**

The Music major, which is designed to prepare students for transfer in Music to four-year institutions, is a curriculum that culminates in an Associate of Music degree. Numerous courses in the program fulfill Core Curriculum requirements for general students, and students enrolled in other majors are encouraged to participate in any course or performing ensemble for which they qualify.

Graduates of this program are able to

- perform appropriate musical repertoire competently in both solo and ensemble environments;
- identify and analyze in both written and aural formats the historical forms, styles, genres, and compositional techniques of varied musical repertoire;
- analyze and construct diatonic and chromatic harmonies using techniques of Roman Numeral harmonic analysis, figured bass, and related symbolic nomenclatures;
- employ music technology productively in both practical and creative contexts*; and
- sight-sing melodies accurately and take musical dictation by applying compatible solfege methodologies.

*To fulfill the technological competence requirement, students apply music- specific digital software in MUSC124 to create music compositions.

Students entering as Music majors 1) must successfully pass the qualifying exam for entrance into Music Theory I and Ear Training I, 2) must schedule an interview with a representative of the Music Area, and 3) must perform an audition on their principal instrument (or voice) for placement into the Applied Lesson course sequence. Contact the Music Area (215-968-8425) for complete information and scheduling of these preliminary requirements.

Students must own an instrument and purchase music as required for study.

Students will be charged a music lesson fee for all MUSL courses.

Bucks County Community College is an accredited institutional member of the National Association of Schools of Music (NASM).

DEGREE COURSE REQUIREMENTS:

Course	Credits
<u>COLL101</u> College Success Seminar	1
<u>COMP110</u> English Composition I ^{A,C,2,10}	3
<u>COMP111</u> English Composition II ^{C,2,4,10}	3
<u>MUSC103</u> World Music ^{3,8}	3
<u>MUSC111</u> Music Theory I ^{B,C}	3

Course	Credits
<u>MUSC112</u> Music Theory II ^{B,C}	3
<u>MUSC115</u> Ear Training I ^{B,C}	3
<u>USC116</u> Ear Training II ^{B,C}	3
<u>MUSC124</u> Music Technology ^{1,9}	3
<u>MUSC201</u> Musical Styles and Literature: Music before 1750 ^{B,C}	3
<u>MUSC202</u> Music Styles and Literature: Music after 1750 ^{B,C,5}	3
<u>MUSC211</u> Music Theory III ^{B,C}	3
<u>MUSC212</u> Music Theory IV ^{B,C}	3
<u>MUSC215</u> Ear Training III ^{B,C}	3
<u>MUSC216</u> Ear Training IV ^{B,C}	3
<u>MUSE101</u> Concert Choir ^B	1
<u>MUSG165</u> Group Instruction in Piano Level I ^B	1
<u>MUSL111</u> Principal Lesson I ^{B,C}	1
<u>MUSL110</u> Group Performance	1
<u>MUSL112</u> Principal Lesson II ^{B,C}	1
<u>MUSL211</u> Principal Lesson III ^{B,C}	2

Course	Credits
MUSL212 Principal Lesson IV ^{B,C}	2
Math/Science ^{A,D,6,7}	¾
Ensembles ^{B,E}	3
Musical Survey ^{F,1}	3
Total Credit Hours	62/63

^A Placement testing is required.

^B Audition and/or placement testing required.

^C Course requires prerequisite and/or co-requisite.

^D Any of the following may be chosen: SCIE101, SCIE102, SCIE104, CHEM101.

^E Any of the following may be chosen: MUSE101, MUSE115, MUSE121, MUSE140, MUSE151, MUSE155, MUSE201. All Ensemble courses may be repeated for credit.

^F Any of the following may be chosen: MUSC101, 105, 106.

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⁴ Satisfies Information Literacy.

⁵ Satisfies Oral Communication.

⁶ Satisfies Quantitative Literacy.

⁷ Satisfies Scientific Literacy.

⁸ Satisfies Social Sciences.

⁹ Satisfies Technological Competence.

¹⁰ Satisfies Writing.

Credits exceeding the required minimum cannot be used to satisfy required credits in other course requirements.

Neuroscience

ASSOCIATE OF SCIENCE

TRANSFER MAJOR

Decisions on the transferability of courses are made by the four-year colleges and differ from school to school. Students enrolled in this major should contact the Transfer Services Office early in their academic program to determine which courses will transfer to the college of their choice.

Science, Technology, Engineering & Mathematics Department

Founders 110 • Phone: 968-8305

Curriculum Code No. **1194**

Neuroscience encompasses the neural foundations of normal and abnormal behavior and the application of this knowledge to the diagnosis and treatment of neurological and psychiatric disorders, as well as to the development of brain-based methods and models in fields ranging from education to economics. The Neuroscience Program provides students with an understanding of fundamental neuroscientific concepts in preparation for transfer to a four-year college and completion of the baccalaureate degree in neuroscience or a related discipline, or employment as a technician in the pharmaceutical, medical device, medical instrumentation, or biotechnology industries.

Graduates of this program are able to:

- Describe the structure and function of the nervous system in health and disease;
- Apply the principles of scientific reasoning to neuroscience; and
- Identify, retrieve, read, and discuss neuroscience articles published in the peer-reviewed literature;
- Analyze scientific data using statistical software programs (e.g., SPSS).

DEGREE COURSE REQUIREMENTS

Course	Credits
<u>BIOL121</u> Biological Principles I ^F	4
<u>BIOL122</u> Biological Principles II ^F	4
<u>CHEM121</u> Chemistry I ^{A,F,7}	4
<u>CHEM122</u> Chemistry II ^F	4
<u>COLL101</u> College Success Seminar	1
<u>COMM110</u> Effective Speaking ^{F,2,4,5}	3
<u>COMP110</u> English Composition I ^{A,F,2,10}	3

Course	Credits
<u>COMP111</u> English Composition II ^{F,2,4,10}	3
<u>MATH115</u> Elementary Statistics ^{A,F,6}	3
<u>MATH120</u> College Algebra ^{A,B,F,6}	4
<u>MATH122</u> Trigonometry and Analytical Geometry ^{A,C,F,6}	3
<u>NEUR121</u> Fundamentals of Neuroscience ^F	4
<u>NEUR122</u> Clinical Neuroscience ^F	3
<u>PHIL125</u> Basic Problems of Philosophy ^{1,2,3}	3
<u>PSYC110</u> Introduction to Psychology ^{A,F,2,3,8}	3
<u>PSYC215</u> Introductory Psychological Statistics ^{F,9}	4
Psychology Elective ^{D,F}	3
Free Elective ^E	6
Total Credit Hours	62

^A Placement testing required.

^B MATH122, MATH125, or MATH140 may be substituted.

^C MATH125, MATH140, or MATH141 may be substituted.

^D PSYC181, PSYC200, PSYC230, or PSYC280 may be chosen.

^E Consult academic advisor for recommended courses.

^F Course requires prerequisite.

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² Satisfies Critical Thinking.

³ Satisfies Diversity.

⁴ Satisfies Information Literacy.

⁵ Satisfies Oral Communication.

⁶ Satisfies Quantitative Literacy.

⁷ Satisfies Scientific Literacy.

⁸ Satisfies Social Sciences.

⁹ Satisfies Technological Competence.

¹⁰ Satisfies Writing.

Credits exceeding the required minimum cannot be used to satisfy required credits in other course requirements.

Nursing

ASSOCIATE OF SCIENCE

OCCUPATIONAL MAJOR

Students interested in Nursing at Bucks need to contact their assigned advisor for advising. The nursing program requires additional fees.

Department of Health Sciences

Founders Hall 112 • Phone (215) 968-8327

Curriculum Code No. 2035

The Program in Nursing offered at Bucks County Community College can be completed in two years if the student chooses to be a full-time student, or it can be completed on a part-time basis, and leads to an Associate of Science in Nursing Degree. Graduates of the Program are eligible to take the National Council Licensure Examination for Registered Nurses (NCLEX®RN). Further, the Nursing Program prepares graduates to function as beginning graduate nurses, and to assume entry-level positions as Registered Nurses in acute care and long-term care facilities, homes, clinics, physicians' offices, or other agencies established to meet health care needs. Program learning experiences prepare graduates for associate degree nursing practice, as defined and delineated by the nursing profession. Nursing functions require advanced technical skills, in addition to substantial scientific knowledge.

Nursing students must comply with the rules and policies as presented in the Associate Degree Nursing Student Handbook and Attendance Policy, in addition to those listed in the catalog. Students who meet criteria for readmission into the program must comply with the Nursing Student Handbook that is in place for the class to which they have been readmitted.

The Associate Degree Nursing Program is approved by the Pennsylvania State Board of Nursing.

The Associate Degree Nursing Program at Bucks County Community College located in Newtown, PA is accredited by the: Accreditation Commission for Education in Nursing (ACEN) 3390 Peachtree Road NE, Suite 1400 · Atlanta, Georgia 30326 P. 404.975.5000. The most recent accreditation decision made by the ACEN Board of Commissioners for the Associate Degree nursing program is Continuing Accreditation.



PROGRAM OUTCOMES

- Graduates of this program are able to:
- Incorporate nursing knowledge and principles and standards of quality care and safety into nursing practice to meet the health care needs of diverse patients across the lifespan;
- Utilize sound nursing judgment to provide clinically competent nursing care;
- Engage in inter-professional collaboration while utilizing communication, current technologies, and information literacy in the delivery of patient-centered care;
- Integrate leadership behaviors and appropriate delegation skills to facilitate positive patient outcomes; and
- Demonstrate professionalism, caring, legal, and ethical conduct with adherence to standards of nursing practice and guidelines.

ADMISSION REQUIREMENTS

ADMISSION TO THE PROGRAM OF STUDY

1. All applicants must fulfill the College's admission requirements and the specific requirements for admission to the Nursing Program of Study. They must have applied to the College and have a student number.
2. Meeting High School Requirements
 - All students must have a final official high school transcript on file in Admissions.
 - All students must have completed work equal to a standard high school program with a minimum of 16 units (a unit is the equivalent of a year's worth of study). *These requirements are:*
 1. 4 Units of English
 2. 3 Units of Social Studies
 3. 2 Units of Science: 1 year of High School Chemistry with a grade of C or better or 70% and 1 year of High School Biology with a grade of C or better or 70%.
 4. 2 Units of Mathematics with a grade of C or better or 70% (one unit must be algebra)
3. All students should be seen by an Academic Advisor during the advising period in fall/spring.
4. GED students must meet the same requirements.
5. Students who do not meet the high school requirements must take the following courses:
 - To satisfy the English requirement, a student must take the Writing Placement Test, and score a six (6) or complete COMP107 Introduction to Academic Writing with a grade of "C" or better. (NOTE: Prerequisite courses, as determined by College Placement Tests, need to be taken prior to enrollment in this course).
 - To satisfy the Social Studies requirement, a student must complete PSYC110 Introduction to Psychology, OR SOCI110 Introduction to Sociology, OR a course listed under Arts/Humanities (as listed in the College Catalog).
 - To satisfy the Science requirements, a student must complete BIOL181 Human Anatomy & Physiology I, with a B or better for a deficiency in Biology; CHEM101 Chemistry A for a chemistry deficiency. It is recommended that the student enroll in Biological Science 101 or 102 if seven years have lapsed since their last high school science course.
 - To satisfy the Mathematics requirements, a student must take the placement test to determine the appropriate placement. The student needs to complete MATH095 with a C or better OR receive a score on the Math Placement Test of 5.
6. Students who completed high school work in a **foreign country** must either:
 - Have a course-by-course evaluation performed by a member agency of the National Association of Credential Evaluation Services. The Registrar's Office can provide further information and is the office charged with any subsequent consideration of coursework for transfer credit.

- Earn a "C" or better on the above College courses and a "B" in BIOL181 to meet high school requirements.

Upon completion of the above requirements, and the student's request to Admissions, the curriculum code of 1108 Health Sciences, 2035 Nurse Potential will be assigned.

Conditional Acceptance into the Clinical Component of Nursing Students Must:

1. Be registered as a BCCC student and have a student number and student email address;
2. Meet high school requirements.
3. Have a Curriculum Code of 2035 (Nursing) or 1108 (Health Sciences).
4. Have a grade of B in BIOL181 (Anatomy & Physiology I), BIOL182 (Anatomy & Physiology II), and BIOL228 (Microbiology) and a C or better in ALL courses required in the Nursing Program of Study, if taken before applying for admission into the Clinical component of Nursing.
5. Have a grade of C or better in ALL courses required in the Nursing Program of Study, if these courses have been taken before applying for admission in the Clinical Component of Nursing.
PLEASE NOTE: All program of study courses, with a grade of less than required, taken prior to entry into the Clinical Component of the Nursing Program, MUST BE REPEATED before acceptance into the clinical component.
6. If taken, have completed BIOL181, BIOL182, BIOL 228, HLTH120N (Nutrition), and PSYC110 (Introduction to Psychology) within seven years prior to the start of the first clinical nursing course to be considered current and valid for admission. If any of these courses are older than seven years, they are not considered complete, and their grade does not count for admission consideration;
7. If taken, have completed ADRN113 (Health Assessment in Nursing) and ADRN114 (Pharmacology in Nursing) within five years prior to the start of the first clinical nursing course to be considered current and valid for admission. If any of these courses are older than five years, they are not considered complete, and their grade does not count for admission consideration;
8. Have a minimum cumulative grade point average (GPA) of 3.0 at BCCC, or at their high school, at time of application;
9. Have a pre-entrance standardized exam test score, completed by the application deadline, which meets the requirements of the nursing program:
 - a. ATI TEAS (Test of Essential Academic Skills) exam score of PROFICIENT, taken within one year prior to the application deadline; OR
 - b. SAT exam score of above 980 total score, taken within five years prior to application deadline.
 - c. ACT exam composite score of 20, taken within five years prior to application deadline.

All applicants must have their official standardized test score sent from ATI (TEAS), The College Board, or ACT to BCCC Admissions, by the application deadline, and posted in the student's planning module. If an official test score is not posted, the applicant will not meet admission criteria.

After meeting all the above criteria, students who are **Bucks County residents and have completed the highest number of credits at BCCC in the Nursing Program of Study**, with the minimum final grade requirements, or better, will be considered for conditional acceptance. After being assigned to the tier of credits completed, students will be ranked within the tier by their GPA at the time of application deadline.

After notification of conditional acceptance to the Clinical Component of the Nursing Program, the student is required to submit the following documents, dated June 1st or later, and by a specified deadline to be considered for full acceptance into the Clinical Component of the Nursing Program (The required paperwork will be distributed and discussed at Conditionally Accepted Student Orientation)

1. Current CPR certification (BCLS course)
2. Current Health examination
3. Current Immunizations record

4. Current State Police criminal check and FBI background check that shows the applicant meets the criteria of the Professional Behaviors Policy including being felony-free for ten years. This requirement is related to the Nurse Practice Act (Act No. 185-109) of Pennsylvania which states "... The Board of Nursing shall not issue a license or certificate to an applicant who has been convicted of a felonious act prohibited by the Act of April 14, 1972 (P.L. 233, No. 64), known as "The Controlled substance, Drug Device and Cosmetic Act", or convicted of a felony related to a controlled substance in a court of law of the United States or any other state, territory or country, unless: at least ten years have elapsed from the date of conviction..." In addition, applicants must be free of Prohibitive Offenses (which includes certain drug and substance abuse violations) as found in the Pennsylvania Older Adult Protective Services Act 169 of 1996 and as amended by Act 13 of 1997, within their lifetime. The student must not have been convicted of a driving under the influence of intoxicating liquors and/or drugs within five years of participation in the program. In the event a student is permitted to participate in the program and then it is learned that the student does not meet the criteria as set forth herein, the student will be immediately removed from the program. The student must self-disclose any arrest after their acceptance in the Clinical Component.
5. Current Child Abuse clearance that demonstrates child abuse free in lifetime.
6. Current negative drug and alcohol screen
7. Any other documentation as required by our clinical agencies.

Prior to starting the second year, students must resubmit the following to the Director of Associate Degree Nursing

1. Current CPR certification
2. Current State Police criminal check and FBI background check.
3. Current tuberculosis screening results
4. Current Negative drug and alcohol screening
5. Other requirements that may be dictated by current clinical affiliations.

PROGRESSION THROUGH AND COMPLETION OF THE NURSING PROGRAM REQUIREMENTS

1. A grade of C defined as 73% (on available testing) or better in all required nursing courses, which also includes a grade of satisfactory laboratory and clinical performance and attendance. Students who do not earn a minimum grade of 73% will receive a D+.
2. A grade of C or better in all required non-nursing courses and a B in BIOL181, BIOL182, and BIOL228.
3. A minimum cumulative GPA of 2.75.
4. Students failing to meet the above criteria will be dismissed from the Program.
5. Nursing students must comply with the rules and policies as presented in the Nursing Student Handbook, in addition to those listed in the BCCC catalog.
6. A student may only repeat one nursing course.

DEGREE COURSE REQUIREMENTS*

Course	Credits
<u>ADRN110</u> Introduction to Professional Nursing ^{C,F,6} ,	3

Course	Credits
<u>ADRN111</u> Foundations of Nursing Practice ^{F,G,J,}	4
<u>ADRN112</u> Adult and Family Nursing I ^{F,G,J,}	5
<u>ADRN113</u> Health Assessment in Nursing ^{F,J,}	3
<u>ADRN114</u> Pharmacology in Nursing ^{F,J,}	3
<u>ADRN210</u> Adult and Family Nursing II ^{F,G,J,}	7
<u>ADRN211</u> Adult and Family Nursing III ^{E,F,G,J,9,}	8
<u>ADRN212</u> Transition into Nursing Practice ^{F,J,5,}	4
<u>BIOL181</u> Human Anatomy and Physiology I ^{A,F,7}	4
<u>BIOL182</u> Human Anatomy and Physiology II ^{B,F}	4
<u>BIOL228</u> Microbiology ^{B,F}	4
<u>COLL101</u> College Success Seminar	1
<u>COMP110</u> English Composition I ^{A,C F,,2,10}	3
<u>COMP111</u> English Composition II ^{D,F,2,4,10}	3
<u>HLTH120N</u> Nutrition ^{B,I, K}	3
<u>PSYC110</u> Introduction to Psychology ^{C, D,F,2,3,8}	3
<u>SOCI110</u> Introduction to Sociology ^{E,2,3,8}	3

Course	Credits
Arts/Humanities ^{H,1}	3
Total Credit Hours	68

A Must be taken before or with ADRN111.
 B Must be taken before or with ADRN112.
 C Placement testing required.
 D Must be taken before or with ARDN210.
 E Must be taken before or with ARDM212.
 F Course requires prerequisite.
 G Must be CPR certified prior to enrollment.
 H Consult the list of [courses approved for this subcategory](#) . Any course may be chosen.
 I HLTH120N is taught by a registered dietician as required by the PA State Board of Nursing
 J Course requires co-requisite.
 K HLTH120 cannot be substituted for HLTH120N

- 1 Satisfies Arts/Humanities.
- 2 Satisfies Critical Thinking.
- 3 Satisfies Diversity.
- 4 Satisfies Information Literacy.
- 5 Satisfies Oral Communication.
- 6 Satisfies Quantitative Literacy.
- 7 Satisfies Scientific Literacy.
- 8 Satisfies Social Sciences.
- 9 Satisfies Technological Competence.
- 10 Satisfies Writing.

Credits exceeding the required minimum cannot be used to satisfy required credits in other course requirements.

The Pennsylvania State Board of Nursing has provisionally approved the Program as stated. An I, D, or F, grade in ADRN, prerequisite or corequisite courses will prevent progression.

Paralegal

CERTIFICATE PROGRAM

The Paralegal Studies certificate program at Bucks is approved by the American Bar Association (ABA), the largest professional legal organization in the world.

Department of Business and Innovation

Grupp 401 • Phone (215) 968-8227

Curriculum Code No. **3129**

This all-inclusive certificate paralegal program requires graduates to complete the same law courses required in the associate degree program. It is designed for the following individuals:

- legal secretaries seeking higher positions of employment.
- state and federal employees seeking advancement in government careers.
- people with life experience wanting to change careers.

This certificate program will qualify graduates to serve as paralegal and legal assistants for law offices, government agencies, or businesses involving legal work under the ultimate direction and supervision of attorneys.

The courses in this program are designed to impart knowledge and expertise of legal concepts, the legal system, and substantive and procedural law to qualify graduates to perform work of a legal nature that is customarily, but not exclusively, performed by a lawyer. Paralegals may not provide legal services directly to the public except as permitted by law.

Graduates of this program are able to

- Demonstrate an understanding of the basic concepts of substantive and procedural law including the operation of the legal system and the theory of law;
- Perform the duties of a legal assistant in the public and private sector or in a position relating to the practice of law; and
- Demonstrate an understanding of the ethical obligations and legal limitations of the legal assistant in the public and private sectors.

ADMISSION PROCEDURES

Please note that the following admissions procedures are for those seeking the Paralegal Certificate. Information about the Associate's degree in Paralegal Studies can be found [here](#).

Admission to the **Paralegal Certificate Program** is open only to applicants who possess either an Associate's degree or a Bachelor's degree. To apply for the Paralegal Certificate Program, please complete the following steps:

- Submit an [application](#) to Bucks County Community College.
- Submit an official college transcript to the Registrar's Office.
- Email the Program Director of the Paralegal Program, Brenda Seibert (Brenda.Seibert@bucks.edu) to make an advising appointment.

CERTIFICATE REQUIREMENTS

Course	Credits
<u>LAWS100</u> Introduction to Paralegal Studies	3
<u>MGMT130</u> Business Law	3
<u>LAWS140</u> Civil Practice/Litigation Procedures ^B	3
<u>LAWS220</u> Legal Research I ^B	3
<u>LAWS225</u> Legal Research II ^B	3
<u>LAWS240</u> Negligence and Personal Injury ^B	3
<u>LAWS285</u> Internship ^B	3
Paralegal Electives ^{A, B}	9
Total Credit Hours	30

Since the individual circumstances and backgrounds of students vary, all students planning to complete this certificate program must meet with their assigned academic advisor to develop a planned sequence of courses to meet their individual needs.

^A MGMT145 and/or any LAWS course except LAWS100 may be chosen.

^B Course requires prerequisite.

Paralegal Studies

ASSOCIATE OF ARTS



This program is accredited by the Accreditation Council for Business Schools and Programs (ACBSP) and the American Bar Association.

OCCUPATIONAL MAJOR

This major is primarily designed for job preparedness. Students who are considering transferring to a baccalaureate institution should be aware that decisions on transferability of courses are made by the baccalaureate institution and differ from school to school. Students should contact the Transfer Services office early in their academic programs to determine which courses will transfer to the college of their choice.

Department of Business and Innovation

Grupp 401 • Phone (215) 968-8227

Curriculum Code No. **2128**

This major will qualify students to serve as paralegals for employment by attorneys, law offices, governmental agencies, or other entities in capacities or functions that involve the performance, under the ultimate direction and supervision of attorneys, of specifically delegated substantive legal work. The courses in the major are designed to impart knowledge and expertise of legal concepts, the legal system, and substantive and procedural law that will qualify students to perform work of a legal nature, under supervision, which is customarily, but not exclusively, performed by a lawyer. Paralegals may not provide legal services directly to the public except as permitted by law. In order to provide graduates with the expertise and flexibility required in the growing field, the major offers a basic knowledge in the paralegal field. Upon successful completion of the program in Paralegal Studies, the student should be able to

- Demonstrate an understanding of the basic concepts of substantive and procedural law including the operation of the legal system and the theory of law;
- Perform the duties of a legal assistant in the public and private sector or in a position relating to the practice of law; and
- Demonstrate an understanding of the ethical obligations and legal limitations of the legal assistant in the public and private sectors.

The Paralegal Studies program at Bucks is approved by the American Bar Association (ABA), the largest professional legal organization in the world. This program is accredited by the Accreditation Council for Business Schools and Programs (ACBSP).

DEGREE COURSE REQUIREMENTS *

Course	Credits
<u>CISC100</u> Digital Literacy	3
<u>COLL101</u> College Success Seminar	1
<u>COMM110</u> Effective Speaking ^{2,4,5}	3
<u>COMP110</u> English Composition ^{A,2,10}	3
<u>HIST152</u> U.S. History: Modern America ¹	3
<u>LAWS100</u> Introduction to Paralegal Studies	3
<u>MGMT130</u> Business Law	3
<u>LAWS140</u> Civil Practice/Litigation Procedures	3
<u>LAWS220</u> Legal Research I	3
<u>LAWS225</u> Legal Research II ⁹	3
<u>LAWS240</u> Negligence and Personal Injury: Paralegal	3
<u>LAWS285</u> Paralegal Internship	3
<u>MGMT100</u> Introduction to Business ^{2,3,4,8}	3
<u>MGMT135</u> Business Communication ^{A,2,4,10}	3
<u>POLI111</u> American National Government ⁸	3
<u>POLI120</u> American State and Local Government	3

Course	Credits
Arts/Humanities ^{E,1}	3
MGMT120 Business Math ^{A,6}	3
Science ^{A,F,7}	3-4
Paralegal Electives ^B	9
Total Credit Hours	64-65

^A Placement testing required.

^B Any LAWS course not already required and/or MGMT145 may be chosen. MGMT 130 may not be chosen.

^C Consult the list of courses approved for this category.

^D Course requires prerequisite.

^E Choose from HUMN111, HUMN112, HUMN120.

^F Choose from SCIE102, SCIE103.

¹ Satisfies Arts/Humanities

² Satisfies Critical Thinking

³ Satisfies Diversity

⁴ Satisfies Information Literacy

⁵ Satisfies Oral Communication

⁶ Satisfies Quantitative Literacy

⁷ Satisfies Scientific Literacy

⁸ Satisfies Social Sciences

⁹ Satisfies Technological Competence

¹⁰ Satisfies Writing

Patient Care Technician

CERTIFICATE PROGRAM

Health Sciences

Founders Hall 112 • Phone 215-968-8353 (option 3)

Curriculum Code No. **3204**

Students pursuing programs in the medical office laboratory area are required to complete an [Essential Functions form](#) prior to registering for courses.

The Patient Care Technician Certificate Program prepares students to support nurses, doctors, and other medical staff in caring for patients with physical and mental health concerns. Patient Care Technicians are employed in a wide range of healthcare settings, including hospitals, nursing homes, long-term care facilities, assisted living communities, and more.

The required prerequisite to enter the Introduction to Patient Care course is to be 18 years or older and possess a High School diploma or GED. Interested candidates must have completed a certified nursing

assistant course within 2 years of the start of the Introduction to Patient Care course. Active status on the PA/NJ Nurse Aide registry is preferred but not mandatory. The required prerequisite to enter the Electrocardiography Interpretation course is BIOL115 or BIOL 181 and BIOL182.

Graduates of this program can:

- Utilize effective verbal communication in the health care setting
- Apply culturally competent care to meet the needs of a diverse population
- Provide safe and effective patient care in acute care

PATIENT CARE TECHNICIAN PROGRAM REQUIREMENTS

Course	Credits
<u>BIOL115</u> Basic Human Anatomy ^{B,C}	3
<u>COLL101</u> College Success Seminar	1
<u>HSCI130</u> Introduction to Patient Care ^B	4
<u>HSCI200</u> Electrocardiography Interpretation ^B	4
<u>MEDA120</u> Medical Terminology ^A	3
<u>MEDA204</u> Phlebotomy Procedures and Techniques ^B	4
<u>MEDA205</u> Medical Law and Ethics	3
<u>MEDA287</u> Phlebotomy Externship ^B	3
Total Credit Hours	25

^A Open for credit by examination.

^B Course requires prerequisite.

^C Placement Testing required.

Phlebotomy

CERTIFICATE PROGRAM

Health Sciences

Founders Hall 112 • Phone 215-968-8353 (option 3)

Curriculum Code No. **3166**

Students pursuing programs in the medical office laboratory area are required to complete an [Essential Functions form](#) prior to registering for courses.

The Phlebotomy Certificate program prepares students to collect and process blood samples for medical laboratory analysis. The program provides students with information about basic anatomy, the healthcare delivery system, blood collection equipment, venipuncture and capillary puncture techniques, and medical, legal and ethical implications of blood collection.

The program prepares students to function as phlebotomists in a variety of health care settings such as hospitals, medical clinics, commercial laboratories, and in other settings where blood is collected from patients. All courses must be passed with a grade of C or better to be placed into an externship which offers students 120 hours of practice in an off-site clinical facility. Students must perform a minimum of 100 successful unaided blood draws during their externship. Graduates are eligible to sit for a national examination to become a certified phlebotomy technician.

Graduates of this program are able to

- Identify the role of a phlebotomist in the clinical laboratory environment;
- Use safe and effective phlebotomy procedures in accordance with laboratory policy;
- Utilize knowledge of pre-analytical variables to reduce complications associated with blood collection; and
- Discuss legal and ethical concerns related to the field of phlebotomy.

MEDA 287-the clinical externship- is scheduled Monday through Friday during the day. There are no weekend or evening clinical site hours. Students must complete a total of 120 hours, with a minimum three-day a week availability recommended.

Prior to Externship placement, students must submit (at their own expense):

- Requests for federal and state background checks;
- Child Abuse History Clearance Form;
- Certification of Health Status;
- Certification in CPR: Health Care Provider;
- A mandatory 10-panel expanded opiates drug screen to be completed no sooner than 30 days before the start of the externship.

CERTIFICATE REQUIREMENTS

Course	Credits
BIOL115 Basic Human Anatomy ^{B,C}	3

Course	Credits
<u>COLL101</u> College Success Seminar	1
<u>MEDA120</u> Medical Terminology ^A	3
<u>MEDA204</u> Phlebotomy Procedures & Techniques ^B	4
<u>MEDA205</u> Medical Law and Ethics	3
<u>MEDA287</u> Phlebotomy Externship ^B	3
Total Credit Hours	17

^A Open for credit by examination

^B Course requires prerequisite.

^C Placement Testing required.

Photography

ASSOCIATE OF FINE ARTS

TRANSFER MAJOR

Decisions on the transferability of courses are made by the four-year colleges and differ from school to school. Students enrolled in this major should contact the Transfer Services Office early in their academic program to determine which courses will transfer to the college of their choice.

Arts & Communication Department

Hicks Art Center • Phone (215) 968-8425

Curriculum code No. **1195**

The Photography Transfer Major provides students with experiences in film-based and digital photography. Students develop their technical and creative skills and learn skills applicable to both fine art and commercial photography.

The program includes a balance of film-based and digital photographic techniques allowing students to understand the link between technological innovation and the photographic process. Students are encouraged to develop a unique aesthetic in both commercial and artistic image making. Emphasis on darkroom, digital,

location and studio work develops both the creative ability and the technical skills essential both photography careers and transfer to four-year institutions.

Graduates from this program may pursue transfer to professional art schools and complete a baccalaureate degree or begin a career as an entry-level commercial photographer. Photographers may find work with commercial photography studio or in a business such as wedding and/or portrait photography, advertising agencies, publishing companies, training companies, and other firms in the communications business.

Graduates of this program are able to

- use film-based and digital photography to begin to explore and express their own creative voice;
- prepare and present a formal, professional-quality portfolio of work which may be used to apply for admission to a four-year college and/or as part of an employment application*; and
- demonstrate and apply skills associated with traditional film and digital-based imagery as well as photographic lighting techniques in both the studio and the field.

* In preparing and presenting a portfolio in VAMM250, students currently need an array of digital skills, such as, but not limited to, media capture, manipulation, and presentation. Students take several required digital course (e.g. VAMM100, VAGD101, VAGD201, VAMM110) and then reinforce/develop their digital skills across the major. Essential digital competencies associated with portfolio preparation and presentation will be assessed within this course.

Students entering as photography majors require an assessment interview. A portfolio review is not required for admission but is recommended for placement purposes. An advisor will help select the appropriate sequence of courses.

DEGREE COURSE REQUIREMENTS

Course	Credits
<u>COLL101</u> College Success Seminar	1
<u>COMP110</u> English Composition I ^{A,10}	3
<u>COMP111</u> English Composition II ^{E,2,4,10}	3
<u>VACV140</u> Digital Editing ¹	3

Course	Credits
<u>VAF101</u> 2-D Design Fundamentals	3
<u>VAMM100</u> Digital Imaging ¹	3
<u>VAMM110</u> Web and Interactive Design ^E	3
<u>VAMM250</u> Digital Arts Portfolio Studio ^{E,5,9}	3
<u>VAPH110</u> Digital Photography Fundamentals ¹	3
<u>VAPH151</u> Intro to Photography ¹	3
<u>VAPH157</u> Photography II ^E	3
<u>VAPH196</u> Photo History ¹	3
<u>VAPH210</u> Digital Photography II ^E	3
<u>VAPH211</u> Studio Lighting Fundamentals ^E	3
<u>VAPH257</u> Large Format Photography ^E	3
Art or Film History ^{C,1}	3
Math/Science ^{A,D,6,7}	3/4
Social Science/Diversity ^{B,3,8}	3
Studio Electives ^F	9
Total Credit Hours	61/62

^A Placement testing required.

^B Any of the following may be chosen: COMM111, ECON111, GEOG110, MUSC103, POLI111, PSYC110, SOCI110, SOCI120.

^C Any of the following may be chosen: VAF191, VAF192, VAF193, VACV142.

^D Any of the following may be chosen: SCIE101, SCIE102, SCIE104, CHEM101.

^E Course requires prerequisite and/or corequisite.

^F Any studio course from VACV, VAMM, VAF1, VAGD or VAPH.

¹ Satisfies Arts/Humanities.

² Satisfies Critical Thinking.

³ Satisfies Diversity.

⁴ Satisfies Information Literacy.

⁵ Satisfies Oral Communication.

⁶ Satisfies Quantitative Literacy.

⁷ Satisfies Scientific Literacy.

⁸ Satisfies Social Sciences.

⁹ Satisfies Technological Competence.

¹⁰ Satisfies Writing.

Bucks County Community College is an accredited institutional member of the National Association of Schools of Arts and Design. Credits exceeding the required minimum cannot be used to satisfy required credits in other course requirements.

Pre K-4 Early Education

ASSOCIATE OF ARTS

TRANSFER MAJOR

Decisions on the transferability of courses are made by the four-year colleges and differ from school to school. Students enrolled in this major should contact the Transfer Services Office early in their academic program to determine which courses will transfer to the college of their choice.

Department of Social & Behavioral Science

Grupp 301 • Phone (215) 968-8270

Curriculum Code No. **4192**

The goals of the Early Childhood/Elementary Education Pre K-4 major are to:

- provide a teacher education program with an emphasis in the theory and practice in the Pre K-4 setting in accordance with the framework and program guidelines provided by the Pennsylvania Department of Education and NAEYC;
- prepare students for transfer to institutions offering bachelor's degree programs in Elementary Education Pre K-4 and Special Education by acquiring knowledge of educational theories and practices, through use of interpersonal skills, collaborative skills and field experiences in an educational setting; and
- prepare students to enter the workforce in day care and other early childhood career paths.

Graduates of this program are able to:

- apply their knowledge of educational theories, principles and competencies that are appropriate to the Pre K-4 setting;

- demonstrate an understanding of the characteristics of an effective educator; and
- determine adaptations, accommodations, and cognitive development of diverse students in an inclusive setting.

DEGREE COURSE REQUIREMENTS

Course	Credits
<u>BIOL101</u> Biological Science I ^{A,E,7}	4
<u>COLL101</u> College Success Seminar	1
<u>COMM110</u> Effective Speaking ^{A,D,2,4,5}	3
<u>COMP110</u> English Composition I ^{A,2,10}	3
<u>COMP111</u> English Composition II ^{D,2,4,10}	3
<u>PSYC110</u> Introduction to Psychology ^{A,2,3,8}	3
<u>MATH102</u> Math Concepts for Educators I ^{A,6}	3
<u>MATH105</u> Math Concepts for Educators II ^{D,6}	3
<u>EDUC105</u> Foundations for Early Learning Pre K-4 ^{A,E,F}	3
<u>EDUC115</u> Observing and Recording the Behavior of Young Children ^{E,F}	3
<u>EDUC120</u> Early Learning and Development I - Ages birth - 5 ^{E,F}	3
<u>EDUC130</u> Early Learning and Development II - Adolescence ^{E,F,9}	3
<u>EDUC150</u> Math & Science Experiences for Young Children	3

Course	Credits
<u>EDUC160</u> Introduction to Exceptionalities ^{E,F}	3
<u>EDUC170</u> Language and Literacy Development in Early Childhood: Birth through five years ^{E,F}	3
<u>EDUC200</u> Integrated Art, Movement and Play ^{E,F}	3
History Elective ^{B,1}	3
Humanities or Fine Art Elective ^{C,1}	3

TRANSFER TRACK

Course	Credits
<u>PSYC190</u> Educational Psychology	3
Literature Elective ^H	3
<u>EDUC205</u> Fieldwork, Observation/Assessment in Education I [Special Education/Autism emphasis] ^{D,E,F}	3
OR	
<u>EDUC206</u> Fieldwork, Observation/Assessment in Education II [PreK-4] ^{D,E,F}	3

CAREER TRACK

Course	Credits
<u>LITR246</u> Children's Literature	3

Course	Credits
EDUC220 Practicum in Education ^{D,E,F,I}	6
Total Credit Hours	62

TRANSFER MAJOR:

Course	Credits
PSYC190 Educational Psychology	3
Literature Elective ^H	3
EDUC205 Fieldwork, Observation/Assessment in Education I [Special Education/Autism emphasis] ^{D,E,F}	3

OR

EDUC206 Fieldwork, Observation/Assessment in Education II [PreK-4] ^{D,E,F}	3
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CAREER MAJOR:

Course	Credits
LITR246 Children's Literature	3
EDUC220 Practicum in Education ^{D,E,F,I}	6
Total Credit Hours	15

^A Placement testing required.

^B Either HIST0151 or HIST0152.

^C Any of the following may be chosen: MUSC101, 105, 106, HUMN111,112, 113, 114, 120, VAFA 100,141,181.

^D Course requires prerequisite.

^E Field experience component.

^F PA clearances required.

^G PSYC190. Check with transfer institution or Education Advisor.

^H Transfer track check Literature requirement with transfer institution.

^I This course is for the Career Path track only.

¹ Satisfies Arts/Humanities

² Satisfies Critical Thinking

³ Satisfies Diversity

⁴ Satisfies Information Literacy

⁵ Satisfies Oral Communication

⁶ Satisfies Quantitative Literacy

⁷ Satisfies Scientific Literacy

⁸ Satisfies Social Sciences

⁹ Satisfies Technological Competence

¹⁰ Satisfies Writing

Psychology Interpersonal Emphasis

ASSOCIATE OF ARTS

TRANSFER MAJOR

Department of Social & Behavioral Science

Grupp 301 • Phone (215) 968-8270

Curriculum Code No. **1183**

The goals of the Psychology - Interpersonal Emphasis major are to

- provide a liberal arts experience with an emphasis in the theory and practice of psychology and communication;
- prepare students for transfer to institutions offering bachelor's degree programs in psychology, organizational dynamics, business and psychology, health information management, public health, therapeutic recreation, and liberal studies-social sciences by acquiring knowledge of psychological theories, through the use of interpersonal and collaborative skills.

Graduates of this program are able to

- describe major psychological theories that address interpersonal relations;
- apply psychological principles to their own lives and to the lives of others; and
- demonstrate effective communication and collaborative skills.

DEGREE COURSE REQUIREMENTS

Course	Credits
<u>BIOL101</u> Biological Sciences I ^{A,E,7}	4
<u>CISC100</u> Digital Literacy ⁹	3
<u>COLL101</u> College Success Seminar	1
<u>COMM105</u> Interpersonal Communications ^{2,3}	3
<u>COMM110</u> Effective Speaking ^{A,E,4,5}	3
<u>COMP110</u> English Composition I ^{A,E,2,10}	3
<u>COMP111</u> English Composition II ^{E,2,4,10}	3
<u>PSYC100</u> Psychology of Personal Awareness	3
<u>PSYC105</u> Introduction to Group Dynamics ^{A,E}	3
<u>PSYC110</u> Introduction to Psychology ^{A,2,3,8}	3
Science Elective ^{F,7}	4
College Level Mathematics ⁶	3
Arts/Humanities ^{B,1}	6
Social Science ^{C,8}	3
Psychology Electives ^G	6
General Electives ^D	9
Total Credit Hours	60

^A Placement testing required.

^B Consult the **Arts/Humanities** list for courses approved for inclusion within this subcategory. Any course may be chosen.

^C Consult the **Social Sciences** list of courses approved for this subcategory. Any may be chosen except PSYC110.

^D Pre-college level courses do not meet this requirement.

^E Course requires prerequisite.

^F Select BIOL102, CHEM101, PHYS106, BIOL220, SCIE103, SCIE104, or SCIE105.

^G Select any PSYC course.

¹ Satisfies Arts/Humanities

² Satisfies Critical Thinking

³ Satisfies Diversity

⁴ Satisfies Information Literacy

⁵ Satisfies Oral Communication

⁶ Satisfies Quantitative Literacy

⁷ Satisfies Scientific Literacy

⁸ Satisfies Social Sciences

⁹ Satisfies Technological Competence

¹⁰ Satisfies Writing

Credits exceeding the required minimum cannot be used to satisfy required credits in other course requirements.

Psychology: Pre-Professional Emphasis

ASSOCIATE OF ARTS

TRANSFER MAJOR

Decisions on the transferability of courses are made by the four-year colleges and differ from school to school. Students enrolled in this major should contact the Transfer Services Office early in their academic program to determine which courses will transfer to the college of their choice.

Department of Social & Behavioral Science

Grupp 301 • Phone (215) 968-8270

Curriculum Code No. **1060**

The Psychology Pre-Professional program of study is designed for students who intend to transfer to a four-year college and continue for a bachelors degree in psychology. Often these students intend to pursue a graduate degree in professional psychology. This major emphasizes the scientific foundations of psychology including data analysis and experimental design.

Graduates of this program are able to:

- demonstrate familiarity with the major concepts and theoretical perspectives in psychology;
- read and interpret research reports in the discipline's journals;
- use statistical software (SPSS) to enter and analyze data;
- write research reports employing APA style; and
- apply psychological principles to explain human behavior.

DEGREE COURSE REQUIREMENTS

Course	Credits
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<u>BIOL101</u> Biological Science I ^{F,7}	4
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<u>COLL101</u> College Success Seminar	1
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<u>COMM110</u> Effective Speaking ^{F,4,5}	3
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<u>COMP110</u> English Composition I ^{F,4,10}	3
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<u>COMP111</u> English Composition II ^{F,4,10}	3
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<u>MATH115</u> Elementary Statistics ^{A,F,6}	3
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<u>PSYC110</u> Introduction to Psychology ^{A,2,3}	3
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<u>PSYC215</u> Introductory Psychological Statistics ^{F,9}	4
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<u>PSYC270</u> Experimental Psychology ^F	4
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Arts/Humanities ^{C,1}	6
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Science Elective ^{G,7}	4
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General Electives ^E	12
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Health ^B	3
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Social Science ^{D,3}	3
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Choose two REQUIRED PSYCHOLOGY COURSES from these three categories: (6 credits)

<u>PSYC180</u> Human Growth and Development ^{F,1}	3
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1

OR	
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	Course	Credits
	<u>PSYC181</u> Developmental Psychology: Lifespan ^F	3
2	<u>PSYC200</u> Social Psychology ^F	3
	OR	
	<u>PSYC280</u> Psychology of Abnormal Behavior ^F	3
3	<u>PSYC230</u> Psychology of Neuroscience ^F	3
	Total Credit Hours	62

^A Placement testing required.

^B Select any HLTH course or PSYC100, PSYC120, or PSYC125.

^C Consult the [Arts/Humanities](#) list for courses approved for inclusion within this subcategory. Any course may be chosen.

^D Consult the [Social Sciences](#) list of courses approved for this subcategory. Any may be chosen except PSYC110.

^E Pre-college level courses do not meet this requirement.

^F Course requires prerequisite.

^G Select BIOL102, CHEM101, PHYS106, BIOL220, SCIE103, SCIE104, or SCIE105.

¹ Satisfies Arts/Humanities

² Satisfies Critical Thinking

³ Satisfies Diversity

⁴ Satisfies Information Literacy

⁵ Satisfies Oral Communication

⁶ Satisfies Quantitative Literacy

⁷ Satisfies Scientific Literacy

⁸ Satisfies Social Sciences

⁹ Satisfies Technological Competence

¹⁰ Satisfies Writing

Credits exceeding the required minimum cannot be used to satisfy required credits in other course requirements.

Public Health

ASSOCIATE OF SCIENCE

TRANSFER MAJOR

Department of Health Sciences

Founders Hall 112 • Phone (215) 968-8353 (option3)

Curriculum Code No. **1207**

The Associate of Science in Public Health program prepares students for transfer into baccalaureate degree programs within the field of Public Health or affiliated areas of study.

Graduates of this program are able to:

- describe socioeconomic, behavioral, environmental, and biological factors that affect human health, risk of disease, and health inequity;
- explain how epidemiologists track disease;
- explain the role of government in the provision and regulation of healthcare;
- discuss the nature of oppression and its impact on marginalized communities; and
- critique health information sources.

Degree Course Requirements

Course	Credits
<u>BIOL181</u> Human Anatomy and Physiology I ^{C,7}	4
<u>BIOL182</u> Human Anatomy and Physiology II ^C	4
<u>CISC110</u> Introduction to Information Systems ^{A,C,9}	3
<u>COLL101</u> College Success Seminar	1
<u>COMM110</u> Effective Speaking ^{A,C,4,5}	3
<u>COMP110</u> English Composition I ^{A,C,2,10}	3
<u>COMP111</u> English Composition II ^{C,2,4,10}	3
OR	

Course	Credits
COMP114 Technical Writing ^c	3
HITT190 Introduction to Health Information Technology	3
HITT250 Basic Pathophysiology and Pharmacology for Health Information Technology ^c	3
HLTH103 Life and Health ²	3
MATH115 Elementary Statistics ^{A,C,2,6}	3
MEDA120 Medical Terminology	3
PSYC110 Introduction to Psychology ^{A,C,2,3,8}	3
SOCI110 Introduction to Sociology ^{2,3,8}	3
SOCI140 Peoples of America ³	3
Arts/Humanities ^{B,1}	3
Health Behavior & Behavioral Change Electives ^D	6
Math/Science Elective ^E	3-4
Social Determinants of Health Elective ^F	3
Total Credit Hours	60-61

^A Placement testing required

^B Select from one of the approved Arts/Humanities courses in the catalog

^C Course requires prerequisite.

^D Health Behavior & Behavior Change Electives - Students may select from the following courses that examine behaviors that affect health or interventions / messages that may affect behavior: HLTH120; HLTH120N; HLTH121; HLTH130; HLTH250; MGMT145; MKTG200; MKTG220; MKTG230; SOCI150; PSYC120; PSYC125; PSYC160; or SSWK215.

^E Math/Science Elective - Students may select from the following: BIOL228; CHEM101; CHEM121; MATH101; MATH120; MATH122; MATH125; MATH140; MATH215; or SCIE105.

^F Social Determinants of Health Elective - Students may select from the following courses that examine sociocultural factors that can impact health: CLTR110; COMM215; HLTH200; POLI111; POLI120; PSYC200; SSWK110; SOCI230; or WMST110.

¹ Satisfies Arts/Humanities

² Satisfies Critical Thinking

³ Satisfies Diversity

⁴ Satisfies Information Literacy

⁵ Satisfies Oral Communication

⁶ Satisfies Quantitative Literacy

⁷ Satisfies Scientific Literacy

⁸ Satisfies Social Sciences

⁹ Satisfies Technological Competence

¹⁰ Satisfies Writing

Radiography

ASSOCIATE OF APPLIED SCIENCE

OCCUPATIONAL MAJOR

Department of Professional Studies: Allied Health & Nursing

Lower Bucks Campus • Phone (267) 685-4821

Curriculum Code No. **2202**

The associate degree of applied science in radiography prepares the graduate entering the profession of radiography. The degree provides the student with a variety of sound clinical experiences in which the student develops competency in skills, and personal and professional growth in the discipline.

This degree program prepares the student both educationally and clinically to take the American Registry of Radiologic Technologists (ARRT) examination for credentialing and registration and to seek employment as a radiologic technologist.

Graduates of this program are able to:

- function as competent, entry-level professionals that meet the medical imaging needs of the surrounding community;
- demonstrate appropriate, professional communication skills;
- develop and practice effective problem solving skills and critical thinking skills; and
- conduct him/herself in a professional manner.

ADMISSION PROCEDURES

[Radiography program information](#)

DEGREE COURSE REQUIREMENTS*

Course	Credits
<u>RADI100</u> Introduction to Radiography ^A	3

Course	Credits
<u>RADI105</u> Radiographic Procedures I ^B	3
<u>RADI110</u> Image Production and Evaluation ^B	3
<u>RADI115</u> Radiation Physics ^B	3
<u>RADI120</u> Clinical Experience I ^B	2
<u>RADI125</u> Radiographic Procedures II ^B	3
<u>RADI130</u> Radiation Protection and Biology ^B	3
<u>RADI135</u> Advanced Imaging I ^{B,9}	3
<u>RADI140</u> Clinical Experience II ^B	2
<u>RADI200</u> Clinical Experience III ^B	3
<u>RADI205</u> Radiographic Procedures III ^B	3
<u>RADI210</u> Advanced Imaging II ^B	3
<u>RADI215</u> Clinical Experience IV ^B	3
<u>RADI220</u> Registry Review ^B	2
<u>RADI225</u> Pathology ^B	2
<u>RADI230</u> Quality Assurance ^B	2
<u>RADI235</u> Clinical Experience V ^B	3

Course	Credits
MEDA120 Medical Terminology	3
MATH120 College Algebra ^{C,6}	4
BIOL181 Anatomy and Physiology I ^{A,7}	4
COLL101 College Success Seminar	1
COMP110 English Composition I ^{C,2,10}	3
COMP111 English Composition II ^{A,2,4,10}	3
PSYC110 Introduction to Psychology ^{2,3,8}	3
COMM110 Effective Speaking ^{A,4,5}	3
Arts/Humanities Elective ^{D,1}	3
Total Credit Hours	73

^A Course requires prerequisites.

^B All courses in the Radiography Major must be taken in sequential order.

^C Placement testing required.

^D Arts/Humanities course- consult the list of **courses approved for this subcategory**. Any course may be chosen.

¹ Satisfies Arts/Humanities.

² Satisfies Critical Thinking.

³ Satisfies Diversity.

⁴ Satisfies Information Literacy.

⁵ Satisfies Oral Communication.

⁶ Satisfies Quantitative Literacy.

⁷ Satisfies Scientific Literacy.

⁸ Satisfies Social Sciences.

⁹ Satisfies Technological Competence.

¹⁰ Satisfies Writing.

Recreation Leadership

CERTIFICATE PROGRAM

Department of Kinesiology and Sport Studies

Linksz Pavillion 208 • Phone (215) 968-8450

Curriculum Code No. **3190**

The Recreation Leadership Certificate Program prepares the student to work in the recreation field by providing students the following skills: lifeguarding, professional CPR/First Aid, water safety instructor training, advanced skills and standards for ropes course training, and facility and events planning. The program is designed to provide students with a fundamental knowledge base of the recreation field, employment options available within this area, and to provide the students the necessary skills for gainful employment in recreation.

This program prepares students to work as aquatic directors, park service personnel, outdoor educators, program specialists and ropes course instructors.

Graduates of this certificate are able to:

- Explain the history of the outdoor recreation program and field;
- Describe the appropriate rescues needed per criteria of victim;
- Explain and describe the procedures to perform CPR (Adult, Child, Infant);
- Explain and describe the procedures to perform First Aid;
- Explain and describe the procedures to perform AED (Adult, Child);
- Describe the counseling skills and procedures to implement a counseling session;
- Describe and explain how to set up a ropes course, belay and perform a rescue;
- Explain and describe the six basic strokes in aquatics and explain stroke mechanics;
- Explain and describe how to plan an event; and
- Explain and describe the main functions and areas of concern surrounding facility design.

CERTIFICATE COURSE REQUIREMENTS*

Course	Credits
<u>COLL101</u> College Success Seminar	1
<u>HLTH110</u> Responding to Emergencies	3
<u>KINS155</u> Lifeguarding	2

Course	Credits
<u>KINS156</u> Water Safety Instructor ^A	2
<u>KINS190</u> Outdoor Recreation	3
<u>KINS191</u> Outdoor Recreation Leadership	3
<u>KINS170</u> Individual Fitness and Wellness	2
<u>SPMT202</u> Facility and Events Planning	3
Total Credit Hours	19

^A Requires prerequisite and/or co requisite.

Science

ASSOCIATE OF SCIENCE

TRANSFER MAJOR

Decisions on the transferability of courses are made by the four-year colleges and differ from school to school. Students enrolled in this major should contact the Transfer Services Office early in their academic program to determine which courses will transfer to the college of their choice.

Science, Technology, Engineering & Mathematics Department

Founders 110 • Phone (215)968-8305

Curriculum Code No. **1117**

The Science major is designed for students who wish to major in a branch of science in a four-year institution, but are undecided about the specific discipline during their stay at Bucks. The major will enable students to broaden their experience in mathematics and different areas of science. Transferring students will lack specializations but will be able to transfer into any science major with a suitable selection of electives. Students in the major should keep in close touch with their advisors in the division.

Graduates of this program are able to

- apply mathematical concepts and methods to phenomena and problems as related to chemistry;
- apply mathematical concepts and methods to phenomena and problems as related to physical science;
- describe the energy transformations in living systems; and
- demonstrate ability to use networks, world-wide web, and other communication tools in a variety of settings.

Prospective students with inadequate academic preparations should be aware that they may need additional time to acquire the necessary academic background. Prerequisites and corequisites for the required courses must be followed.

DEGREE COURSE REQUIREMENTS

Course	Credits
<u>COLL101</u> College Success Seminar	1
<u>COMP110</u> English Composition I ^{A,H,2,10}	3
<u>COMP111</u> English Composition II ^{H,2,4,10}	3
<u>COMM110</u> Effective Speaking ^{H,2,4,5}	3
<u>CISC110</u> Intro to Information Systems ^{A,H,9}	3
<u>CHEM121</u> Chemistry I ^{A,H,6,7}	4
<u>PHYS106</u> Physics A ^{H,7}	
OR	
<u>PHYS121</u> Physics I ^{H,7}	4
Biology Elective ^{B,H}	4
Electives ^G	6
College Level Mathematics Electives ^{A,E,6}	10-12
College Level Mathematics ^{A,E,6} or Science ^{B,C,D} Elective	4

Course	Credits
Science Electives ^{B,C,D}	8
Social Science ^{F,8}	3
Arts/Humanities ^{F,1}	3
Diversity ^{F,3}	3
Total Credit Hours	62-64

^A Placement testing required.

^B Except BIOL101, BIOL102, BIOL115.

^C Except CHEM100, CHEM101, CHEM102.

^D Except SCIE101.

^E Except MATH101, MATH102, MATH105, MATH110, MATH117, MATH118.

^F Consult the list of **courses approved for this subcategory**. Any course may be chosen.

^G Pre-college level courses do not meet this requirement.

^H Course requires prerequisite.

¹ Satisfies Arts/Humanities.

² Satisfies Critical Thinking.

³ Satisfies Diversity.

⁴ Satisfies Information Literacy.

⁵ Satisfies Oral Communication.

⁶ Satisfies Quantitative Literacy.

⁷ Satisfies Scientific Literacy.

⁸ Satisfies Social Sciences.

⁹ Satisfies Technological Competence.

¹⁰ Satisfies Writing.

Credits exceeding the required minimum cannot be used to satisfy required credits in other course requirements.

Secondary Education: History

ASSOCIATE OF ARTS

TRANSFER MAJOR

Decisions on the transferability of courses are made by the four-year colleges and differ from school to school. Students enrolled in this major should contact the Transfer Services Office early in their academic program to determine which courses will transfer to the college of their choice.

Department of Social & Behavioral Sciences

Grupp 301 • Phone (215) 968-8270

Curriculum Code No. **1180**

The Secondary Education History major is designed for students who plan to teach history in a high school setting. The program provides the first two years of an undergraduate degree leading to a baccalaureate degree in Secondary Education with an emphasis in history.

Prospective students with academic deficiencies should be aware that they will need additional time to acquire the necessary academic background. Prerequisites and corequisites for required courses must be followed.

Graduates of this program are able to

- Demonstrate understanding of the American historical heritage;
- Demonstrate understanding of the Western historical heritage; and
- Write historical reports using the University of Chicago style.

DEGREE COURSE REQUIREMENTS

Course	Credits
<u>COLL101</u> College Success Seminar	1
<u>COMP110</u> English Composition I ^{A,E,2,10}	3
<u>COMP111</u> English Composition II ^{E,2,4,10}	3
<u>COMM110</u> Effective Speaking ^{E,4,5}	3
<u>EDUC100</u> Foundations of Education ^E	3
<u>EDUC160</u> Introduction to Exceptionalities	3
<u>PSYC110</u> Introduction to Psychology ^{2,3,8}	3
<u>PSYC190</u> Educational Psychology ^{E,2,3}	3

Course	Credits
<u>HIST111</u> History of Western Civilization I ^{1,2,3}	3
<u>HIST112</u> History of Western Civilization II ^{1,2,3}	3
<u>HIST151</u> U.S. History: Young America ^{1,2,3}	3
<u>HIST152</u> U.S. History: Modern America ^{1,2,3}	3
<u>HIST290</u> History Seminar ^{E,9}	3
<u>POLI111</u> American National Government ^{3,8}	3
History Elective ^F	3
Social Science ^{B,8}	6
Arts/Humanities ^{B,1}	6
College Level Math ^{A,C,6}	3-4
College Level Science ^{D,7}	3-4
Total Credit Hours	61-63

^A Placement testing required.

^B Consult the list of courses approved for these subcategories, **Arts/Humanities** and **Social Sciences**. Any course may be chosen.

^C Choose from MATH101, MATH102, MATH115, MATH117, MATH120, MATH122, MATH125 and MATH140.

^D Choose from BIOL101, CHEM101, CHEM121, SCIE101, SCIE102, SCIE103, SCIE104, or SCIE105.

^E Course requires prerequisite and/or corequisite.

^F Choose from HIST 100, 101, 139, 146, 149, 155, 159, 170, 172, 175, 178, 190, 194, 195, 197, 198, 199, 201, 202, 203, 204, 205, 206, 208, 210, 219, 239 or 246.

¹ Satisfies Arts/Humanities

² Satisfies Critical Thinking

³ Satisfies Diversity

⁴ Satisfies Information Literacy

⁵ Satisfies Oral Communication

⁶ Satisfies Quantitative Literacy

⁷ Satisfies Scientific Literacy

⁸ Satisfies Social Sciences

⁹ Satisfies Technological Competence

¹⁰ Satisfies Writing

Secondary Education: Mathematics

ASSOCIATE OF SCIENCE

TRANSFER MAJOR

Decisions on the transferability of courses are made by the four-year colleges and differ from school to school. Students enrolled in this major should contact the Transfer Services office early in their academic program to determine which courses will be transfer to the college of their choice.

Science, Technology, Engineering & Mathematics Department

Founders 110 • Phone (215) 968-8305

Curriculum Code No. **1177**

The Secondary Education – Mathematics major is designed for students who plan to teach Mathematics in a high school setting. The program provides the first two years of an undergraduate degree leading to a baccalaureate degree in Secondary Education with an emphasis on Mathematics.

Prospective students with academic deficiencies should be aware that they will need additional time to acquire the necessary academic background. Prerequisites and co-requisites for required courses must be followed.

Graduates of this program are able to

- accurately interpret and translate pictorial and descriptive information into mathematical statements;
- solve problems quantitatively and communicate results clearly;
- demonstrate understanding of numeric, algebraic and geometric reasoning;
- demonstrate computational skills in areas of applied mathematics.
- utilize systems software to implement problem solving on a computer system.

Although students completing this degree typically transfer to a 4-year institution with the intention of completing a Bachelor's program, they may be employed as teaching assistants or science technicians.

DEGREE COURSE REQUIREMENTS*

Course	Credits
<u>CISC115</u> Computer Science I ^{D,9}	4
<u>COLL101</u> College Success Seminar	1

Course	Credits
<u>PHYS121</u> Physics I ^{D,7}	4
<u>COMP110</u> English Composition I ^{A,D,2,10}	3
<u>COMP111</u> English Composition II ^{D,2,4,10}	3
<u>COMM110</u> Effective Speaking ^{D,4,5}	3
<u>MATH140</u> Calculus I ^{A,D,6}	4
<u>MATH141</u> Calculus II ^D	4
<u>MATH242</u> Calculus III ^D	4
<u>MATH260</u> Linear Algebra ^D	3
<u>PSYC110</u> Introduction to Psychology ^{2,3,8}	3
<u>EDUC100</u> Foundations of Education	3
<u>PSYC190</u> Educational Psychology ^{D,2,3}	3
Arts/Humanities ^{E,1}	3
Electives ^C	14
Mathematics Elective ^{B,D}	3
Total Credit Hours	62

^A Placement testing required

^B Any of the following may be chosen: MATH101, MATH115, MATH121, MATH125, MATH215, MATH250.

^C Pre-college level courses do not meet this requirement.

^D Course requires prerequisite.

^E Any course from approved list for Arts/Humanities.

¹ Satisfies Arts/Humanities.

² Satisfies Critical Thinking.

³ Satisfies Diversity.

⁴ Satisfies Information Literacy.

⁵ Satisfies Oral Communication.

⁶ Satisfies Quantitative Literacy.

⁷ Satisfies Scientific Literacy.

⁸ Satisfies Social Sciences.

⁹ Satisfies Technological Competence.

¹⁰ Satisfies Writing

Social Media and Digital Marketing

CERTIFICATE PROGRAM

Department of Business and Innovation

Grupp 401 • Phone (215) 968-8227

Curriculum Code No. **3099**

This certificate program is designed to provide students with the skills and knowledge to plan, create, and implement effective social media and digital marketing campaigns for small businesses, corporations, government agencies, or non-profit organizations. It prepares students who are currently employed and need to enhance their skills, as well as those who are seeking employment in social media and/or digital marketing.

Graduates of this program are able to

- Create and manage digital marketing campaigns;
- Develop and implement social media campaigns;
- Explain best practices in social media and digital marketing;
- Assess and measure social media and digital marketing campaigns; and
- Apply design best practices to enhance social media and digital marketing activities.

CERTIFICATE REQUIREMENTS

Course	Credits
<u>COLL101</u> College Success Seminar	1
<u>VAMM100</u> Digital Imaging	3
<u>VAMM110</u> Web and Interactive Design ^A	3
<u>MKTG230</u> Social Media Marketing	3

Course	Credits
<u>MKTG220</u> Digital Marketing	3
<u>MKTG280</u> Cooperative Education-Marketing ^A	3
Total Credit Hours	16

^A Course requires prerequisite

Social Science

ASSOCIATE OF ARTS

TRANSFER MAJOR

Decisions on the transferability of courses are made by the four-year colleges and differ from school to school. Students enrolled in this major should contact the Transfer Services Office early in their academic program to determine which courses will transfer to the college of their choice.

Department of Social & Behavioral Science

Grupp 301 • Phone (215) 968-8270

Curriculum Code No. **1059**

The Social Science program of study is designed for students who intend to transfer to a four-year college and continue for a bachelor's degree in one of the following majors: Sociology, Political Science, Anthropology or Geography. This major emphasizes the theoretical and scientific foundations of the social sciences including research methodology and data analysis.

The goals of the Liberal Arts: Social Science Emphasis major are to:

- provide a liberal arts experience with an emphasis in social science-based theory and practice of the social sciences; and
- prepare students for transfer to institutions offering bachelor's degree programs in Sociology, Political Science, Anthropology or Geography by acquiring knowledge of theories, concepts and perspectives.

Graduates of this program are able to:

- demonstrate familiarity with the major concepts, theoretical perspectives and empirical findings in the social sciences;
- apply theory to current social and political events that impact local, national and international communities; and
- prepare and present an original research project that includes research design, data analysis and interpretation.

DEGREE COURSE REQUIREMENTS

Course	Credits
<u>COLL101</u> College Success Seminar	1
<u>COMP110</u> English Composition I ^{A,1,1,2,10}	3
<u>COMP111</u> English Composition II ^{1,2,4,10}	3
<u>MATH115</u> Elementary Statistics ^{A,1,2,6}	3
Science ^{D,1,7}	4
Arts and Humanities ^{B,1}	6
Electives ^H	9
History ^J	3
Literature ^F	3
<u>CISC100</u> Digital Literacy ⁹	3
<u>SOCI110</u> Introduction to Sociology ^{2,3,8}	3
<u>POLI111</u> American National Government ^{3,8}	3
<u>SOCI230</u> Contemporary Social Problems ^G	3
Social Science Electives I ^C	3
Social Science Electives II ^E	9

Course	Credits
COMM110 Effective Speaking ^{1,4,5}	3
Total Credit Hours	62

^A Placement testing required.

^B Consult the **Arts/Humanities** list approved for this subcategory. Any course may be chosen.

^C Any of the following may be chosen: CLTR220, ECON111, GEOG110, PSYC110, WMST110.

^D Choose among BIOL101, BIOL102, CHEM101, SCIE102, SCIE104, or SCIE105.

^E Students are required to take 9 credits in the social science area including any courses beginning with SOCI, POLI, and GEOG. It is strongly recommended that students take all their social science electives in the major they are planning on declaring at their 4-year institution. For example, if you plan on majoring in Sociology, take all 9 credits in Sociology.

^F Any LITR course except LITR246.

^G Pre-requisites required: SOCI110 (C or better) and COMP110 (C or better).

^H Pre-college level courses do not meet this requirement.

^I Course requires prerequisite. ^J Student must take HIST151, HIST152, HIST111, or HIST112.

¹ Satisfies Arts/Humanities

² Satisfies Critical Thinking

³ Satisfies Diversity

⁴ Satisfies Information Literacy

⁵ Satisfies Oral Communication

⁶ Satisfies Quantitative Literacy

⁷ Satisfies Scientific Literacy

⁸ Satisfies Social Sciences

⁹ Satisfies Technological Competence

¹⁰ Satisfies Writing

Social Work

ASSOCIATE OF ARTS

TRANSFER MAJOR

Decisions on the transferability of courses are made by the four-year colleges and differ from school to school. Students enrolled in this major should contact the Transfer Services Office early in their academic program to determine which courses will transfer to the college of their choice.

Department of Social & Behavioral Sciences

Founders 210 • Phone (215) 968-8270

Curriculum Code No. **1130**

The Social Work program of study is designed for students who intend to transfer to a four-year college and continue for a bachelor's degree in Social Work. This major emphasizes social work theory and practice with a strong general education foundation.

Graduates of this program are able to:

- demonstrate knowledge and comprehension of the major concepts, theories, values and skills in social work;
- identify the extent to which societal structures influence human behavior;
- demonstrate self-awareness and the competent use of self in professional interaction; and
- apply and integrate social work theory and concepts in the study and assessment of diverse populations.

DEGREE COURSE REQUIREMENTS

Course	Credits
<u>CISC100</u> Digital Literacy ⁹	3
<u>COLL101</u> College Success Seminar	1
<u>COMM110</u> Effective Speaking ^{F,4,5}	3
<u>COMP110</u> English Composition I ^{A,F,2,10}	3
<u>COMP111</u> English Composition II ^{F,2,4,10}	3
Elective ^B	3
History ^{G,1,2,3}	3
Literature ^{H,2}	3
<u>MATH115</u> Elementary Statistics ^{A,F,2,6}	3
<u>PHIL111</u> Ethics ^{1,2}	3
<u>POLI111</u> American National Government ^{3,8}	3
<u>PSYC105</u> Introduction to Group Dynamics ^{F,2}	3
<u>PSYC110</u> Introduction to Psychology ^{F,2,8}	3

Course	Credits
Psychology, Sociology or Social Work Elective ^C	6
Science ^{D,7}	4
Science ^{E,7}	4
<u>SOCI110</u> Introduction to Sociology ^{2,3,8}	3
<u>SOCI140</u> Peoples of America ³	3
<u>SSWK110</u> Introduction to Social Work and Social Welfare	3
<u>SSWK220</u> Social Work: Interviewing, Assessment, and Referral ^F	3
Total Credit Hours	63

^A Placement testing required.

^B Pre-college level courses do not meet this requirement.

^C Any PSYC, SOCI, or SSWK course that is not already required by the program.

^D Choose among BIOL101, BIOL102, BIOL181, BIOL182.

^E Choose any science course with a lab component.

^F Course requires prerequisite.

^G Choose from HIST151 or HIST152.

^H Any LITR course except LITR246.

¹ Satisfies Arts/Humanities

² Satisfies Critical Thinking

³ Satisfies Diversity

⁴ Satisfies Information Literacy

⁵ Satisfies Oral Communication

⁶ Satisfies Quantitative Literacy

⁷ Satisfies Scientific Literacy

⁸ Satisfies Social Sciences

⁹ Satisfies Technological Competence

¹⁰ Satisfies Writing

Sport Management

ASSOCIATE OF ARTS

TRANSFER MAJOR

Decisions on the transferability of courses are made by the four-year colleges and differ from school to school. Students enrolled in this major should contact the Transfer Services office early in their academic program to determine which courses will transfer to the college of their choice.

Department of Kinesiology and Sport Studies

Linksz 208 • Phone (215) 968-8450

Curriculum Code No. **1154**

The Sport Management major prepares the undergraduate student for a career in sport management, athletics, marketing, campus recreation, intramurals, student activities, as well as other related areas. It serves as a foundation for upper division course work. Students planning to transfer to a four-year institution as a sport management major should plan a major parallel to that of the transfer college.

Students who complete this program will be able to:

- demonstrate the ability to communicate effectively with others through oral, written, and/or graphic means that apply interpersonal skills and professional attitudes
- assess, evaluate, and use information effectively and efficiently as lifelong learners in pursuit of personal and professional objectives. This includes interpreting and applying their knowledge of the principles of sport management, marketing, and/or event planning to direct, support or control a sport enterprise
- demonstrate understanding of basic Sport Management Core work
- compute with proficiency and confidence, in planning marketing strategies, and/or campus recreation, intramurals and other activities

DEGREE COURSE REQUIREMENTS*

Course	Credits
<u>COLL101</u> College Success Seminar	1
<u>CISC100</u> Digital Literacy ^{E,9}	3
<u>COMM110</u> Effective Speaking ^{F,4,5}	3

Course	Credits
<u>COMP110</u> English Composition I ^{A,F,2,10}	3
<u>COMP111</u> English Composition II ^{F,2,4,10}	3
<u>HLTH103</u> Life and Health ²	3
<u>HLTH110</u> Responding to Emergencies ²	3
<u>ECON111</u> Prin. of Economics: Macro ^{2,3,8}	3
<u>SOCI110</u> Intro to Sociology ^{2,3,8}	3
<u>SPMT200</u> Intro to Sport Management	3
<u>SPMT201</u> Sport Marketing	3
<u>SPMT202</u> Facility Mgt/Event Planning	3
<u>SPMT203</u> History & Philosophy of Sport	3
<u>SPMT204</u> Sport and Society	3
<u>SPMT280</u> Cooperative Education/Sport Internship ^G	3
Scientific Literacy ^{A,C,7}	3-4
Quantitative Literacy ^{A,G,6}	3-4
Arts/Humanities ^{D,1}	6
Physical Education Electives ^B	6
Total Credit Hours	61-63

^A Placement testing required.

^B Choose any 3 from the following: KINS133, KINS145, KINS150, KINS155, KINS170, KINS178, KINS189, KINS190, KINS191.

^C Choose from: CHEM101, BIOL101.

^D Any of the following may be chosen: HIST111, HIST112, HIST151, HIST152, HUMN111, HUMN112, HUMN113, HUMN114.

^E CISC110 or CISC115 may be substituted.

^F Course requires prerequisite.

^G Choose from: MATH101, MATH115, MATH120, MATH125, MATH140.

¹ Satisfies Arts/Humanities

² Satisfies Critical Thinking

³ Satisfies Diversity

⁴ Satisfies Information Literacy

⁵ Satisfies Oral Communication

⁶ Satisfies Quantitative Literacy

⁷ Satisfies Scientific Literacy

⁸ Satisfies Social Sciences

⁹ Satisfies Technological Competence

¹⁰ Satisfies Writing

Technical Entrepreneurship

ASSOCIATE OF ARTS

OCCUPATIONAL MAJOR (CATALOG YEAR 2017)

This major is primarily designed for job preparedness. Students who are considering transferring to a baccalaureate institution should be aware that decisions on transferability of courses are made by the baccalaureate institutions and differ from school to school. Students should contact the Transfer Services office early in their academic programs to determine which courses will transfer to the college of their choice.

Department of Business and Innovation

Grupp 401 • Phone (215) 968-8227

Curriculum Code No. **2070**

This major is ideal for students who possess validated technical competencies/trade skills as evidenced by at least one third party credential and an advanced score on a third party assessment such as NOCTI. Students can attain up to 23 Prior Learning Assessment credits and acquire the specific skills needed to run a business through coursework. Successful completion results in the award of the Associate of Arts degree.

This major may be of particular interest to potential and current area vocational technical high school students as well as graduates of area vocational-technical high schools.

While the major is designed for students beginning their collegiate work, students with fewer than sixty credits of collegiate work may enter the major after receiving permission from both an academic advisor and the Dean of the Department of Business Studies.

Graduates of this program are able to:

- analyze and appraise basic elements of entrepreneurship and business operations;
- apply and use the common mathematical functions of business such as the time value of money and interest, discount and loan calculations;
- record transactions under the accrual basis of accounting using the general journal/general ledger system and/or utilizing the appropriate computer application;
- create business letters, memos, and analytical reports; and
- prepare and deliver informative and persuasive speeches.

DEGREE COURSE REQUIREMENTS

Course	Credits
<u>ACCT103</u> Introductory Accounting	3
OR	
<u>ACCT130</u> Accounting Applications for the Computer ^C	3
Arts/Humanities Elective ^{B,1}	3
<u>COLL101</u> College Success Seminar	1
<u>COMM110</u> Effective Speaking ^{A,C,4,5}	3
<u>MGMT110</u> Small Business Management	3
<u>MGMT100</u> Introduction to Business ^{3,8}	3
<u>MGMT120</u> Business Mathematics ^{A,C,6}	3
<u>MGMT130</u> Business Law	3
<u>MGMT135</u> Business Communication ^{A,C,2,4,10}	3
<u>MGMT140</u> Supervision	3

Course	Credits
<u>MGMT280</u> Cooperative Education-Management ^{C,9}	3
<u>MGMT155</u> Introduction to Entrepreneurship	3
<u>MKTG220</u> Digital Marketing	3
OR	
<u>MKTG110</u> Selling	3
Science Elective ^{B,7}	3/4
Technical competencies/trade skills	20
Total Credit Hours	60/61

^A Placement testing required.

^B Consult the list of courses **approved for this subcategory**. Any course may be chosen.

^C Course requires prerequisite.

¹ Satisfies Arts/Humanities

² Satisfies Critical Thinking

³ Satisfies Diversity

⁴ Satisfies Information Literacy

⁵ Satisfies Oral Communication

⁶ Satisfies Quantitative Literacy

⁷ Satisfies Scientific Literacy

⁸ Satisfies Social Sciences

⁹ Satisfies Technological Competence

¹⁰ Satisfies Writing

Web and Multimedia Designer

CERTIFICATE PROGRAM

Arts & Communication Department

Hicks Art Center • Phone (215) 968-8425

Curriculum Code No. **3147**

The Web and Multimedia Designer certificate trains students to design and create web sites and multimedia applications for the World Wide Web. Students complete courses in this program to build skills in design

techniques, information management, project development and project design. Selection of course content continues to be developed to best prepare students for employment in this growing field. Students learn software applications employed by professionals in this field. This certificate prepares students for employment opportunities in entry-level positions such as multimedia designer, training designer, web designer, web graphic designer, and interactive application designer.

Note: Students who enroll in web design courses must be experienced in computer use including fluid skills in file saving, management, and retrieval. These skills will not be taught in web design courses.

Graduates of this program are able to

- use software tools and visual design concepts to create assets for web pages and sites;
- apply screen design, and user interface development techniques appropriate to web sites and multimedia applications; and
- use scripting and tagging languages appropriate for web page and application construction.

Note: Software required to complete assignments can be expensive. Students may need to plan extra time to use campus computing labs to complete course projects.

CERTIFICATE COURSE REQUIREMENTS*

Course	Credits
<u>COLL101</u> College Success Seminar	1
<u>VACV140</u> Digital Editing	3
<u>VACV230</u> Motion Graphics ^A	3
<u>VAMM100</u> Digital Imaging	3
<u>VAMM110</u> Web and Interactive Design ^A	3
<u>VAMM120</u> Interface Design	3
<u>VAMM209</u> Multimedia Concepts I ^A	3

Course	Credits
<u>VAPH110</u> Digital Photography	3
Multimedia Electives	6
Total Credit Hours	28

MULTIMEDIA ELECTIVES (SELECT 2 COURSES):

Course	Credits
<u>CISC113</u> Visual Basic Programming I ^{A,D}	3
<u>MGMT100</u> Introduction to Business	3
<u>MGMT155</u> Introduction to Entrepreneurship	3
<u>MKTG220</u> Digital Marketing	3
<u>MKTG230</u> Social Media Marketing	3
<u>MUSC124</u> Music Technology	3
<u>VACV137</u> Sound Design for Film & Video	3
<u>VAMM130</u> 3-D Modeling Concepts ^A	3

^A Course requires prerequisite.

^D Placement testing required.

**Since the individual circumstances and backgrounds of students vary, all students planning to complete this certificate program must meet with their assigned academic advisor to develop a planned sequence of courses to meet their individual needs.*

SECTION 3: COURSE DESCRIPTIONS

Course Code		Course Name	Department Name	Course Category	Course Credits	Prerequisite, Corequisite, and Additional Information		Course Description
ACCT	103	Introductory Accounting	Department of Business and Innovation: Accounting	ACCT	3			This course provides an introduction to the principles and concepts of financial accounting. This course focuses on bookkeeping and accounting procedures through the accounting cycle for service and merchandising businesses, including special journals. This course presumes no previous knowledge of accounting.
ACCT	105	Financial Accounting	Department of Business and Innovation: Accounting	ACCT	4	Prerequisite	READ Level '3' or ACCT103 (C or better), or READ110 (C or better), or COMP108 (C or better)	This course provides an introduction to the objectives, principles, assumptions and concepts of financial accounting. It focuses on procedures and practices from the accounting cycle through financial statement presentation with an emphasis on recognizing, valuing, reporting, and disclosing assets, liabilities, and equity. This course presumes no previous accounting knowledge.
ACCT	106	Managerial Accounting	Department of Business and Innovation: Accounting	ACCT	4	Prerequisite	ACCT105 (C or better) or department permission	This course introduces students to the concepts and applications of managerial accounting. Students focus on analysis and recording of various manufacturing costs, cost-volume-profit analysis, preparation of financial statements for a manufacturer, creation of static and flexible budgets and reports, evaluation of capital investments, and various costing systems.
ACCT	110	Personal Financial Planning	Department of Business and Innovation: Accounting	ACCT	3			This course prepares students with little or no experience in personal finance to make money management decisions. Students analyze the interrelationships of budgeting, banking, credit, taxation, investments, insurance, and estate planning as they apply to consumer decision-making.

ACCT	120	Payroll Records and Accounting	Department of Business and Innovation: Accounting	ACCT	3	Prerequisite	ACCT103 or ACCT105 (C or better)	This course examines the various payroll laws, payroll accounting systems, and the procedures for computing wages and salaries in small, medium, and large firms.
ACCT	130	Accounting Applications for the Computer	Department of Business and Innovation: Accounting	ACCT	3	Prerequisite	ACCT103 or ACCT105 (C or better)	This course provides a survey of automated accounting functions, including basic accounting procedures through the accounting cycle for service and merchandising businesses. Students implement current industry standard software to perform accounting functions and analyze financial statements.
ACCT	200	Intermediate Accounting I	Department of Business and Innovation: Accounting	ACCT	3	Prerequisite	ACCT105 (C or better)	This course provides an intensive study of the application of generally accepted accounting principles and financial pronouncements for financial reporting and disclosure of current and noncurrent assets.
ACCT	201	Intermediate Accounting II	Department of Business and Innovation: Accounting	ACCT	3	Prerequisite	ACCT105 (C or better) or permission of the Department of Business + Innovation	This course provides an intensive study of the application of generally accepted accounting principles and financial pronouncements to the financial reporting and disclosure of current and noncurrent liabilities and stockholders' equity.
ACCT	210	Cost Accounting I	Department of Business and Innovation: Accounting	ACCT	3	Prerequisite	ACCT106 (C or better)	This course provides an understanding of cost accounting systems and procedures and how they are used for business strategy and implementation. This course presents an analysis of key data for planning and controlling to assist in management decisions.

ACCT	230	Financial Management	Department of Business and Innovation: Accounting	ACCT	3	Prerequisite	ACCT105 (C or better) or permission of the Department of Business + Innovation	This course examines the financial methods and techniques for a business. Analysis emphasizes problems of financial management, internal financial planning and analysis, short-term, intermediate, and long-term financial needs, conflict between profitability and solvency, and financial instruments and markets.
ACCT	240	Federal and State Tax I	Department of Business and Innovation: Accounting	ACCT	3	Prerequisite	ACCT105 (C or better) or permission of department	This course examines Federal and Pennsylvania state tax laws as they relate to individual income taxes. This course emphasizes the concepts of filing requirements, the determination of and adjustments to gross income, personal and business deductions, and business income.
ACCT	241	Federal and State Tax II	Department of Business and Innovation: Accounting	ACCT	3	Prerequisite	ACCT240 (C or better)	This course examines the Federal and Pennsylvania state tax laws as they relate to individual income taxes. It focuses on concepts of gains and losses from property transactions, miscellaneous income items, tax computation, and credits. This course also introduces pass-through entities and their impact on individual taxation.
ACCT	250	Auditing	Department of Business and Innovation: Accounting	ACCT	3	Prerequisite	ACCT105 (C or better) or permission of the Department of Business + Innovation	This course provides a presentation of current audit practices for audit decision making and evidence accumulation. This course emphasizes the understanding of the audit objectives, the audit risks, the audit decisions to be made, the appropriate audit evidence, and audit reports.

ACCT	255	Advanced Accounting	Department of Business and Innovation: Accounting	ACCT	3	Prerequisite	ACCT105 (C or better) or permission of the Department of Business + Innovation	This course provides basic coverage of business combinations and consolidated financial statements, comprehensive coverage of accounting and financial reporting of state and local governments, and in-depth study of partnerships and fiduciary accounting. This course is recommended for students who will take the Uniform CPA examination.
ACCT	280	Accounting Internship	Department of Business and Innovation: Accounting	ACCT	3	Prerequisite	Written permission of the Department of Business + Innovation	This course evaluates a student's ability to relate the academic accounting concepts and skills with on-the-job experience and research of accounting topics as they relate to the student's academic preparation and career objectives.
ADRN	110	Introduction to Professional Nursing	Department of Health Sciences: Nursing	ADRN	3	Prerequisite	Prerequisite: MATH095 (C or better) or Math Placement Test Score of 5 or higher. Fees: See Nursing Fees Table for current fees	This course introduces the BCCC Associate Degree Nursing curricular concepts with the domains of health-illness-wellness continuum, professional nursing practice, and health care environment. Emphasis is placed on the knowledge, skills, and attitudes essential to each concept and their application to nursing roles in professional nursing practice.
ADRN	111	Foundations of Nursing Practice	Department of Health Sciences: Nursing	ADRN	4	Prerequisite/ Corequisite	Prerequisite: COLL101, COMP110, BIO181, HLTH120N Corequisite: ADRN110, COLL101, COMP110, BIOL181, HLTH120N Fees: See Nursing Fees Table for current fees	This course explores the concepts within health-illness-wellness, professional nursing practice, and the healthcare environment. It also integrates principles necessary to perform basic nursing skills across the lifespan, demonstrating competence, caring, and advocacy with all nursing interventions. Knowledge, judgement, skills, and professional values in a legal/ethical framework are emphasized.

ADRN	112	Adult and Family Nursing I	Department of Health Sciences: Nursing	ADRN	5	Prerequisite/ Corequisite	Prerequisites: ADRN110, ADRN111, BIOL181, COLL101, COMP110, HLTH120N. Corequisites: BIOL182, BIOL228, ADRN113, ADRN114 Fees: See Nursing Fees Table for current fees	This course explores concepts and principles of evidence-based nursing care within health-illness- wellness, professional nursing practice, and healthcare environments to facilitate and provide safe, quality nursing interventions to adults and childbearing families. Knowledge, skills, and values integration is emphasized in the implementation of competent patient centered care within a legal/ethical framework.
ADRN	113	Health Assessment in Nursing	Department of Health Sciences: Nursing	ADRN	3	Prerequisite/ Corequisite	Prerequisite: ADRN110, ADRN111, BIOL181 Co-requisite: BIOL182 Fees: See Nursing Fees Table for current fees	This course examines the concepts within health-illness-wellness, professional nursing practice, and the healthcare systems domains as they relate to the comprehensive assessment of patients. The essential elements of health assessment relevant to the Associate Degree Graduate Nurse are provided to facilitate the implementation of safe, patient-centered, quality nursing care.
ADRN	114	Pharmacology in Nursing	Department of Health Sciences: Nursing	ADRN	3	Prerequisite	Prerequisite: ADRN112, ADRN 113 Fees: See Nursing Fees Table for current fees	This course explores principles and concepts of pharmacological interventions and their nursing implications. Using the nursing process, the therapeutic effects, side effects, and adverse reactions that may occur because of these therapies will be explored. Patient education concepts will be emphasized in the planning and implementation of care.
ADRN	210	Adult and Family Nursing II	Department of Health Sciences: Nursing	ADRN	7	Prerequisite/ Corequisite	Prerequisites: ADRN112, ADRN113 Corequisite: COMP111, PSYC110, ADRN 114 Fees: See Nursing Fees Table for current fees	This course examines knowledge, skills, attitudes, and acquired competencies necessary to care for adults and families. Concepts and clinical decision-making strategies are explored, providing evidence-based care to adults and child-bearing families utilizing the nursing process and clinical judgement.

								Simulation and clinical experiences increasing health/illness complexity reflect diverse patient populations.
ADRN	211	Adult and Family Nursing III	Department of Health Sciences: Nursing	ADRN	8	Prerequisite/ Corequisite	Prerequisite: ADRN114, ADRN210, COMP111, PSYC110 Prerequisites or Corequisite: ADRN212, Art/Humanities Elective, SOCI110 Fees: See Nursing Fees Table for current fees	This course examines concepts that exemplify acute and critical health and illness issues. Complex theoretical concepts and clinical reasoning strategies are explored to provide evidence-based nursing care encompassing physiological and psychosocial processes. Simulation and clinical experiences foster clinical judgement when caring for diverse populations across the lifespan.
ADRN	212	Transition into Nursing Practice	Department of Health Sciences: Nursing	ADRN	4	Prerequisite/ Corequisite	Prerequisites: ADRN210, COMP111, PSYC110 Prerequisite or Corequisite: ADRN211, Arts/Humanities Elective, SOCI110 Fees: See Nursing Fees Table for current fees	This course facilitates successful application of knowledge, skills, and attitudes as the transition to the role of graduate nurse commences. Current political, legal, and ethical nursing concerns are explored. Concepts of the nursing profession, evidence-based healthcare, and the importance of interprofessional processes are synthesized, utilizing and refining clinical nursing judgement.
AESL	081	Writing Fundamentals for International Students	Department of Language & Literature: American English as a Second Language	AESL	6	Prerequisite	AESL test score of 2 or permission of the Department of Language and Literature	This course is designed for international students who need to learn the fundamentals of writing. Students will develop the proper use of American English grammar, syntax, and skill in writing sentences and basic developmental paragraphs.

AESL	083	Reading Fundamentals for International Students	Department of Language & Literature: American English as a Second Language	AESL	3	Prerequisite	AESL test score of 2 or permission of the Department of Language and Literature	AESL 083 is a reading course designed for international students who need to learn the fundamentals of reading. It focuses on reading comprehension skills: vocabulary development, including word definitions, word families, common American idioms, and familiarity with American cultural influences.
AESL	085	Oral Communication Fundamentals for International Students	Department of Language & Literature: American English as a Second Language	AESL	3	Prerequisite	AESL test score of 2 or permission of the Department of Language and Literature	This course is designed for international students who need to learn the fundamentals of oral communication. Students develop their ability to understand spoken English and express themselves clearly in conversation and academic discourse. Individual and group work, as well as reading and writing assignments, build students' American English vocabulary.
AESL	101	Writing Skills for International Students	Department of Language & Literature: American English as a Second Language	AESL	6	Prerequisite	AESL test score of 3 or AESL081 (C or better) or permission of the Department of Language and Literature	This course is designed for international students who possess intermediate American English language skills. Students will master the proper use of American English grammar and gain skill in expository writing and vocabulary by writing developmental paragraphs. Transferability is determined by the transfer institution.
AESL	103	Reading Skills for International Students	Department of Language & Literature: American English as a Second Language	AESL	3	Prerequisite	AESL test score of 3 or AESL-083 (C or better) or permission of the Department of Language and Literature	AESL103 is a reading course designed for intermediate level international students. Reading skills focus on reading comprehension and familiarity with American culture; vocabulary development, including word definition, denotation, connotation, and American idioms. Transferability determined by transfer institution.

AESL	105	Oral Communication Skills International Students	Department of Language & Literature: American English as a Second Language	AESL	3	Prerequisite	AESL test score of 3 or AESL085 (C or better) or permission of the Department of Language and Literature	AESL105 is a required course for advanced intermediate international students that improves their conversation and speaking/listening skills. Group and individual work will build American English vocabulary and further the understanding and usage of idiomatic expression. Oral skills will be reinforced through reading and writing assignments.
AMSL	110	American Sign Language I	Department of Language & Literature: American Sign Language	AMSL	3			In this introduction to American Sign Language, students develop visual receptive skills, with a focus on visual memory, visual discrimination, and gestural expressive skills, and learn basic ASL vocabulary and grammatical structures. This course introduces students to the American Deaf Community as a linguistic and cultural minority.
AMSL	111	American Sign Language II	Department of Language & Literature: American Sign Language	AMSL	3	Prerequisite	AMSL110 (C or better) or permission of the Department of Language and Literature	This course continues the work begun in AMSL110; students develop visual receptive skills, with a focus on visual memory, visual discrimination, and gestural expressive skills, and learn basic ASL vocabulary and grammatical structures. Students further their association with the American Deaf Community as a linguistic and cultural minority.
ARBC	110	Elementary Arabic I	Department of Language & Literature: Arabic	ARBC	3			This is an interactive course in which students acquire basic knowledge of the Arabic language as well as Middle Eastern culture. Students read, pronounce, write, and understand basic Arabic words. Cultural background is included.

ARBC	111	Elementary Arabic II	Department of Language & Literature: Arabic	ARBC	3	Prerequisite	ARBC110 (C or better) or by permission of the Department of Language and Literature	This interactive course builds on the instruction from ARBC110. Students continue to acquire basic knowledge in the reading, pronunciation, writing, and understanding of basic Arabic words and phrases. Cultural background is included.
BIOL	101	Biological Science I	Department of Science, Technology, Engineering & Mathematics: Biology	BIOL	4	Prerequisite	Reading Level '3' or READ-110 (C or better), COMP-107 (C or better), COMP-108 (C or better); MATH-095 (C or better) or Math score 5 or higher Writing Level '4' or COMP090 (C or better); Additional Fee – see www.bucks.edu/fees .	This course is an introduction to processes common to all living organisms. Science and the scientific method are described. Topics include: cell structure, energy transfer in plants and animals, classical genetics, molecular genetics, genetic engineering, and evolution. This course does not meet the curriculum requirements for biology majors.
BIOL	102	Biological Science II	Department of Science, Technology, Engineering & Mathematics: Biology	BIOL	4	Prerequisite	Reading Level '3' or READ-110 (C or better), COMP-107 (C or better), COMP-108 (C or better); Math Level 5 or higher or MATH095 (C or better) COMP-090 (C or better) or Writing level 4 or higher; BIOL-101 recommended, not required; Additional Fee - see www.bucks.edu/fees .	This course explores aspects of life at the macroscopic, whole-organism level. Topics are ecology, taxonomy, a survey of plant and animal life forms, and an examination of major systems for both plants and animals, with emphasis on humans. This course does not meet the curriculum requirements for biology majors.
BIOL	115	Basic Human Anatomy	Department of Science, Technology, Engineering & Mathematics: Biology	BIOL	3	Prerequisite	Reading Level '3' or READ-110 (C or better), COMP-107 (C or better), COMP-108 (C or better) Math Level 5 or higher, or MATH095 (C or better) Writing Level 4 or higher, or COMP090 (C or better)	This course is a study of human anatomy which develops a basic understanding of the structure and function of body organs and systems and their interactions. Other topics include nutrition, metabolism, and growth and development.

BIOL	121	Biological Principles I	Department of Science, Technology, Engineering & Mathematics: Biology	BIOL	4	Prerequisite	Reading Level 3 or READ110 (C or better) and CHEM101 (C or better) or CHEM121 (C or better) or High School Chemistry with the approval of the Department of Science, Technology, Engineering and Mathematics. Additional Fee - see www.bucks.edu/fees .	This course is a comprehensive introduction to molecular and cellular biology. Structure/function relations of macromolecules and cellular organelles are studied. Other topics include transformation of energy in plants (photosynthesis) and in other types of cells (cellular respiration), cellular reproduction (mitosis and meiosis), and Mendelian genetics.
BIOL	122	Biological Principles II	Department of Science, Technology, Engineering & Mathematics: Biology	BIOL	4	Prerequisite	BIOL121 (C or better); Additional Fee - see www.bucks.edu/fees .	This course is a continuation of BIOL121 and focuses on comparative studies of plant and animal systems within an evolutionary framework. Additional topics include evolutionary theory, the tempo and mechanisms of evolution, speciation, population genetics, macro and microevolution, the evolutionary history of biological diversity and classification and ecology.
BIOL	181	Anatomy & Physiology I	Department of Science, Technology, Engineering & Mathematics: Biology	BIOL	4	Prerequisite	Reading Level 3 or READ110 (C or better) or permission of the Department of Science, Technology, Engineering and Mathematics.	This course introduces the study of the human body and the basic structure of cells, tissues, and organs. Topics include the structure and function of the integumentary, muscular, nervous, and skeletal systems.
BIOL	182	Anatomy & Physiology II	Department of Science, Technology, Engineering & Mathematics: Biology	BIOL	4	Prerequisite	BIOL181 (C or better); Additional Fee - see www.bucks.edu/fees .	This course, a continuation of Human Anatomy and Physiology I, studies the structure and function of the cardiovascular, lymphatic, immune, digestive, endocrine, excretory, nervous, reproductive, and respiratory systems, as well as human development and genetics.

BIOL	220	Principles of Ecology	Department of Science, Technology, Engineering & Mathematics: Biology	BIOL	4	Prerequisite	BIOL101 or BIOL121 (C or better); Additional Fee - see www.bucks.edu/fees .	This lecture and laboratory course provides an overview of ecology from the individual organism to populations, communities, and ecosystems. It examines the physical, chemical, and biological components of ecological interactions, and includes a comparative treatment of terrestrial and aquatic ecosystems. Laboratory exercises require field trips.
BIOL	228	Microbiology	Department of Science, Technology, Engineering & Mathematics: Biology	BIOL	4	Prerequisite	BIOL121 (C or better) or BIOL181 (C or better). Additional Fee - see www.bucks.edu/fees .	This course includes a study of viruses, protozoa, algae, fungi and with special emphasis, bacteria. Laboratories incorporate the preparation of cultures and use of aseptic laboratory techniques, stains and biochemical activity for identification of organisms. The relationship of microbes to health and disease are also studied.
BIOL	280	Cooperative Education: Biology/Biotechnology/Environmental Science	Department of Science, Technology, Engineering & Mathematics: Biology	BIOL	3	Prerequisite	Permission of the Department of Science, Technology, Engineering, and Mathematics	This course provides on-the-job experience and observation in a field directly related to the student's academic preparation and career objectives. Periodic meetings between instructor and student are held to review actual experience and observation in light of theory and skills learned academically.
BIOT	105	Introduction to Biotechnology	Department of Science, Technology, Engineering & Mathematics: Biotechnology	BIOT	4		Additional Fee - see www.bucks.edu/fees .	This course is an introduction to the field of biotechnology. Topics include recombinant DNA, production of biological molecules, bioprocessing, and current events. Students also review employment and careers in the biotechnology and biopharmaceutical industries. Laboratories include aseptic technique, pipetting and measurement, DNA extraction and restriction digestion, gel electrophoresis, and PCR.

BIOT	125	Biotechnology Methods & Techniques	Department of Science, Technology, Engineering & Mathematics: Biotechnology	BIOT	4	Prerequisite or Corequisite	CHEM121; Additional Fee - see www.bucks.edu/fees .	This course is an introduction to common practices and methodologies of Biotechnology. Students receive hands-on experience using and maintaining laboratory instruments. Laboratory procedures include: solution preparation, aseptic technique, protein separations and assays, DNA electrophoresis, and Polymerase Chain Reaction (PCR). Lectures support the laboratory activities.
BIOT	225	Bioprocessing Science	Department of Science, Technology, Engineering & Mathematics: Biotechnology	BIOT	4	Prerequisite	BIOT125 (C or better) or permission of the department of Science, Technology, Engineering and Mathematics	The course introduces the techniques and processes used in the production of biological molecules in the biomanufacturing industry. Students receive hands-on laboratory experience in processing bacterial and or animal cell cultures to produce and purify products in compliance with biomanufacturing industry standards, including Good Laboratory and Good Manufacturing Practices.
BIOT	275	Biotechnology Seminar	Department of Science, Technology, Engineering & Mathematics: Biotechnology	BIOT	1	Prerequisite	BIOT125 (C or better)	This course is intended to prepare students for careers in Biotechnology. Topics include resume writing, interview skills, and discussion and presentation of scientific data. The course features speakers from the biotechnology industry and field trips to biotechnology laboratories.
BRFS	101	Introduction to Brewing Science	Department of Science, Technology, Engineering & Mathematics: Brewing and Fermentation Science	BRFS	3	Prerequisite	Reading Level '3' or READ110 (C or better), COMP107 (C or better), COMP108 (C or better); Math score of 5 or higher or MATH095 (C or better)	The course aims to introduce the student in a responsible manner to beer as a major international beverage and to brewing as a traditional, yet highly controlled and innovative industrial process.

BRFS	102	Brewing Analysis and Quality Assurance	Department of Science, Technology, Engineering & Mathematics: Brewing and Fermentation Science	BRFS	3	Prerequisite	BRFS101 (C or better) and CHEM101 (C or better)	This course provides a thorough knowledge and understanding of the science and technology of the brewing of beer. This is achieved by the study of brewing raw materials (water, malt, hops and yeast), brewing processes (malting, brewhouse procedures, fermentation, and finishing operation), and quality assurance methods of the industry.
BRFS	201	Practical Malting and Brewing	Department of Science, Technology, Engineering & Mathematics: Brewing and Fermentation Science	BRFS	3	Prerequisite	BRFS102 (C or better) and BIOL228 (C or better); Must be at least 21 years of age at time of course enrollment; Additional Fee - see www.bucks.edu/fees .	This course builds upon the principles of malting and brewing science gained from the completion of prerequisite coursework by introducing students to the basic methodology used in malting and brewing laboratories for the analysis of raw materials and monitoring of process and product.
BRFS	280	Brewing and Fermentation Science Internship	Department of Science, Technology, Engineering & Mathematics: Brewing and Fermentation Science	BRFS	3	Prerequisite	BRFS201 (C or better); Must be at least 21 years of age at time of course enrollment; Permission of the Department of Science, Technology, Engineering & Math	This course provides students with the practical application of brewing and fermentation techniques in an industry setting. Students gain enhanced knowledge and competency with the opportunity to focus on the day-to-day processing, operations, and management of a brewery or related allied industry.
CHEM	096	Chemical Calculations	Department of Science, Technology, Engineering & Mathematics: Chemistry	CHEM	1	Prerequisite	MATH095 (C or better) or Math Placement 5	This course helps develop a strong foundation of mathematics required to be successful in CHEM 101. Topics include foundational arithmetic operations, basic algebra, dimensional analysis, graphing, and solving word problems. This course is recommended for students with a C grade in MATH 095 currently enrolled in CHEM 101.

CHEM	100	Preparatory Chemistry	Department of Science, Technology, Engineering & Mathematics: Chemistry	CHEM	4	Prerequisite/ Corequisite	Prerequisite: MATH103 or higher Co-requisite: MATH120; Additional Fee - see www.bucks.edu/fees .	This lecture and laboratory course introduces some basics of chemistry for students with inadequate preparation for Chemistry I. The development of skills for solving quantitative (numerical) problems is emphasized. Topics include measurement, basic chemical concepts and theories, and nomenclature of simple ionic and covalent compounds.
CHEM	101	Chemistry A	Department of Science, Technology, Engineering & Mathematics: Chemistry	CHEM	4	Prerequisite	MATH095 (C or better) or math placement test score of 5 or higher; Additional Fee - see www.bucks.edu/fees .	This lecture and laboratory course examines basic principles of general and organic chemistry. Topics include nature of matter, measurement, dimensional analysis, atomic structure, bonding, properties of gases, liquids, solids, and solutions, chemical reactions, acids and bases, hydrocarbons, functional groups, radiochemistry, and nomenclature. Knowledge of arithmetic and basic algebra is essential.
CHEM	102	Chemistry B	Department of Science, Technology, Engineering & Mathematics: Chemistry	CHEM	4	Prerequisite	CHEM101 or CHEM121 (C or better); Additional Fee - see www.bucks.edu/fees .	In this lecture and laboratory course the chemical principles covered in a qualitative manner in Chemistry A (CHEM101) are reviewed quantitatively. The study of important topics in Organic and Biological Chemistry is enhanced. Polymer Chemistry and Industrial Syntheses are introduced.
CHEM	121	Chemistry I	Department of Science, Technology, Engineering & Mathematics: Chemistry	CHEM	4	Prerequisite	MATH120 (C or better); Additional Fee - see www.bucks.edu/fees .	Science and engineering majors take this lecture and laboratory course to study fundamental theories and principles of chemistry. Topics include stoichiometry, atomic/ molecular structure, bonding, states of matter, changes of state, and solutions. A quantitative study of each area is stressed; a strong background in chemistry and mathematics is required.

CHEM	121	Chemistry I	Department of Science, Technology, Engineering & Mathematics: Chemistry	CHEM	4	Prerequisite	Pass CHEM placement test	Science and engineering majors take this lecture and laboratory course to study fundamental theories and principles of chemistry. Topics include stoichiometry, atomic/ molecular structure, bonding, states of matter, changes of state, and solutions. A quantitative study of each area is stressed; a strong background in chemistry and mathematics is required.
CHEM	122	Chemistry II	Department of Science, Technology, Engineering & Mathematics: Chemistry	CHEM	4	Prerequisite	CHEM121 (C or better); Additional Fee - see www.bucks.edu/fees .	This lecture and laboratory course is a continuation of CHEM121. Topics include molecular shape, chemical reactions, properties of liquids and solids and changes of state, solutions, reaction kinetics, chemical equilibrium, thermodynamics, and electrochemistry. Equilibrium topics include gaseous reactions, the ionization of weak acids and bases, hydrolysis of salts, and buffers.
CHEM	221	Organic Chemistry I	Department of Science, Technology, Engineering & Mathematics: Chemistry	CHEM	5	Prerequisite	Either C or better in CHEM122 or B+ or better in both CHEM101 and CHEM102; Additional Fee - see www.bucks.edu/fees .	The preparation, properties, and reactions of the more important classes of carbon compounds are studied in this lecture and laboratory course. Emphasis is on reaction mechanisms, stereochemistry, and functional group characteristics. The laboratory stresses synthetic methods and techniques. Compounds are analyzed using classical and instrumental methods.
CHEM	222	Organic Chemistry II	Department of Science, Technology, Engineering & Mathematics: Chemistry	CHEM	5	Prerequisite	CHEM221 (C or better); Additional Fee - see www.bucks.edu/fees .	This course is a continuation of Chemistry 221 with an emphasis on aromatic and carbonyl chemistry. Spectroscopy and chromatography are integrated into the lecture and laboratory. Compounds are analyzed using classical and instrumental methods.

CHEM	242	Biochemistry	Department of Science, Technology, Engineering & Mathematics: Chemistry	CHEM	3	Prerequisite	CHEM122 (C or better) or permission of the department of Science, Technology, Engineering, and Mathematics	This is a lecture course for students majoring in chemistry, biology or pre-allied health. Emphasis will be placed on the chemistry of biomolecules and their utilization in intermediary metabolism. The principles of bioenergetics and the integration of metabolic control are developed.
CHEM	280	Cooperative Education: Chemistry	Department of Science, Technology, Engineering & Mathematics: Chemistry	CHEM	3			This course provides on-the-job experience and observation in a field directly related to the student's academic preparation and career objectives. Periodic meetings between College Coordinator and student are held to review actual experience and observation in light of theory and skills learned academically.
CHNS	110	Elementary Chinese I	Department of Language & Literature: Chinese	CHNS	3			In this course students learn the basics of understanding, speaking, reading, and writing Chinese. Oral proficiency, correct pronunciation, listening comprehension, and grammatical accuracy are all stressed, as well as the cultural and historical backgrounds of Chinese-speaking countries.
CHNS	111	Elementary Chinese II	Department of Language & Literature: Chinese	CHNS	3	Prerequisite	CHNS110 (C or better) or permission of the Department of Language and Literature	In this continuation of CHNS110, students continue to learn more basics of understanding, speaking, reading, and writing Chinese. Oral proficiency, correct pronunciation, listening comprehension, and grammatical accuracy are all stressed, as well as the cultural and historical backgrounds of Chinese-speaking countries.

CHNS	201	Intermediate Chinese I	Department of Language & Literature: Chinese	CHNS	3	Prerequisite	CHNS111 (C or better) or equivalent or permission of the Department of Language & Literature	In this continuation of study from CHNS111, students further develop comprehensive listening, speaking, reading, and writing skills. A deeper understanding of historical and cultural background is included.
CHNS	202	Intermediate Chinese II	Department of Language & Literature: Chinese	CHNS	3	Prerequisite	CHNS201 (C or better) or equivalent or permission of the Department of Language & Literature	In this continuation of study from CHNS201, students further develop language proficiency with increasing complexity. Vocabulary and expressions are extended to enhance communication skills. Grammar is sequenced to build a solid foundation in language form and accuracy. Students continue to gain historical and culture awareness of Chinese-speaking countries.
CISC	100	Digital Literacy	Department of Science, Technology, Engineering & Mathematics: Computer/Information Science	CISC	3			A hands-on course for non-majors dealing with personal computers in a wide variety of settings. Topics include: basic computer concepts, computer hardware, operating systems, the Internet, online safety and security, email, computer applications including word processors, spreadsheets, presentation graphics, databases, and the impact of computers on society.
CISC	110	Introduction to Information Systems	Department of Science, Technology, Engineering & Mathematics: Computer/Information Science	CISC	3	Prerequisite	Reading placement test score 3 or READ 110 (C or better) or COMP108 (C or better) or permission of the department of Science, Technology, Engineering, and Mathematics; Additional Fee - see www.bucks.edu/fees .	This course provides an overview of business information systems. Topics include hardware and software fundamentals, use of software packages, effective use of networks, Internet, and other communication tools, the design of management information systems, as well as the ethical use of computers in business and society. Hands-on experience is provided.

CISC	113	Visual Basic Programming I	Department of Science, Technology, Engineering & Mathematics: Computer/Information Science	CISC	3	Prerequisite	Math placement test score of 5 or higher or MATH095 (C or better); Additional Fee - see www.bucks.edu/fees .	This is an introductory course dealing with the concepts of object-oriented/event driven computer programming of Windows applications. The class is offered in a lecture/lab format. Students will develop solutions and create programs to solve business problems.
CISC	115	Computer Science I	Department of Science, Technology, Engineering & Mathematics: Computer/Information Science	CISC	4	Prerequisite	Math Placement '5' or better or MATH095 or higher (C or better)	This is a first course for computer science students providing an introduction to the use and impact of computers, numbering systems, data representations, the fundamentals of structured programming, and problem solving through the use of logic design tools. Students develop programs using an object-oriented programming language.
CISC	119	Programming for Engineers and Scientists	Department of Science, Technology, Engineering & Mathematics: Computer/Information Science	CISC	4	Prerequisite	Math Placement Test score 5 or higher or MATH095 (C or better)	In this introductory computer programming course, computing theory is applied to automate and inform the design and construction of computer programs and other machines. An object-oriented computing language, along with a numeric computing environment are utilized to build software to perform automation.
CISC	122	Computer Science II	Department of Science, Technology, Engineering & Mathematics: Computer/Information Science	CISC	4	Prerequisite	CISC115 (C or better)	This course is a continuation of Computer Science I and emphasis is placed on structured and object-oriented programming techniques. Topics include file I/O, lists, stacks, recursion, sorting, searching, strings, and their application in problem solving.

CISC	127	Quantitative Data Analysis	Department of Science, Technology, Engineering & Mathematics: Computer/Information Science	CISC	3	Prerequisite	Math placement test score of 5 or higher or MATH095 (C or better)	This course is an in-depth study of spreadsheets used to perform calculations and communicate quantitative information. Topics include: worksheets and templates, functions and formulas, charts and graphs, business intelligence and data analysis tools, validating and auditing workbooks, sorting and filtering data, automation with macros, and database functions.
CISC	128	Comparative Operating Systems	Department of Science, Technology, Engineering & Mathematics: Computer/Information Science	CISC	4			The course introduces the student to the functional components of the operating system software, which manages the physical resources of the computer system. Microprocessor based operating systems are emphasized.
CISC	135	Programming for Mobile Devices	Department of Science, Technology, Engineering & Mathematics: Computer/Information Science	CISC	3	Prerequisite	CISC115 (C or better) or STEM department permission	This course is an overview of developing mobile apps for a variety of platforms. Students utilize an SDK and development tools and build applications for distribution via an app store. Students choose one platform for more in-depth study culminating in a final project.
CISC	143	Essentials of Networking	Department of Science, Technology, Engineering & Mathematics: Computer/Information Science	CISC	4	Prerequisite or Corequisite	CISC128 (C or better)	This lecture and laboratory course introduces the fundamental properties of data transmission and computer networks. Topics include: data transfer, the OSI and TCP/IP models, protocols, WAN and LAN topologies, devices and media, security and troubleshooting. This course provides basic background for other networking courses and industry certifications.

CISC	144	Introduction to Microsoft Desktop	Department of Science, Technology, Engineering & Mathematics: Computer/Information Science	CISC	4	Prerequisite	CISC128 (C or better) or CISC143 (C or better)	This course will focus on the current Microsoft desktop version as the preferred corporate desktop operating system. It will explore the Microsoft networking family and the salient functions and features of installing, configuring, and maintaining the client operating system.
CISC	201	Managing and Maintaining the PC	Department of Science, Technology, Engineering & Mathematics: Computer/Information Science	CISC	4	Prerequisite	CISC128 (C or better)	The course covers installation, configuration, upgrading, troubleshooting, and repairing desktop computer systems. The hands-on opportunity to build a complete computer from component parts is an integral part of the course. Successful completion of the course will prepare a student to take the industry standard, vendor-neutral certification test in this area.
CISC	202	Network Administration	Department of Science, Technology, Engineering & Mathematics: Computer/Information Science	CISC	4	Prerequisite	CISC128 (C or better)	This course provides students with an introduction to Linux Local Area Networks, their components, installation procedures, maintenance and usage, and function in an organization. Students gain hands-on experience in lab exercises using a Linux network.
CISC	206	Introduction to Cybersecurity	Department of Science, Technology, Engineering & Mathematics: Computer/Information Science	CISC	4	Prerequisite	CISC143 (C or better)	Designed for students with no security experience or background, this course covers basic terminology and concepts. This course introduces students to cryptography, security management, wireless networking, and organizational policy. Topics include an overview of information security frameworks; network infrastructure security; security and cryptography; information security policy; and defense in depth.

CISC	211	Object Oriented C++	Department of Science, Technology, Engineering & Mathematics: Computer/Information Science	CISC	4	Prerequisite	CISC122 (C or better)	This course introduces the advanced programming techniques in C++ utilizing digital game programming. It will introduce students to C++ object-oriented programming, as well as OpenGL and its components.
CISC	213	Computer Science III (JAVA)	Department of Science, Technology, Engineering & Mathematics: Computer/Information Science	CISC	4	Prerequisite	CISC122 (C or better) or department permission	This course is a continuation of Computer Science II. This course will apply object-oriented and software engineering techniques to the design and implementation of programs that manipulate complex data structures. Topics include recursion, stacks, queues, linked lists, hash tables, and trees.
CISC	215	Database Design and Application Development	Department of Science, Technology, Engineering & Mathematics: Computer/Information Science	CISC	3	Prerequisite	CISC110 and CISC127 (C or better) or CISC113 (C or better) or CISC115 (C or better)	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.
CISC	219	Programming in Python	Department of Science, Technology, Engineering & Mathematics: Computer/Information Science	CISC	4	Prerequisite	CISC113 (C or better) or CISC115 (C or better) or CISC119 (C or better)	A second course in computer programming that introduces students to fundamental object-oriented programming principles such as modularization, inheritance, abstraction, encapsulation and design patterns. Using these principles, students create applications that employ databases, graphical user interfaces and network communications.

CISC	227	Web Programming	Department of Science, Technology, Engineering & Mathematics: Computer/Information Science	CISC	3	Prerequisites	CISC122 (C or better) or CISC215 (C or better)	This course exposes students to full-stack web development. Students design web-based user Interfaces and use declarative language and scripting languages to construct interfaces. Students collect data by using web-based forms and relational databases. Students use declarative computer languages to manipulate and represent data.
CISC	234	Topics in Networking	Department of Science, Technology, Engineering & Mathematics: Computer/Information Science	CISC	3	Prerequisite	CISC235 and CISC244 (C or better)	This is a capstone course for Networking Majors. This seminar course covers the latest developments and enhancements to LAN-based systems. Topics will be selected by the departmental faculty each year.
CISC	235	Network Devices	Department of Science, Technology, Engineering & Mathematics: Computer/Information Science	CISC	4	Prerequisite	CISC143 (C or better) or Dept. permission	This course is an introduction to the technology of routed and switched networks. Topics include TCP/IP, WAN technologies, CISCO IOS, configuring routers and switches, VLANs, network management techniques, and routing IP traffic. Students will be given the opportunity to gain hands-on experience in the laboratory.
CISC	244	Introduction to Microsoft Server	Department of Science, Technology, Engineering & Mathematics: Computer/Information Science	CISC	4	Prerequisite	CISC202 (C or better) or CISC143 (C or better)	This course focuses on Microsoft Windows Server in the corporate environment. The course reviews the installation, setup, and management techniques of Server. Classes are presented in lecture/lab format, with students configuring Microsoft Windows Server during extensive hands-on lab assignments.

CISC	245	Network Security and Troubleshooting	Department of Science, Technology, Engineering & Mathematics: Computer/Information Science	CISC	4	Prerequisite	CISC143 and CISC244 (C or better in both)	This course is a practical approach to both securing and troubleshooting a network with emphasis on the local area network. Extensive laboratory work is provided. Topics include wired and wireless network security, cryptography, risk mitigation, problem recognition, and solution.
CISC	280	Cooperative Education: Computer	Department of Science, Technology, Engineering & Mathematics: Computer/Information Science	CISC	3	Prerequisite	Written department permission	This course uses on-the-job experience and observation in a field directly related to the student's academic preparation and career objectives. Periodic meetings between College Coordinator and student are held to review actual experience and observation in the light of theory and skills learned academically.
CISC	110H	Introduction to Information Systems –Honors section	Department of Science, Technology, Engineering & Mathematics: Computer/Information Science	CISC	3	Prerequisite	Reading placement test score 3 or READ 110 (C or better) or COMP108 (C or better) or permission of the department of Science, Technology, Engineering, and Mathematics; Additional Fee - see www.bucks.edu/fees . Admission to the Honors@Bucks program	This course provides an overview of business information systems. Topics include hardware and software fundamentals, use of software packages, effective use of networks, Internet, and other communication tools, the design of management information systems, as well as the ethical use of computers in business and society. Hands-on experience is provided.

CISC	115H	Computer Science I – Honors section	Department of Science, Technology, Engineering & Mathematics: Computer/Information Science	CISC	4	Prerequisite	Math Placement '5' or better or MATH095 or higher (C or better) Admission to the Honors@Bucks program	Honors @ Bucks challenges high-ability, intellectually curious students through intensive coursework emphasizing scholarly research, high-order critical thinking, and experiential learning. This is a first course for computer science students providing an introduction to the use and impact of computers, numbering systems, data representations, the fundamentals of structured programming, and problem solving through the use of logic design tools. Students develop programs using an object-oriented programming language.
CISD	201	Data Science	Department of Science, Technology, Engineering & Mathematics: Data Science	CISD	3	Prerequisite	CISC219 (C or better) and MATH115 (C or better)	This course introduces Data Science using statistics, scientific methods, algorithms, and processes to extract useful insights from large amounts of data. Students analyze hidden patterns buried in raw data along with visualization techniques aimed at making this knowledge understandable.
CLTR	110	Communication Between Cultures	Department of Language & Literature: International Cultures	CLTR	3			This course defines intercultural communication, explores factors that influence it, and examines how all such considerations impact messages sent from one culture to another. It includes international, as well as American co-cultures, and students examine case studies to learn how misunderstandings arise and how to minimize them.

CLTR	220	Introduction to Folklore Studies	Department of Language & Literature: International Cultures	CLTR	3	Prerequisite	Writing Test score of 6 or COMP107 (C or better) or COMP108(C or better) or permission of the Department of Language and Literature	This course explores how folklorists and others study traditional, everyday, and "unofficial" world cultural expressions, covering various genres of verbal art, performance, material culture, and belief. Considering pattern and variation, students collect and analyze folklore with respect to its diverse cultural contexts, applying theory to real-life examples and creating interpretations.
COLL	101	College Success Seminar	Department of Learning Resources: College Success Strategies	COLL	1			Through self-exploration and group interaction, the seminar facilitates students' academic and social integration into the College community and helps build academic success strategies. Students gain knowledge of the College's resources, services, policies and procedures and explore various major and career opportunities to develop an academic plan.
COLL	105	Strategic Learning Seminar	Department of Learning Resources: College Success Strategies	COLL	1			This strategic learning course provides students with a comprehensive approach to learning that integrates study techniques and self-management strategies to facilitate academic success in college.
COLL	115	Academic Success Seminar	Department of Learning Resources: College Success Strategies	COLL	1	Prerequisite	Permission of the Department of Language and Literature	This seminar for students on academic warning or probation and for students reinstated to the College focuses on improving academic performance. Students identify factors interfering with their academic progress and develop and implement specific action plans that identify strategies and college resources necessary to improve their academic status.

COMM	101	Communication Theory	Department of Arts and Communication: Communication Studies	COMM	3			This course examines concepts and contexts relevant to the study of human communication. Specifically, this course explores basic elements in the communication process are examined as they occur in the context of interpersonal relationships, group and organizations, public speaking, media, and various culture contexts.
COMM	105	Interpersonal Communication	Department of Arts and Communication: Communication Studies	COMM	3			This introductory communication skills course helps students develop competencies in diverse social and professional communication. Students engage in activities and assignments that focus on diversity, perception, listening skills and conflict management skills.
COMM	110	Effective Speaking	Department of Arts and Communication: Communication Studies	COMM	3	Prerequisite	COMP107 or COMP108 (C or better) or Writing Level 6	This course helps students build confidence in preparing and delivering informative and persuasive speeches. Topics include subject selection, audience analysis, research, organization, and use of voice and body in speech delivery.
COMM	111	Media & Society	Department of Arts and Communication: Communication Studies	COMM	3			Students examine the relationships between technology, industries, content, and users active in modern media. All students, particularly those who specialize in communication, multimedia, and journalism, build skills in media analysis, research, and writing through this college-level course.
COMM	215	Intercultural Communication	Department of Arts and Communication: Communication Studies	COMM	3	Prerequisite	COMP108 or COMP107 (C or better) or Writing Placement '6'	Students develop cross-cultural competency by examining how different cultural backgrounds communicate based on the value systems, world views, and narratives that ground them. The course emphasizes major demographic and societal shifts occurring in the 21st

								century resulting in growing diversity and interconnectedness throughout the world.
COMM	240	Persuasive Communication	Department of Arts and Communication: Communication Studies	COMM	3	Prerequisite	COMM111 (C or better)	This course helps students build skills in analysis, writing, and communication of persuasive messages. Topics include: the theoretical premises currently operating in the field of persuasion, research and analysis of persuasive messages, preparing and delivering persuasive messages through a variety of channels.
COMM	110H	Effective Speaking – Honors section	Department of Arts and Communication: Communication Studies	COMM	3	Prerequisite	COMP108 or COMP107 (C or better) or Writing Level 6 and admissions to the Honors@Bucks program	This course helps students build confidence in preparing and delivering informative and persuasive speeches. Topics include subject selection, audience analysis, research, organization, and use of voice and body in speech delivery.
COMP	085	Composition Support Seminar	Department of Language & Literature: Composition	COMP	1	Prerequisite	Permission of the Department of Language and Literature	The Composition Support Seminar directly supports the learning objectives of the linked composition course in which the student is concurrently enrolled, by providing additional support and instruction to enhance student success.
COMP	090	Basic Writing	Department of Language & Literature: Composition	COMP	3	Prerequisite	Writing test score 2 or AESL101 (C or better) or permission of the Department of Language and Literature	By writing short compositions, through a process of pre-writing, drafting, revising, and editing, students improve both grammar and usage and composition development and organization. Course readings serve as sources and models for writing. This course prepares students for subsequent composition courses.

COMP	107	Introduction to Academic Writing	Department of Language & Literature: Composition	COMP	3	Prerequisite	Writing placement test score of 4 or COMP090 (C or better)	To prepare students for COMP110, this course emphasizes paragraph development in academic, text-based essay assignments. Instructors guide students through the writing process, which requires critical thinking and decision-making in the use of evidence, sources, and rhetorical modes for effective paragraphs and essays.
COMP	108	Introduction to Academic Reading & Writing	Department of Language & Literature: Composition	COMP	4	Prerequisite	Writing Placement Test score of 4 or COMP090 (C or better); and Initial Reading Placement Test score of 2	To prepare students for COMP110, this course emphasizes academic, text-based, themed reading and writing assignments. Instructors guide students through the reading and writing process, which requires critical thinking and decision-making in the use of evidence, sources, and rhetorical modes for effective paragraphs and essays.
COMP	110	English Composition I	Department of Language & Literature: Composition	COMP	3	Prerequisite	Writing placement test score of 6 or COMP107 (C or better) or COMP108 (C or better)	English Composition I emphasizes the systematic study of writing effective expository prose and argumentation, stressing development and support of a clear thesis. The focus of the course is to lay the foundation for future academic writing requirements, including the ability to analyze, synthesize, evaluate, summarize, paraphrase, and cite textual sources from required course readings.
COMP	111	English Composition II	Department of Language & Literature: Composition	COMP	3	Prerequisite	COMP110 (C or better) or permission of the Department of Language and Literature	In this continuation of English Composition I, students write several analytical essays assigned in conjunction with classroom study of a range of readings, including literature and critical analysis, that may center around a course theme. After sequenced instruction in research techniques, students write an argumentative and scholarly research paper.

COMP	114	Technical Writing	Department of Language & Literature: Composition	COMP	3	Prerequisite	Writing placement test score of 9, COMP110 (C or better) or equivalent, or permission of the Department of Language and Literature	This course is designed for students majoring in technical, pre-engineering, and scientific fields. Assignments reflect actual technical writing tasks, with a focus on subject, purpose, and audience. The class examines traditional linear documents (instruction manuals, proposals) and those in an on-line format. Students learn to incorporate electronic formatting into technical documents.
COMP	115	Creative Writing I	Department of Language & Literature: Composition	COMP	3	Prerequisite	Writing placement test score of 9, COMP110 (C or better) or equivalent, or permission of the Department of Language and Literature	This course is a seminar-type exploration of creative writing techniques with emphasis on writing and criticism of student writing. Work from literary tradition will be studied as models and inspiration for the students' own literary efforts. Assignments will enable students to express and develop their creative skills.
COMP	116	Creative Writing II	Department of Language & Literature: Composition	COMP	3	Prerequisite	Writing placement test score of 9, COMP110 (C or better) or equivalent, or permission of the Department of Language and Literature	This course is a seminar-type exploration of creative writing techniques with emphasis on writing and criticism of student writing. Work from literary tradition will be studied as models and inspiration for the student's own literary efforts. Assignments will enable students to express and develop their creative skills. COMP116: Creative Writing II is an expansion of the skills listed in COMP115.
COMP	110H	English Composition I – Honors section	Department of Language & Literature: Composition	COMP	3	Prerequisite	Writing placement test score of 6 or COMP107 (C or better) or COMP108 (C or better)	English Composition I emphasizes the systematic study of writing effective expository prose and argumentation, stressing development and support of a clear thesis. The focus of the course is to lay the foundation for future academic writing requirements, including the ability to analyze, synthesize, evaluate,

								summarize, paraphrase, and cite textual sources from required course readings.
COMP	111H	English Composition II – Honors section	Department of Language & Literature: Composition	COMP	3	Prerequisite	Admission to the Honors@Bucks program	In this continuation of English Composition I, students write several analytical essays assigned in conjunction with classroom study of at least three genres of literature, including drama, poetry, and short fiction. After sequenced instruction in research techniques, students write an argumentative and scholarly research paper.
COMT	101	Introduction to Theatre	Department of Arts and Communication: Performance Arts	COMT	3			Students in this course read, watch, discuss, and analyze historical and contemporary plays. Students examine aesthetic concerns of audience, playwright, performers, director, and designers.
COMT	103	Introduction to Acting	Department of Arts and Communication: Performance Arts	COMT	3			Students experience a non-threatening introduction to basic acting techniques through improvisation, theater games in pairs and groups, and beginning scenes. Exploration of interpersonal relationships and non-verbal body language are stressed.
COMT	106	Introduction to Improvisational Performance	Department of Arts and Communication: Performance Arts	COMT	3			This course will develop the student's performance skills in creating improvised theater. Emphasis is placed on developing ensemble compatibility, collaborative and creative skills, spontaneity, initiative, risk-taking, the creation of character and environment, as well as a full

								understanding of both character-driven comedy and drama.
COMT	203	Acting II	Department of Arts and Communication: Performance Arts	COMT	3	Prerequisite	COMT103	Students will continue to train in expressing emotional believability, character analysis, motivated blocking, conflict resolution, and related activities, through dramatic action in both written and improvised scenes and/ or monologues.
COMT	206	Improvisational Performance II	Department of Arts and Communication: Performance Arts	COMT	3	Prerequisite	COMT106	This course further develops students' performance, design, and organizational skills acquired in Introduction to Improvisational Production. Emphasis is on developing ensemble compatibility, collaborative and creative skills, and creation of character and environment. Students attain an understanding of creating and organizing an ensemble pertaining to casting, designing, and performing a show.
CRIJ	100	Introduction to the Administration of Criminal Justice	Department of Social & Behavioral Science: Criminal Justice	CRIJ	3	Prerequisite/ Corequisite	Prerequisite: READ110 (C or better), or COMP107 (C or better), or COMP108 (C or better), or READ Level '3' Corequisite: READ level 2 and enrolled in paired section of READ110	This course is an introductory survey of the evolution, principles, concepts, and practice of the theory and nature of the criminal justice system including police, courts, and corrections systems.

CRIJ	110	Introduction to Criminal Law	Department of Social & Behavioral Science: Criminal Justice	CRIJ	3	Prerequisite/ Corequisite	CRIJ100	This course introduces students to the study of substantive criminal law. The major topics of study include the purposes of criminal law, the elements of criminal law, defenses to crimes, criminal sanctions, constitutional limits on criminal law, and the entrepreneurial mindset as applied to an issue in criminal law.
CRIJ	115	Outlaw Gangs/Organized Crime	Department of Social & Behavioral Science: Criminal Justice	CRIJ	3	Prerequisite/ Corequisite	CRIJ100	This course introduces students to the most current legal strategies and law enforcement tools for detecting and interdicting outlaw gangs and organized crime. The major areas of focus include a study of the origins of outlaw gangs and organized crime, and the impact of these outlaw organizations on American society.
CRIJ	116	Crimes in US Business	Department of Social & Behavioral Science: Criminal Justice	CRIJ	3	Prerequisite/ Corequisite	CRIJ100	This course introduces students to the history of white-collar crime and present-day white-collar crime. The major topics of study include criminal infractions in small and large business corporations and the methods of investigation utilized by criminal justice agencies.
CRIJ	120	Criminal Evidence	Department of Social & Behavioral Science: Criminal Justice	CRIJ	3	Prerequisite/ Corequisite	CRIJ100	This course introduces students to the laws of evidence at the operational level of law enforcement officers and other criminal justice professionals. The major topics of study include the federal rules of evidence, arrest, force, search, and seizure.

CRIJ	130	Criminal Investigation/Forensics	Department of Social & Behavioral Science: Criminal Justice	CRIJ	3	Prerequisite/ Corequisite	CRIJ100	This course introduces students to the fundamentals of criminal investigations, rules of evidence, sources of information, observations, descriptions, and identifications. The major areas of focus include collection techniques, preservation techniques, technological aids in investigating, and the processing of physical evidence, records, reports, and statements by police investigators.
CRIJ	140	Criminal Procedure	Department of Social & Behavioral Science: Criminal Justice	CRIJ	3	Prerequisite/ Corequisite	CRIJ100	This course introduces students to the general principles of procedural law. The major topics of study include arrest, initial appearance, hearings, grand jury proceedings, arraignment, bail, procedures, motions to suppress evidence, trial, appellate steps, warrants, and the various roles of individuals working within the criminal justice system.
CRIJ	160	Introduction to Juvenile Justice	Department of Social & Behavioral Science: Criminal Justice	CRIJ	3	Prerequisite/ Corequisite	CRIJ100	This course introduces students to the juvenile justice system, both delinquent and dependent. The major topics include theories of juvenile delinquency and dependency, juvenile offender laws, and the relationship among juveniles, family, probation, and schools.
CRIJ	210	Terrorism	Department of Social & Behavioral Science: Criminal Justice	CRIJ	3	Prerequisite/ Corequisite	CRIJ100	This course introduces students to the history and foundations of terrorism, terrorism as a universal phenomenon, weapons of mass destruction, counterterrorism, and the future of terrorism. The major topics of study include modern day national and international events and their connections to terrorism.

CRIJ	220	Psychology for Law Enforcement Officers	Department of Social & Behavioral Science: Criminal Justice	CRIJ	3	Prerequisite/ Corequisite	CRIJ100	This course introduces students to the fundamental principles of psychology as applied to modern practices in managing crowds, criminals, delinquents, and the public. The major topics of study include an examination of psychological principles as applied to criminals and the effects of trauma on the criminal justice professional.
CRIJ	250	Police Organization & Administration	Department of Social & Behavioral Science: Criminal Justice	CRIJ	3	Prerequisite/ Corequisite	CRIJ100	This course introduces students to past and present police administration practices. The areas of focus include the operational procedures of both large and small departments and the administrative problems and principles associated with governmental and business administrations.
CRIJ	260	Probation & Parole	Department of Social & Behavioral Science: Criminal Justice	CRIJ	3	Prerequisite/ Corequisite	CRIJ100	This course introduces students to the history and fundamental theories of probation and parole. The major topics of study include county correctional systems policies and practices and federal and state correctional systems policies and practices.
CRIJ	275	Introduction to Correctional Administration	Department of Social & Behavioral Science: Criminal Justice	CRIJ	3	Prerequisite/ Corequisite	CRIJ100	This course introduces students to correctional administration. The major topics include theories of criminal behavior, justifications for punishment, correctional philosophy, the correctional processes, correctional treatment methodology, early American prisons, today's prisons, prisons of the future and the role of probation in the criminal justice system.

CRIJ	280	Cooperative Education: Criminal Justice	Department of Social & Behavioral Science: Criminal Justice	CRIJ	3	Prerequisite	CRIJ100 (C or better) and permission of the Department of Social and Behavioral Science	This course introduces students to field work directly related to the student's academic preparation and career objectives. The major areas of focus include partaking in actual field work, observing real-life situations of the working professional and their clients, and comparing academic theory to field work observations.
CRIJ	285	Constitutional Law for the Law Enforcement Officer	Department of Social & Behavioral Science: Criminal Justice	CRIJ	3			This course introduces students to constitutional law and the guarantees of personal liberties in the federal constitution. The major topics include the jurisdiction of the U.S. Supreme Court and the lower courts, case law, fundamental rights, such as trials by jury, the right to counsel, privilege, and self-incrimination.
CRIJ	100P	Introduction to the Administration of Criminal Justice	Department of Social & Behavioral Science: Criminal Justice	CRIJ	3	Prerequisite/ Corequisite	Prerequisite: COMP108 (C or better) Corequisite: Read score 2 and enrollment in READ110	Equivalent to CRIJ-100, Intro to Adm Criminal Justice. Created to accommodate pairing with READ-110 or READ-090. Requires same-term registration with paired READ section.
CULN	100	Culinary Foundations	Department of Business and Innovation: Culinary Arts	CULN	1			This course is primarily for students interested in pursuing a culinary career. Students are introduced to the current equipment, measurements and terminology used in a commercial kitchen. Other topics include culinary math, standardized recipes and ingredient identification. Education goals and employment opportunities in the foodservice industry are also discussed.

CULN	101	Apprenticeship Practicum I	Department of Business and Innovation: Culinary Arts	CULN	1	Prerequisite	<p>Must be a Culinary Arts or Baking and Pastry Arts degree program apprenticeship student. Permission of the Department of Business + Innovation required.</p> <p>United States Department of Labor Bureau of Apprenticeship and Training requirement: 1,000 hours of on-the-job training per semester.</p>	The Apprenticeship Practicum provides students with an opportunity for hands-on application and reinforcement of culinary principles and techniques in a foodservice job setting. Students gain work experience in food production while under supervision of a qualified chef. Students obtain industry jobs, receive workplace training and log their experiences.
CULN	102	Apprenticeship Practicum II	Department of Business and Innovation: Culinary Arts	CULN	1	Prerequisite	<p>Must be a Culinary Arts or Baking and Pastry Arts degree program apprenticeship student. Permission of the Department of Business + Innovation required.</p> <p>United States Department of Labor Bureau of Apprenticeship and Training requirement: 1,000 hours of on-the-job training per semester.</p>	The Apprenticeship Practicum provides students with an opportunity for hands-on application and reinforcement of culinary principles and techniques in a foodservice job setting. Students gain work experience in food production while under supervision of a qualified chef. Students obtain industry jobs, receive workplace training and log their experiences.
CULN	103	Apprenticeship Practicum III	Department of Business and Innovation: Culinary Arts	CULN	1	Prerequisite	<p>Must be a Culinary Arts or Baking and Pastry Arts degree program apprenticeship student. Permission of the Department of Business + Innovation required.</p> <p>United States Department of Labor Bureau of</p>	The Apprenticeship Practicum provides students with an opportunity for hands-on application and reinforcement of culinary principles and techniques in a foodservice job setting. Students gain work experience in food production while under supervision of a qualified chef. Students obtain industry jobs, receive workplace training and log their experiences.

							Apprenticeship and Training requirement: 1,000 hours of on-the-job training per semester.	
CULN	104	Apprenticeship Practicum IV	Department of Business and Innovation: Culinary Arts	CULN	1	Prerequisite	<p>Must be a Culinary Arts or Baking and Pastry Arts degree program apprenticeship student. Permission of the Department of Business + Innovation required.</p> <p>United States Department of Labor Bureau of Apprenticeship and Training requirement: 1,000 hours of on-the-job training per semester.</p>	The Apprenticeship Practicum provides students with an opportunity for hands-on application and reinforcement of culinary principles and techniques in a foodservice job setting. Students gain work experience in food production while under supervision of a qualified chef. Students obtain industry jobs, receive workplace training and log their experiences.
CULN	110	Basic Food Preparation	Department of Business and Innovation: Culinary Arts	CULN	4		Additional Fee - see www.bucks.edu/fees .	This kitchen lab course covers basic food preparation and management techniques used for commercial and institutional food operations. Students develop hands-on knowledge of traditional and contemporary food preparation procedures, use and care of equipment, knife skills, standardized recipes and food costing principles.
CULN	111	Advanced Food Preparation and Management	Department of Business and Innovation: Culinary Arts	CULN	4	Prerequisite	<p>CULN110 (C or better) or Permission of the Department of Business + Innovation</p> <p>Additional Fee - see www.bucks.edu/fees.</p>	This kitchen lab course covers advanced food preparation and management techniques used for commercial and institutional food operations. Students develop hands-on knowledge of traditional and contemporary food preparation procedures, meat and seafood fabrication, advanced foods and quantity preparation terminology, plating, and flavor psychology.

CULN	112	Garde Manger and Buffet Planning	Department of Business and Innovation: Culinary Arts	CULN	4	Prerequisites	CULN110 (C or better) or Permission of the Department of Business + Innovation Additional Fee - see www.bucks.edu/fees .	This course covers traditional and contemporary food preparation techniques used in the buffet/garde manger kitchen. Students develop knowledge and skills needed to create cold and hot hors d'oeuvres and other special food preparations such as pate, terrines, galantines, and mousse. Buffet arrangement, organization, and planning is also will also be covered.
CULN	113	International Cuisine	Department of Business and Innovation: Culinary Arts	CULN	4	Prerequisites	CULN110 (C or better) or Permission of the Department of Business + Innovation Additional Fee - see www.bucks.edu/fees .	This kitchen lab course covers traditional and contemporary food preparation procedures for international and ethnic-specific cuisines. Students develop an understanding of global culinary cultures and international ingredients, flavor profiles and food sources.
CULN	114	Regional Cuisines of the U.S.	Department of Business and Innovation: Culinary Arts	CULN	4	Prerequisites	CULN110 (C or better) or Permission of the Department of Business + Innovation Additional Fee - see www.bucks.edu/fees .	This kitchen lab course introduces students to the foods, recipes, and flavor profiles of the various regions of the United States. Students develop knowledge and skills needed to create the cuisines typically found in the different regions in our country. Regional cultural traditions and practices are also analyzed.
CULN	115	Cooking for Special Diets	Department of Business and Innovation: Culinary Arts	CULN	4	Prerequisites	CULN110 (C or better) or Permission of the Department of Business + Innovation Additional Fee - see www.bucks.edu/fees .	This kitchen lab course covers traditional and contemporary food preparation procedures for vegetarian, vegan and other special diets. Students develop an understanding of the diversity of dietary needs in the community, techniques for adapting recipes and menus for restricted diets and culinary diet-related trends.

CULN	130	Baking and Decorating	Department of Business and Innovation: Culinary Arts	CULN	3		Additional Fee - see www.bucks.edu/fees .	This course focuses on the ingredients, methods, and kitchen equipment used to create a variety of baked goods, including cakes, cookies, pies, biscuits, muffins, breads, and gluten free and vegan items. Students learn techniques to decorate cakes, cookies, and pastries with artistic expression.
CULN	138	Ice Cream and Frozen Desserts	Department of Business and Innovation: Culinary Arts	CULN	2			This course covers the preparation and presentation of frozen desserts. Students learn the principles and techniques necessary for the production of ice cream, gelato, sorbet, frozen mousses and souffles, and appropriate sauces and garnishes.
CULN	139	Wedding Cake Assembly and Decoration	Department of Business and Innovation: Culinary Arts	CULN	2			Students learn techniques of wedding cake design, assembly, and construction. Areas of study include choice of number and size of cake tiers; construction of stacked and tiered cakes, buttercream and fondant decoration; the use of fresh and hand-made edible flowers; and production planning, safe storage and delivery of wedding cakes.
CULN	151	Bread Fabrication - Basic	Department of Business and Innovation: Culinary Arts	CULN	2			This course covers the fundamentals of baking bread and rolls. Students develop knowledge of ingredients and techniques necessary to produce sandwich breads, basic free-form loaves and flat breads, rolls, and quick breads.
CULN	152	Bread Fabrication - Advanced	Department of Business and Innovation: Culinary Arts	CULN	2	Prerequisite	CULN151 (C or better) or permission of the Department of Business + Innovation	This course covers advanced topics in bread baking. Students develop knowledge of ingredients and techniques necessary to work with pre-ferments, natural starters, and specialty ingredients to produce a variety of specialty and artisanal breads.

CULN	156	Chocolate - Essential Skills	Department of Business and Innovation: Culinary Arts	CULN	2	Prerequisite	CULN130 (C or better) or permission of the Department of Business + Innovation	This course covers the history, production and preparation of chocolate. Students learn tempering techniques, and create chocolate decorations, garnishes and confections. Desserts and pastries using chocolate as the primary ingredient are prepared.
CULN	158	Cookies	Department of Business and Innovation: Culinary Arts	CULN	1		Additional Fee - see www.bucks.edu/fees .	Students in this course learn techniques for the production of professional quality cookies and bars. Topics include homestyle American classics, upscale and international cookies, and gluten-free and vegan cookies and bars.
CULN	160	Advanced Baking: Pastry	Department of Business and Innovation: Culinary Arts	CULN	2	Prerequisite	CULN130 (C or better) or permission of the Department of Business + Innovation	This course covers advanced topics in pastry making. Students develop knowledge and skills necessary to produce a variety of pastry doughs, custards, sauces, meringues and mousses and use these components to create pastries and plated desserts meeting professional standards for taste and appearance.
CULN	165	Advanced Baking: Cakes	Department of Business and Innovation: Culinary Arts	CULN	2	Prerequisite	CULN130 (C or better) or permission of the Department of Business + Innovation	This course covers advanced topics in baking, assembling and decorating cakes and tortes. Topics covered include cake mixing methods, fillings and finishing coats, torting and assembly of layer cakes, piping and writing on cakes, and specialty decorations in fondant, marzipan and modelling chocolate.
CULN	202	Food Purchasing/ Techniques and Procedures	Department of Business and Innovation: Culinary Arts	CULN	3	Prerequisite	HOSP100 (C or better) or permission of the Department of Business + Innovation	In this course, students examine the principles and practices concerned with the purchase of food, beverages, supplies, and equipment for the hospitality industry. Specific topics include testing and evaluation techniques, and storeroom controls.

CULN	203	Menu Planning/ Costing/Design	Department of Business and Innovation: Culinary Arts	CULN	3	Prerequisite	HOSP100 (C or better) or permission of the Department of Business + Innovation	In this course, students examine the basic elements of menu planning. Topics include pricing, ordering, recipe conversion, and various types of menus and food preferences. Nutrition receives special emphasis. Other topics include marketing strategies, the life cycle of the menu, and cost-controls.
CULN	281	Culinary Internship I	Department of Business and Innovation: Culinary Arts	CULN	2	Prerequisite	Must be a Culinary Arts degree program internship- track student. Permission of the Department of Business + Innovation required.	In this course, students participate in on- the-job training in the culinary area directly related to their academic preparation and career objectives. Students gain hands-on knowledge and skills which will be reviewed and assessed with the course coordinator.
CULN	282	Culinary Internship II	Department of Business and Innovation: Culinary Arts	CULN	2	Prerequisite	Must be a Culinary Arts degree program internship- track student. Permission of the Department of Business + Innovation required.	In this course, students participate in on- the-job training in the culinary area directly related to their academic preparation and career objectives. Students gain hands-on knowledge and skills which will be reviewed and assessed with the course coordinator.
CULN	285	Culinary Capstone	Department of Business and Innovation: Culinary Arts	CULN	2	Prerequisite	Must be a Culinary Arts or Baking and Pastry Arts degree program student. Permission of the Department of Business + Innovation required.	As the culminating course in the Culinary Arts and Baking and Pastry Arts programs, this course provides students with a supervised practical experience to apply previously learned skills and theory in a group culinary production. Concept development, menu creation and plan execution are included in this hand-on course.

DANC	101	Fundamentals of Modern Dance	Department of Kinesiology and Sport Studies: Dance	DANC	2			This course provides the student with development and practice in the contemporary/classical principles of modern dance technique. Fundamentals of Modern Dance includes active participation in center, movement across the floor, proper alignment, improvisation, and personal growth within performance techniques. Diverse styles are explored to garner one's unique style.
DANC	102	Beginner Modern Dance	Department of Kinesiology and Sport Studies: Dance	DANC	2	Prerequisite	DANC101 (C or better) or Permission of the Department of Kinesiology and Sport Studies	Students continue development and practice in the contemporary/classical principles of modern dance technique. A continuation of DANC101, Beginner Modern Dance includes active participation in center, movement across the floor, proper alignment, improvisation, and personal growth within performance techniques. Diverse styles will be explored to garner one's unique style.
DANC	105	Fundamentals of Classical Ballet	Department of Kinesiology and Sport Studies: Dance	DANC	2			This course provides the student with fundamentals of Classical Ballet Technique. Instruction includes flexibility and other physiological benefits. The course includes participation in barre, and center movements with proper alignment. Class concentrates on: classical disciplines, alignment and core connection, physical strength and flexibility, and self-discipline.

DANC	106	Beginner Classical Ballet	Department of Kinesiology and Sport Studies: Dance	DANC	2	Prerequisite	DANC105 (C or better) or Permission of the Department of Kinesiology and Sport Studies	This course, a continuation of DANC105, provides students with fundamentals of Classical Ballet Technique. Instruction includes flexibility and other physiological benefits. The course includes participation in barre, and center movement focusing on proper alignment. Classes concentrate on classical disciplines, alignment and core connection, physical strength and flexibility, and self-discipline.
DANC	107	Freshman Seminar in Dance	Department of Kinesiology and Sport Studies: Dance	DANC	3			This course is an introductory seminar to understanding dance as a career, dance performance techniques, and dance improvisation. The class explores improvisation, participating in a rehearsal process, basic elements of dance, injury prevention, and dance professions. The class demonstrates how to make a career in the dance field.
DANC	201	Intermediate Modern Dance	Department of Kinesiology and Sport Studies: Dance	DANC	2	Prerequisite	DANC102 (C or better) or Permission of the Department of Kinesiology and Sport Studies	This course provides the student with intermediate development and practice in the contemporary/classical principles of modern dance technique. Intermediate Modern Dance includes active participation in center, movement across the floor, proper alignment, improvisation and personal growth within performance techniques. Diverse styles are explored to refine one's unique style.
DANC	202	Advanced Modern Dance	Department of Kinesiology and Sport Studies: Dance	DANC	2	Prerequisite	DANC201 (C or better) or permission of the department of Kinesiology & Sport Studies	This course provides the student with advanced development and practice in the contemporary/classical principles of modern dance technique. Advanced Modern Dance includes active participation in center, movement across the floor, proper alignment, improvisation and personal growth within performance

								techniques. Diverse styles are explored to refine one's unique style.
DANC	204	Dance History	Department of Kinesiology and Sport Studies: Dance	DANC	3	Prerequisite	Reading Placement Test Score Level 3 or READ110 (C or better) or COMP108 (C or better) or permission of the Department of Kinesiology and Sport Studies	This course surveys dance history through examples from ancient times to the present. The course looks at diversity of dance practices across cultures, concert stage, vernacular settings, and screen media. Through the study of dance's history, aesthetic elements, and communicative power, students become familiar with dance as a vital form of artistic expression and creation throughout time and space.
DANC	205	Intermediate Classical Ballet	Department of Kinesiology and Sport Studies: Dance	DANC	2	Prerequisite	DANC106 (C or better) or Permission of the Department of Kinesiology and Sport Studies	This course provides the student with intermediate practice of Classical Ballet. Instruction includes flexibility and other physiological benefits. Participation in barre, and center movement focuses on proper alignment at an intermediate level. Classes concentrate on classical disciplines, alignment and core connection, physical strength and flexibility, and self-discipline.
DANC	206	Advanced Classical Ballet	Department of Kinesiology and Sport Studies: Dance	DANC	2	Prerequisite	DANC205 (C or better) or Permission of the Department of Kinesiology and Sport Studies	This course provides the student with advanced practice of Classical Ballet. Instruction includes flexibility and other physiological benefits. Participation in barre, and center movement across the floor focusing on proper alignment at an advanced level. Classes concentrate on classical disciplines, alignment and core connection, physical strength and flexibility, and self-discipline.

DANC	207	Dance Composition I	Department of Kinesiology and Sport Studies: Dance	DANC	3	Prerequisite	DANC101 (C or better)	This course explores the principles of dance composition including creativity, movement invention, choreographic structuring and the development of analytical skills as applied to dance. Class concentrates on exploring composition through improvisation; assigned movement studies; active engagement in a critical evaluation process; techniques needed for the creation of solo/group composition.
DANC	208	Dance Composition II	Department of Kinesiology and Sport Studies: Dance	DANC	3	Prerequisite	DANC207 (C or better) or Permission of the Department of Kinesiology and Sport Studies	This course combines beginning compositional techniques with site-specific dance work. The course re-familiarizes the basic choreographic techniques, comprehension and implementation of movement creation, and the utilization of original choreography in and outside the studio space. The course promotes improvisational movement choices to fully explore the students' artistic vision.
DXMS	100	Introduction to Sonography/Patient Care	Department of Health Sciences: Diagnostic Medical Sonography	DXMS	3	Prerequisite	Admission to the Diagnostic Medical Sonography Program	This course introduces the profession of sonography and the role of sonographers in healthcare. The history of sonography, patient care techniques, infection control, ethical and legal issues and proper communication skills is discussed.
DXMS	101	Cross-Sectional Anatomy in Sonography	Department of Health Sciences: Diagnostic Medical Sonography	DXMS	3	Prerequisite	Admission to the Diagnostic Medical Sonography Program	This course requires the student to learn cross-sectional anatomy of the body in the transverse, longitudinal and coronal planes. Emphasis is placed on how the organs and vessels are visualized sonographically for required images.

DXMS	200	Physics and Instrumentation in Sonography I	Department of Health Sciences: Diagnostic Medical Sonography	DXMS	2	Prerequisite	DXMS100 (C or better) and DXMS101 (C or better)	This course provides the student with the relevant fundamental physical principles as well as the basic instrumentation used in diagnostic ultrasound. The modes of operation, imaging and display techniques that relate to high frequency sound production is discussed.
DXMS	201	Sonography of the Abdomen with Lab	Department of Health Sciences: Diagnostic Medical Sonography	DXMS	4	Prerequisite	DXMS100 (C or better) and DXMS101 (C or better)	This course provides the student a comprehensive understanding of the anatomy, physiology, embryology, and pathophysiological processes of the abdominal region. Specific attention is paid to the liver, pancreas, gallbladder, abdomen vasculature, biliary systems, spleen, body cavities, urinary system, abdominal wall/components, and male pelvis.
DXMS	202	Sonography of Superficial Parts and Vascular Structure with Lab	Department of Health Sciences: Diagnostic Medical Sonography	DXMS	3	Prerequisite	DXMS100 (C or better) and DXMS101 (C or better)	The course involves the application and use of ultrasound in the imaging of superficial and vascular structures. The course provides the student with an understanding of Doppler and color ultrasound in the diagnostic evaluation of vascular disease. Discussions include instrumentation and hemodynamics for vascular sonograms.
DXMS	210	Clinical Experience in Sonography I	Department of Health Sciences: Diagnostic Medical Sonography	DXMS	2	Prerequisite	DXMS100 (C or better) and DXMS101 (C or better)	Students are assigned to clinical areas and attend clinical education for 16 hours per week. In the clinical setting, the students demonstrate their knowledge in ethical situations, legal issues, patient care situations, obtaining and evaluating sonography images.

DXMS	211	Sonography of OB/GYN with Lab	Department of Health Sciences: Diagnostic Medical Sonography	DXMS	4	Prerequisite	DXMS200 (C or better), DXMS201 (C or better), DXMS202 (C or better) and DXMS210 (C or better)	This course familiarizes students with the pathophysiology of the female reproductive and gynecological system. Pelvic scanning protocols as well as first, second and third trimester of the gravid uterus and fetus are covered. Embryology, chromosomal and congenital anomalies are discussed.
DXMS	212	Physics & Instrumentation in Sonography II	Department of Health Sciences: Diagnostic Medical Sonography	DXMS	2	Prerequisite	DXMS200 (C or better), DXMS201 (C or better), DXMS202 (C or better) and DXMS210 (C or better)	This course explores the physics utilized for image acquisition in Diagnostic sonography and builds on content learned in DXMS200. A more in-depth study of Doppler, artifacts, and safety/biological effects is included.
DXMS	215	Clinical Experience in Sonography II	Department of Health Sciences: Diagnostic Medical Sonography	DXMS	3	Prerequisite	DXMS200 (C or better), DXMS201 (C or better), DXMS202 (C or better) and DXMS210 (C or better)	This course provides 24 hours per week of clinical education experience. In the clinical setting, the student demonstrates their knowledge in ethical situations, legal issues, patient care situations, independently obtaining and evaluating sonography images when competency has been achieved at an intermediate level.
DXMS	220	Clinical Experience in Sonography III	Department of Health Sciences: Diagnostic Medical Sonography	DXMS	3	Prerequisite	DXMS211 (C or better), DXMS212 (C or better) and DXMS215 (C or better)	This course provides 24 hours per week of clinical education experience. The student demonstrates their knowledge in ethical situations, legal issues, patient care situations, obtaining and evaluating sonography images at an advanced level. The student performs a complete diagnostic ultrasound exams independently.

ECON	111	Principles of Economics: Macro	Department of Social & Behavioral Science: Economics	ECON	3			An introduction to the basic principles of economics, with emphasis upon macroeconomic theory and analysis. Among topics considered are the scope and nature of economics, ideology and structure of the American economy, national income and employment theory, business fluctuations, money and banking, fiscal and monetary policies, and economic growth.
ECON	112	Principles of Economics: Micro	Department of Social & Behavioral Science: Economics	ECON	3			Students study basic economic principles with particular emphasis upon microeconomic theory and problems. Among topics considered are the economics of the firm, the price system and resource allocation, the distribution of income, domestic economic problems, international trade, economic development, and comparative economic systems.
ECON	120	Current Economic Issues	Department of Social & Behavioral Science: Economics	ECON	3			An introduction to the application of economic analysis to current economic problems and the consideration of policy alternatives. This course investigates the role of the U.S. Government in the economy in pursuit of economic and social goals.
ECON	130	Introduction: Labor Relations	Department of Social & Behavioral Science: Economics	ECON	3			A study of labor-management relations in the United States, with an emphasis on current collective bargaining issues and procedures. The interaction of labor and management organizations will be analyzed within the context of the legal, economic, and structural environments in which they operate.

ECON	111H	Principles of Economics: Macro – Honors section	Department of Social & Behavioral Science: Economics	ECON	3	Prerequisite	Admission to the Honors @ Bucks program	An introduction to the basic principles of economics, with emphasis upon macroeconomic theory and analysis. Among topics considered are the scope and nature of economics, ideology and structure of the American economy, national income and employment theory, business fluctuations, money and banking, fiscal and monetary policies, and economic growth.
EDUC	100	Foundations of Education	Department of Social & Behavioral Science: Education	EDUC	3	Prerequisite	Reading placement test score of 3 or READ110 (C or better)	This course is primarily for students interested in pursuing a career in education. This course provides a survey of the history and philosophy of education with emphasis on current problems in education, on significant educational innovations, and on the school as a social institution. Students complete five hours of observation.
EDUC	105	Foundation for Early Learning (PreK-4)	Department of Social & Behavioral Science: Education	EDUC	3	Prerequisite	Reading Placement Test score of 3 or READ110 (C or better)	Students learn about the early childhood profession and its relationship to families, communities, and cultures. The course explores the profession in terms of legal, historical, philosophical, and ethical perspectives. Students examine developmentally appropriate practice aligned with current PA standards. Students complete five hours of observation.
EDUC	115	Observing and Recording the Behavior of Young Children	Department of Social & Behavioral Science: Education	EDUC	3			Course content is based on the development of skills in observing, recording, assessing, and evaluating the behavior of young children. Field experiences are required to acquaint students with a genuine teaching learning environment.

EDUC	120	Early Learning and Development I: Ages Birth-5	Department of Social & Behavioral Science: Education	EDUC	3			This course explores child development in the cognitive, language, physical, emotional, and social domains within a theoretical and research framework for children from birth to five years of age. Students examine the influences of cultural diversity, family, and education on early learning and development. Five hours of observation required.
EDUC	130	Early Learning and Development Learning II: Ages 6-11	Department of Social & Behavioral Science: Education	EDUC	3			This course explores child development in the cognitive, language, physical, emotional, and social domains within a theoretical and research framework for children ages 6 through 11. Students examine the influences of cultural diversity, family, and education on early learning and development. The course includes five hours of observation.
EDUC	150	Science and Math Experiences for Young Children	Department of Social & Behavioral Science: Education	EDUC	3			Participants in this course learn the development of children's mathematical and scientific thinking and identify and create science and math experiences to support that development. Students create standards-based science and math experiences using appropriate materials. Students complete five hours of observation.
EDUC	160	Introduction to Exceptionalities	Department of Social & Behavioral Science: Education	EDUC	3			This course provides an overview of the different categories of exceptional learners. The course emphasizes issues in the education of individuals with cognitive impairment, learning disabilities, emotional disturbance, and physical handicaps, including inclusion and other placement options. Students complete five hours of observation.

EDUC	170	Language and Literacy Development in Early Childhood: Ages PreK-4 Grade	Department of Social & Behavioral Science: Education	EDUC	3			This course examines language and literacy development in children from birth to five years of age, including the role of English language learners and language development for exceptional learners. Students present developmentally appropriate activities in the areas of listening, speaking, reading, and writing. Five hours field experience.
EDUC	200	Integrated Arts, Movement, and Play	Department of Social & Behavioral Science: Education	EDUC	3			Students integrate children's creativity, play, music, movement, and the arts into the curriculum. Students describe the process involved in guiding children to creatively express themselves in art, movement, and play. Students learn how to effectively support goals of multicultural education and exceptional learners. Students complete five hours of observation.
EDUC	205	Fieldwork: Observation and Assessment in Education I (Special Educ/Autism Emphasis)	Department of Social & Behavioral Science: Education	EDUC	3	Prerequisite	EDUC160 (C or better)	Participants engage in a hands-on experience working with children with autism spectrum disorder in a classroom setting. Students use applied behavior analysis, observation, and informal assessment techniques to increase skills and change behavior. Students complete thirty hours of field experience.
EDUC	206	Fieldwork: Observation and Assessment in Education II, PreK-4	Department of Social & Behavioral Science: Education	EDUC	3	Prerequisite	EDUC105 (C or better)	Students spend four hours each week in an early childhood or K-4th grade classroom. Students observe, develop, and apply classroom skills. Areas of focus include teacher language, community building and classroom management, assessment, and teacher and student behavior and interactions. Students complete a minimum of forty hours field experience.

EDUC	220	Practicum in Education	Department of Social & Behavioral Science: Education	EDUC	6	Prerequisite	Permission of the Department of Social and Behavioral Science	Students apply their knowledge and skills in an early childhood classroom for 15 hours each week. In this "hands-on" experience in a local school or childcare placement, students create and implement standards-based, developmentally appropriate learning environments and experiences. Course includes supervisory visitations, extensive written work, and a weekly seminar class.
EDUC	100P	Foundations of Education	Department of Social & Behavioral Science: Education	EDUC	3	Corequisite	Must be taken with the paired section of READ110	This course is primarily for students interested in pursuing a career in education. This course provides a survey of the history and philosophy of education with emphasis on current problems in education, on significant educational innovations, and on the school as a social institution. Students complete five hours of observation.
EDUC	105P	Foundations for Early Learning: Prek-4 (Paired Section)	Department of Social & Behavioral Science: Education	EDUC	3	Corequisite	Must be taken with paired READ110 section and Read level 2	Students learn about the early childhood profession and its relationship to families, communities, and cultures. The course explores the profession in terms of legal, historical, philosophical, and ethical perspectives. Students examine developmentally appropriate practice aligned with current PA standards. Students complete five hours of observation.
ENGR	112	Engineering Design	Department of Science, Technology, Engineering & Mathematics: Engineering	ENGR	4	Prerequisite	MATH103 (C or better) or Math Placement Test score of 7 or higher	This course introduces students to the engineering design process through two- and three- dimensional modeling, drawing, computer-aided design (CAD), and rapid prototyping. This course emphasizes a design-driven curriculum involving team-based investigations and solutions of reverse engineering problems

								using free-hand, CAD software, and manufacturing techniques.
ENGR	222	Statics	Department of Science, Technology, Engineering & Mathematics: Engineering	ENGR	3	Prerequisite/ Corequisite	Prerequisite: MATH141 and PHYS121 (C or better) Corequisite: MATH141	This course provides an overview of calculus-based engineering statics. Topics include: concurrent force systems; statics of particles; equivalent force/moment systems, distributed forces, and equilibrium of rigid bodies; trusses, frames, and machines; internal forces in structural members; friction; second moments of area, and moments of inertia.
ENGR	223	Dynamics	Department of Science, Technology, Engineering & Mathematics: Engineering	ENGR	3	Prerequisite	ENGR222 (C or better)	This course provides an overview of calculus-based engineering dynamics. Topics include: second moments, particle kinematics and dynamics, rigid body kinematics and dynamics, work-energy concepts, and vibrations.
ENGR	224	Strength of Materials	Department of Science, Technology, Engineering & Mathematics: Engineering	ENGR	3	Prerequisite	ENGR222 (C or better)	This course introduces students to the basics of strength of materials. Topics include: loading; statically indeterminate structures; temperature and prestrain effects; shear force and bending moment; axial, shear, bearing and bending stresses; deflection of beams; and buckling of columns.
ENGR	240	Circuit Analysis	Department of Science, Technology, Engineering & Mathematics: Engineering	ENGR	4	Prerequisite/ Corequisite	Prerequisites: PHYS122 (C or better) and MATH141 Corequisite: MATH141 Additional Fee - see www.bucks.edu/fees	This lecture and laboratory course introduces the students to basic circuit devices and circuit analysis. Topics include: circuit elements, techniques of circuit analysis, natural response, steady state analysis, and basic filter design.
ENGT	222	Applied Engineering Statics	Department of Science, Technology, Engineering & Mathematics:	ENGT	3	Prerequisite	PHYS106 (C or better) and MATH122 (C or better) or Math Placement Test score of '9' or higher	This course provides a non-calculus analysis of Newton's first law from an applications standpoint as it pertains to particles and rigid bodies. It utilizes algebra and trigonometry for application

			Engineering Technology					to problems involving force systems, equilibrium, and structures.
ENGT	240	Applied Circuit Analysis	Department of Science, Technology, Engineering & Mathematics: Engineering Technology	ENGT	4	Prerequisite	PHYS106 (C or better) and MATH122 (C or better) or Math Placement Test score of '9' or higher; Additional Fee - see www.bucks.edu/fees .	This lecture and laboratory course provides a non-calculus overview of applied circuit analysis. Topics include: circuit elements, techniques of circuit analysis, natural response, and steady state analysis.
EXSC	200	Biomechanics of Human Movement	Department of Kinesiology and Sport Studies: Exercise Science	EXSC	4	Prerequisite	BIOL181 (C or better)	This course introduces students to basic mechanical principles of physical activity and exercise. The structure, composition, and behavior of basic skeletal and muscular tissue, pathomechanics of injury, adaptation to load and degenerative changes associated with aging are discussed within the scope of scholarly literature.
EXSC	200	Biomechanics of Human Movement	Department of Kinesiology and Sport Studies: Exercise Science	EXSC	4	Prerequisite/ Corequisite	KINS180	This course introduces students to basic mechanical principles of physical activity and exercise. The structure, composition, and behavior of basic skeletal and muscular tissue, pathomechanics of injury, adaptation to load and degenerative changes associated with aging are discussed within the scope of scholarly literature.
EXSC	201	Physiology of Exercise	Department of Kinesiology and Sport Studies: Exercise Science	EXSC	4	Prerequisite	BIOL182 and KINS180 (C or better in both)	This course covers the basic concepts and principles of the physiology of exercise. Topics include human responses and adaptations to exercise with varying levels of stress and intensity as well as the relationship of exercise and training to metabolism, energy transfer, muscle

								contraction, circulatory and respiratory function.
FREN	110	Elementary French I	Department of Language & Literature: French	FREN	3			In this course students learn the basics of understanding, speaking, reading, and writing French. This course stresses oral proficiency, pronunciation, listening comprehension, and grammatical accuracy, as well as the cultural backgrounds of French-speaking countries.
FREN	111	Elementary French II	Department of Language & Literature: French	FREN	3	Prerequisite	FREN110 (C or better) or permission of the Department of Language and Literature	In this interactive course, which continues the work of FREN110, students acquire a working knowledge of French necessary to accomplish basic tasks. This course emphasizes comprehension and practice in pronunciation and conversation, as well as listening, speaking, reading and writing skill in an authentic French cultural context.
FREN	201	Intermediate French I	Department of Language & Literature: French	FREN	3	Prerequisite	FREN111 (C or better) or permission of the Department of Language and Literature	This course reviews basic essentials of vocabulary and grammatical constructions and presents some constructions not studied in the Elementary French sequence. The course also provides material for a solid foundation in conversation and composition. It continues to place emphasis on knowledge and appreciation of the culture of French-speaking countries.

FREN	202	Intermediate French II	Department of Language & Literature: French	FREN	3	Prerequisite	FREN201 (C or better) or permission of the Department of Language and Literature	This course reviews basic essentials of vocabulary and grammatical constructions and presents further constructions not covered in FREN201. The course provides additional material for a solid foundation in conversation and composition. It continues to place emphasis on knowledge and appreciation of the cultural backgrounds of French-speaking countries.
FREN	250	Intermediate French III	Department of Language & Literature: French	FREN	3	Prerequisite	FREN202 (C or better) or permission of the Department of Language and Literature	This course, conducted in French, is a continuation of the intermediate sequence. It emphasizes greater proficiency in listening, speaking, reading, and writing. Students study more complex language structures, read, view, and discuss current French media, read more difficult literary texts, and critically examine Francophone cultures.
FREN	251	Intermediate French IV	Department of Language & Literature: French	FREN	3	Prerequisite	FREN250 (C or better) or permission of the Department of Language and Literature	This course, conducted in French, continues from FREN250. It emphasizes greater proficiency in listening, speaking, reading, and writing. Students study more complex language structures, read, view, and discuss current French media, read more difficult literary texts, and critically examine Francophone cultures.
FRSC	100	Introduction to Fire Science	Department of Business and Innovation: Fire Science	FRSC	3			This course is an overview of fire protection and emergency services including: career opportunities, culture, history, loss analysis, organization and function of public and private fire protection services, laws and regulations, nomenclature, basic fire chemistry and physics, introduction to fire protection systems, introduction to strategy and tactics, life safety initiatives.

FRSC	103	Building Construction for Fire Protection	Department of Business and Innovation: Fire Science	FRSC	3	Prerequisite	FRSC100 (C or better) or department permission	This course examines the components of building construction that relate to fire and life safety. The focus of this course is on firefighter safety. The elements of construction and design of structures are shown to be key factors when inspecting buildings, preplanning fire operations, and operating at emergencies.
FRSC	104	Fire Prevention and Code Enforcement	Department of Business and Innovation: Fire Science	FRSC	3	Prerequisite/ Corequisite	Prerequisites: FRSC100 (C or better) or permission of department and FRSC112 (C or better) Corequisite: FRSC-103	This course provides fundamental knowledge of fire prevention and code enforcement. Topics include: history and philosophy of fire prevention, organization and operation of a fire prevention bureau, conducting fire/life safety inspections, use and application of codes and standards, plans review, fire and life safety education, and fire investigation.
FRSC	105	Fire Protection Systems	Department of Business and Innovation: Fire Science	FRSC	3	Prerequisite/ Corequisite	Prerequisites: FRSC-100 and FRSC-112 (C or better) Corequisite: FRSC-103	This course provides information relating to the features of design and operation of fire alarm systems, water-based fire suppression systems, special hazard fire suppression systems, water supply for fire protection and portable fire extinguishers. The fundamentals of the inspection, maintenance, and operations of these systems are covered in this course.
FRSC	112	Fire Behavior and Combustion	Department of Business and Innovation: Fire Science	FRSC	3			This course is a study of the physical properties and chemical characteristics applicable to fire. It also discusses combustion, the principles of fire, heat measurement, heat transfer, and heat energy sources. Emphasis is on emergency situations and the most favorable methods of handling firefighting and control.

FRSC	114	Principles of Fire and Emergency Services Safety & Survival	Department of Business and Innovation: Fire Science	FRSC	3			This course introduces the basic principles and history related to the national firefighter life safety initiatives, focusing on the need for cultural and behavioral change throughout emergency services.
FRSC	201	Firefighting Strategy & Tactics	Department of Business and Innovation: Fire Science	FRSC	3	Prerequisite	FRSC-100 (C or better) or department permission and FRSC103 (C or better) and FRSC112 (C or better)	This course examines the principle of fire ground control through utilization of personnel, equipment, and extinguish agents related to various emergency scenarios. The focus is on communication, pre-fire planning, and the roles, responsibilities and resource allocation in Incident Command/National Incident Management System (ICS/NIMS).
FRSC	202	Hazardous Materials	Department of Business and Innovation: Fire Science	FRSC	3	Prerequisite	FRSC100 or PUBS101 (C or better) or department permission	This course introduces the student to the chemical and physical characteristics, hazards, and combustibility of the most commonly encountered hazardous materials. Students learn how hazardous materials can influence fire development and spread, as well as how to manage hazardous materials at the incident scene.
FRSC	204	Legal Aspects of Emergency Services	Department of Business and Innovation: Fire Science	FRSC	3	Prerequisite	FRSC100 (C or better) or permission of department	This course introduces the Federal, State, and local laws that regulate emergency services and includes a review of national standards, regulations, and consensus standards influencing emergency services.
FRSC	206	Fire Investigation I	Department of Business and Innovation: Fire Science	FRSC	3	Prerequisite	FRSC100 (C or better) or department permission, FRSC103 (C or better), FRSC112 (C or better), and Writing placement level 6 or COMP107 (C or better).	This course provides the student with the fundamentals and technical knowledge needed for proper fire scene interpretations, including recognizing and conducting origin and cause, preservation of evidence and documentation, scene security, case law and constitutional amendments, motives of the fire setter, and types of fire causes.
FRSC	208	Principles of FES Administration	Department of Business and	FRSC	3	Prerequisite	FRSC100 (C or better) or department permission and	This course introduces the student to the organization and management of a fire

			Innovation: Fire Science				Writing placement level 6 or COMP107 (C or better)	and emergency services department and the relationship of government agencies to the fire service. Emphasis is placed on fire and emergency services, ethics, and leadership from the perspective of the company officer.
FRSC	209	Occupational Safety & Health for Emergency Services	Department of Business and Innovation: Fire Science	FRSC	3	Prerequisite	FRSC100 (C or better) or department permission and Writing placement level 6 or COMP107 (C or better)	This course introduces the concepts of occupational health and safety as it relates to emergency service organizations. Topics include risk and hazardous evaluation and control procedures for emergency service organizations.
FRSC	210	Fire & Life Safety Education	Department of Business and Innovation: Fire Science	FRSC	3	Prerequisite	FRSC100 (C or better) or department permission and Writing placement level 6 or COMP107 (C or better)	The course prepares students to develop and deliver fire and life safety education programs. Students develop presentation skills, prepare and deliver an oral presentation, learn how to formulate public education programs, review the effectiveness of existing programs and identify future trends.
FRSC	214	Fire Plans Review	Department of Business and Innovation: Fire Science	FRSC	3	Prerequisite	FRSC103, FRSC104 and FRSC105 (C or better) or permission of department	Through the use of construction documents and a fundamental knowledge of fire codes and standards, students develop an understanding of a building's fire protection features including the design of fire alarm systems, water-based fire suppression systems, special hazard fire suppression systems, water supply for fire protection and egress arrangements.
FRSC	216	Fire Investigation II	Department of Business and Innovation: Fire Science	FRSC	3	Prerequisite	FRSC202 and FRSC206 (C or better) or permission of department	This course is a continuation of Fire Investigation I, providing students with advanced principles and technical knowledge on the rule of law, fire scene analysis, fire behavior, evidence collection and preservation, scene documentation, case preparation, and courtroom testimony.

FRSC	227	Pre-Emergency Planning	Department of Business and Innovation: Fire Science	FRSC	3	Prerequisite	FRSC103 (C or better), FRSC104 (C or better), FRSC105 (C or better), and FRSC202 (C or better)	Students examine the intricacies of preparing pre-emergency plans and diagrams for fire investigation reports using Computer technology. Students demonstrate their understanding of the importance of pre-emergency planning for the Fire Service and prepare pre-emergency plans and diagrams.
FRSC	280	Fire & Emergency Service Internship	Department of Business and Innovation: Fire Science	FRSC	3	Prerequisite	Successful completion of at least 15 credits in FRSC, GPA of 2.5 earned at Bucks and department permission required	Student to field work directly related to their academic preparation and career objectives. The major areas of focus include partaking in actual field work, observing real-life situations of the working professional and their clients, and comparing academic theory to field work observations.
GEOG	110	World Geography	Department of Social & Behavioral Science: Geography	GEOG	3			A thematic survey aimed at understanding the contemporary world through an analysis of physical/environmental and cultural regions. Special attention is given to problems of social and technological change, political geographic disputes, and population growth.
GEOG	110H	World Geography (Honors section)	Department of Social & Behavioral Science: Geography	GEOG	3	Prerequisite	Admission to the Honors @ Bucks program	A thematic survey aimed at understanding the contemporary world through an analysis of physical/environmental and cultural regions. Special attention is given to problems of social and technological change, political geographic disputes, and population growth.
GRMN	110	Elementary German I	Department of Language & Literature: German	GRMN	3			In this interactive course students acquire a basic knowledge of understanding, speaking, reading, and writing German. It places emphasis on oral proficiency, listening, comprehension, and grammatical accuracy. Cultural background accompanies each chapter.

GRMN	111	Elementary German II	Department of Language & Literature: German	GRMN	3	Prerequisite	GRMN110 (C or better) or permission of the Department of Language and Literature	This interactive course continues the work of GRMN110; students continue to acquire a basic knowledge of understanding, speaking, reading, and writing German. It continues to stress oral proficiency, listening, comprehension, and grammatical accuracy. German cultural background accompanies each chapter.
GRMN	201	Intermediate German I	Department of Language & Literature: German	GRMN	3	Prerequisite	GRMN111 (C or better) or permission of the department of Language and Literature	This course reviews basic essentials of vocabulary and grammatical constructions and presents constructions not studied in the Elementary sequence. It provides material for a solid foundation in conversation and composition. This course continues to place emphasis on knowledge and appreciation of the culture of German-speaking countries.
GRMN	202	Intermediate German II	Department of Language & Literature: German	GRMN	3	Prerequisite	GRMN201 (C or better) or permission of the Department of Language and Literature	This course reviews basic essentials of vocabulary and grammatical constructions and presents constructions not studied in GRMN201. It provides additional material for a solid foundation in conversation and composition. It continues to emphasize knowledge and appreciation of the cultural backgrounds of German-speaking countries.
GRMN	250	Intermediate German III	Department of Language & Literature: German	GRMN	3	Prerequisite	GRMN202 (C or better) or permission of the Department of Language and Literature	This course, conducted in German, is a continuation of the intermediate sequence. It emphasizes greater proficiency in listening, speaking, reading, and writing. Students study more complex language structures, read, view, and discuss current German media, read more difficult literary texts, and critically examine German cultures.

GRMN	251	Intermediate German IV	Department of Language & Literature: German	GRMN	3	Prerequisite	GRMN250 (C or better) or permission of the Department of Language and Literature	This course, conducted in German, continues from GRMN250. It emphasizes greater proficiency in listening, speaking, reading, and writing. Students study more complex language structures, read, view, and discuss current German media, read more difficult literary texts, and critically examine German cultures.
GUID	101	Introduction to Guided Studies	Department of Language & Literature: Guided Studies	GUID	1			Students in this course develop self-awareness, critical thinking skills, and problem-solving techniques to identify credit and/or non-credit learning opportunities aligned with their academic and/or professional interests, and plan accordingly.
GUID	250	Guided Studies Seminar	Department of Language & Literature: Guided Studies	GUID	1	Prerequisite	Completion of 30 credits	In this seminar, students identify the skills and knowledge learned in their concentrations, explain connections between their Guided Studies Concentrations and developing educational and/or professional interests, and begin the next steps in their academic and/or career plans.
HIST	100	American Studies Seminar	Department of Social & Behavioral Science: History	HIST	3			Students explore American society and culture through readings and discussion. Methods and concepts from the social sciences, arts, and humanities are synthesized to create a better understanding and deeper appreciation of the nation's past and present.
HIST	101	History of Bucks County	Department of Social & Behavioral Science: History	HIST	3			Students examine the history of Bucks County from colonial times to the present.

HIST	111	History of Western Civ I	Department of Social & Behavioral Science: History	HIST	3			This course is a survey and critical examination of Western human history and explores the social, political, religious, intellectual, and artistic achievements from the earliest human civilizations to the Age of Reason.
HIST	112	History of Western Civ II	Department of Social & Behavioral Science: History	HIST	3			This course is a survey and critical examination of Western human history and explores the social, political, religious, intellectual, and artistic achievements from around the year 1500 to the present.
HIST	113	Global History: Ancient & Medieval World	Department of Social & Behavioral Science: History	HIST	3			This course is a survey and critical examination of global history in which students explore the social, political, religious, economic, intellectual, and artistic achievements of the earliest human societies until roughly 1500 C.E.
HIST	114	Global History: Modern World	Department of Social & Behavioral Science: History	HIST	3			This course is a survey and critical examination of global history in which students explore the social, political, religious, economic, intellectual, and artistic achievements of the major human civilizations from roughly 1500 C.E. to the present.
HIST	139	World War II	Department of Social & Behavioral Science: History	HIST	3			This course is a survey of the Second World War. Major topics include the roots and causes of the war, diplomacy, the major campaigns and battles, and the home-fronts of the major participants.
HIST	146	East Asia	Department of Social & Behavioral Science: History	HIST	3			An interdisciplinary study of the cultures of China, Japan, Korea and neighboring countries. Social, historical, economic, factors will be examined with special attention paid to philosophy, traditional cultures, national unification, modernization and East/West relations.

HIST	149	America: The Cold War Years	Department of Social & Behavioral Science: History	HIST	3			An examination of the post-World War II era featuring diplomatic conflict between the United States and the Soviet Union. When diplomacy broke down, military conflict ensued in such diverse places as Korea, Vietnam, Hungary, and Afghanistan. The course examines the background, causes, and course of this sustained conflict.
HIST	151	U.S. History: Young America	Department of Social & Behavioral Science: History	HIST	3			This course explores U.S. history from European colonization until the end of the Civil War. Students critically examine the social, cultural, economic, and political dynamics of America's agrarian age.
HIST	152	U.S. History: Modern America	Department of Social & Behavioral Science: History	HIST	3			Students explore America's transformation into an industrial and global power since the Reconstruction era. Topics critically examined include: immigration, modernization, struggles for race, class, gender, and sexual equality, nationalism, world war, and broad social, economic, and cultural change.
HIST	155	Russia and Eastern Europe	Department of Social & Behavioral Science: History	HIST	3			This course is a survey of the historical development of the Slavic peoples and nations of Eastern Europe, emphasizing their roots, national consciousness, and cultural outlook. Topics include the modernization of Russia and Eastern Europe through the various phases of revolution, industrialization, East/West relations, and human rights.
HIST	159	The American Civil War	Department of Social & Behavioral Science: History	HIST	3			This course examines the American Civil War, the conflict that defined the United States. Students study the time period stretching from the Compromise of 1850 to the Presidential election of 1876, as well as the various reasons for the war,

								the combat, the eventual outcome, and the Reconstruction Period.
HIST	170	Colonial American History	Department of Social & Behavioral Science: History	HIST	3			This course is a survey of the American experience from the age of discovery to the revolutionary convulsions of the late 18th century. Major topics include European antecedents and the dynamics of America's social, cultural, economic, and political life during these early years.
HIST	172	20th Century America	Department of Social & Behavioral Science: History	HIST	3			This course is a survey of the American experience from pre-World War I to the present. Students explore the dynamics of America's social, cultural, economic, and political life as the United States reaches maturity as a world power.
HIST	175	The Vietnam War	Department of Social & Behavioral Science: History	HIST	3			Students examine American involvement in the Second Indochina War by considering the roots, causes, and consequences of the war. Topics include historical events, France's First Indochina War, the anti-war movement, and the Vietnam veterans' community today.
HIST	178	The American Indian	Department of Social & Behavioral Science: History	HIST	3			A study of the North American Indian, including daily life, social relationships, myths, legends, and their fate at the hands of European settlers in the New World.
HIST	190	African-American History	Department of Social & Behavioral Science: History	HIST	3			This course is a study of the history of African-Americans from their origins in Africa to the present. Students examine the social, political, legal, and economic history of the African-American community. Major topics include the impact of slavery, military service, and the Civil Rights Movement and Black Power Movement.

HIST	191	Principles of Historic Preservation	Department of Social & Behavioral Science: Historic Preservation	HIST	1			This course presents key themes related to historic preservation as a field of cultural heritage. Grassroots organizing to preserve places of historical and cultural importance is examined with an eye to heritage stewardship. Students consider local, state, and federal regulations related to preservation action and what makes old places "historic."
HIST	192	Principles of Historic Building Analysis	Department of Social & Behavioral Science: Historic Preservation	HIST	1			This course is an overview of American architecture. Students explore historic styles within a social and cultural context. Emphasis on identification, description, and building significance explored through representative examples throughout the country. Students identify, describe, and write about significant architecture in context.
HIST	193	Principles of Building Conservation	Department of Social & Behavioral Science: Historic Preservation	HIST	1			This course presents key themes and techniques in the care and treatment of historic properties. Conservation/preservation as a form of intervention is emphasized. Students learn about historic construction materials, natural and man-made forms of deterioration and their remediation, and how to engage sustainable conservation practices in preservation projects.
HIST	194	Historic Preservation: Planning/Sustainability	Department of Social & Behavioral Science: Historic Preservation	HIST	3			Historic Preservation Planning and Sustainability introduces students to the principles, practices, and procedures of land-use planning and public policy associated with historic preservation planning. Sustainable communities and the historic preservation connection are discussed within the context of case studies. Issues include combating sprawl,

								preserving rural landscapes, and managing growth.
HIST	195	Historical Archaeology	Department of Social & Behavioral Science: Historic Preservation	HIST	3			This course introduces students to the study of the physical traces left by people in the past, emphasizing methods of identifying, documenting, excavating, and analyzing historical sites and their artifacts. Students study archaeological sites through an anthropological lens via field, lab, and historical research techniques, including new technologies.
HIST	197	History & Theory of Historic Preservation	Department of Social & Behavioral Science: Historic Preservation	HIST	3			This course surveys the historical antecedents, theoretical foundations, and current issues in historic preservation practice.
HIST	198	History: American Architecture	Department of Social & Behavioral Science: Historic Preservation	HIST	3			This course surveys four centuries of American architecture. The work of architects and the evolution of architectural styles are examined as a reflection of broader historical trends. Through observation, description, and analysis, students build their visual literacy skills and architectural vocabulary to recognize and interpret a building's historic character.
HIST	199	Historic Property Research and Documentation	Department of Social & Behavioral Science: Historic Preservation	HIST	3			The methodology of documenting historic sites is studied and applied to local buildings and structures. Students utilize primary and secondary archival sources and on-site structural analysis to synthesize a property history, place it in historic context, and argue for its significance.

HIST	201	Building Conservation	Department of Social & Behavioral Science: Historic Preservation	HIST	3			The course teaches students to see buildings as ever-decaying artifacts in need of vigilant care. Students learn how to steward historic buildings, with special attention paid to period building materials, construction techniques, mechanisms of deterioration and remediation, the building's relationship to its site, and appropriate standards for intervention.
HIST	202	Historic Preservation: Law, Tax, Zone	Department of Social & Behavioral Science: Historic Preservation	HIST	3			Federal, state, and local laws are studied as they relate to the preservation of historic structures. Special attention is given to the role of historic architecture review boards, as well as planning commissions in the decision-making process.
HIST	203	Internship for Historic Preservation	Department of Social & Behavioral Science: Historic Preservation	HIST	3	Prerequisite	Complete 18 credits in Historic Preservation (C or better)	The Internship for Historic Preservation provides students with practical training in the field. Students apply historic preservation skills to a selected preservation project. Students work directly under the supervision of a Historic Preservation Professional to develop the project plan and execution.
HIST	204	Oral History	Department of Social & Behavioral Science: Historic Preservation	HIST	3			This course combines the theory and practice of oral history with extensive field work. Students examine the legal and practical issues of recording oral histories as they apply to a public project. Students interview, record, transcribe, formally present, and assemble the material into an accepted archival format.
HIST	205	Principles of Restoration and Rehabilitation	Department of Social & Behavioral Science:	HIST	1			This course frames the restoration and rehabilitation of buildings within the context of architectural conservation. Building techniques are stressed.

			Historic Preservation					
HIST	206	Restoration Workshop	Department of Social & Behavioral Science: Historic Preservation	HIST	2			The course is a hands-on approach to the conservation and preservation of buildings. Advanced building techniques are stressed.
HIST	207	Documentation Workshop	Department of Social & Behavioral Science: Historic Preservation	HIST	2			This course offers students a hands-on experience in the survey, documentation, and/or recording of historical resources.
HIST	208	History, Society and Architecture in the Delaware Valley	Department of Social & Behavioral Science: Historic Preservation	HIST	3			This course will explore the history of Bucks County and neighboring areas, with special reference to settlement patterns of various ethnic groups and their influence on the landscape, building traditions, and material culture.
HIST	210	Topics in Historic Preservation	Department of Social & Behavioral Science: Historic Preservation	HIST	3			This course introduces students to various emerging issues in historic preservation. Topics vary by semester and include developing areas of historic preservation and/or areas of historic preservation which are subject to frequent reinterpretation.
HIST	214	Preservation Site Project	Department of Social & Behavioral Science: Historic Preservation	HIST	3	Prerequisite	HIST201 (C or better) or permission of the Department of Social & Behavioral Science	Melding classroom knowledge and skills with real-world experience, students apply preservation concepts to a specific historic resource or cultural landscape. Utilizing a life-cycle approach to a given project, students learn to think holistically about the preservation process and the factors impacting a project's execution prior to conducting the work.

HIST	217	Principles of Historic Gardens	Department of Social & Behavioral Science: Historic Preservation	HIST	1			An overview of formal gardens and other historic designed landscapes as part of the built environment. Special emphasis is placed on the development of formal gardens in the first half of the twentieth century and the ways in which they reflect cultural ideas about nature.
HIST	219	Management of Historic Sites	Department of Social & Behavioral Science: Historic Preservation	HIST	3			Using case studies, students study the principles, methods, and disciplines required to manage a small museum or historic site, with special emphasis on personnel, financial and collections management, exhibit development and interpretation, fundraising, marketing, customer service, governance, ethics, and professional standards.
HIST	222	Archaeology Topics	Department of Social & Behavioral Science: Historic Preservation	HIST	1			Student will study how archaeologists conduct digs in the Delaware Valley region. Special emphasis will be placed on actual excavations in New Jersey and Pennsylvania.
HIST	239	American Pop Culture: History of Rock	Department of Social & Behavioral Science: History	HIST	3			This course focuses on American popular culture through the lens of rock-n-roll music, including rock's roots, influences, and impact on popular culture. Students experience the subtleties, power, and excitement of the music.
HIST	246	Advanced Techniques in Conservation	Department of Social & Behavioral Science: Historic Preservation	HIST	3	Prerequisite	HIST201 (C or better) or permission of the Department of Social & Behavioral Science.	Students acquire hands-on practice of advanced techniques in conservation and/or rehabilitation of historic properties.

HIST	290	History Seminar	Department of Social & Behavioral Science: History	HIST	3	Prerequisite	COMP111 (C or better) and 12 credits in HIST	In this capstone course students analyze issues and topics in American, Western and/or World history through a heavy focus on historical research, writing, presentation, and defense. Consequently, major topics include the techniques and methodologies of cultural, economic, political, and social history.
HIST	114H	Global History: Modern World – Honors section	Department of Social & Behavioral Science: History	HIST	3	Prerequisite	Admission to the Honors@Bucks program	This course is a survey and critical examination of global history in which students explore the social, political, religious, economic, intellectual, and artistic achievements of the major human civilizations from roughly 1500 C.E. to the present.
HIST	151H	U.S. History: Young America – Honors section	Department of Social & Behavioral Science: History	HIST	3	Prerequisite	Admission to the Honors@Bucks program	This course explores U.S. history from European colonization until the end of the Civil War. Students critically examine the social, cultural, economic, and political dynamics of America's agrarian age.
HIST	152H	US History: Modern America – Honors section	Department of Social & Behavioral Science: History	HIST	3	Prerequisite	Permission of Honors coordinator	Students explore America's transformation into an industrial and global power since the Reconstruction era. Topics critically examined include: immigration, modernization, struggles for race, class, gender, and sexual equality, nationalism, world war, and broad social, economic, and cultural change.
HITT	105	Legal Aspects of Health Information Technology	Department of Health Sciences: Health Information Technology	HITT	3			This course covers concepts and principles of law found in the healthcare field. The course focuses on legal issues regarding health information, including confidentiality, release of health information, consent forms, liability of healthcare providers, concepts and methods of risk management in the healthcare field, and other current medical/legal issues.

HITT	190	Introduction to Health Information	Department of Health Sciences: Health Information Technology	HITT	3			This course is an introduction to healthcare delivery systems with emphasis on organizational compliance, structure and accreditation, licensing and/or certification with regulatory agencies. This course covers revenue cycle management, claims management and bill reconciliation processes. Topics include chargemaster maintenance and health data classification.
HITT	207	Health Information Technical Applications	Department of Health Sciences: Health Information Technology	HITT	3			This course covers the concepts of computer applications related to healthcare. This course discusses healthcare data sets, health information specialty systems, document archival, retrieval and imaging systems, and data storage systems. Students demonstrate an understanding of various health information software applications coding tasks.
HITT	208	Healthcare Quality Improvement	Department of Health Sciences: Health Information Technology	HITT	3	Prerequisite	HITT190 (C or better)	This course covers quality assessment and improvement, providing a basis for developing skills in collecting and analyzing data. Topics include healthcare evaluation systems and the role of HIT professionals in quality improvement, clinical pathways, case management, utilization management, risk management, infection control, and medical staff credentialing.
HITT	217	Health Insurance and Reimbursement	Department of Health Sciences: Health Information Technology	HITT	3	Prerequisite	HITT190 (C or better)	This course covers health insurance products and managed care approaches to the financing and delivery of healthcare services. Students explore reimbursement and payment methodologies. Students examine forms, processes, practices and the roles of health information professionals. Students discuss concepts

								in insurance, third-party and prospective payments, and managed care organizations.
HITT	250	Basic Pathophysiology and Pharmacology for Health Information Technology	Department of Health Sciences: Health Information Technology	HITT	3	Prerequisite	MEDA120 (C or better) and BIOL181 (C or better)	This course is the study of pathological conditions and the drugs used in their treatment. Students study the description of conditions and diseases of the organ systems including etiology, signs and symptoms, and methods of diagnosis and treatment. Students identify disease entities and describe appropriate diagnostic and treatment modalities.
HITT	280	Health Information Technology Externship	Department of Health Sciences: Health Information Technology	HITT	3	Prerequisite	Completion of all other HITT courses in the program with a grade of C or better and permission of the Department of Health Sciences	This course prepares students to work in various health care settings, performing assigned health information duties. The work experience is supported by knowledge and skills gained in pre-requisite courses, site liaison feedback, and externship instructor site visits.
HITT	285	Medical Coding/Billing Externship	Department of Health Sciences: Health Information Technology	HITT	3	Prerequisite	Completion of all courses in the Medical Coding/Billing Certificate program with a C or better and permission of the Department of Health Sciences	Medical Coding/Billing Certificate students will apply coding/billing principles in a health care provider setting. Students will gain 120 hours of experience in International Classification of Diseases Coding Modifiers (current ICD curriculum) and Current Procedural Terminology (CPT) coding systems and related activities.
HITT	297	Medical Coding	Department of Health Sciences: Health Information Technology	HITT	3	Prerequisite/ Corequisite	MEDA120 or BIOL115	This course covers principles of the International Classification of Diseases Coding Modifiers, Current Procedural Terminology (CPT), and third-party reimbursement. Students are provided with the fundamentals of a classification coding system used in health care industries.

HITT	298	Advanced Procedural Coding	Department of Health Sciences: Health Information Technology	HITT	3	Prerequisite	HITT297 (C or better)	This advanced course covers Current Procedural Terminology (CPT), International Classification of Diseases (current ICD curriculum), Health Care Procedural Coding Systems (HCPCS), modifier applications, evaluation and management services, and coding issues for specific body systems.
HITT	299	Advanced Diagnostic Coding	Department of Health Sciences: Health Information Technology	HITT	3	Prerequisite	HITT297 (C or better)	This advanced course covers Current Procedural Terminology (CPT), International Classification of Diseases (current ICD curriculum), Health Care Procedural Coding Systems (HCPCS), modifier applications, evaluation and management services, and coding issues for specific body systems.
HLTH	103	Life and Health	Department of Kinesiology and Sport Studies: Health	HLTH	3			This course is an introduction to perplexing personal and social health problems in contemporary society, providing opinions, data, and facts that help the student investigate these problems. A synthesis of knowledge is presented from a variety of disciplines, such as medicine, psychology, physiology, sociology, sexology, and child development.
HLTH	110	Responding to Emergencies	Department of Kinesiology and Sport Studies: Health	HLTH	3	Prerequisite	Red Cross certification fee: \$19.00	This course teaches the principles and applications of first aid and safety so that the student can correctly respond to medical emergencies. Successful completion satisfies the certification requirements for Responding to Emergencies and CPR courses of the American Red Cross.

HLTH	120	Nutrition	Department of Kinesiology and Sport Studies: Health	HLTH	3	Prerequisite	Reading Placement of '3' or READ110 (C or better) or COMP108 (C or better) or Reading Placement of '2' with paired READ110	This course is an introduction to nutrition as a health science examining nutrients essential to human life. The metabolic action, requirements, and nutrient food sources are studied along with application of entrepreneurial skills. Needs and behavior patterns in humans are used to illustrate the relationship between diet and health.
HLTH	120C	Nutrition with a Certified Health Coach	Department of Kinesiology and Sport Studies: Health	HLTH	3	Prerequisite	Reading Placement Test score Level 3 or higher or READ110 (C or better) or Reading Placement Test score Level 2 and enrollment in a paired section of READ110	This course is an introduction to nutrition as a health science examining nutrients essential to human life. The metabolic action, requirements, and nutrient food sources are studied along with application of entrepreneurial skills. Needs and behavior patterns in humans are used to illustrate the relationship between diet and health.
HLTH	121	Applied Nutrition	Department of Kinesiology and Sport Studies: Health	HLTH	3	Prerequisite	HLTH120 (C or better) or HLTH120N (C or better)	Students learn practical approaches to successful behavior modification strategies along with an advanced look at drug-nutrient interactions, metabolic functions, needs of the human body, and the basics of diet therapy as it relates to disease prevention and management.
HLTH	130	Principles and Applications of Diet and Fitness	Department of Kinesiology and Sport Studies: Health	HLTH	3			In this health science course, students study variables related to a longer and healthier life. Students learn basic exercise physiology, nutrition, and weight control. They study the beneficial effects of regular exercise and nutritious diets, maintaining a healthy weight, and prevention of life-style diseases.

HLTH	140	CPR	Department of Kinesiology and Sport Studies: Health	HLTH	1			An investigation of the knowledge and skills of cardiopulmonary resuscitation. The course emphasizes the principles and skill application of basic life support, external cardiac compression, and the emergency medical systems. Successful completion satisfies the certification requirements of the American Red Cross and the American Heart Association.
HLTH	200	Introduction to Women's Health Issues	Department of Kinesiology and Sport Studies: Health	HLTH	3			This course is an introduction to the personal and social concerns of women's past and present health trends. Emphasis will be placed on the historical perspective of women's health, including an exploration of psychological, physiological, and social barriers to women's health. The holistic model of wellness will be examined.
HLTH	250	Introduction to Health Coaching	Department of Kinesiology and Sport Studies: Health	HLTH	3	Prerequisite	HLTH120 (C or better) or HLTH120N (C or better)	This course is an introduction to health coaching and is designed to prepare students to be employed as a health coach within the field. Topics covered include scope of practice, code of ethics, skills to facilitate client behavior change, basics of wellness visions, and the design of effective coaching programs.
HLTH	251	Applied Health Coaching	Department of Kinesiology and Sport Studies: Health	HLTH	2	Prerequisite	HLTH250 (C or better)	This course is an application of health coaching principles that prepares students to be employed as a health coach within the field. Topics covered include tools to facilitating effective coaching sessions, strategies for enhancing client progress, and the overall implementation of effective health coaching programs.

HLTH	103H	Life and Health – Honors section	Department of Kinesiology and Sport Studies: Health	HLTH	3	Honors	Admission to the Honors@Bucks program	Honors @ Bucks challenges high-ability, intellectually curious students through intensive coursework emphasizing scholarly research, high-order critical thinking, and experiential learning. This course is an introduction to perplexing personal and social health problems in contemporary society, providing opinions, data, and facts that help the student investigate these problems. A synthesis of knowledge is presented from a variety of disciplines, such as medicine, psychology, physiology, sociology, sexology, and child development.
HLTH	120N	Nutrition (by Reg'd Dietitian)	Department of Kinesiology and Sport Studies: Health	HLTH	3	Prerequisite	Reading Placement of '3' or READ110 (C or better) or COMP108 (C or better) or Reading Placement of '2' and paired READ110	This course is an introduction to nutrition as a health science examining nutrients essential to human life. The metabolic action, requirements, and nutrient food sources are studied along with application of entrepreneurial skills. Needs and behavior patterns in humans are used to illustrate the relationship between diet and health.
HLTH	120NH	Nutrition with a Registered Dietician (Honors section)	Department of Kinesiology and Sport Studies: Health	HLTH	3	Prerequisite	Admission to the Honors@Bucks program	Honors @ Bucks challenges high-ability, intellectually curious students through intensive coursework emphasizing scholarly research, high-order critical thinking, and experiential learning. This course is an introduction to nutrition as a health science that examines the nutrients essential to human life. The metabolic action, requirements, and food sources of the nutrients are studied. Needs and behavior patterns in children and adults are used to illustrate the relationship between diet and health.

HOSP	100	Introduction to Hospitality Management	Department of Business and Innovation: Hospitality and Tourism Management	HOSP	3			This course provides an overview of the tourism and hospitality industry. Students learn how technological changes and financing affect the industry. Other topics include trends, planning, design, location, and procedures, materials, equipment and supplies.
HOSP	106	Safety and Sanitation	Department of Business and Innovation: Hospitality and Tourism Management	HOSP	2			This course provides an overview of the emerging issues in governmental standards of food safety and sanitation. Specific topics include microorganisms, employee training, equipment purchasing, integrated pest management, cleaning and sanitizing, and other related subjects. Students prepare for and can earn ServSafe Food Protection Manager and ServSafe Allergens certifications.
HOSP	110	Hospitality Financial Management	Department of Business and Innovation: Hospitality and Tourism Management	HOSP	3	Prerequisite	HOSP100 (C or better) or permission of the Department of Business + Innovation	In this course, students examine the Uniform System of Accounts for Hotels and Restaurants. Other topics include special journals, transactions, monthly and annual reports, and accounting.
HOSP	111	Conference and Meeting Planning	Department of Business and Innovation: Hospitality and Tourism Management	HOSP	3			This course is designed to develop skills necessary to plan and organize traditional and technological conferences, meetings, conventions, trade shows and expositions. The student will learn to systemize and assemble reservations for lodging, air and ground transportation, food and beverages, site selection, room design, and conference and meeting materials.

HOSP	200	Hotel and Lodging Operations Management	Department of Business and Innovation: Hospitality and Tourism Management	HOSP	3	Prerequisite	HOSP 100 (C or better) or permission of the Department of Business + Innovation	In this course, students examine the responsibilities of front office staff in the hotel/tourism industries. Specific topics include public relations, sales promotions, cash control procedures, night audit and accounting techniques, checking guests in and out, handling mail and other guest information, and emergency procedures.
HOSP	210	Hospitality Internship	Department of Business and Innovation: Hospitality and Tourism Management	HOSP	3	Prerequisite	HOSP100 (C or better) or permission of the Department of Business + Innovation	In this course, students engage in on-the-job training in supervised internships in hotels, motels, and restaurants. Industry principals and the Program Coordinator interview candidates to assist in their placement and provide follow-up assessment.
HSCI	130	Introduction to Patient Care	Department of Health Sciences: Patient Care	HSCI	4	Prerequisite	WHPAH0336, Nurse Aide Training Certification	This course provides a study of the role of an unlicensed Patient Care Technician in acute care settings and the skills needed to perform this role. Topics include safety; patient assessment; blood and specimen collection; surgery and immobility; and patient care and comfort.
HSCI	200	Electrocardiography Interpretation	Department of Health Sciences: Patient Care	HSCI	4	Prerequisite	BIOL115 (C or better), or BIOL181 (C or better) and BIOL182 (C or better)	The Electrocardiography Interpretation course includes the electrocardiogram (EKG) principles and procedures in the health care setting. Topics include the structure and function of the heart with emphasis on the conduction system, proper lead placement, and interpretation of rhythm strips.
HUMN	111	Ancient World: Culture and Ideas	Department of Social & Behavioral Science: Humanities	HUMN	3			This course is a historical survey of the art, literature, music, philosophy, technology, science, and religion of ancient cultures (25,000 B.C.E. - 300 C.E.) Students explore the major themes at the heart of the Western cultural tradition.

HUMN	112	Medieval and Renaissance Worlds: Culture and Ideas	Department of Social & Behavioral Science: Humanities	HUMN	3			This course is a historical survey of the art, literature, music, philosophy, technology, science, and religion of human civilizations from the dissolution of the Roman Empire to the Late Renaissance (300-1550 C.E.). Students explore the major themes and ideas at the heart of the Western cultural tradition.
HUMN	113	Early Modern World: Culture and Ideas	Department of Social & Behavioral Science: Humanities	HUMN	3			This course is a historical survey of the art, literature, music, philosophy, science, technology, and religion of the Western world in a global context from the Late Renaissance to the Modern Era (1550-1880s C.E.). Students explore the major themes and ideas of the Western cultural and intellectual tradition in a global context.
HUMN	114	Modern World and Beyond: Culture and Ide	Department of Social & Behavioral Science: Humanities	HUMN	3			This course is a historical survey of the art, literature, music, philosophy, science, technology, and religion of the Western World in a global context from the Age of Nationalism (1880 C.E.) to the present. Students explore the major themes and ideas at the heart of the Western cultural tradition.
HUMN	120	Survey: World Religions	Department of Social & Behavioral Science: Humanities	HUMN	3			This course is a study of the historical development of world religion from pre-civilization to the development of the major religions of India (Hinduism, Jainism, Buddhism, and Sikhism), the Far East (Taoism, Confucianism, and Shintoism), and the Near East (Zoroastrianism, Judaism, Christianity, and Islam).

HUMN	121	Christianity	Department of Social & Behavioral Science: Humanities	HUMN	3	Prerequisite	HUMN120 (C or better) or permission of the Department of Social and Behavioral Science	This course is a survey of Christianity from its origins to the present stressing its history, teachings, and institutions. Major topics include the Life of Jesus, Early Church, Catholicism, Protestant Reformation, the Church in the Modern Age, and the overall political and intellectual influence of Christianity on human history.
HUMN	122	Buddhism: An Introduction	Department of Social & Behavioral Science: Humanities	HUMN	3			This course explores the history and ideas of Buddhism. Students explore the religion's varieties, basic abstract concepts, and patterns of spread.
HUMN	125	Religion in America	Department of Social & Behavioral Science: Humanities	HUMN	3			This course is a survey of the contemporary American religious life. Major topics include the major world religions, as well as the rise of noted cults with special emphasis upon their origins, practices, and consequent reactions and repercussions. Students also explore the broad historical trends and phenomena in American religious life.
HUMN	126	Science and Religion	Department of Social & Behavioral Science: Humanities	HUMN	3			Students examine the relationship between religion and science in western and non-western cultures and the extent to which they either conflict or cooperate. Areas of focus include science and religion in ancient Greece and China, medieval Arabia, modern Europe, and contemporary America.
HUMN	128	Holy War, Holy Peace in Islam, Judaism and Christianity	Department of Social & Behavioral Science: Humanities	HUMN	3			This course examines the origins and relationships among the world's three major religions Christianity, Islam, and Judaism. Topics of emphasis include how the three religions influence one another and how they historically relate to each

								other in times of war and in times of peace.
HUMN	129	Eastern Religions	Department of Social & Behavioral Science: Humanities	HUMN	3			Students examine the religions of the East, including Hinduism, Buddhism, Confucianism, Taoism, Shintoism, and Shamanism. Areas of focus include historical development, cultural background, and institutional development.
INDP	290	Independent Study	Department of Business and Innovation: Independent Study	INDP	1	Prerequisite	Approved INDP proposal form from offering department	
ITAL	110	Elementary Italian I	Department of Language & Literature: Italian	ITAL	3			In this course students learn the basics of understanding, speaking, reading, and writing Italian. It stresses oral proficiency, correct pronunciation, listening comprehension, and grammatical accuracy, as well as the cultural and historical backgrounds of the Italian-speaking countries.
ITAL	111	Elementary Italian II	Department of Language & Literature: Italian	ITAL	3	Prerequisite	ITAL110 (C or better) or permission of the Department of Language and Literature	In this interactive course students continue the work of ITAL111; students acquire a further working knowledge of Italian necessary to accomplish basic tasks. It continues to emphasize comprehension and more practice in pronunciation and conversation and addresses listening, speaking, reading, and writing skills within an authentic Italian cultural context.
ITAL	201	Intermediate Italian I	Department of Language & Literature: Italian	ITAL	3	Prerequisite	ITAL111 (C or better) or permission of the Department of Language and Literature	In this course students study vocabulary, grammar, and idiomatic constructions; and continue to hone speaking, listening and writing skills. Students write compositions using new and more

								complex language structures and read culture-related materials.
ITAL	202	Intermediate Italian II	Department of Language & Literature: Italian	ITAL	3	Prerequisite	ITAL201 (C or better) or permission of the Department of Language and Literature	This course combines review with new and more complex language usage than were studied in ITAL201. It continues to emphasize intermediate-level speaking, listening comprehension, idiomatic usage, and practice in writing. An Italian cultural reader focuses on Italian history and culture.
ITAL	250	Advanced Italian I	Department of Language & Literature: Italian	ITAL	3	Prerequisite	ITAL202 (C or better) or permission of the Department of Language and Literature	This course emphasizes developing greater proficiency in understanding, speaking, reading, and writing Italian through study of more complex language structure, discussion of current Italian media, reading more difficult literary texts, and deeper study of the culture and history of Italy.
ITAL	251	Advanced Italian II	Department of Language & Literature: Italian	ITAL	3	Prerequisite	ITAL250 (C or better) or permission of the Department of Language and Literature	This course builds on the instruction from ITAL250. Students continue to develop greater proficiency in understanding, speaking, reading and writing Italian through study of more complex language structure, discussion of current Italian media, reading more difficult literary texts, and deeper study of the culture and history of Italy.
JOUR	155	Advertising Copywriting	Department of Language & Literature: Journalism	JOUR	3			An introduction to the theory and practice of creating and writing advertising messages for products and services. Exercises for developing persuasive ads for magazines, newspapers, radio, and television. Exploration of ad agency creative functions and structure. Discussions, group work, films, videos, lectures. No prior advertising experience needed.

JOUR	175	News Reporting and Writing	Department of Language & Literature: Journalism	JOUR	3	Prerequisite	Writing placement test score of 6 or COMP107 (C or better)	This intensive workshop course stresses news reporting and writing techniques important in both print and online news. Coverage of news events on and off-campus is supplemented by in-class deadline writing exercises. Students learn to check facts using the internet, and to promote their work using social media.
JOUR	275	Newspaper Editing and Page Layout	Department of Language & Literature: Journalism	JOUR	3	Prerequisite	JOUR175 or permission of the department	This course provides extensive training in the editing and preparation of newspaper copy, and the writing of headlines and page layout using computerized layout software. It covers local and wire copy, assembling and shaping the various elements of a news story, the requirements of newspaper style, and safeguards against errors.
JOUR	276	Feature Writing for Print and Online Media	Department of Language & Literature: Journalism	JOUR	3	Prerequisite	JOUR 175 (C or better)	This workshop course focuses on the reporting and writing of feature articles for print and online media, with attention to the ethics of freelancing. Coverage of news events on and off-campus is supplemented by in-class deadline writing exercises. Students use social media to promote their work.
JOUR	277	Public Affairs Reporting	Department of Language & Literature: Journalism	JOUR	3	Prerequisite	JOUR175 (C or better)	This course is an introduction to public affairs reporting, including coverage of local government, public schools, courts, crime, and social services. Students cover town government and school board meetings, trials, and the police beat. Emphasis is on students producing stories suitable for publication in the College newspaper or local media.

JOUR	278	Webcast News Production	Department of Language & Literature: Journalism	JOUR	3	Prerequisite	JOUR175 (C or better)	This workshop course stresses the production of a video news webcast. Students conduct interviews, write scripts, shoot and edit digital video, and help produce a news webcast that can be shown online. Students learn to use digital videos cameras and editing software.
JOUR	280	Cooperative Education: Journalism	Department of Language & Literature: Journalism	JOUR	3	Prerequisite	Permission of the Department of Language and Literature	On-the-job experience and observations in a field directly related to the student's academic preparation and career objectives. Periodic meetings between the faculty coordinator and the student are held to review actual experience and observation in light of the theory and skills learned academically.
JPNS	101	Elementary Japanese I	Department of Language & Literature: Japanese	JPNS	3			In this course students learn the basics of listening, speaking, understanding, reading, and writing using the Hiragana and Katakana writing system, and also study basic communication. The course includes knowledge and appreciation Japanese historical and cultural backgrounds.
JPNS	102	Elementary Japanese II	Department of Language & Literature: Japanese	JPNS	3	Prerequisite	JPNS101 (C or better) or permission of the Department of Language and Literature	In this continuation of study from JPNS101, students further develop the basics of listening, speaking, understanding, reading, and writing using the Hiragana and Katakana writing system, and study basic communication. The course continues to present Japanese historical and cultural background.

JPNS	201	Intermediate Japanese I	Department of Language & Literature: Japanese	JPNS	3	Prerequisite	JPNS102 (C or better) or permission of the Department of Language and Literature	Students are introduced to the reading and writing of Kanji, one of three writing systems of the Japanese language, plus sixty-five Kanji fundamental to recognizing and constructing written Japanese. Students engage in extensive practice building vocabulary and sharpening conversational and grammatical skills. Japanese culture and thought processes will be addressed.
JPNS	202	Intermediate Japanese II	Department of Language & Literature: Japanese	JPNS	3	Prerequisite	JPNS201 (C or better) or permission of the Department of Language and Literature	This course is a continuation of JPNS201. Students further develop more comprehensive listening, speaking, reading, and writing skills, with emphasis on more complex Kanji (Chinese characters), balancing, fluency and complexity. A deeper understanding of historical and cultural background is included.
KINS	106	Art of Personal Defense	Department of Kinesiology and Sport Studies: Kinesiology	KINS	2			This is an introductory course in the theory and techniques of self-defense. The content focuses on recognition and avoidance of dangerous situations, techniques of eliminating dangers, and the physical skills and strategies of personal defense. Basic concepts and principles of nutritional and physiological fitness are included in the course.
KINS	110	Tennis	Department of Kinesiology and Sport Studies: Kinesiology	KINS	2			This course is designed to enable any student to learn the leisure time sport of tennis and to enhance and enrich his leisure time. This course will also help the student improve his organic, social, and mental wellness.

KINS	116	Competitive Activity	Department of Kinesiology and Sport Studies: Kinesiology	KINS	2			This course is designed to provide the student with opportunities to participate in a variety of leisure sports and games. Activities are carefully selected to enrich the student's leisure time. Concepts of exercise physiology and proper nutrition are introduced.
KINS	120	Horsemanship	Department of Kinesiology and Sport Studies: Kinesiology	KINS	2			This course is for beginners or non-riders of Hunt Seat Equitation. The basic fundamentals of English riding techniques are taught. The course includes ring riding, trail riding, horsemanship, theory of horses, tack, and stable care. Basic principles of exercise physiology and nutrition will be presented as they apply to the individual rider.
KINS	124	Badminton & Volleyball	Department of Kinesiology and Sport Studies: Kinesiology	KINS	2			This course provides students with the opportunity to participate in badminton and volleyball as leisure time pursuits. Instructions will emphasize skill fundamentals, strategy, and rules. It will also include basic principles of exercise physiology and nutrition as they pertain to an individual engaged in this lifetime sport.
KINS	126	Modern Dance	Department of Kinesiology and Sport Studies: Kinesiology	KINS	2			This is an introductory course in creative dance that includes dance fundamentals of technique, improvisation, and choreography. Basic dance movements will be used to develop an understanding of body language and an articulation between movement and creativity. Basic concepts of exercise physiology and nutrition are presented.

KINS	129	Tai Chi Chuan	Department of Kinesiology and Sport Studies: Kinesiology	KINS	2			Tai chi chuan is an introductory Chinese Martial Art course that is performed slowly, in a relaxed fashion with fluid graceful motions. It is based on traditional Chinese philosophies and is useful for body and mind. It increases balance, range of motion, and helps to relieve stress. Basic concepts and principles of nutritional and physiological fitness are included in the course.
KINS	130	Yoga	Department of Kinesiology and Sport Studies: Kinesiology	KINS	2			This course is designed to introduce the student to the fundamental philosophies, skills, techniques, and terms of Hatha Yoga. Emphasis is placed on how to correctly practice yoga and how to incorporate it into one's daily habits. This course will also teach valid concepts of nutrition and exercise physiology.
KINS	133	Archery	Department of Kinesiology and Sport Studies: Kinesiology	KINS	2			This course is designed to give the student a fundamental background in the skills, techniques, and rule interpretation of archery. Students will learn proper care of equipment, safety, and rules for tournament play. Basic principles of physiology of exercise and proper nutrition will be presented.
KINS	134	Aerobics	Department of Kinesiology and Sport Studies: Kinesiology	KINS	2			This course is designed to enable any student to plan and progressively develop a personalized fitness program based on participation in a regular system of aerobic dance and other aerobic exercise. Basic concepts of exercise physiology and nutrition will be presented.

KINS	135	Walk-Jog-Run	Department of Kinesiology and Sport Studies: Kinesiology	KINS	2			This course is designed to give the student an opportunity to improve his/her fitness through the activity of walking or jogging. The emphasis will be on the walking aspect of fitness. Basic concepts of exercise physiology and proper nutrition will be presented.
KINS	141	Golf	Department of Kinesiology and Sport Studies: Kinesiology	KINS	2			This course is designed to teach the student the skills, techniques, and rule interpretation of golf as a leisure time activity. Principles of physiology of exercise, proper nutrition, care of equipment, safety, and etiquette will be presented.
KINS	145	Bowling & Golf	Department of Kinesiology and Sport Studies: Kinesiology	KINS	2			This course is designed to give the student a fundamental background in the skills, techniques, and rule interpretation of golf and bowling. Students will learn proper care of equipment, safety, and rules for tournament play. Basic principles of physiology of exercise and proper nutrition will be presented.
KINS	150	Beginning Aquatics	Department of Kinesiology and Sport Studies: Kinesiology	KINS	2			This course is for non-swimmers and students with limited swimming ability. Special attention is given to basic swimming skills and water safety. This course is recommended for students who plan to transfer to colleges requiring aquatics for graduation. Basic concepts of exercise physiology and nutrition are presented.
KINS	154	Swim for Fitness	Department of Kinesiology and Sport Studies: Kinesiology	KINS	2			This course is designed to improve cardiovascular capacity and personal wellness through an individual program of aquatic training. Basic concepts of exercise and nutrition are presented.

KINS	155	Lifeguarding	Department of Kinesiology and Sport Studies: Kinesiology	KINS	2	Prerequisite	Ability to swim 500 yards; 15+ years of age	This course satisfies the transfer requirements for Physical Education majors. It is designed to meet all American Red Cross requirements. Students will receive certifications in lifeguarding, first aid, CPR and AED. Basic concepts of exercise physiology, nutrition and stroke teaching will be presented.
KINS	156	Water Safety Instructor	Department of Kinesiology and Sport Studies: Kinesiology	KINS	2			This course is designed to teach students swim strokes and water safety techniques for American Red Cross certification in specific water safety courses. Included are specific concepts of planning, organizing, and teaching techniques. Lifetime health benefits related to proper nutrition and exercise physiology are examined.
KINS	170	Individual Fitness & Wellness	Department of Kinesiology and Sport Studies: Kinesiology	KINS	2			This course is designed to guide the student to develop a personal fitness program utilizing concepts of muscle physiology and nutrition. Each student will be evaluated, and an individual exercise and nutrition program will be recommended.
KINS	172	Gymnastics	Department of Kinesiology and Sport Studies: Kinesiology	KINS	2			This course satisfies requirements for physical education majors. Content includes an introduction to elementary tumbling and apparatus skills. It requires performance of specific skills, compulsory routines, and safe-class participation. Lifetime health benefits related to proper nutrition and exercise physiology are examined.

KINS	175	Dance: Square & Folk	Department of Kinesiology and Sport Studies: Kinesiology	KINS	2			This course satisfies the transfer requirements for Physical Education majors. Students are taught and practice square and folk dances. The course also teaches proper etiquette and appreciation of dance. Lifetime health benefits related to proper nutrition and exercise physiology are examined.
KINS	176	Basketball & Softball	Department of Kinesiology and Sport Studies: Kinesiology	KINS	2			This course satisfies the transfer requirements for Physical Education majors. Fundamental skills and strategies of basketball and softball are introduced with emphasis on learning, teaching, playing, and coaching using current national and state rules. Lifetime health benefits related to proper nutrition and exercise physiology are examined.
KINS	178	Basketball & Baseball	Department of Kinesiology and Sport Studies: Kinesiology	KINS	2			This course satisfies the transfer requirements for Physical Education majors. Fundamental skills and basic strategies of basketball and baseball are introduced according to Men's rules. Instructional drills and progressions on various skill levels are emphasized. Lifetime health benefits related to proper nutrition and exercise physiology are examined.
KINS	179	Field Hockey & Soccer	Department of Kinesiology and Sport Studies: Kinesiology	KINS	2			This course satisfies the transfer requirements for Physical Education majors. It teaches rules and strategy needed to play, officiate, teach and coach field hockey and soccer along with proper selection and care of equipment. Lifetime health benefits related to proper nutrition and exercise physiology are examined.

KINS	180	Foundations of Physical Education and Exercise Science	Department of Kinesiology and Sport Studies: Kinesiology	KINS	3			This course gives the prospective teacher of Health, Physical Education and Recreation insight into this area, including the historical, philosophical, and sociological principles with a survey of the latest research and literature in the field. Lifetime health benefits related to proper nutrition and exercise physiology are examined.
KINS	183	Physical Education: Early Childhood	Department of Kinesiology and Sport Studies: Kinesiology	KINS	3	Prerequisite	KINS180 and 1 of the following: KINS116, KINS145, KINS179, KINS175, KINS-176, KINS-170, KINS-178, KINS-188, or KINS-189	A study and application of the theories of movement, games, self-testing, and challenge activities suitable for young children. The growth patterns, developmental needs, interests, and related movement activities of elementary school children are examined. Field experience is included. Lifetime health benefits related to proper nutrition and exercise physiology are examined.
KINS	188	Net Games	Department of Kinesiology and Sport Studies: Kinesiology	KINS	2			This course satisfies the transfer requirements for Physical Education majors. Students are given instruction and practice fundamentals, drills, court strategy, doubles play, and conditioning for many net sports. They are taught about rules and equipment. Lifetime health benefits related to proper nutrition and exercise physiology are examined.
KINS	189	Bowling & Volley	Department of Kinesiology and Sport Studies: Kinesiology	KINS	2			This course satisfies the transfer requirements for Physical Education majors. Content includes the history, etiquette, rules, terminology, and safe performance of bowling and volleyball. Teaching, practice, and team play experience is provided. Lifetime health benefits related to proper nutrition and exercise physiology are examined.

KINS	190	Recreational Leadership	Department of Kinesiology and Sport Studies: Kinesiology	KINS	3			This course is a comprehensive survey of recreational activities and facilities. Various agencies that govern and administer recreation programs will be studied, as well. This course will examine the trends and philosophies of education for leisure, outdoor recreation programs, and camping. A two-day overnight camping experience is required.
KINS	191	Outdoor Recreation	Department of Kinesiology and Sport Studies: Kinesiology	KINS	3			This course teaches outdoor recreation activities, such as biking, cross-country skiing, orienteering, backpacking hiking, rock climbing, and repelling. Instruction includes classroom seminars, supervised outdoor practices, and field trips. Lifetime health benefits related to proper nutrition and exercise physiology are examined.
LAWS	100	Introduction to Paralegal Studies	Department of Business and Innovation: Paralegal/Law	LAWS	3			This course provides students with basic coverage of the important role paralegals play in many employment contexts. Through completion of innovative exercises, which foster an entrepreneurial mindset, students learn how to identify legal issues; and understand various legal specialties, ethics, research and skills necessary to excel in this growing field.
LAWS	101	Divorce and Family Law	Department of Business and Innovation: Paralegal/Law	LAWS	3	Prerequisite	LAWS100 or LAWS110 (C or better)	This course covers the principles of the Divorce Code of 1980 in Pennsylvania courts, and a comparison with other states. Emphasis is on divorce law, antenuptial agreements, separation agreements, child custody issues, child support, alimony, tax consequences of divorce, and adoptions.

LAWS	140	Civil Litigation and Practice	Department of Business and Innovation: Paralegal/Law	LAWS	3	Prerequisite	LAWS100 or LAWS110 (C or better)	This course provides students with an overview of the theory, procedure and mechanics of a lawsuit from fact gathering through judgment enforcement, with an emphasis on the Pennsylvania Court System.
LAWS	150	Elder Law	Department of Business and Innovation: Paralegal/Law	LAWS	3	Prerequisite	LAWS100 or LAWS110 (C or better)	This course gives an overview of all areas of the law which concern the elderly client such as elder abuse, living facilities, insurance, estate planning and healthcare. Attention is focused on drafting documents such as advance directives, Power of Attorney, wills, trusts and guardianships.
LAWS	160	Wills, Trusts, & Estates	Department of Business and Innovation: Paralegal/Law	LAWS	3	Prerequisite	LAWS100 or LAWS110 (C or better)	In this course, students examine the legal principles and ethical considerations of probate, wills, trusts and the fiduciary code as applied by the Orphans Courts in Pennsylvania. Students also learn how to prepare and file probate and estate planning documents. Students also discuss ethical issues that affect the estate client.
LAWS	165	Criminal Procedure for the Paralegal	Department of Business and Innovation: Paralegal/Law	LAWS	3	Prerequisite	LAWS100 or LAWS110 (C or better)	This course offers an overview of criminal procedure for the paralegal by focusing on crimes against persons, crimes against property, summary offenses, misdemeanors and felonies, as well as state and federal crimes.
LAWS	170	International Law	Department of Business and Innovation: Paralegal/Law	LAWS	3	Prerequisite	LAWS100 (C or better)	This course offers an overview of international trade, licensing, investment, collections, and letters of credit. Students analyze and contrast the risks of international versus domestic business. Students also examine procedures for buying and selling goods in foreign countries.

LAWS	180	Business Organizations: Paralegal	Department of Business and Innovation: Paralegal/Law	LAWS	3	Prerequisite	LAWS100 (C or better)	This course provides an overview of corporations, partnerships, and sole proprietorships in businesses. Students also learn the court procedures and tax implications associated with sole proprietorships, corporations or partnerships.
LAWS	205	Paralegal Procedure and Practice	Department of Business and Innovation: Paralegal/Law	LAWS	3	Prerequisite	LAWS100 and LAWS140 (C or better in both)	Using a realistic case file, the student works through the intense trial advocacy process from conceptualizing the trial, including strategy and tactics, preparing a trial notebook, filing pretrial motions, and performing exercises exploring procedural and evidentiary issues.
LAWS	210	Real Estate Law and Conveyancing	Department of Business and Innovation: Paralegal/Law	LAWS	3	Prerequisite	LAWS110 (C or better)	This course addresses various topics in real estate law, including estates, titles, acquisition, agreements of sale, encumbrances, conveyancing, and bonds. Other topics include liens, deeds, and mortgages.
LAWS	215	Advanced Real Estate & Law Conveyancing	Department of Business and Innovation: Paralegal/Law	LAWS	3	Prerequisite	LAWS210 (C or better)	In this course, students examine advanced real estate law and the documents used in sophisticated residential and commercial transactions with concentration on financing, option contracts, title insurance, zoning, and the vocabulary of these advance transactions.
LAWS	220	Legal Research & Writing	Department of Business and Innovation: Paralegal/Law	LAWS	3	Prerequisite	LAWS100 (C or better) and COMP110 (C or better)	This course provides an introduction to the tools used in legal research including statutes, cases, treaties, encyclopedia and computer search techniques. Students research actual case problems and prepare written memorandum of law. Students also learn how to file research materials and use state and federal legal reporter services.

LAWS	225	Legal Research II	Department of Business and Innovation: Paralegal/Law	LAWS	3	Prerequisite	LAWS100 and LAWS220 (C or better)	This course emphasizes the systematic study of electronic legal research and critical analysis of legal issues, location, and evaluation of appropriate legal authority and application of such authority to the resolution of hypothetical factual situations. Students learn how to prepare persuasive presentations in acceptable legal format.
LAWS	235	Bankruptcy	Department of Business and Innovation: Paralegal/Law	LAWS	3	Prerequisite	LAWS100 or LAWS110 (C or better)	This course provides an overview of the federal bankruptcy law, its purposes, and procedures, with special emphasis on asset liquidation, business reorganization and individual income rehabilitation plans. Other topics include the relationship of debtor, creditor and trustee, ethics, litigation, and the collection process.
LAWS	240	Torts for the Paralegal	Department of Business and Innovation: Paralegal/Law	LAWS	3	Prerequisite	(1) LAWS140 and (2) LAWS100 or LAWS110 (C or better)	This course provides an overview of tort law including intentional torts, personal injury, negligence law and strict liability. Students learn how to prepare legal pleadings and discovery materials. Other topics include ethics, and trial preparation.
LAWS	255	Ethics for the Paralegal	Department of Business and Innovation: Paralegal/Law	LAWS	3	Prerequisite	LAWS100 and LAWS140 (C or better)	This course examines the ethical requirements within the Pennsylvania Rules of Professional Conduct and the National Federation of Paralegal Associations. Specific topics include attorney regulation, and paralegals, the unauthorized practice of law, confidentiality, conflicts of interest, advertising, solicitation, fees, client funds, competency and professionalism.

LAWS	260	Computers in the Law Office	Department of Business and Innovation: Paralegal/Law	LAWS	3	Laws	(1) LAWS100 (C or better) and (2) either CISC100 (C or better) or CISC110 (C or better)	This course provides a general introduction to the use of computers and legal specialty computer software programs in the modern law office. Students use hands on computer exercises using professional software programs frequently used by paralegals, including billing software, spreadsheets and litigation support software.
LAWS	270	eDiscovery	Department of Business and Innovation: Paralegal/Law	LAWS	3	Prerequisite	LAWS100 (C or better)	This course explores the rapidly developing role of software in the area of legal data, eDiscovery, and information governance, as well as in the litigation lifecycle. It also explores technology used in the litigation support department and by litigation teams in the acquisition of data and eDiscovery processing.
LAWS	285	Paralegal Internship	Department of Business and Innovation: Paralegal/Law	LAWS	3	Prerequisites	LAWS100 (C or better), LAWS 140 (C or better), LAWS 220 (C or better), and nine credits of LAWS electives; or six credits of LAWS electives plus MGMT 130 and Department Permission and GPA of 2.0 or higher	In this course, students gain practical work experience either in the private or public sector under the supervision of an attorney or experienced paralegal in day-to-day, on-site office work. This course also includes internship seminar sessions.
LAWS	290	Administrative & Municipal Law	Department of Business and Innovation: Paralegal/Law	LAWS	3	Prerequisite	LAWS100 or LAWS110	This course provides an introduction to the laws involving the administration of government by various departments, agencies, boards and commissions that implement and enforce law and policy. Students learn the laws and procedures that affect the administrative decision-making processes on a local, state and federal government level.

LAWS	295	Special Topics in Law	Department of Business and Innovation: Paralegal/Law	LAWS	3	Prerequisite	LAWS100 (C or better)	This special topics course provides an introduction to various emerging legal issues. Topics vary by semester and include developing areas of law and/or areas of law which are subject to frequent re-interpretation. This course is designed to enhance students' written communication skills through various writing exercises.
LITR	205	English Literature to the 19th Century	Department of Language & Literature: Literature	LITR	3			This course traces the development of British Literature from its Anglo-Saxon origins to the beginning of the 19th Century through the examination of representative literary and historical/cultural texts from a diverse range of writers and perspectives.
LITR	206	English Literature in the 19 th and 20th Century	Department of Language & Literature: Literature	LITR	3			This course traces the development of British Literature from the beginning of the 19th Century to the present through the examination of representative literary and historical/cultural texts from a diverse range of writers and perspectives.
LITR	231	American Literature to 1865	Department of Language & Literature: Literature	LITR	3			This course surveys the development of American Literature from the Colonial beginning to Whitman, emphasizing a thorough acquaintance with the work of significant writers of the period, including women and minorities, in their historical and cultural context.
LITR	232	American Literature from 1865	Department of Language & Literature: Literature	LITR	3			This course surveys the development of American Literature from Whitman to the present, with emphasis upon thorough acquaintance with the work of the significant writers of the period, including women and minorities, in their historical and cultural context.

LITR	234	Introduction to British Women Writers	Department of Language & Literature: Literature	LITR	3			Course features novels, short stories, poems, plays and other literature by, for, and about women in Britain from the medieval period to the present. Students examine the portrayal of women's lives, the relationship to women's roles in modern society, the expression of multi-cultural developments, and major movements in British literature.
LITR	235	A Century of Literature by American Women	Department of Language & Literature: Literature	LITR	3			This course features novels, short stories, poems, and plays by women writers in America from the late 19th century to the present. Students examine the portrayal of women's lives and changing roles, the expression of multi-cultural developments, and major movements in American literature alongside new perspectives created by women's voices.
LITR	236	Introduction to Latin American Literature	Department of Language & Literature: Literature	LITR	3			This course traces the development of Latin American Literature from the mid 20th century to the present through the examination of representative literary and historical/cultural texts from a diverse range of writers and perspectives.
LITR	246	Children's Literature	Department of Language & Literature: Literature	LITR	3			This course surveys the development of children's literature from oral folk tales through nursery rhymes, literary folk tales, modern fantasy, realistic fiction, and informational books. Students learn about poetry, prose, illustrations, fiction, and literary genres, study the dynamics of reading aloud, and explore creative techniques for presenting literature.

LITR	254	World Literature I	Department of Language & Literature: Literature	LITR	3			Students read and analyze literary works drawn from non-English speaking cultures. Lecture and discussion shall emphasize both literary issues, including structure and technique, and a sense of the cultural backgrounds that inform those works. Instructors assign translated works from the ancient world until approximately 1650.
LITR	255	World Literature II	Department of Language & Literature: Literature	LITR	3			Students read and analyze literary works drawn from non-English speaking cultures. Lecture and discussion shall emphasize both literary issues, including structure and technique, and a sense of the cultural backgrounds that inform those works. Instructors assign translated works from approximately 1650 to the present.
LITR	261	Themes in Literature: Women	Department of Language & Literature: Literature	LITR	3			Readings and discussion in this course center on selected works of primarily but not exclusively American and Western European literature that portray female characters in prominent roles and explore the problems of women in their various societies. The works are drawn from various genres representing several centuries.
LITR	264	Themes in Literature: Religion	Department of Language & Literature: Literature	LITR	3			This course explores the connection between religious belief and literary expression, including poetry, novels, drama, and essays. Study of classic religious and literary texts from around the world will focus on both formal and thematic patterns to help students understand the varieties of religious experience and deepen their sense of literature.

LITR	271	Introduction to World Drama	Department of Language & Literature: Literature	LITR	3			This course examines drama from Greek theater to plays by current playwrights. Readings include work from diverse cultural contexts, including, for example, plays by women, African Americans, other minorities, and non-Western playwrights. The emphasis is on play construction, dialogue, staging, themes and cultural values, symbols and motifs, and character development.
LITR	273	Introduction to Poetry	Department of Language & Literature: Literature	LITR	3			This course concentrates on the analysis and study of poetry and its forms. Readings include work from diverse cultural contexts, including, for example, poems by women, African Americans, other minorities, and non-Western writers. The course emphasizes discussion and student presentation of poetic analysis.
LITR	275	Introduction to the Novel	Department of Language & Literature: Literature	LITR	3			This course introduces students to the novel as a literary form and explores its development in different historical and cultural contexts. Students read selected novels, discuss them, and learn to write critically about them. Readings include novels by women, African Americans, other minorities, and non-Western writers.
LITR	277	Introduction to Short Fiction	Department of Language & Literature: Literature	LITR	3			This course explores the short story and novella as meaningful literary forms, with emphasis on structure and technique. Lectures and classroom discussions are reinforced by examinations, critical essays, and exercises in critical analysis.

LITR	278	Intro to African-American Literature	Department of Language & Literature: Literature	LITR	3			This course introduces students to the writing of persons of African descent in North America. Students examine and critically study the themes, content, and structure of African-American writing from the late 18th century up through the modern period.
LITR	279	Introduction to Shakespeare	Department of Language & Literature: Literature	LITR	3			This course provides an introductory study to Shakespeare's tragedies, comedies, and histories, and a careful study of major plays and sonnets. Shakespeare's importance as a dramatist and the enduring nature of his ideas and vision are stressed. The class may view films and live performances.
LITR	264H	Themes in Literature: Religion – Honors section	Department of Language & Literature: Literature	LITR	3	Prerequisite	Admission to the Honors@Bucks program	Honors @ Bucks challenges high-ability, intellectually curious students through intensive coursework emphasizing scholarly research, high-order critical thinking, and experiential learning. This course explores the connection between religious belief and literary expression, including poetry, novels, drama, and essays. Study of classic religious and literary texts from around the world will focus on both formal and thematic patterns to help students understand the varieties of religious experience and deepen their sense of literature.
MATH	085	Mathematics Support Lab	Department of Science, Technology, Engineering & Mathematics: Mathematics	MATH	1			This laboratory course provides individualized support and instruction to enhance success in mathematics courses.

MATH	089	Fast Track Mathematics	Department of Science, Technology, Engineering & Mathematics: Mathematics	MATH	1	Prerequisite	Recommendation by adviser and Math Placement Test	This course reviews various mathematical concepts from Pre-Algebra through Pre-Calculus. After taking the math placement test, students work with math software to strengthen their mathematical knowledge and potentially increase their placement score through the software, leading to continue with other courses within a program of study earlier.
MATH	090	Pre-Algebra	Department of Science, Technology, Engineering & Mathematics: Mathematics	MATH	3	Prerequisite	Math Placement score of '1' or department permission	This course provides preparation for study in algebra. Topics include a review of basic arithmetic skills, fractions, and decimals, an introduction to signed numbers, variables, equation solving, and data analysis. Transferability is determined by transfer institution.
MATH	095	Basic Algebra	Department of Science, Technology, Engineering & Mathematics: Mathematics	MATH	3	Prerequisite	Math Placement of '3' or MATH090 (C or better)	This is an introductory course in Algebra. Topics include operations with numerical and algebraic expressions, solving linear and absolute value equations and inequalities, factoring polynomials, solving quadratic equations, and graphing linear equations and inequalities. Study skills are also emphasized. Transferability is determined by transfer institution.
MATH	101	Mathematical Concepts I	Department of Science, Technology, Engineering & Mathematics: Mathematics	MATH	3	Prerequisite	Math Placement score of '5' or MAT095 (C or better)	This course is primarily for liberal arts and education majors, and emphasizes mathematical systems and reasoning. Course content includes sets, symbolic logic, and elementary probability and such optional topics as basic statistics, game theory, or linear programming.
MATH	102	Mathematics for Educators I	Department of Science, Technology, Engineering & Mathematics: Mathematics	MATH	3	Prerequisite	Math Placement score of '7' or MATH103 (C or better)	This course provides a preparation in mathematics for students interested in elementary education. Topics include elementary logic, sets, relations, functions, numeration systems, whole numbers, integers, and number theory.

MATH	103	Intermediate Algebra	Department of Science, Technology, Engineering & Mathematics: Mathematics	MATH	3	Prerequisite	Math Placement score of '5' or MATH095 (C or better)	This course provides a preparation for more advanced study in mathematics and related fields. Topics include simplifying algebraic, rational, and radical expressions; solving quadratic, rational, radical, absolute value, exponential, and logarithmic equations; solving compound and absolute value inequalities, and graphing functions.
MATH	105	Mathematics for Educators II	Department of Science, Technology, Engineering & Mathematics: Mathematics	MATH	3	Prerequisite	MATH102 (C or better) or department permission	This course provides a continuation of the mathematics preparation for students interested in elementary education. Topics include rational numbers, real numbers, probability, statistics, measurement, and geometry.
MATH	110	Math for Technology I	Department of Science, Technology, Engineering & Mathematics: Mathematics	MATH	3	Prerequisite	MATH095 (C or better) or Math placement test score of 5 or higher	This course is primarily for students in technological career programs. Topics include basic arithmetic and algebraic operations; binary, octal and hexadecimal numbers; and Boolean logic. Emphasis is on applications for careers using digital technology.
MATH	115	Elementary Statistics	Department of Science, Technology, Engineering & Mathematics: Mathematics	MATH	3	Prerequisite	Math Placement Test score '7' or higher or MATH101 or MATH103 or MATH110 (C or better)	This course is primarily for business, science, liberal arts, and education majors. Topics studied include descriptive measures for empirical data, theory of probability, probability distributions, sampling distributions of statistics from large and small samples, estimation theory, hypothesis testing, correlation, and regression.
MATH	117	Finite Mathematics for Business	Department of Science, Technology, Engineering & Mathematics: Mathematics	MATH	3	Prerequisite	Math Placement Test score of '7' or higher or MATH103 (C or better)	This is primarily for students of accounting, business, economics, management, data processing, technologies, and related fields. Topics include linear and quadratic models, matrix theory, linear systems and linear

								programming, probability, and expected value.
MATH	118	Business Calculus	Department of Science, Technology, Engineering & Mathematics: Mathematics	MATH	3	Prerequisite	Math Placement Test score of 8 or higher or MATH117 or MATH120 (C or better)	This is an introduction to basic calculus with emphasis on applications to business, economics, management, information science, and related fields. Topics include relations and functions, limits, continuity, derivatives, techniques of differentiation, chain rule, applications of differentiation, antiderivatives, the definite integral, the fundamental theorem of calculus, and applications of integration.
MATH	120	College Algebra	Department of Science, Technology, Engineering & Mathematics: Mathematics	MATH	4	Prerequisite	Math Placement Test score of '7' or higher or MATH103 (C or better)	This course is designed to strengthen and increase the understanding of basic algebraic concepts before a student undertakes advanced study in mathematics. Topics include algebra of the real numbers, algebraic, exponential, and logarithmic functions and their graphs, systems of equations, inequalities, and absolute value.
MATH	121	Discrete Mathematics	Department of Science, Technology, Engineering & Mathematics: Mathematics	MATH	3	Prerequisite	MATH140 (C or better)	This course enables students to strengthen and increase the understanding of discrete mathematics with special emphasis on computer science applications. Topics include sets, number systems, the nature of proof, formal logic, functions and relations, combinatorics, recurrence relations, trees and Boolean algebra.
MATH	122	Trigonometry & Analytic Geometry	Department of Science, Technology, Engineering & Mathematics: Mathematics	MATH	3	Prerequisite	Math Placement Test score of '8' or higher or MATH120 (C or better)	Topics in this course includes right triangle trigonometry, trigonometric functions and their inverses, identities, equations, solutions of oblique triangles, complex numbers, and analytic geometry.

MATH	125	Precalculus	Department of Science, Technology, Engineering & Mathematics: Mathematics	MATH	4	Prerequisite	Math Placement score '9' or MATH122 or MATH120 with high school trigonometry (C or better in all)	This course introduces the foundations of analysis designed to precede the calculus sequence with emphasis on functions and graphs. Topics include properties of absolute value, polynomial, rational, exponential, logarithmic and trigonometric functions, techniques for solving equations and inequalities, and an introduction to the concept of limits and the difference quotient.
MATH	140	Calculus I	Department of Science, Technology, Engineering & Mathematics: Mathematics	MATH	4	Prerequisite	Math Placement score of '11' or MATH125 (C or better)	This is the first course in the calculus sequence for physical science, business, computer science, mathematics and engineering students. Topics include: limits, the rate of change of a function, derivatives of algebraic and trigonometric functions, applications of derivatives, integration, and applications of the definite integral.
MATH	141	Calculus II	Department of Science, Technology, Engineering & Mathematics: Mathematics	MATH	4	Prerequisite	MATH140 (C or better)	This course is a continuation of Math 140. Topics include differentiation and integration of transcendental functions, indeterminate forms, methods of integration, improper integrals, infinite series, parametric equations, and polar coordinates.
MATH	215	Elementary Statistics II	Department of Science, Technology, Engineering & Mathematics: Mathematics	MATH	3	Prerequisite	MATH115 (C or better)	This course is a continuation of MATH115 and is designed primarily for business, economics, and management students. Topics include decision-making procedures in business and related fields that include ANOVA, simple and multiple regression, correlation, time series, forecasting, index numbers, total quality management, and nonparametric methods.

MATH	242	Calculus III	Department of Science, Technology, Engineering & Mathematics: Mathematics	MATH	4	Prerequisite	MATH141 (C or better)	This course is a continuation of Math 141. Topics for this course include: vectors and solid analytic geometry, surfaces, partial and directional derivatives, Lagrange multipliers, multiple integrals, cylindrical and spherical coordinates, line and surface integrals, Green's Theorem, Stokes' Theorem, and the Divergence Theorem.
MATH	250	Differential Equations	Department of Science, Technology, Engineering & Mathematics: Mathematics	MATH	3	Prerequisite	MATH141 (C or better)	Topics for this course include first order and higher order ordinary differential equations; linear differential equations with constant coefficients; differential operators, non-homogenous differential equations and their solutions, special techniques for solving ordinary differential equations, and Laplace transforms.
MATH	260	Linear Algebra	Department of Science, Technology, Engineering & Mathematics: Mathematics	MATH	3	Prerequisite	MATH140 (C or better)	Topics for this course include: vector spaces, linear transformations, matrix algebra, change of bases, similarity, diagonalization, eigenvalues and vectors; with application to solutions of systems of linear equations, linear programming, Leontief models, Markov chains, codes, and quadratic forms.
MATH	115H	Elementary Statistics – Honors section	Department of Science, Technology, Engineering & Mathematics: Mathematics	MATH	3	Prerequisite	Math Placement Test score of '7' or higher or MATH101 or MATH103 or MATH110 (C or better) Admission to the Honors@Bucks program	This course is primarily for business, science, liberal arts, and education majors. Topics studied include descriptive measures for empirical data, theory of probability, probability distributions, sampling distributions of statistics from large and small samples, estimation theory, hypothesis testing, correlation, and regression.

MATH	140H	Calculus I – Honors section	Department of Science, Technology, Engineering & Mathematics: Mathematics	MATH	4	Prerequisite	Math Placement score of '11' or MATH125 (C or better) Admission to the Honors@Bucks program	This is the first course in the calculus sequence for physical science, business, computer science, mathematics and engineering students. Topics include: limits, the rate of change of a function, derivatives of algebraic and trigonometric functions, applications of derivatives, integration, and applications of the definite integral.
MDLB	101	Introduction to Medical Laboratory Technician	Department of Health Sciences: Medical Laboratory	MDLB	3	Prerequisite	Admission to Medical Laboratory Technician Program	This course introduces the medical laboratory technician student to the laboratory setting. Students gain an appreciation for the daily functions, safety regulations, and ethical standards of a professional laboratory technician. This course also includes hands-on laboratory experience in Phlebotomy, Urinalysis, and Analysis of Body Fluids.
MDLB	201	Immunology	Department of Health Sciences: Medical Laboratory	MDLB	3	Prerequisite/ Corequisite	Prerequisite: Admission to Medical Laboratory Technician Program; MDLB101 (C or better) Corequisite: MDLB205, MDLB210, and MDLB215	Students learn the organization, activation and diseases of the immune system with emphasis on the central concept of antigen-antibody reactions. Students devote laboratory time to performing various techniques used to detect diseases involving the immune system.
MDLB	205	Immunohematology: Blood Bank	Department of Health Sciences: Medical Laboratory	MDLB	4	Prerequisite/ Corequisite	Prerequisite: Admission to Medical Laboratory Technician Program; MDLB101 (C or better) Corequisite: MDLB201, MDLB210, and MDLB215	Students focus on the theory of antigen-antibody reactions, genetics of blood group inheritance, and the concept of donor/patient compatibility. In the laboratory, students devote time to quality control, compatibility testing, patient antibody identification, and blood component therapy.

MDLB	210	Diagnostic Microbiology	Department of Health Sciences: Medical Laboratory	MDLB	4	Prerequisite/ Corequisite	Prerequisite: Admission to Medical Laboratory Technician Program; MDLB101 (C or better) Corequisite: MDLB201, MDLB205, and MDLB215	Students identify medically important microorganisms using a wide variety of clinical techniques. Included in discussions are susceptibility studies and the correlation of the presence of microorganisms to health and disease.
MDLB	215	Clinical Chemistry	Department of Health Sciences: Medical Laboratory	MDLB	4	Prerequisite/ Corequisite	Prerequisite: Admission to Medical Laboratory Technician Program; MDLB101 (C or better) Corequisite: MDLB205, MDLB210, and MDLB215	Students learn physiologic theory of routinely tested analytes. In the laboratory, students devote time to instrumentation, quality control, and statistics used in the quality assurance plan. Students learn the relationship of blood chemistry results to normal and disease states.
MDLB	220	Hematology	Department of Health Sciences: Medical Laboratory	MDLB	4	Prerequisite	Admission to Medical Laboratory Technician Program; MDLB201 (C or better), MDLB205 (C or better), MDLB210 (C or better), and MDLB215 (C or better)	Students learn cell morphology, hemostasis, and the principles of automated instrumentation used in the hematology and coagulation laboratories. In the laboratory, students devote time to cell identification, instrumentation, and correlation of hematology and coagulation results with disease states.
MDLB	225	MLT Seminar	Department of Health Sciences: Medical Laboratory	MDLB	3	Prerequisite/ Corequisite	Admission to Medical Laboratory Technician Program; MDLB220	Students participate in a comprehensive review to plan for the National Certification Examination. They develop and deliver a case study, write resumes, attend mock interviews in order to demonstrate competency as an entry-level Medical Laboratory Technician.
MDLB	230	Medical Lab Clinical I	Department of Health Sciences: Medical Laboratory	MDLB	2	Prerequisite/ Corequisite	Admission to Medical Laboratory Technician Program; MDLB225	This course introduces the Medical Laboratory student to the Clinical Laboratory setting. Student clinical work occurs in the assigned applicable departments of the Laboratory-Hematology, Clinical Chemistry, Microbiology, or the Blood Bank

								(Immunohematology). Preceptors closely supervise student clinical work.
MDLB	235	Medical Lab Clinical II	Department of Health Sciences: Medical Laboratory	MDLB	2	Prerequisite	Admission to Medical Laboratory Technician Program; MDLB220 (C or better), MDLB225 (C or better), and MDLB230 (C or better)	Medical Laboratory students apply theory and classroom materials to the clinical laboratory setting. Students participate in the supervised clinical setting while developing the skills of an entry-level laboratory professional.
MEDA	120	Medical Terminology	Department of Health Sciences: Medical Assisting	MEDA	3	Prerequisite	Reading Level 2 or higher or permission of the Department of Health Sciences	This introductory course in medical terminology focuses on accurate spelling and pronunciation of terms and building knowledge of basic medical vocabulary with an emphasis on prefixes, suffixes, roots, and combining vowels. Anatomical, physiological, and pathological terminology are covered and applied in the context of electronic health records.
MEDA	140	College Keyboarding/Document Processing	Department of Health Sciences: Medical Assisting	MEDA	3			Students use computers to learn the touch method of keyboarding and the basic features of Microsoft Word to produce letters, tables, reports and memos. Eligibility for exemption determined by placement test.
MEDA	200	Clinical Procedures I	Department of Health Sciences: Medical Assisting	MEDA	3	Prerequisite	MEDA120 (C or better) and BIOL115 (C or better); Additional Fee - see www.bucks.edu/fees	This course is designed to give the medical assistant student knowledge and practice in skills needed in a medical office. Topics include managing the clinical environment, patient teaching, obtaining a medical history and vital signs, assisting with examinations, sterilizing equipment, assisting with minor office surgery, and understanding diet and nutrition.
MEDA	201	Clinical Procedures II	Department of Health Sciences: Medical Assisting	MEDA	3	Prerequisite/ Corequisite	MEDA200; Additional Fee - see www.bucks.edu/fees .	This course offers the student knowledge and practice in medical assisting skills required in a medical office. Pharmacology, medication administration, and principles of medical assisting in

								specialized areas of medicine are the main focus.
MEDA	203	Laboratory Procedures	Department of Health Sciences: Medical Assisting	MEDA	3	Prerequisite	MEDA120 (C or better) and BIOL115 (C or better); Additional Fee - see www.bucks.edu/fees .	This course is a laboratory introduction to microscopic and chemical analysis of blood and urine as performed in the physician's office. Basic procedures for diagnostic tests, including the handling and preservation of specimens, urinalysis, and capillary and venous blood withdrawal are performed.
MEDA	204	Phlebotomy Procedures and Techniques	Department of Health Sciences: Medical Assisting	MEDA	4	Prerequisite/ Corequisite	BIOL115 and MEDA120; Additional Fee - see www.bucks.edu/fees	This course provides skill development in the performance of blood collection using proper techniques and standard precautions. Topics include phlebotomy equipment and procedures for collecting venipuncture and capillary specimens. Emphasis is on patient identification, safety, preanalytic variables, infection control and specimen handling.
MEDA	205	Medical Law and Ethics	Department of Health Sciences: Medical Assisting	MEDA	3			This course is an introduction to the concepts of medical law and ethics for health care practitioners. Topics including criminal and civil acts, contracts, negligence, and ethical concepts as they relate to the medical profession. Managed care, HIPAA and other health care legislative rulings are discussed.
MEDA	215	Medical Administrative Procedures	Department of Health Sciences: Medical Assisting	MEDA	3	Prerequisite/ Corequisite	MEDA140	This course examines the role and function of the medical professional. Topics including patient education, compliance with HIPAA, and relationships with health care providers are covered. Students are introduced to the latest in financial procedures, financial management concepts, and communication technology and skills essential in preparing them for today's job market.

MEDA	216	Medical Insurance/Billing/Reimbursement	Department of Health Sciences: Medical Assisting	MEDA	3	Prerequisite/ Corequisite	MEDA140	This course covers advanced medical administrative procedures using billing software. Topics including maintaining files, entering patient data, inputting insurance, posting transactions, generating reports, and scheduling appointments are covered.
MEDA	220	Medical Assistant Externship	Department of Health Sciences: Medical Assisting	MEDA	4	Prerequisite	Completion of all courses in the medical assisting program with a grade of C or better and permission of the Department of Health Sciences.	The course prepares students to work in a medical office assisting physicians and office personnel by performing assigned duties in both administrative and clinical procedures. The work experience is supported by knowledge and skills gained in pre-requisite courses, site liaison feedback, and externship instructor site visits.
MEDA	280	Medical Administrative Assistant Externship	Department of Health Sciences: Medical Assisting	MEDA	4	Prerequisite	Completion of all courses in the Medical Administrative Specialist Program with a grade of C or better and permission of the Department of Health Sciences.	The course prepares students to work in a medical office assisting physicians and office personnel by performing assigned administrative duties. The work experience is supported by knowledge and skills gained in pre-requisite courses, site liaison feedback, and externship instructor site visits.
MEDA	287	Phlebotomy Externship	Department of Health Sciences: Medical Assisting	MEDA	3	Prerequisite	BIOL115 (C or better) and MEDA120 (C or better) and MEDA204 (C or better) and MEDA205 Phlebotomy (C or better) must be completed prior to taking this course. Permission of the Department of Health Sciences is required.	Students participate in an on-the-job experience in an affiliated healthcare facility perfecting venipuncture skills and perform a minimum of 100 successful venipunctures under supervision. Students are evaluated for technical proficiency and professionalism by the supervisor using criteria established by the coordinator in conjunction with the healthcare facility standards of performance.

MGMT	100	Introduction to Business	Department of Business and Innovation: Management	MGMT	3			This course examines the social, legal, ethical, economic and political interactions of business and society in the United States and internationally. Business and non-business majors learn about the relationship and impact of business to society in which they are citizens, consumers, and producers.
MGMT	102	Business Skills for Artists	Department of Business and Innovation: Management	MGMT	3			This course explores business-related considerations that facilitate successful careers as artists in today's complex business environment. It promotes application of the entrepreneurial mindset to topics of career development, legal considerations, personal and product marketing, and financial planning.
MGMT	110	Small Business Management	Department of Business and Innovation: Management	MGMT	3			This course reviews considerations in establishing and managing a small business venture in today's complex business environment. It promotes application of the entrepreneurial mindset to issues of management, operations and control. Also reviewed are legal forms of ownership, financial planning and resources, ethical issues, and the importance of social responsibility.
MGMT	120	Business Mathematics	Department of Business and Innovation: Management	MGMT	3	Prerequisite	MATH095 (C or better) or Math Placement '5'	This course applies student's interpretation of basic mathematical concepts to common business usage covering such topics as percentages, interest, trade, bank and cash discounts, payroll, time value of money, and business loans.

MGMT	122	Introduction to Business Analytics	Department of Business and Innovation: Management	MGMT	3	Prerequisite/ Corequisite	MGMT100	This course is an introduction to business analytics including the fundamental concepts and tools needed to understand how organizations can make better-informed business decisions. Topics include various industries using data analysis and related professional roles. Emphasis is placed on applications, concepts, and the interpretations and communication of results.
MGMT	130	Business Law	Department of Business and Innovation: Management	MGMT	3			This course examines the fundamentals of Business Law, the legal process and environment within which individuals and business operate, and the relationship of law, business, and the individual. Topics include the basic elements of a contract, the Uniform Commercial Code, and provision on sales and negotiable instruments.
MGMT	135	Business Communication	Department of Business and Innovation: Management	MGMT	3	Prerequisite	Writing Placement '6' or COMP107	The strategies and techniques of writing letters, memos, and reports are emphasized. Students will develop and refine these skills through assignments that include positive letters, negative letters, and other types of business messages. An analytical business report is assigned to apply principles for writing a business research report.
MGMT	140	Supervision	Department of Business and Innovation: Management	MGMT	3			This course investigates the roles and functions of the first-level supervisor in industrial, business, and institutional settings, both profit and non-profit. It reviews supervisory practices that relate directly to general issues and problems of managers at the first level and emphasizes the management of human relations from a supervisory perspective.

MGMT	145	Negotiation and Conflict Resolution	Department of Business and Innovation: Management	MGMT	3			This course introduces students to negotiation and conflict resolution in a variety of settings. Students develop a foundational understanding of conflict theory, followed by negotiation and dispute resolution. This course is designed to enhance students' negotiation/conflict resolution skills through various exercises, activities, role plays, and self-assessments.
MGMT	155	Introduction to Entrepreneurship	Department of Business and Innovation: Management	MGMT	3			This course focuses on understanding basic entrepreneurial concepts, the entrepreneurial mindset, and developing entrepreneurial skills through hands-on learning. The course emphasizes the entrepreneurial process and the application of this process to a broad range of business contexts. The course also addresses creativity, securing resources, team building, communication, and leadership.
MGMT	160	Insurance & Risk Management	Department of Business and Innovation: Management	MGMT	3			The course covers the risks that are faced by an individual or firm and the various methods for their treatment. Methods of treatment include, but are not limited to, insurance, loss prevention, suretyship, simple retention, and self-insurance. Topics include personal and business insurance.
MGMT	175	Professional Development	Department of Business and Innovation: Management	MGMT	3			Students study the various factors that contribute to successful professional growth and development with emphasis on business ethics, business and professional etiquette, presentation skills, human relations, international business customs, and the job search and interview process. Each student develops a professional growth plan.

MGMT	180	Legal Environment of Business	Department of Business and Innovation: Management	MGMT	3			This course examines the various classifications of the law and the rights and responsibilities imposed on the business community by our legal system. It introduces students to the evolutionary process of the legal system and its impact on the individual, business environment, and upon society as a whole.
MGMT	190	Introduction to Finance	Department of Business and Innovation: Management	MGMT	3	Prerequisite	Reading level of '3' or READ110 (C or better)	This course focuses on a firm's financial goals and decisions to maximize shareholders' wealth. It examines financial concepts and analytical techniques, financial performance, time value of money, measurement of risk and return, capital budgeting, capital structure, short-term financial planning, working capital management, and international finance.
MGMT	200	Organizational Behavior	Department of Business and Innovation: Management	MGMT	3	Prerequisite	MGMT100 or MGMT110 (C or better)	This course examines the nature of individual and group employee behavior in a work environment and how it affects organizational performance. Psychological principles explain how and why people act as they do. It includes an emphasis on the use of theories as conceptual tools for analyzing and solving personnel problems.
MGMT	220	Production and Operations Management	Department of Business and Innovation: Management	MGMT	3	Prerequisite	MGMT100 or MGMT110 (C or better)	This course reviews the management of operations in manufacturing, service and government organizations. Topics include a review of the activities and responsibilities of operations management, the tools and techniques available to assist in running the operation, and the factors considered in the design of the system.

MGMT	230	Principles of Management	Department of Business and Innovation: Management	MGMT	3	Prerequisite	MGMT100 or MGMT110 (C or better in either)	This course presents the principles, techniques, and concepts needed for managerial analysis and decision making. It highlights the effective management of planning, organizing, influencing, and controlling related to the internal and external environment and issues of ethics and social responsibility. It emphasizes a variety of communication skills.
MGMT	250	Human Resource Management	Department of Business and Innovation: Management	MGMT	3	Prerequisite	MGMT100 or MGMT110 (C or better)	This course examines the policies and practices used by human resource management staff to build and maintain an effective work force. Topics include human resource planning, job analysis, recruitment, selection, performance appraisal, manpower development, compensation, and labor relations.
MGMT	280	Management Internship	Department of Business and Innovation: Management	MGMT	3	Prerequisite	Written department/instructor permission	Students participate in an on-the-job experience and observation in a field directly related to their academic preparation and career objectives in business management. Students review actual experience and observation in the light of theory and skills learned academically with a College Coordinator.
MGMT	100H	Introduction to Business – Honors section	Department of Business and Innovation: Management	MGMT	3	Prerequisite	Permission of Honors Coordinator	This course examines the social, legal, ethical, economic and political interactions of business and society in the United States and internationally. Business and non-business majors learn about the relationship and impact of business to society in which they are citizens, consumers, and producers.

MGMT	100P	Introduction to Business	Department of Business and Innovation: Management	MGMT	3			This course examines the social, legal, ethical, economic and political interactions of business and society in the United States and internationally. Business and non-business majors learn about the relationship and impact of business to society in which they are citizens, consumers, and producers.
MKTG	110	Selling	Department of Business and Innovation: Marketing	MKTG	3			This course evaluates selling as a component of the marketing mix. Students examine effective selling, steps in the selling process, and the application of entrepreneurial mindset to the selling process. Topics include an analysis of consumers, motivation and communications, handling objections, closing techniques, and the role of the salesperson.
MKTG	112	Customer Experience	Department of Business and Innovation: Marketing	MKTG	3			This course examines current trends in innovative customer service and guest experiences. Topics include implementation strategies, acting on customer requests and complaints, practicing service skills, and learning to empower employees by understanding the entrepreneurial mindset of turning challenges into opportunities to create value for the customer.
MKTG	135	Retail Management	Department of Business and Innovation: Marketing	MKTG	3			This course examines the overall organizational structure and relationships within a retail organization. It emphasizes sales supporting (non-merchandising) functions and current trends. It includes single-unit and multi-unit structures, receiving, marking, stock, warehousing, delivery, wrapping-packing, adjustments, credit, accounts payable, audit, security, workrooms, and personnel.

MKTG	140	Retail Merchandising	Department of Business and Innovation: Marketing	MKTG	3			This course examines planning and organizing for buying in the retail merchandising environment. Topics include elements related to when, what, and how much to buy. This course also covers pricing, developing resources and inventory, promotional planning and controls, and supervision of sales and supporting staffs.
MKTG	200	Advertising	Department of Business and Innovation: Marketing	MKTG	3			This course studies advertising theory, design, functions, principles, and procedures. It emphasizes the utilization of various media, along with the overall advertising campaign strategy based on creative problem solving. Topics include creative promotional activities, particularly as they help to integrate advertising into the marketing program.
MKTG	215	Principles of Marketing	Department of Business and Innovation: Marketing	MKTG	3	Prerequisite	MGMT100 or MGMT110 (C or better)	This course examines the major elements in the marketing mix, including product planning, pricing, channel and logistics of dispersion, and promotion. It reviews consumer demand, as well as principles, functions, and the basic problems and opportunities that exist in the world of marketing.
MKTG	220	Digital Marketing	Department of Business and Innovation: Marketing	MKTG	3			This course examines the basic principles and concepts underlying the use of digital information and communication technology by organizations and consumers. It reviews critical success factors and best practices central to the effectiveness of digital tools and social media.

MKTG	230	Social Media Marketing	Department of Business and Innovation: Marketing	MKTG	3			This course explores social media marketing principles and best practices for using social media for business, reputation management, and online community building. Students analyze current social networking sites, learning how to use social media to create meaningful relationships with customers, clients, and colleagues. The relevant legal/ethical ramifications are studied.
MKTG	280	Marketing Internship	Department of Business and Innovation: Marketing	MKTG	3	Prerequisite	24 college credits, a GPA of 2.5 earned in courses by the Department of Business Studies, or permission of the Department of Business Studies	Students participate in an on-the-job experience and observation in a field directly related to their academic preparation and career objectives in marketing/retail. Students periodically review actual experience and observation in the light of theory and skills learned academically with a College Coordinator.
MUSC	100	Music Fundamentals	Department of Arts and Communication: Music	MUSC	3			Music Fundamentals introduces basic musical concepts, develops rudimentary skills in musicianship, and functions as a precursor to the study of music theory and ear training.
MUSC	101	Introduction to Music	Department of Arts and Communication: Music	MUSC	3			This course is a listening-based survey of Western art music from Gregorian chant to the present, including a study of basic acoustics and musical notation. Subject matter includes representative composers, their lives, times, and works, as well as musical instruments, styles, genres, and forms presented in an historical context.

MUSC	103	World Music	Department of Arts and Communication: Music	MUSC	3			Beginning with a preliminary study of music fundamentals and an overview of societal contexts of music and musicians, this listening-oriented survey of traditional and popular music from around the world employs the ethnomusicological approach to explore the diverse musical heritages of Africa, Asia, the Americas, and the Middle East.
MUSC	106	History of Jazz	Department of Arts and Communication: Music	MUSC	3			This course surveys the development of jazz from its origins to the present time, investigates representative composers, and examines the musical characteristics, compositional practices, and instrumental/vocal techniques associated with ragtime, blues, bebop, swing, progressive, and other styles.
MUSC	107	American Pop Culture: History of Rock	Department of Arts and Communication: Music	MUSC	3			This course will focus on American popular culture through the lens of rock-n-roll music, including rock's roots, influences, and impact on popular culture. Students will experience the subtleties, power, and excitement of the music.
MUSC	111	Music Theory I	Department of Arts and Communication: Music	MUSC	3	Prerequisite/ Corequisite	Prerequisite: MUSC100 or equivalent Corequisite: MUSC115	Music Theory I explores elements of diatonic harmony (including triads, chord progressions, cadences, and part-writing principles). This course, intended for music majors, must be taken in conjunction with MUSC115 Ear Training I.
MUSC	112	Music Theory II	Department of Arts and Communication: Music	MUSC	3	Prerequisite	MUSC111	Music Theory II explores elements of diatonic harmony (including qualities and inversions of triads and seventh chords, non-harmonic tones, and modulation to closely related keys). A continuation of Music Theory I and intended for music majors, MUSC112 must be taken in conjunction with MUSC116 Ear Training II.

MUSC	115	Ear Training I	Department of Arts and Communication: Music	MUSC	3	Prerequisite	MUSC-100 or equivalent	Ear Training I applies the aural skills of sight-singing, rhythmic, melodic, and harmonic dictation in diatonic relationships (including triads, chord progressions and cadences). This course, intended for music majors, must be taken in conjunction with MUSC111 Music Theory I.
MUSC	116	Ear Training II	Department of Arts and Communication: Music	MUSC	3	Prerequisite	MUSC-115	MUSC116 applies sight-singing and dictation to diatonic relationships (including qualities and inversions of triads and seventh chords, non-harmonic tones and modulation to closely related keys). A continuation of Ear Training I and intended for music majors, MUSC116 must be taken in conjunction with MUSC112 Music Theory II.
MUSC	124	Music Technology	Department of Arts and Communication: Music	MUSC	3			Following a general historical survey of MIDI (Musical Instrument Digital Interface) technology, this course examines entry, transmission, and editing of MIDI data, and its musical notation via industry standard software and hardware. Students apply music technology in creative projects ranging from song writing to film scoring to studio preproduction.
MUSC	129	Digital Recording Technology	Department of Arts and Communication: Music	MUSC	3			In this studio course students utilize a hands-on approach in applying principles and techniques of studio configuration, microphone placement, digital recording, digital signal processing, editing digital audio, and mixing.

MUSC	201	Musical Styles & Literature: Music Before 1750	Department of Arts and Communication: Music	MUSC	3	Prerequisite	MUSC112 (C or better)	This course is an historical and analytical study of Western music of the Medieval, Renaissance, and Baroque Periods. Students explore lives and works of prominent composers in an historical context, while examining representative forms, styles, genres, and compositional techniques of the respective musical eras in both written and aural contexts.
MUSC	202	Musical Styles and Literature: Music After 1750	Department of Arts and Communication: Music	MUSC	3	Prerequisite	MUSC112	This course is an historical and analytical study of Western music of the Classical, Romantic, and Modern Periods. Students explore lives and works of prominent composers in an historic context, while examining representative forms, styles, genres, and compositional techniques of the respective musical eras in both written and aural contexts.
MUSC	211	Music Theory III	Department of Arts and Communication: Music	MUSC	3	Prerequisite	MUSC112	Music Theory III explores Eighteenth and Nineteenth Century chromaticism (including secondary dominants, primary, secondary, and double mixture, Neapolitan chords, and related chromatically altered sonorities). A continuation of Music Theory II and intended for music majors, MUSC211 must be taken in conjunction with MUSC215 Ear Training III.
MUSC	212	Music Theory IV	Department of Arts and Communication: Music	MUSC	3	Prerequisite	MUSC211 and permission of the Arts Department	Music Theory IV explores Eighteenth- and Nineteenth-Century chromaticism (including secondary dominants, primary, secondary, and double mixture, Neapolitan chords, and augmented sixth chords), Twentieth-Century techniques. Students analyze stylistically representative repertoire.

MUSC	215	Ear Training III	Department of Arts and Communication: Music	MUSC	3	Prerequisite	MUSC116	Ear Training III applies sight-singing and dictation to chromatic tonal relationships (including modal mixture and secondary dominants). A continuation of Ear Training II and intended for music majors, MUSC215, must be taken in conjunction with MUSC211 Music Theory III.
MUSC	216	Ear Training IV	Department of Arts and Communication: Music	MUSC	3	Prerequisite	MUSC-215	Ear Training IV applies sight-singing and dictation to chromatic tonal relationships (including secondary dominants, modal mixture, Neapolitan and augmented sixth chords), modes, and non-diatonic scales (pentatonic, octatonic, and whole tone).
MUSE	101	Concert Choir	Department of Arts and Communication: Music	MUSE	1	Prerequisite	Audition required	Concert Choir is a mixed vocal ensemble that prepares stylistically diverse musical repertoire for one or more public performances each semester. It is open to all students.
MUSE	115	Jazz Orchestra	Department of Arts and Communication: Music	MUSE	1	Prerequisite	Audition required	Jazz Orchestra is an instrumental jazz ensemble (big band) that prepares diverse musical repertoire for one or more public performances each semester. It is open to all students.
MUSE	140	Percussion Ensemble	Department of Arts and Communication: Music	MUSE	1	Prerequisite	Audition required	Percussion Ensemble provides students opportunity to study the full range of pitched and non-pitched percussion instruments in a group setting. The ensemble performs percussion music of varied historical, cultural, and stylistic backgrounds and genres.
MUSE	151	Chamber Ensemble: Classical	Department of Arts and Communication: Music	MUSE	1	Prerequisite	Audition required	This course addresses the unique dynamic of small group performance in the Classical idiom and provides students with a venue for rehearsing and performing the wealth of repertoire specifically composed for Classical chamber ensembles.

MUSE	155	Chamber Ensemble: Jazz	Department of Arts and Communication: Music	MUSE	1	Prerequisite	Audition required	This course addresses the unique dynamic of small group performance in the Jazz idiom and provides students with a venue for rehearsing and performing the wealth of repertoire specifically composed for Jazz chamber ensembles.
MUSE	201	Madrigal Singers	Department of Arts and Communication: Music	MUSE	1	Prerequisite	Audition required	Madrigal Singers is a select vocal ensemble that specializes in the performance of advanced repertoire representing diverse historical, cultural, and stylistic backgrounds and genres.
MUSG	165	Group Instruction in Piano, Level 1	Department of Arts and Communication: Music	MUSG	1			This course offers group instruction in piano and introduces fundamental concepts of music reading. Students practice proper fingering and hand position in the contexts of sight-reading, performance of elementary repertoire, and execution of scales and simple chord progressions.
MUSG	185	Group Instruction in Ukulele	Department of Arts and Communication: Music	MUSG	1			This course offers group instruction in ukulele and introduces the reading of standard notation. Students practice right and left-hand techniques, including strumming/plectrum and finger styles as applied to scales and melodies, provide primary chord accompaniment for melodies and perform simple works for solo ukulele.
MUSL	100	Preparatory Lessons	Department of Arts and Communication: Music	MUSL	1	Prerequisite	Audition, Departmental Placement Exam, Enrollment in Music Transfer Major, and permission of the Arts Department; Additional Fee - see www.bucks.edu/fees	MUSL100 is private applied instruction at the Preparatory Lesson level. Students develop technical competency, learn representative musical repertoire, and advance performance skills in their chosen area of emphasis.

MUSL	101	Secondary Lessons, Level 1	Department of Arts and Communication: Music	MUSL	1	Prerequisite	Audition, Departmental Placement Exam, Enrollment in Music Transfer Major, and permission of the Arts Department; Additional Fee - see www.bucks.edu/fees	MUSL101 is private applied instruction at the Secondary Lesson level. Students develop technical competency, learn representative musical repertoire, and advance performance skills in their secondary area of emphasis.
MUSL	110	Performance Class	Department of Arts and Communication: Music	MUSL	1	Prerequisite	Permission of the Arts Department and current enrollment in the Music Transfer Major or concurrent registration in one of the following private lesson courses: MUSL100, MUSL111, MUSL112, MUSL211 or MUSL212	Students of the same applied instrument perform solo repertoire from their lessons and develop critical listening skills by evaluating the performances of their peers.
MUSL	111	Principal Lesson I	Department of Arts and Communication: Music	MUSL	1	Prerequisite/ Corequisite	Prerequisite: Permission of the Arts Department for non-Music majors. For Music majors only: Audition Enrollment in Music Transfer Major (curriculum code: 1019) Corequisite: For Music majors only: Students must be registered in both Music Theory and Ear Training course sequences and a MUSE music ensemble course. Additional Fee – see www.bucks.edu/fees .	Students receive private applied instruction on the student's principal instrument. Students develop technical competency, learn representative musical repertoire, and advance performance skills in their chosen area of emphasis.

MUSL	112	Principal Lesson II	Department of Arts and Communication: Music	MUSL	1	Prerequisite/ Corequisite	<p>Prerequisite: Permission of the Arts Department for non-music majors. For Music majors only: MUSL111 and Audition Enrollment in Music Transfer Major (curriculum code: 1019)</p> <p>Corequisite: For Music majors only: Students must be registered in both Music Theory and Ear Training course sequences and a MUSE ensemble course.</p> <p>Additional Fee – see www.bucks.edu/fees.</p>	Students receive private applied instruction on the student's principal instrument. Students develop technical competency, learn representative musical repertoire, and advance performance skills in their chosen area of emphasis.
MUSL	211	Principal Lesson III	Department of Arts and Communication: Music	MUSL	1	Prerequisite/ Corequisite	<p>Prerequisite: Permission of the Arts Department for non-music majors/ For Music majors only: MUSC112 and Audition Enrollment in Music Transfer Major (curriculum code: 1019)</p> <p>Corequisite: For Music majors only: Students must be registered in both Music Theory and Ear Training course sequences and a MUSE music ensemble course.</p> <p>Additional Fee – see www.bucks.edu/fees.</p>	Students receive private applied instruction on the student's principal instrument. Students develop technical competency, learn representative musical repertoire, and advance performance skills in their chosen area of emphasis.

MUSL	212	Principal Lesson IV	Department of Arts and Communication: Music	MUSL	1	Prerequisite/ Corequisite	Prerequisite: Permission of the Arts Department for non-music majors. For Music majors only: MUSC211 and Audition Enrollment in Music Transfer Major (curriculum code: 1019) Corequisite: For Music majors only: Students must be registered for both Music Theory and Ear Training course sequences and a MUSE ensemble course. Additional Fee – see www.bucks.edu/fees .	MUSL212, a continuation of MUSL211, is private applied instruction on the student's primary instrument. Students develop technical competency, learn representative musical repertoire, and advance performance skills in their chosen area of emphasis. This course includes a weekly master class.
NANO	211	Material Safety & Equipment Overview	Department of Science, Technology, Engineering & Mathematics: Nanofabrication Technology	NANO	3	Prerequisite		This three-credit course is part of a six course, eighteen credit, Nanofabrication Manufacturing Technology (NMT) capstone program taught at Penn State University. The Dean of the Science, Technology, Engineering & Mathematics Department located in Founders 112 at Bucks County Community College may be contacted at (215) 968-8305 for additional information.
NANO	212	Basic Nanofabrication Processes	Department of Science, Technology, Engineering & Mathematics: Nanofabrication Technology	NANO	3	Prerequisite		This three-credit course is part of a six course, eighteen credit, Nanofabrication Manufacturing Technology (NMT) capstone program taught at Penn State University. The Dean of the Science, Technology, Engineering & Mathematics Department located in Founders 112 at Bucks County Community College may be

								contacted at (215) 968-8305 for additional information.
NANO	213	Thin Films in Nanofabrication	Department of Science, Technology, Engineering & Mathematics: Nanofabrication Technology	NANO	3	Prerequisite		This three-credit course is part of a six course, eighteen credit, Nanofabrication Manufacturing Technology (NMT) capstone program taught at Penn State University. The Dean of the Science, Technology, Engineering & Mathematics Department located in Founders 112 at Bucks County Community College may be contacted at (215) 968-8305 for additional information.
NANO	214	Lithography for Nanofabrication	Department of Science, Technology, Engineering & Mathematics: Nanofabrication Technology	NANO	3	Prerequisite		This three-credit course is part of a six course, eighteen credit, Nanofabrication Manufacturing Technology (NMT) capstone program taught at Penn State University. The Dean of the Science, Technology, Engineering & Mathematics Department located in Founders 112 at Bucks County Community College may be contacted at (215) 968-8305 for additional information.
NANO	215	Nanofabrication Materials Modification	Department of Science, Technology, Engineering & Mathematics: Nanofabrication Technology	NANO	3	Prerequisite		This three-credit course is part of a six course, eighteen credit, Nanofabrication Manufacturing Technology (NMT) capstone program taught at Penn State University. The Dean of the Science, Technology, Engineering & Mathematics Department located in Founders 112 at Bucks County Community College may be contacted at (215) 968-8305 for additional information.

NANO	216	Characterization, Packaging, and Testing on Nanofabrication Structures	Department of Science, Technology, Engineering & Mathematics: Nanofabrication Technology	NANO	3	Prerequisite		This three-credit course is part of a six course, eighteen credit, Nanofabrication Manufacturing Technology (NMT) capstone program taught at Penn State University. The Dean of the Science, Technology, Engineering & Mathematics Department located in Founders 112 at Bucks County Community College may be contacted at (215) 968-8305 for additional information.
NEUR	121	Fundamentals of Neuroscience	Department of Science, Technology, Engineering & Mathematics: Neuroscience	NEUR	4	Prerequisite	CHEM-121 (C or better) or permission of the Department of Science, Technology, Engineering and Mathematics; Additional Fee - see www.bucks.edu/fees .	This course introduces students to the structure and function of the nervous system and the neural foundations of behavior. Topics include cellular components of the nervous system; neuroanatomy; neurophysiology; chemical signaling and neuropharmacology and brain development; behavioral genetics; and the neurobiology of movement, perception, homeostasis, emotion, learning, memory, and cognition.
NEUR	122	Clinical Neuroscience	Department of Science, Technology, Engineering & Mathematics: Neuroscience	NEUR	3	Prerequisite	READ Level '3' or permission of the Department of Science, Technology, Engineering and Mathematics	This course examines the neurobiological basis of brain disorders across the lifespan, from disorders that typically present in childhood, such as autism, to degenerative conditions of old age, such as Alzheimer's disease. Students learn about diagnostic techniques and current treatments for brain disorders.
NURS	101	Nursing I	Department of Health Sciences: Nursing	NURS	6	Prerequisite/ Corequisite	Additional Fee \$455 Prerequisite: Must meet admission criteria Prerequisites or Corequisites: HEM101 and BIOL181 and COMP110	In Nursing I, students learn the cognitive, psychomotor, and communication skills associated with nursing that recognizes the needs of culturally diverse individuals in a healthy state. The nursing process is introduced. Students use current technology to analyze and integrate data.

NURS	102	Nursing II	Department of Health Sciences: Nursing	NURS	6	Prerequisite/ Corequisite	Prerequisite: NURS101 (C or better) or Permission of the Department of Health Sciences and BIOL182 and BIOL228, and HLTH120N; or Corequisites: BIOL182 and BIOL228 and HLTH120N	In Nursing II, students learn the nursing care of various age individuals who have alterations in their needs. Providing care to individuals with potentially ineffective responses is emphasized, and ineffective responses are introduced. Students use current technology to analyze and integrate data.
NURS	120	Drug Calculations	Department of Health Sciences: Nursing	NURS	1	Prerequisite	Nursing major or RN or LPN license; Math placement test score of 3 or higher	This course is designed for nursing students and for nurses returning to practice. Drug calculations, intravenous solutions, and their implications will be covered.
NURS	121	Pharmacology	Department of Health Sciences: Nursing	NURS	3	Prerequisite	NURS101 (C or better) or RN or LPN license	This course will discuss commonly used medications and their nursing implications. Related issues in gerontology, pediatrics, ethical concerns, and legal implications will be integrated throughout the course.
NURS	201	Nursing III	Department of Health Sciences: Nursing	NURS	9	Prerequisite/ Corequisite	Prerequisite: Major of 2035 and NURS102 (C or better) or Permission of the Department of Health Sciences, and PSYC110 and SOCI110 and COMP111; or Corequisites: COMP111 and PSYC110 and SOCI110	Nursing III students care for individuals who have alterations in their functional health patterns with potentially ineffective responses. The nursing process is utilized to diagnose and treat the responses. Clinical experience is expanded to allow for increased student-patient interaction and practice settings. Students use current technology to analyze and integrate data.
NURS	202	Nursing IV	Department of Health Sciences: Nursing	NURS	9	Prerequisite/ Corequisite	Prerequisite: NURS201 (C or better) or permission of the Department of Health Sciences, and COMM110 and Arts/Humanities elective; or	Nursing IV continues with the nursing care that assists individuals to respond to alterations in every functional health pattern and ineffective responses to each of those alterations, emphasizing the cognitive perceptual health pattern. Students care for patients and use current technology to analyze and integrate data.

							Corequisites: COMM110 and Arts/Humanities elective	
NURS	220	Health Assessment	Department of Health Sciences: Nursing	NURS	3	Prerequisite	BIOL182 (C or better)	This course provides theory and technical skills to perform health and physical assessment. The legal and ethical aspects of the examination and documentation will be included. This course may fill the pre-requisite requirement for Registered Nurses pursuing a Bachelor of Science in Nursing (BSN) degree.
PHIL	105	Critical Thinking	Department of Social & Behavioral Science: Philosophy	PHIL	3			Students examine the nature of both formal and informal reasoning in order to think more clearly and avoid biases. In addition to studying informal fallacies, students learn basic patterns of deductive and non-deductive argument analysis. Examples from across disciplines help students apply critical thinking to all areas of inquiry.
PHIL	111	Ethics	Department of Social & Behavioral Science: Philosophy	PHIL	3			A critical examination of the foundations of ethical theory; contributions of eminent philosophers of ethics are evaluated. The source material used consists of analytic studies from great religious thinkers and philosophers. Students learn to begin to formulate an intellectual basis for their own ethical behavior.
PHIL	115	Philosophy of Religion East and West	Department of Social & Behavioral Science: Philosophy	PHIL	3			The nature and meaning of religion in different cultures is investigated and the major ideas of different religions are studied. Exploration and analysis of psychological, sociological, and anthropological implications of mystical, legalistic, and secular forms of religion.

PHIL	125	Introduction to Philosophy	Department of Social & Behavioral Science: Philosophy	PHIL	3			An investigation of the basic themes in philosophy from around the world. Topics include the nature of existence, knowledge, and values. Readings are drawn from both ancient and contemporary sources. Students develop the ability to apply philosophical theories to their lives.
PHIL	140	Existentialism	Department of Social & Behavioral Science: Philosophy	PHIL	3			A study of an influential modern philosophical movement, including such philosophers and writers as Dostoevski, Kierkegaard, Nietzsche, Heidegger, Jaspers, Camus, Sartre, and Buber. Includes an analysis of the influence of this movement on contemporary deconstructionism and post modernism.
PHIL	145	Aesthetics	Department of Social & Behavioral Science: Philosophy	PHIL	3			An examination of the major philosophical issues raised in connection with music, the visual arts, literature and poetry, craft, and contemporary media art. Topics include the concept of beauty, critical evaluation, artistic truth, and meaning in the arts. Traditional, as well as contemporary viewpoints will be addressed.
PHIL	125H	Basic Problems of Philosophy – Honors section	Department of Social & Behavioral Science: Philosophy	PHIL	3	Honors Course	Admission to the Honors@Bucks program	An investigation of the basic themes in philosophy from around the world. Topics include the nature of existence, knowledge, and values. Readings are drawn from both ancient and contemporary sources. Students develop the ability to apply philosophical theories to their lives.

PHYS	106	Physics A	Department of Science, Technology, Engineering & Mathematics: Physics	PHYS	4	Prerequisite	MATH120 (C or better) or math placement score of 8 or higher; Additional Fee - see www.bucks.edu/fees .	This lecture and laboratory course provides a non-calculus study of the fundamental laws and properties of matter, mechanics, heat, and sound. This course places emphasis on the mathematical solution of problems based on an understanding of the underlying physical phenomena.
PHYS	107	Physics B	Department of Science, Technology, Engineering & Mathematics: Physics	PHYS	4	Prerequisite	PHYS106 (C or better); Additional Fee - see www.bucks.edu/fees .	This lecture and laboratory course is a continuation of PHYS106. It is a non-calculus study of the fundamental laws and properties of electricity, magnetism, geometrical, and physical optics. This course places emphasis on the mathematical solution of problems based on an understanding of the underlying physical phenomena.
PHYS	121	Physics I	Department of Science, Technology, Engineering & Mathematics: Physics	PHYS	4	Prerequisite	MATH140 (C or better); Additional Fee - see www.bucks.edu/fees .	This lecture and laboratory course provides a rigorous introduction to classical physics designed specifically for engineering and science majors. Topics include: SI units, vector mathematics, kinematics, dynamics, work and energy, momentum, gravitation, rigid body dynamics, angular momentum, elastic properties of solids, fluid dynamics, vibrational dynamics, and mechanical waves.
PHYS	122	Physics II	Department of Science, Technology, Engineering & Mathematics: Physics	PHYS	4	Prerequisite	PHYS121 (C or better); Additional Fee - see www.bucks.edu/fees .	This lecture and laboratory course continues a rigorous introduction to classical physics designed specifically for engineering and science majors. Topics include: electric forces and fields, potential and potential energy, capacitors, direct current and transient circuits, magnetic forces and fields, electromagnetic induction, inductors, photons, geometric and physical optics.

POLI	101	Political Internship	Department of Social & Behavioral Science: Political Science	POLI	3			A hands-on opportunity to work in a legislative office thereby augmenting the political science classroom learning experience. Interaction with constituents and those in public office will heighten student understanding of the political process and the relationship of citizen and government.
POLI	111	American National Government	Department of Social & Behavioral Science: Political Science	POLI	3			An examination of the workings of American government at the national level. A consideration of who gets what, when, how, and why. An introduction to effective citizenship, suitable for all students.
POLI	120	American State and Local Government	Department of Social & Behavioral Science: Political Science	POLI	3			Students examine the problems, structure, and major functions of government at the state and local levels. Topics include political processes in the suburban, urban, and state political systems.
POLI	212	International Relations	Department of Social & Behavioral Science: Political Science	POLI	3			This course explores the field of international relations, focusing on topics such as geopolitics, diplomacy, crisis-solving techniques, ideology, nationalism, and international problem-solving.
PSYC	100	Psychology of Personal Awareness	Department of Social & Behavioral Science: Psychology	PSYC	3			This course promotes personal growth and discovery by exploring psychological theories, concepts and methods through an entrepreneurship service-learning experience. Students are required to take initiative, communicate effectively, put theory into action, and tap into yet undiscovered personal potential. Topics include personality theories, career development, wellness, interpersonal relationships and diversity.

PSYC	105	Introduction to Group Dynamics	Department of Social & Behavioral Science: Psychology	PSYC	3	Prerequisite	Reading placement test score of 3 or READ110 (C or better)	This course focuses on the communication behavior of individuals within group structures. Didactic and experiential techniques are used to explore the stages of group development, decision-making techniques, group problems and problem solving, resolution skills, norms, structures, leadership, authority, membership, ethics, cultural sensitivity, and the intra-and inter-personal dynamics within small groups.
PSYC	110	Introduction to Psychology	Department of Social & Behavioral Science: Psychology	PSYC	3	Prerequisite	READ110 (C or better), COMP108 (C or better) or READ Level '3'	Introduction to Psychology is the scientific study of the psychological factors which influence the behavior of individual organisms, both animal and human.
PSYC	120	Human Sexuality	Department of Social & Behavioral Science: Psychology	PSYC	3			This course seeks to foster healthy attitudes toward sexuality by providing knowledge and having discussions about the formation of sexual attitudes and myths, the physiology of human sexual systems, psychological aspects of sex roles, love and human sexuality, sexual minorities, and the legal aspects of sexuality.
PSYC	125	Psychological Techniques of Stress Management	Department of Social & Behavioral Science: Psychology	PSYC	3			In this experiential course, the positive and negative consequences of stress are examined. Emphasizing the mind/body connection and encouraging holistic health in the students, both the physiological and psychological aspects of stress management are studied.

PSYC	160	Addiction and Substance Abuse	Department of Social & Behavioral Science: Psychology	PSYC	3	Prerequisite	PSYC100 (C or better) or PSYC110 (C or better)	This course analyzes the development, intervention, and treatment of drug abuse, alcoholism, and codependency. Family dysfunction and its results are examined, as well as specialized techniques in counseling. Various intervention strategies are discussed.
PSYC	180	Human Growth and Development	Department of Social & Behavioral Science: Psychology	PSYC	3	Prerequisite	PSYC110 (C or better)	This course is a survey of development and growth from conception through adolescence. The physical, emotional, intellectual, and social processes of maturation are examined. Emphasis is on the adjustment of the individual to his or her peer group, social institutions, the community, and the home.
PSYC	181	Developmental Psychology: Life Span	Department of Social & Behavioral Science: Psychology	PSYC	3	Prerequisite	PSYC110 (C or better)	This course describes the intellectual, emotional, social, and physiological development of the human being. Development will be studied from conception through adulthood and aging.
PSYC	190	Educational Psychology	Department of Social & Behavioral Science: Psychology	PSYC	3	Prerequisite	PSYC110 (C or better)	This course surveys the nature of the learning process and application of the principles of psychology to the problems of learning and teaching. Individual differences, special problems of learning, and evaluation techniques are among the topics covered. Field experiences are provided to acquaint students with an authentic teaching-learning environment.
PSYC	200	Social Psychology	Department of Social & Behavioral Science: Psychology	PSYC	3	Prerequisite	PSYC110 (C or better)	This course emphasizes those findings and theories of psychology, which aid in the understanding of socially significant behavior. Areas of psychology are emphasized to the extent that they contribute to an understanding of human behavior on a social level.

PSYC	215	Introductory Psychological Statistics	Department of Social & Behavioral Science: Psychology	PSYC	4	Math Prerequisite	PSYC110 and MATH115 (C or better)	This course includes exercises within the following areas: scales, graphic representations, central tendency and variability, probability, the normal distribution, standard scores, correlation, hypothesis testing, basic nonparametric techniques, analysis of variance, and basic experimental design. This course includes a two-hour weekly computer lab.
PSYC	230	Neuroscience of Psychology	Department of Social & Behavioral Science: Psychology	PSYC	3	Prerequisite	PSYC110 (C or better)	This course focuses on biological contributions to behavior. Instruction encompasses teachings regarding introduction to the structure and function of the nervous systems, as well as psychological topics, including, but not limited to, emotions, stress, sleep, substance use and abuse, learning, memory, and psychological disorders.
PSYC	270	Experimental Psychology	Department of Social & Behavioral Science: Psychology	PSYC	4	Prerequisite/ Corequisite	PSYC215 (C or better); or concurrent	This course introduces the student to the basic principles of experimental design through a description of experimental investigations in various subject areas such as perception, learning, memory, and social psychology. It also focuses on the skill of scientific report writing and includes scheduled laboratory experiences.
PSYC	280	Psych of Abnormal Behavior	Department of Social & Behavioral Science: Psychology	PSYC	3	Prerequisite	PSYC110 (C or better)	This course presents a summary of the field of abnormal behavior. It analyzes current theories which attempt to explain the development of personality and the cause of mental illness. Also discussed are diagnostic and therapeutic procedures and the techniques currently used.

PSYC	285	Psychology Internship	Department of Social & Behavioral Science: Psychology	PSYC	3	Prerequisite	Completion of 9 credits of PSYC courses including PSYC 110 (C or better), GPA of 2.75 or higher, and permission of the department of Social and Behavioral Science	This course introduces students to fieldwork directly related to the students' academic preparation and career objectives. The major areas of focus include partaking in fieldwork, observing real-life situations of working professionals and their clients, and comparing academic theory to fieldwork observations.
PSYC	110H	Introduction to Psychology – Honors section	Department of Social & Behavioral Science: Psychology	PSYC	3	Prerequisite	Reading Placement Test score of 3 or READ110 (C or better); Admission to the Honors @ Bucks program	Introduction to Psychology is the scientific study of the psychological factors which influence the behavior of individual organisms, both animal and human.
PSYC	110P	Introduction to Psychology	Department of Social & Behavioral Science: Psychology	PSYC	3	Prerequisite/ Corequisite	Prerequisite: COMP108 (C or better) Corequisite: Read level 2 and paired section of READ110	Introduction to Psychology is the scientific study of the psychological factors which influence the behavior of individual organisms, both animal and human.
PUBS	101	Introduction to Emergency Management	Department of Business and Innovation: Emergency Management	PUBS	3			This course introduces the student to the basic premises of emergency management including: prevention, mitigation, preparedness, response, and recovery. Students learn the concepts of whole community and all-hazards planning.
PUBS	104	Crisis Management and CIS	Department of Business and Innovation: Emergency Management	PUBS	3	Prerequisite	PUBS101 (C or better) or department permission	This course provides an effective foundation for leadership skills employed in a crisis or disaster situation. It focuses on the understanding of group behavior, psychological response to crisis, crisis communication, and conflict resolution. The underlying factors in the development and mitigation of critical incident stress are explored.

PUBS	206	Business Continuity Management	Department of Business and Innovation: Emergency Management	PUBS	3	Prerequisite/ Corequisite	Prerequisites: PUBS101 (C or better) or department permission and Writing placement score 6 of COMP107 (C or better) Corequisite: FRSC202	Students are introduced to the principles of business continuity management including identification of risk, threats, and vulnerabilities. Students learn how to conduct a business impact analysis and how to develop comprehensive continuity plans. Students learn techniques for developing and evaluating continuity programs.
PUBS	207	Emergency Management Exercise Design	Department of Business and Innovation: Emergency Management	PUBS	3	Prerequisite	PUBS-206 (C or better)	This course prepares students to design, plan, conduct, and evaluate exercises to determine community preparedness. Students are introduced to the Homeland Security Exercise and Evaluation Program (HSEEP). Critical issues examined include: coordination, business recovery, damage assessment, hazard vulnerability analysis, risk management and agency interaction.
PUBS	212	Emergency Communications and Public Information	Department of Business and Innovation: Emergency Management	PUBS	3	Prerequisite	PUBS101 (C or better) and FRSC202 (C or better)	This course introduces the student to the principles of emergency communication and public information. Students learn how to develop emergency communications, develop and issue warnings, effectively use social media, and provide public information at emergency incidents.
PUBS	280	Emergency Management Internship	Department of Business and Innovation: Emergency Management	PUBS	3	Prerequisite	GPA of 2.5 earned at Bucks; Successful completion of at least 21 credits in FRSC and MGMT or department permission	Students conduct field work directly related to their academic preparation and career objectives. The major areas of focus include partaking in actual field work, observing real-life situations of the working professional and his/her clients, and comparing academic theory to field work observations.

RADI	100	Introduction to Radiography	Department of Health Sciences: Radiography	RADI	3	Corequisite	Additional Fee - see www.bucks.edu/fees ; RADI105 and RADI110 and RADI115 and RADI120	RADI100 is an introduction to the hospital setting, radiology department, and the radiography school. The topics of patient care, including physical and psychological needs of the patient and family, routine and emergency patient care procedures, infection control, ethical principles and legal terminology are discussed.
RADI	105	Radiographic Procedures I	Department of Health Sciences: Radiography	RADI	3	Corequisite	Additional Fee - see www.bucks.edu/fees ; RADI100 and RADI110 and RADI115 and RADI120	Radiographic Procedures I is designed to provide the knowledge base necessary to perform standard radiographic procedures of the chest, upper extremity and lower extremity. This course combines didactic coursework and laboratory simulation. The laboratory portion of the course provides the student opportunity to practice and demonstrate their proficiency.
RADI	110	Image Production and Evaluation	Department of Health Sciences: Radiography	RADI	3	Corequisite	Additional Fee - see www.bucks.edu/fees ; RADI100 and RADI105 and RADI115 and RADI120	This course is designed to provide a knowledge base of factors that influence the production and recording of radiologic images. Film, image production, and related accessories are discussed. Class demonstrations/labs are used to demonstrate the application of theory. A basis for analyzing radiographic images is provided.
RADI	115	Radiation Physics	Department of Health Sciences: Radiography	RADI	3	Corequisite	Additional Fee - see www.bucks.edu/fees ; RADI100 and RADI105 and RADI110 and RADI120	This course provides basic knowledge of atomic structure and terminology. The concepts of electricity, magnetism, electromagnetic radiation, electric motors, rectification, and the x-ray tube are presented. The nature and characteristics of radiation, x-ray production, and photon interactions with matter are discussed.

RADI	120	Clinical Experience I	Department of Health Sciences: Radiography	RADI	2	Corequisite	Additional Fee - see www.bucks.edu/fees ; RADI101 and RADI105 and RADI110 and RADI115	Students will be assigned to clinical areas and attend clinical education for 16 hours per week. In the clinical setting, students will demonstrate their knowledge in ethical situations, legal issues, evaluation of radiographic images and patient care situations.
RADI	125	Radiographic Procedures II	Department of Health Sciences: Radiography	RADI	3	Prerequisite/ Corequisite	Additional Fee - see www.bucks.edu/fees Prerequisites: RADI100 (B or better) and RADI105 (B or better) and RADI110 (B or better) and RADI115 (B or better) and RADI120 (B or better) Corequisites: RADI130 and RADI135 and RADI140	Radiographic Procedures II provides the knowledge base necessary to perform standard radiographic procedures of the abdomen, spine, pelvic girdle, bony thorax and mobile studies. This course combines didactic coursework and laboratory simulation. The laboratory portion of the course gives students opportunity to practice and demonstrate their proficiency.
RADI	130	Radiation Protection and Biology	Department of Health Sciences: Radiography	RADI	3	Prerequisite/ Corequisite	Additional Fee - see www.bucks.edu/fees Prerequisites: RADI100 (B or better) and RADI105 (B or better) and RADI110 (B or better) and RADI115 (B or better) and RADI120 (B or better) Corequisites: RADI125 and RADI135 and RADI140	This course provides the principles of radiation biology, including the interaction of radiation with living tissue and the methods used to protect the patient, radiographer, and others. An emphasis on the National Council on Radiation Protection dose limits, interpreting personnel dose reports and the types of radiation badges are discussed.

RADI	135	Advanced Imaging I	Department of Health Sciences: Radiography	RADI	3	Prerequisite/ Corequisite	Additional Fee - see www.bucks.edu/fees Prerequisites: RADI100 (B or better) and RADI105 (B or better) and RADI110 (B or better) and RADI115 (B or better) and RADI120 (B or better) Corequisites: RADI125 and RADI130 and RADI140	This course provides the student with a detailed understanding of various radiographic imaging techniques, procedures, and equipment. Topics explored include film, film intensification screens, introduction to computers, digital radiography, mobile radiography, image intensification, fluoroscopy, and tomography.
RADI	140	Clinical Experience II	Department of Health Sciences: Radiography	RADI	2	Prerequisite/ Corequisite	Additional Fee - see www.bucks.edu/fees Prerequisites: RADI100 (B or better) and RADI105 (B or better) and RADI110 (B or better) and RADI115 (B or better) and RADI120 (B or better) Corequisites: RADI125 and RADI130 and RADI135	Students are assigned to clinical areas and attend clinical education for 16 hours per week. In the clinical setting, students demonstrate their knowledge in ethical situations, legal issues, evaluation of radiographic images and patient care situations.
RADI	200	Clinical Experience III	Department of Health Sciences: Radiography	RADI	3	Prerequisite	Additional Fee - see www.bucks.edu/fees RADI125 (B or better) and RADI130 (B or better) and RADI135 (B or better) and RADI140 (B or better)	Students are assigned to clinical areas and attend clinical education for 24 hours per week. In the clinical setting, students demonstrate their knowledge in ethical situations, legal issues, evaluation of radiographic images and patient care situations.

RADI	205	Radiographic Procedures III	Department of Health Sciences: Radiography	RADI	3	Prerequisite/ Corequisite	Additional Fee - see www.bucks.edu/fees Prerequisite: RADI200 (B or better) Corequisite: RADI210 and RADI215	Radiographic Procedures III is designed to provide the knowledge base necessary to perform radiographic procedures of the cranium, sinuses, facial bones, and contrast media studies. This course combines didactic coursework and laboratory simulation. The laboratory portion of the course gives students opportunity to practice and demonstrate their proficiency.
RADI	210	Advanced Imaging II	Department of Health Sciences: Radiography	RADI	3	Prerequisite/ Corequisite	Additional Fee - see www.bucks.edu/fees Prerequisite: RADI200 (B or better) Corequisite: RADI205 and RADI215	This course is a continuation of RADI135 and provides the student with a detailed understanding of various radiographic imaging techniques, procedures, and equipment. The major topics included are introduction to all modalities and introduction to cross-sectional anatomy.
RADI	215	Clinical Experience IV	Department of Health Sciences: Radiography	RADI	3	Prerequisite/ Corequisite	Prerequisite: RADI200 (B or better); Additional Fee - see www.bucks.edu/fees Corequisite: RADI205 and RADI210	Students will be assigned to clinical areas and attend clinical education for 24 hours per week. In the clinical setting, students will demonstrate their knowledge in ethical situations, legal issues, evaluation of radiographic images and patient care situations.
RADI	220	Registry Review	Department of Health Sciences: Radiography	RADI	2	Prerequisite/ Corequisite	Additional Fee - see www.bucks.edu/fees Prerequisites: RADI205 (B or better) and RADI210 (B or better) and RADI215 (B or better) Corequisite: RADI225 and RADI230 and RADI235	This course is designed to provide a review of all previously studied radiography course work in preparation for the ARRT examination.

RADI	225	Pathology	Department of Health Sciences: Radiography	RADI	2	Prerequisite/ Corequisite	Additional Fee - see www.bucks.edu/fees Prerequisites: RADI205 (B or better) and RADI210 (B or better) and RADI215 (B or better) Corequisites: RADI220 and RADI230 and RADI235	This course provides the student with an introduction to pathology related to medical-surgical diseases and injury. Diseases that are demonstrated using radiographic procedures are the primary focus. The various modalities used to demonstrate pathologies are also discussed.
RADI	230	Quality Assurance	Department of Health Sciences: Radiography	RADI	2	Prerequisite/ Corequisite	Additional Fee - see www.bucks.edu/fees Prerequisites: RADI205 (B or better) and RADI210 (B or better) and RADI215 (B or better) Corequisites: RADI220 and RADI225 and RADI235	This course provides the student with the effective and corrective measures to ensure production of high-quality radiographs. Applicable state, federal, and non-governmental regulations are also presented.
RADI	235	Clinical Experience V	Department of Health Sciences: Radiography	RADI	3	Prerequisite/ Corequisite	Additional Fee - see www.bucks.edu/fees Prerequisites: RADI205 (B or better) and RADI210 (B or better) and RADI215 (B or better) Corequisites: RADI220 and RADI225 and RADI230	Students will be assigned to clinical areas and attend clinical education for 24 hours per week. In the clinical setting, students will demonstrate their knowledge in ethical situations, legal issues, evaluation of radiographic images and patient care situations.
RADI	300	Patient Care in Computed Tomography	Department of Health Sciences: Radiography	RADI	3	Prerequisite	Admission to the Computed Tomography Program	This course provides the basic concepts of patient care as well as ethical and legal considerations, radiation protection and the responsibilities for protecting patients, public, and personnel. Students review basic concepts of venipuncture, administration of contrast and agents and

								discuss the appropriate delivery of patient care during contrast procedures.
RADI	301	Patient Care in MRI	Department of Health Sciences: Radiography	RADI	3	Prerequisite	Admission to the MRI program	This course provides the basic concepts of patient care as well as ethical and legal considerations. The screening, safety and application protocols for MRI Imaging are discussed. Students review basic concepts of venipuncture, administration of contrast and agents and discuss the appropriate delivery of patient care during contrast procedures.
RADI	305	Procedures in Computed Tomography	Department of Health Sciences: Radiography	RADI	3	Prerequisite	Admission to the Computed Tomography Program	This course focuses on computed tomography examination preparation, patient positioning, contrast media usage, patient education and safety as they pertain to the field of computed tomography. The scanning parameters, radiation dose reduction and positioning are discussed. Students review computed tomography images for pathology, anatomy, and quality.
RADI	306	Procedures in MRI	Department of Health Sciences: Radiography	RADI	3	Prerequisite	Admission to the MRI program	This course focuses on MRI examination preparation, patient positioning, protocol considerations, imaging planes, contrast media usage, patient education and safety as they pertain to the field of MRI. Students review MRI images for pathological considerations, quality, anatomy and physiology.
RADI	310	Computed Tomography Practicum I	Department of Health Sciences: Radiography	RADI	2	Prerequisite	Admission to the Computed Tomography Program	This course provides students with clinical education experience in computed tomography imaging and assists students in completing the American Registry of Radiologic Technologist' clinical education requirements for certification in computed tomography.

RADI	311	MRI Clinical Practicum I	Department of Health Sciences: Radiography	RADI	2	Prerequisite	Admission to the MRI program	This course provides students with clinical education experience in magnetic resonance imaging and assists students in achieving competency with the American Registry of Radiologic Technologist' clinical education requirements for certification in magnetic resonance imaging.
RADI	315	Cross-Sectional Anatomy in Medical Imaging	Department of Health Sciences: Radiography	RADI	3	Prerequisite	Admission to the Computed Tomography Program or the Magnetic Resonance Program	This course enhances the student's knowledge of cross-sectional human anatomy using computed tomographic and magnetic resonance images. Students study the anatomical sections of the extremities, thorax, pelvis, abdomen, spine, head and neck in the transaxial, sagittal, and coronal planes.
RADI	320	Physics Instrumentation in Computed Tomography	Department of Health Sciences: Radiography	RADI	3	Prerequisite	Admission to the Computed Tomography Program	This course focuses on the physics, theories, application, and instrumentation of computed tomography equipment. Students discuss quality control procedures and the appearance, prevention of computed tomography image artifacts and adjustment required for correction.
RADI	321	Physics Instrumentation in MRI	Department of Health Sciences: Radiography	RADI	3	Prerequisite	Admission to the MRI program	This course focuses on the physics, theories, application, and instrumentation of MRI equipment. Students discuss quality control procedures and the appearance, prevention of MRI image artifacts, and adjustment required for correction.
RADI	325	Computed Tomography Practicum II	Department of Health Sciences: Radiography	RADI	2	Prerequisite	RADI310; Admission to the Computed Tomography Program	This course provides students with clinical education experience in computed tomography imaging and assists students in completing the American Registry of Radiologic Technologist' clinical education requirements for certification in computed tomography.

RADI	326	MRI Clinical Practicum II	Department of Health Sciences: Radiography	RADI	2	Prerequisite	RADI311 (C or better); Admission to the MRI program	This course provides students with clinical education experience in magnetic resonance imaging and assists students in completing the American Registry of Radiologic Technologist' clinical education requirements for certification in magnetic resonance imaging.
READ	085	Reading Support Seminar	Department of Language & Literature: Reading	READ	1	Prerequisite	Permission of the Department of Language and Literature	The Reading Support Seminar directly supports the learning objectives of the linked reading and/or content course in which the student is concurrently enrolled. This seminar provides additional academic support and facilitates success in the linked course.
READ	087	Integrated Basic Reading and Writing	Department of Language & Literature: Reading	READ	6	Prerequisite	Reading Placement Test score of Level 1 or AESL103 (C or better) and Writing Placement Test score of 2 or AESL101 (C or better), or permission of the Department of Language and Literature.	Through themed readings, students apply, monitor and adjust a repertoire of reading strategies for improved comprehension and utilize the recursive writing process for composition organization and development. This introductory course develops the foundational literacy skills necessary for college success and prepares students for subsequent reading and composition courses.
READ	089	Fast Track Reading	Department of Language & Literature: Reading	READ	1	Prerequisite	Reading score of 1 or 2 or AESL103 (C or better) or permission of the Department of Language and Literature	Through the use of an individualized, web-based learning system and instructor guided group instruction, this course develops the reading competencies required for academic success. Emphasis is on the development of basic reading comprehension skills and the application of these skills and other strategies for increased reading proficiency.

READ	090	Introduction to College Reading	Department of Language & Literature: Reading	READ	3	Prerequisite	Reading placement test score of 1 or AESL103 (C or better) or permission of the Department of Language and Literature	This introductory course develops students' ability to apply, monitor and adjust a variety of reading strategies for increased comprehension and metacognitive awareness. The focus of this course is to develop the reading competencies necessary for success in college level courses.
READ	110	College Reading and Study Strategies	Department of Language & Literature: Reading	READ	3	Prerequisite	Reading placement test score of 2 or READ090 (C or better) or department approved assessment or permission of the Department of Language and Literature	This course develops and improves reading comprehension skills and learning strategies that will enhance academic performance across the curriculum. Emphasis is on the transfer and application of comprehension, critical thinking, and study strategies to college course material.
REAL	101	Real Estate Fundamentals	Department of Business and Innovation: Real Estate	REAL	2			This is a basic course designed to provide students with an overview of real estate practice in Pennsylvania. Students learn the language, principles, and laws governing the real estate profession, with an emphasis on land, property rights in realty and practices, and the laws governing conveyance of these rights.
REAL	102	Real Estate Practice and Liability	Department of Business and Innovation: Real Estate	REAL	3	Prerequisite	REAL101 (C or better)	This course will utilize a learning management space to supplement course materials. Successful completion of REAL101 Real Estate Fundamentals and REAL102 Real Estate Practice and Liability is required to sit for the Pennsylvania Real Estate Salesperson License Examination.
SCIE	101	Physical Science	Department of Science, Technology, Engineering & Mathematics: Science	SCIE	3	Prerequisite	Reading Placement Test score Level 3 or READ110 (C or better) or COMP108 (C or better); and Math Placement Test score of 5 or higher or MATH095 (C or better)	Physical Science provides an introduction to the phenomena of motion, force, energy, matter, sound, electricity, magnetism, and light. Students study nature's basic laws and how they govern human experience.

SCIE	102	Astronomy	Department of Science, Technology, Engineering & Mathematics: Science	SCIE	3	Prerequisite	Reading Placement Test score Level 3 or READ110 (C or better) or COMP108 (C or better); and Math Placement Test score of 5 or higher or MATH095 (C or better)	Astronomy provides a survey of our knowledge of the structure, formation and evolution of Earth, the solar system, the stars, and the galaxies. The course will focus on the logical development of ideas and concepts within the framework of science.
SCIE	103	Physical Geology	Department of Science, Technology, Engineering & Mathematics: Science	SCIE	4	Prerequisite	Reading Placement Test score Level 3 or READ110 (C or better) or COMP108 (C or better); and Math Placement Test score of 5 or higher or MATH095 (C or better) Additional Fee - see www.bucks.edu/fees .	This lecture and laboratory course introduces the basic principles and processes of geology. Emphasis is on a wide range of topics, including rocks and minerals, topographic maps, surface processes, hydrologic systems, plate tectonics, the earth's interior, and the application of entrepreneurial skills to assessment of a geologic or environmental hazard.
SCIE	104	Weather and Climate	Department of Science, Technology, Engineering & Mathematics: Science	SCIE	4	Prerequisite	Reading Level '3' or READ110 (C or better), COMP107 (C or better), COMP108 (C or better); Math Level 5 or higher or MATH095 (C or better)	This lecture and laboratory course investigates the principles and processes that govern weather and climate on Earth. Topics include the structure of the atmosphere, temperature, air pressure, wind, cloud types and cloud formation, precipitation, and storm formation, climate, and introduction to basic weather map interpretation and forecasting.
SCIE	105	Introduction to Environmental Science	Department of Science, Technology, Engineering & Mathematics: Science	SCIE	4	Prerequisite	None; Additional Fee - see www.bucks.edu/fees .	This lecture and laboratory course examines the history of environmental ethics, conservation movements, environmental policy and sustainable lifestyles. It covers basic ecological principles, especially as pertains to conservation, restoration, and resource management. Students study agricultural practices, waste management, and energy sources. Laboratory exercises require field trips and service learning.

SCIE	206	Fundamentals of GIS	Department of Science, Technology, Engineering & Mathematics: Science	SCIE	3	Prerequisite	CISC 110 (C or better)	This course teaches the theory and practical use of Geographic Information Systems (GIS). Topics include issues of data accuracy, map projections, scale, data collection, metadata, and data storage/management. GIS analysis techniques, data display options, and cartography are also covered. Students use current GIS software in laboratory exercises.
SOCI	110	Introduction to Sociology	Department of Social & Behavioral Science: Sociology	SOCI	3			This course is an introduction to the basic concepts in the field of sociology, with emphasis upon the application of these concepts to the understanding of American institutions: politics, economics, religion, education, marriage, and the family.
SOCI	120	Introduction to Cultural Anthropology	Department of Social & Behavioral Science: Sociology	SOCI	3			This course explores human culture worldwide, including cultural elements and systems, diversity and cross-cultural interactions, and cultural change. It covers concepts essential to the discipline of cultural anthropology, such as holism, fieldwork, and environmental adaptation. Course topics include worldview, domestic groups, kinship, gender, power structures, economics, religion, and artistic expression.
SOCI	140	Peoples of America	Department of Social & Behavioral Science: Sociology	SOCI	3			This course explores systems of oppression and liberation related to racial and ethnic minorities, immigrants, gender outlaws, sexual minorities, and other marginalized groups in U.S. society. Attention is on past and present status of these groups as it relates to an understanding of intergroup dynamics in today's society.

SOCI	143	Introduction to Queer Studies	Department of Social & Behavioral Science: Sociology	SOCI	3			In this course, students explore historical and contemporary ways that gender and sexuality have been regulated by cultural norms and social institutions. Students examine how homophobia and transphobia are inextricably linked to racism, sexism, and other forms of oppression. Students analyze Lesbian, Gay, Bisexual, Transgender, and Queer political movements.
SOCI	150	Criminology	Department of Social & Behavioral Science: Sociology	SOCI	3			The sociological relationships involved in the causes and prevention of crime and juvenile delinquency and in the treatment of criminal offenders.
SOCI	160	Marriage & the Family	Department of Social & Behavioral Science: Sociology	SOCI	3			This course examines the institution of marriage and the family through history and across cultures with emphasis on the contemporary family. Topics, such as the changing family, love, mate selection, marital communication, divorce, gender roles, and domestic violence are studied.
SOCI	230	Contemporary Social Problems	Department of Social & Behavioral Science: Sociology	SOCI	3	Prerequisite	SOCI110 (C or better)	Students examine and analyze complex contemporary social problems. The major topics include the application of sociological theory to local, national, and international social problems, including the environment, poverty, crime, violence, drug abuse, and inequality. Students prepare and present an original research project that includes research design, data analysis, and interpretation.

SOCI	230	Contemporary Social Problems	Department of Social & Behavioral Science: Sociology	SOCI	3	Prerequisite	COMP110 (C or better)	Students examine and analyze complex contemporary social problems. The major topics include the application of sociological theory to local, national, and international social problems, including the environment, poverty, crime, violence, drug abuse, and inequality. Students prepare and present an original research project that includes research design, data analysis, and interpretation.
SOCI	110H	Introduction to Sociology – Honors section	Department of Social & Behavioral Science: Sociology	SOCI	3	Prerequisite	Admission to the Honors@Bucks program	This course is an introduction to the basic concepts in the field of sociology, with emphasis upon the application of these concepts to the understanding of American institutions: politics, economics, religion, education, marriage, and the family.
SOCI	110P	Introduction to Sociology	Department of Social & Behavioral Science: Sociology	SOCI	3	Corequisite	Must be taken with 'Paired' READ-110 section	This course is an introduction to the basic concepts in the field of sociology, with emphasis upon the application of these concepts to the understanding of American institutions: politics, economics, religion, education, marriage, and the family.
SPAN	110	Elementary Spanish I	Department of Language & Literature: Spanish	SPAN	3			This is an interactive course in which students acquire a basic knowledge of understanding, speaking, reading, and writing Spanish. Oral proficiency, listening, comprehension, and grammatical accuracy are all stressed. Cultural background accompanies each chapter.

SPAN	111	Elementary Spanish II	Department of Language & Literature: Spanish	SPAN	3	Prerequisite	SPAN110 (C or better) or permission of the Department of Language and Literature	This interactive course builds on the instruction from SPAN110; students continue to acquire a basic knowledge of understanding, speaking, reading, and writing Spanish. Oral proficiency, listening, comprehension, and grammatical accuracy are all stressed. Cultural background accompanies each chapter.
SPAN	201	Intermediate Spanish I	Department of Language & Literature: Spanish	SPAN	3	Prerequisite	SPAN111 (C or better) or permission of the Department of Language and Literature	This course, which further develops skills introduced in SPAN111, reviews basic essentials of vocabulary and grammatical constructions and presents some constructions not yet studied. The course also provides material for a solid foundation in conversation and composition. Emphasis is placed on knowledge and appreciation of the culture of Spanish-speaking countries.
SPAN	202	Intermediate Spanish II	Department of Language & Literature: Spanish	SPAN	3	Prerequisite	SPAN201 (C or better) or permission of the Department of Language and Literature	A continuation of SPAN201, this course reviews more basic essentials of vocabulary and grammatical constructions and presents constructions not yet studied. The course provides additional material for a solid foundation in conversation and composition. Emphasis continues to be placed on knowledge and appreciation of the cultural backgrounds of Spanish-speaking countries.
SPAN	250	Advanced Spanish I	Department of Language & Literature: Spanish	SPAN	3	Prerequisite	SPAN202 (C or better) or permission of the Department of Language and Literature	This continuation of the work from the Intermediate sequence focuses on discussion of selected cultural readings, periodical articles, etc., to instill a greater mastery of spoken and written Spanish. This course also addresses advanced language skills and a deeper understanding of the Spanish-speaking countries.

SPAN	251	Advanced Spanish II	Department of Language & Literature: Spanish	SPAN	3	Prerequisite	SPAN250 (C or better) or permission of the Department of Language and Literature	In this continuation of work from SPAN250, students discuss selected cultural readings, newspaper and magazine articles, etc., in order to acquire a greater mastery of spoken and written Spanish. This course also addresses advanced language skills and a deeper understanding of the Spanish-speaking countries.
SPMT	200	Introduction to Sport Management	Department of Kinesiology and Sport Studies: Sport Management	SPMT	3			This course is an analysis of effective management strategies and the body of knowledge associated with pursuing a career in sport management. The course introduces the student to sport management career opportunities in the sport industry and to sport principles as they apply to management, leadership style, communication, motivation and entrepreneurship.
SPMT	201	Sport Marketing	Department of Kinesiology and Sport Studies: Sport Management	SPMT	3			This course is an analysis of effective management strategies and the body of knowledge associated with pursuing a career in sport management. The course will introduce students to the sport management career opportunities in the sport industry and sport principles as they apply to management, marketing, leadership style, communication, and motivation.
SPMT	202	Facility Management & Event Planning	Department of Kinesiology and Sport Studies: Sport Management	SPMT	3			This course analyzes effective management strategies and knowledge associated with pursuing a career in sport management. It will introduce students to the sport management career opportunities in the sport industry and to sport principles as they apply to facility management and event planning,

								leadership style, communication, and motivation.
SPMT	203	History and Philosophy of Sports	Department of Kinesiology and Sport Studies: Sport Management	SPMT	3			This course is a survey of the philosophy and historical development of sport. The course will examine the major philosophical and historical schools of thought in sport and trace the development of competitive sport from ancient civilizations to the present.
SPMT	204	Sport and Society	Department of Kinesiology and Sport Studies: Sport Management	SPMT	3			This course explores the sociological aspects of sport. Students study research and theory used to explain the relationship between sport and society in the areas of socialization, children, violence, gender, race, social class, economy, media, politics, religion and future trends in sports.
SPMT	280	Cooperative Education, Sport Management	Department of Kinesiology and Sport Studies: Sport Management	SPMT	3	Prerequisite	Written department permission	The student is required to perform 180 hours of internship at an affiliated training site. An attempt is made to match sites to the intern's professional interests and career goals. Periodic meetings between the College Coordinator and the student are held to review actual experience and observation.
SSWK	110	Introduction to Social Work and Social Welfare	Department of Social & Behavioral Science: Social Work	SSWK	3			This course provides an overview of the historical, economic, and political foundations of social work and social welfare. Emphasis is on the structure and functions of the social welfare delivery system. Students examine core concepts, theories, skills, values, and ethics in the field of social work.

SSWK	215	Loss and Grief	Department of Social & Behavioral Science: Social Work	SSWK	3			In this course, students examine the dynamics of loss and grief. Students explore cultural variations and societal attitudes about death, loss, and bereavement. Students apply core concepts, theories, and counseling skills related to loss and grief.
SSWK	220	Social Work: Interviewing, Assessment and Referral	Department of Social & Behavioral Science: Social Work	SSWK	3	Prerequisite	SSWK110 (C or better)	Students apply core concepts, theories, values and ethics of social work to interviewing, assessment, and referral. Students apply direct skills including basic listening, empathy, focusing, confrontation, directives, feedback, and self-interpretation. Emphasis is on practicing professional values that guide practice.
SSWK	230	Intervention Strategies	Department of Social & Behavioral Science: Social Work	SSWK	2			Being proactive in response to alcohol and drug abuse is the focus of this course. Students will learn to define intervention, identify key steps, and become aware of the legal and ethical issues relevant to interventions.
VACV	130	Media Scriptwriting	Department of Arts and Communication: Cinema/Video Production	VACV	3	Prerequisite/ Corequisite	Writing Placement Test score of 6 or better; or COMP107 (C or better)	This course introduces students to the fundamentals of writing and critiquing scripts for various media. Students write, edit and pitch original material. Students critique their own work and the work of other writers.
VACV	135	Video Studio Production I	Department of Arts and Communication: Cinema/Video Production	VACV	3	Prerequisite	Additional Fee - see www.bucks.edu/fees .	This course introduces students to the equipment and techniques of video studio production from planning through scripting to taping. A series of exercises and individual projects provide a foundation for personal expression in various video formats.

VACV	137	Sound Design for Film & Video	Department of Arts and Communication: Cinema/Video Production	VACV	3	Prerequisite	Additional Fee - see www.bucks.edu/fees .	This course covers the fundamental elements of producing, designing, and editing sound for film/video. Students learn the basics of audio recording, sound editing, and multi-track sound design specifically for the moving image. Topics covered include microphone techniques, field and studio recording, Foley techniques, and using digital audio multi-tracking software.
VACV	140	Digital Video Editing	Department of Arts and Communication: Cinema/Video Production	VACV	3	Prerequisite	Additional Fee - see www.bucks.edu/fees .	This course covers digital editing using current software tools. Students work with digital non-linear editing hardware and software tools, multi-track audio creation and sound sweetening. Students work with either their own footage or with exercise footage prepared by the instructor.
VACV	141	Art of Independent Cinema	Department of Arts and Communication: Cinema/Video Production	VACV	3	Prerequisite	Writing score of 6 or better or COMP107 or COMP108 (C or better)	Students examine films made outside of the film industry, which fall into three genres - experimental, documentary, and animated. Particular emphasis is given to form and technique and how they are used to express meaning. The course traces the development of alternative cinema from its beginnings to the present.
VACV	142	Art of Theatrical Cinema	Department of Arts and Communication: Cinema/Video Production	VACV	3	Prerequisite	Writing score of 6 or better or COMP107 or COMP108 (C or better)	Students examine the art and craft of the narrative cinema as it has developed from the beginning of film history to the present. Feature films are analyzed for their visual and story elements as well as their historic, cultural, religious, political and economic context.

VACV	145	Filmmaking	Department of Arts and Communication: Cinema/Video Production	VACV	3		Additional Fee - see www.bucks.edu/fees .	This course introduces the equipment, techniques, and the art of filmmaking. Through a series of exercises and projects, students explore the basic processes of motion picture production from planning and filming to editing and incorporation of sound.
VACV	230	Motion Graphics	Department of Arts and Communication: Cinema/Video Production	VACV	3	Prerequisite	VACV-140 or VAMM-100 (C or better); Additional Fee - see www.bucks.edu/fees .	Students learn the essential elements of motion graphics and visual effects creation through the use of industry standard software programs. This course provides students with the essential skills of compositing and creating post processing effects for a wide range of media including video, animation, gaming and the web.
VACV	231	Video Field Production	Department of Arts and Communication: Cinema/Video Production	VACV	3	Prerequisite	VACV-140 (C or better); Additional Fee - see www.bucks.edu/fees .	Students practice single-camera, on-location, digital video-tape recording, and post-production, non-linear video editing. Students plan the location of shoots, practice storyboarding and scripting, and operate digital video cameras, microphones, lights and tripods.
VACV	238	Cinematography	Department of Arts and Communication: Cinema/Video Production	VACV	3	Prerequisite	VACV231 and VACV140 (C or better in both); Additional Fee - see www.bucks.edu/fees .	Students research and explore the art of visual storytelling through published works and hands-on lighting and cinematography techniques for both studio and field projects. Students learn creative composition through lighting, camera techniques, and color manipulation to convey their message.

VACV	280	Cooperative Education: Media	Department of Arts and Communication: Cinema/Video Production	VACV	3	Prerequisite	Permission of the Arts Department	This course provides on-the-job experience in a cinema video/multimedia field directly related to students' academic preparation and career objectives. Periodic meetings between faculty coordinator and students are held to ensure students' progress. Students maintain a work journal and complete a final report summarizing the learning experience.
VAFA	100	Drawing I	Department of Arts and Communication: Visual Arts	VAFA	3			This is an introduction to the concepts and techniques of drawing. The course stresses disciplined draftsmanship. Students analyze the structure and appearance of natural forms. Relying on their perception, observation, and memory, they apply basic drawing skills. Black and white media are utilized to explore space, value, and volume.
VAFA	101	2D Design Fundamentals	Department of Arts and Communication: Visual Arts	VAFA	3		Additional Fee - see www.bucks.edu/fees .	This course introduces students to abstract and representational two-dimensional design concepts. Projects emphasize creativity, conceptualization, problem solving, skill building, expression, execution, teamwork, research techniques, and presentation. Black, white and gray media serve as the basis for learning the vocabulary, concepts and principles of two-dimensional design.
VAFA	102	3D Design Fundamentals	Department of Arts and Communication: Visual Arts	VAFA	3		Additional Fee - see www.bucks.edu/fees .	This foundation course covers the elements and principles of three-dimensional form in space and lays the groundwork for future 3-D courses. The materials employed introduce basic technical skills, and conceptual approaches are emphasized. The relationship between two- and three-dimensional thinking is stressed.

VAFA	103	Drawing II	Department of Arts and Communication: Visual Arts	VAFA	3	Prerequisite	VAFA100 (C or better) or permission of the Arts Department; Additional Fee - see www.bucks.edu/fees .	This course analyzes the systems of perspective, spatial illusions, flat planes, composition, and examines the elements of the structural arrangements of form and space. The approaches of both Western and non-Western cultures are appraised. Students practice appropriate drawing techniques and work with various media.
VAFA	104	2-D Design Color	Department of Arts and Communication: Visual Arts	VAFA	3	Prerequisite	VAFA101 (C or better) or permission of the Arts Department; Additional Fee - see www.bucks.edu/fees .	Students learn basic color concepts including theory, perception, chromatic relationships, phenomena, terminology, physics, psychology and harmony. Projects emphasize perception, creativity, conceptualization, problem solving, skill building, expression, execution, teamwork, research techniques, and presentation. Work in paper and pigment serves as the basis for learning the principles of color.
VAFA	105	3-D Design Materials/Modeling	Department of Arts and Communication: Visual Arts	VAFA	3	Prerequisite	VAFA102 or permission of the Arts Department; Additional Fee - see www.bucks.edu/fees .	This course combines the study and examination of process-based forms and figurative based-forms. Students are introduced to drawing and modeling the human body. Students are introduced to various tools, materials, and techniques in the application of design to tactile forms in space.
VAFA	107	Introduction to Jewelry and Metalsmithing	Department of Arts and Communication: Jewelry	VAFA	3		Additional Fee - see www.bucks.edu/fees .	Students are introduced to the basic techniques necessary for the design and fabrication of jewelry and small three-dimensional metal forms. This course is the foundation for further exploration into jewelry design and metalsmithing as a vehicle for self-expression.

VAFA	108	Jewelry II	Department of Arts and Communication: Jewelry	VAFA	3	Prerequisite	ARTS107 or VAFA107; Additional Fee - see www.bucks.edu/fees .	This course emphasizes the refinement of technical skills necessary to fabricate complex design concepts. Students explore various methods and materials which are incorporated into the design and construction of several major works.
VAFA	111	Drawing Basics	Department of Arts and Communication: Visual Arts	VAFA	3		Additional Fee - see www.bucks.edu/fees .	This course introduces and reinforces preliminary skills related to basic drawing concepts. The course comprehends three major units: (1) Simple shapes and Proportions; (2) Measuring and Perspective; and (3) Light and Composition. Students improve their concentration in a studio setting and develop essential skills related to drawing structural forms.
VAFA	141	Introduction to Sculpture	Department of Arts and Communication: Sculpture	VAFA	3		Additional Fee - see www.bucks.edu/fees .	This course introduces basic sculpture techniques, such as carving, casting, modeling, and welding, with emphasis on understanding issues of line, plane, shape, and volume. Plaster, metal, clay, and wood are utilized to help the student understand the form and content of sculpture. Historical sculpture topics supplement this course.
VAFA	147	Introduction to Glassblowing	Department of Arts and Communication: Glassblowing and Stained Glass	VAFA	3			Students are introduced to basic studio techniques of forming molten glass through the use of various tools, equipment, and processes. They are introduced to basic technical skills required for the production of glass objects, and to aesthetic sensitivity for the material. Studio procedures, including maintenance, safety, and construction are covered.

VAFA	148	Glassblowing II	Department of Arts and Communication: Glassblowing and Stained Glass	VAFA	3	Prerequisite	VAFA147; Additional Fee - see www.bucks.edu/fees .	This course advances the processes and concepts in the forming of molten glass through the use of various tools and equipment. Students in this class are expected to have basic knowledge of studio operation and glassblowing techniques.
VAFA	160	Introduction to Printmaking	Department of Arts and Communication: Printmaking	VAFA	3		Additional Fee - see www.bucks.edu/fees .	Students explore a wide variety of printmaking processes, including intaglio, relief, color reduction printing and monoprinting. Students focus on the comprehension of techniques and materials and their relationship to the printed image and visual concepts.
VAFA	161	Screenprinting	Department of Arts and Communication: Printmaking	VAFA	3		Additional Fee - see www.bucks.edu/fees .	Students employ screenprinting processes using water-based inks. They explore a variety of techniques, including photo silkscreen, cut paper stencils, direct drawing techniques, color registration, and textile printing. Students also incorporate digital technology to better understand these techniques and develop their individual imagery.
VAFA	171	Introduction to Painting	Department of Arts and Communication: Painting	VAFA	3		VAFA100 (or ARTF100) recommended but not required; Additional Fee - see www.bucks.edu/fees .	This course introduces and explores various problems in painting often seen in the work of beginners, but also students with some experience. The medium is determined by the instructor. Students paint from models, still life, landscape, and imagination.
VAFA	181	Introduction to Ceramics	Department of Arts and Communication: Ceramics	VAFA	3		Additional Fee - see www.bucks.edu/fees .	Lectures, demonstrations, and practice introduce students to the historical, cultural, scientific, creative, and expressive basis of ceramics. Developing a personal viewpoint as an outgrowth of the ceramic process is encouraged by emphasizing historical perspectives,

								design, basic pottery skills, and exploration.
VAFA	191	Art History Before 1450 A.D.	Department of Arts and Communication: Art History	VAFA	3	Prerequisite	Writing score of 6 or better or COMP107 or COMP108 (C or better)	This survey course covers painting, sculpture, and/or architecture from the Paleolithic period through the age of Gothic cathedrals. Students gain a formal understanding of ancient, classical, and medieval art. They interpret selected examples of Western art using a variety of analytic methodologies, including cultural, religious, social, political, and/or economic context.
VAFA	192	Art History After 1450 A.D.	Department of Arts and Communication: Art History	VAFA	3	Prerequisite	Writing score of 6 or better or COMP107 or COMP108 (C or better)	This survey course covers painting, sculpture, and/or architecture from the Renaissance through Impressionism. Students gain a formal understanding of Western art by major artists of the fifteenth through nineteenth centuries. They interpret selected examples of art using a variety of analytic methodologies, including cultural, religious, social, political, and/or economic context.
VAFA	193	History of Modern Art	Department of Arts and Communication: Art History	VAFA	3	Prerequisite	Writing score of 6 or better or COMP107 or COMP108 (C or better)	This survey course covers painting, sculpture, and/or architecture from the late-nineteenth century up to the present. Students gain a formal understanding of major twentieth-century stylistic movements. They interpret selected examples of Modern art using a variety of analytic methodologies, including cultural, religious, social, political, and/or economic context.

VAFA	194	American Art History	Department of Arts and Communication: Art History	VAFA	3	Prerequisite	Writing score of 6 or better or COMP107 or COMP108 (C or better)	This survey course covers the history of American painting, sculpture, architecture, photography, and other significant arts and crafts from the settlement period to the present. Students gain a formal understanding of American art. Students examine American art from cultural, social, and economic perspectives.
VAFA	195	Non-Western Art History	Department of Arts and Communication: Art History	VAFA	3	Prerequisite	Writing score of 6 or better or COMP107 or COMP108 (C or better)	This course surveys the art and architecture of India, China, and Japan, from the earliest times to the 19th century. Indian art is presented in the context of Buddhist, Hindu, and Islamic traditions. Relationships between Chinese and Japanese art are examined. Influence in Islamic and Western culture is also explored.
VAFA	200	Drawing Anatomy	Department of Arts and Communication: Drawing: Second Year	VAFA	3	Prerequisite	VAFA103 (C or better); Additional Fee - see www.bucks.edu/fees .	Through drawing, students study the design and function of the figure. The proportions and architecture of the human form are analyzed. Insight into the construction of the body is achieved through skeletal and muscular studies and conceptual applications of 3-D form. A selection of masterworks is emulated.
VAFA	202	Figure Drawing	Department of Arts and Communication: Drawing: Second Year	VAFA	3	Prerequisite	VAFA103 (C or better) or permission of the Arts Department; Additional Fee - see www.bucks.edu/fees .	Students integrate and review the drawing experiences of the previous drawing classes. The figure is expressed within complex situations dealing with spatial concepts and composition through extended problems. These exercises encompass relationships to interior spaces, landscape, and still life situations.

VAFA	246	Sculpture/ Foundry	Department of Arts and Communication: Sculpture	VAFA	3	Prerequisite	VAFA141 or VAFA105 (C or better); Additional Fee - see www.bucks.edu/fees .	This advanced course emphasizes foundry practices. Initial work is done in foundry wax or Styrofoam. Topics covered are procedures in ceramic shell or investment and burnout of wax preparatory to casting in metal. Basic foundry procedures are followed and studied. Finish and treatment of metal castings are also explored.
VAFA	250	Fine Arts & Design Portfolio Studio	Department of Arts and Communication: Portfolio Studios	VAFA	3	Prerequisite	24 studio credits and either VAFA191 (C or better), VAFA192 (C or better), or VAFA193 (C or better) or permission of the Arts Department; Additional Fee - see www.bucks.edu/fees .	Students develop and enhance their fine arts and design portfolio for transfer or employment. Also, students prepare and deliver an informative speech describing their work using appropriate vocabulary and/or historical references. Finally, students engage in class critiques of their work and the work of other students.
VAFA	260	Printmaking II	Department of Arts and Communication: Printmaking	VAFA	3	Prerequisite	VAFA160 or ARTS160; Additional Fee - see www.bucks.edu/fees .	This course is a continuation of the Introduction to Printmaking class. Students add to their knowledge of intaglio and relief printmaking processes through the exploration of intermediate-level technical skills. Students develop their own imagery and investigate printmaking as a means of creative expression.
VAFA	271	Painting II	Department of Arts and Communication: Painting	VAFA	3	Prerequisite	VAFA171 or ARTS171; Additional Fee - see www.bucks.edu/fees .	This course is a continuation of Introduction to Painting. Students work from the traditional subject matter with the emphasis upon development of individual concepts and imaginative statements. Students also develop aesthetic values and quantitative judgment in terms of creative painting and critical appraisal of any artwork.

Vafa	282	Ceramics II	Department of Arts and Communication: Ceramics	Vafa	3	Prerequisite	Vafa181 or ARTS181; Additional Fee - see www.bucks.edu/fees .	Emphasis is placed on developing a consistent body of work stressing wheel work and hand building. Laboratory and practical study of clays and glazes are explored. Slide presentations, lecture, and demonstrations expose students to the history of world ceramics and current techniques used by today's ceramic artists and industry.
VAFW	100	Fine Woodworking Fundamentals	Department of Arts and Communication: Woodworking	VAFW	3		Additional Fee - see www.bucks.edu/fees .	This studio course focuses on structural, functional, and sculptural properties of wood, together with the traditional studio techniques of professional woodworkers. Emphasis is on a variety of design approaches, the execution of working drawings, and completing wood projects.
VAFW	133	Woodcarving Furniture	Department of Arts and Communication: Woodworking	VAFW	3		Additional Fee - see www.bucks.edu/fees .	This studio course focuses on the creation of well-crafted functional and sculptural carved wood objects. Students explore low and high relief, 3-dimensional forms, figurative and decorative subjects, tool use and care to develop their carving skills and creative expression.
VAFW	136	Bending and Veneering	Department of Arts and Communication: Woodworking	VAFW	3	Prerequisite	VAFW100 (C or better); Additional Fee - see www.bucks.edu/fees .	This studio course focuses on design, drawing, and execution of curved forms and laminating techniques. Students employ bending and veneering techniques in the design and construction of a piece of furniture. Emphasis is on a variety of joinery, bending, and veneering techniques.
VAFW	137	Chair Construction	Department of Arts and Communication: Woodworking	VAFW	3	Prerequisite	VAFW100 or department permission; Additional Fee - see www.bucks.edu/fees .	This comprehensive course covers the structural, design, and historical basis of good seating devices. Students learn to develop designs and construct models and finished pieces, using classical and contemporary guidelines that satisfy

								functional requirements and reflect personal creativity.
VAFW	138	Table Systems	Department of Arts and Communication: Woodworking	VAFW	3	Prerequisite	VAFW100 (C or better); Additional Fee - see www.bucks.edu/fees .	This studio course focuses on table design and construction. Students study classical and contemporary shapes and employ construction techniques. Students explore the relationship of structural issues and design.
VAFW	140	Cabinetmaking	Department of Arts and Communication: Woodworking	VAFW	3	Prerequisite/ Corequisite	VAFW100; Additional Fee - see www.bucks.edu/fees .	This studio course focuses on the design, construction, and joinery requirements necessary in cabinet construction when using sheet goods for both free-standing and built-in applications. Students work with a variety of materials, including plywood and composite boards.
VAFW	145	Conceptual Furniture	Department of Arts and Communication: Woodworking	VAFW	3	Prerequisite	VAFW100 or VAFW102 (C or better); Additional Fee - see www.bucks.edu/fees .	This course focuses on designing and creating conceptually-based furniture. Students create functional furniture through the process of exploring ideas, construction methods, and finishes.
VAFW	180	Woodturning	Department of Arts and Communication: Woodworking	VAFW	3		Additional Fee - see www.bucks.edu/fees .	This studio course explores the historical and contemporary basics of lathe work. This course investigates both spindle (between center) and bowl (faceplate) turning techniques. Students learn how to care for, sharpen, and use a variety of lathe tools. Students design and make a variety of lathe-turned objects.
VAFW	181	Woodturning II	Department of Arts and Communication: Woodworking	VAFW	3	Prerequisite	VAFW180 (C or better); Additional Fee - see www.bucks.edu/fees .	This course provides an in-depth exploration of lathe turning in the traditional, as well as the contemporary context. Multi-axis spindle turning, split turning, and turning in conjunction with processes off the lathe, including carving, shaping, surface ornamentation, and joinery are used to create sculptural and functional items.

VAFW	190	History of American Furniture	Department of Arts and Communication: Woodworking	VAFW	3	Prerequisite	Writing score of 6 or better or COMP107 or COMP108 (C or better)	Students analyze American furniture in the context of craft, elements of style, connoisseurship, historical influences, connections to European and Eastern traditions, socio-economics, regionalism, pattern books, and related domestic architecture.
VAFW	280	Cooperative Education: Fine Woodworking	Department of Arts and Communication: Woodworking	VAFW	3	Prerequisite	Permission of the Arts Department	On-the-job experience occurs in a field directly related to the student's academic preparation and career objectives. Periodic meetings between the College Coordinator and the student are held to evaluate the student's performance.
VAGD	101	Layout and Typography	Department of Arts and Communication: Graphic Design and Illustration	VAGD	3	Prerequisite	VAMM100 (C or better); Additional Fee - see www.bucks.edu/fees .	Using manual methods for layout and design, together with current software applications, students explore the relationship between text and image, as well as the design and impact of typography. Students analyze a variety of published materials and complete a series of introductory graphic design projects.
VAGD	102	Illustration: Drawing and Digital	Department of Arts and Communication: Graphic Design and Illustration	VAGD	3	Prerequisite	VAMM100 (C or better); Additional Fee - see www.bucks.edu/fees .	This course introduces drawing strategies, concepts, and specialized illustration techniques used by designers and illustrators. Students create illustrations in both traditional and digital formats. Emphasis is on realistic modeling approaches and rendering skills, as well as expressive and historical perspectives that an illustrator-designer must have.

VAGD	190	Graphic Design History	Department of Arts and Communication: Graphic Design and Illustration	VAGD	3	Prerequisites	Writing Placement Test score of 6 or better or COMP107 (C or better)	This graphic design survey course covers visual communication since the Middle Ages, focusing on the period from the Arts & Crafts Movement through Postmodernism. Students gain a formal understanding, and they interpret selected examples using a variety of analytic methodologies, including cultural, religious, social, political, and/or economic context.
VAGD	201	Graphic Design	Department of Arts and Communication: Graphic Design and Illustration	VAGD	3	Prerequisite	VAGD101 (C or better); Additional Fee - see www.bucks.edu/fees .	Working from concept to finished artwork, students develop methods and strategies for producing effective graphic design solutions. Formal and practical design concepts, skills, and essential digital applications are covered. Presentation of visual ideas, design principles, typography, prepress and commercial printing technology, and advanced graphic design processes are explored.
VAGD	201	Graphic Design	Department of Arts and Communication: Graphic Design and Illustration	VAGD	3	Prerequisite	VAMM100 (C or better)	Working from concept to finished artwork, students develop methods and strategies for producing effective graphic design solutions. Formal and practical design concepts, skills, and essential digital applications are covered. Presentation of visual ideas, design principles, typography, prepress and commercial printing technology, and advanced graphic design processes are explored.
VAGD	280	Cooperative Education: Graphic Design	Department of Arts and Communication: Graphic Design and Illustration	VAGD	3	Prerequisite	30 credits in a studio art major or permission of the Arts Department	On-the-job experience occurs in a field directly related to the student's academic preparation and career objectives. Periodic meetings between the College faculty coordinator and the student are held to ensure the student is making adequate progress. Students maintain a

								work journal and complete a final report summarizing the learning experience.
VAMM	100	Digital Imaging	Department of Arts and Communication: Multimedia and Web Design	VAMM	3		Additional Fee - see www.bucks.edu/fees .	This studio course presents in-depth techniques for image creation and manipulation using current software applications. Peripherals, file formats, resolution requirements, media storage, and digital photo processing are explored. Emphasis is on image-making methods used to create raster and vector graphics for print and the web.
VAMM	110	Web & Interactive Design	Department of Arts and Communication: Multimedia and Web Design	VAMM	3	Prerequisite/ Corequisite	VAMM100 or CISC110; Additional Fee - see www.bucks.edu/fees .	This course is an introduction to the XHTML coding and techniques used to create websites. Students learn to design and develop interactive websites using both editors and hand coding skills. Project management and design skills are introduced. The semester culminates in the development of a website.
VAMM	120	Interface Design	Department of Arts and Communication: Multimedia and Web Design	VAMM	3			The theoretical foundation needed to design user interfaces for digital projects are established. Topics discussed include human computer interaction, current trends, and basic methods for design, as well as project management techniques. Software is used to create the menus and navigation systems needed.
VAMM	130	3D Modeling Concepts	Department of Arts and Communication: Multimedia and Web Design	VAMM	3		Additional Fee - see www.bucks.edu/fees .	Three-dimensional concepts and design techniques are presented through lecture and demonstration. The student, through studio experience, uses these concepts to design and create a digital 3-D environment. Current animation and graphic software are used in this class.

VAMM	209	Multimedia Concepts I	Department of Arts and Communication: Multimedia and Web Design	VAMM	3	Prerequisite	VAMM-100 (C or better) or permission of Arts Department; Additional Fee - see www.bucks.edu/fees .	Through lecture and studio work, students create multimedia projects. Students import or create video clips, sound bytes, still imagery, and copy; to produce a digital multimedia project. Graphic editing, video editing, and animation applications are used in this course.
VAMM	230	3D Animation	Department of Arts and Communication: Multimedia and Web Design	VAMM	3	Prerequisite	VAMM130 (C or better) or permission of the Arts Department; Additional Fee - see www.bucks.edu/fees .	Three-dimensional animation techniques are presented through lecture and demonstration. Students build on the concepts of 3-D modeling to expand their project to include motion scripting of fully mapped and lighted scenes. Animation and graphic editing applications are used in the course.
VAMM	250	Digital Arts Portfolio Studio	Department of Arts and Communication: Portfolio Studios	VAMM	3	Prerequisite	24 studio credits or permission of the Arts Department	Students develop and enhance their portfolio for transfer, employment or entrepreneurial pursuits. Students prepare and deliver an informative speech describing their work using appropriate vocabulary and/or historical references. Students engage in class critiques of their work and the work of other students.
VAPH	110	Digital Photo Fundamentals	Department of Arts and Communication: Photography	VAPH	3		Additional Fee - see www.bucks.edu/fees .	Students are introduced to digital-based photographic imagery. The course examines the potential inherent in the methods, techniques, and applications of digital photography as a means of personal expression. Students produce a portfolio of images for presentation.
VAPH	151	Darkroom Photography I	Department of Arts and Communication: Photography	VAPH	3		Additional Fee - see www.bucks.edu/fees .	Students learn the basic photographic processes, from making an exposure to making a final print. Students use the camera and darkroom techniques in black and white still photography to explore the visual world. The course is designed to treat photography as a medium of personal expression.

VAPH	157	Photo II	Department of Arts and Communication: Photography	VAPH	3	Prerequisite	VAFA151 or VAPH151 (C or better); Additional Fee - see www.bucks.edu/fees .	This course emphasizes the development of a critical eye and the use of photography as a form of self-expression and an artistic medium. Students are expected to have a working knowledge of the photographic process. Students produce photographs as fine art and refine advanced technical and printing techniques.
VAPH	196	History of Photography	Department of Arts and Communication: Photography	VAPH	3	Prerequisite	Writing score of 6 or better or COMP107 or COMP108 (C or better)	This survey course covers the history of photography from its invention in 1839 to the present day. Specific artists, movements, and technical histories will be explored, together with some of the relationships between photography and aesthetics, culture, and social history.
VAPH	210	Digital Photography II	Department of Arts and Communication: Photography	VAPH	3	Prerequisite	VAPH110 (C or better); Additional Fee - see www.bucks.edu/fees .	Students will continue to explore the potential of digital photographic imagery and will concentrate on advanced image editing methods. A central aim of the course will be creating a portfolio of high-quality printed images. The course will additionally emphasize the use of photography as an artistic medium.
VAPH	211	Studio and Lighting Fundamentals	Department of Arts and Communication: Photography	VAPH	3	Prerequisite	VAFA110 or both VAFA151 and VAMM100; Additional Fee - see www.bucks.edu/fees .	Students will be introduced to the fundamentals of photographic lighting. Tungsten, strobe, daylight, and an array of light shaping tools will be explored in an effort to further refine their photographic imagery. A central aim of the course will be the creation of a portfolio of high-quality, digital images.

VAPH	257	Large Format Photography	Department of Arts and Communication: Photography	VAPH	3	Prerequisite	VAFA151 or VAPH151 (C or better); Additional Fee - see www.bucks.edu/fees .	This course introduces students to the operation and current practices associated with view cameras. Students learn about lens selection, the use of camera swings and tilts, and processing procedures for sheet film. Students produce images in both the traditional darkroom and the digital lab.
WMST	110	Introduction to Gender Studies	Department of Language & Literature: Women's Studies	WMST	3			This course examines the contingent nature of identity factors, such as gender, sexuality, race, ethnicity, and social class, and how such factors are intertwined with relations of power. It emphasizes the consequences of the distribution of inequality, and the ways in which individuals exert agency and challenge systems of inequality.
WMST	280	Cooperative Education: Women's Studies	Department of Language & Literature: Women's Studies	WMST	3	Prerequisite	COMP110 (C or better) and WMST110 (C or better) and permission of the Department of Language and Literature	On-the-job experience and observations in a field directly related to the student's academic preparation and career objectives. Periodic meetings between the faculty coordinator and the student are held to review actual experience and observation in light of the theory and skills learned academically.

SECTION 4: COLLEGE INFORMATION

Admissions

The Admissions Office is located on the first floor of Pemberton Hall and can be reached at 215-968-8100.

Admissions Policy

Policy [3.1 Admissions](#)

I. Purpose

Establish criteria for admission to the college.

II. Scope

Applicable to all applicants for admission to the college.

III. General

Any person may apply for admission to Bucks County Community College. Admission is generally granted to graduates of accredited secondary schools, to recipients of a high school equivalency diploma, and to others who, in the judgment of the college, are likely to benefit from a collegiate experience. Admission to some programs of study is limited by available facilities, the number of faculty, county of residence, or other factors. The college may guide the enrollment of entering students in an effort to improve their opportunity to succeed in college.

Enrollment to the college for the fall and spring semesters is contingent upon completion of the college's placement testing program for new students. Students who have earned postsecondary credentials from a United States institution may be eligible for testing waivers.

For students who are seeking to transfer college credits to Bucks, the following general policies apply:

- A student can obtain no more than 30 transfer credits from all outside sources, including Advanced Placement and Prior Learning Assessment (PLA), for Associate programs.
- A student can obtain no more than half the number of credits required for a given certificate.
- Only grades of "C" or better or grades of 70% by permission of the area dean will be considered for potential transfer credit.
- Courses are considered for transfer credit as they relate to the student's program of study.
- If a student changes his/her major, a new evaluation request must be submitted as above.
- Developmental coursework will not be accepted for transfer credit.
- Proficiency courses (those which produce "pass" or "satisfactory" grades) will not be accepted for transfer credit.
- Courses taken at some institutions without regional accreditation may not be accepted for transfer credit through traditional means but may be reviewed through the Office of Prior Learning Assessment (PLA).
- Credentials earned outside the United States require external evaluation before submitting to Bucks for review and potential transfer.
- Military transcripts are evaluated for potential transferability through PLA.

IV. Procedures

Related procedures are located on the Bucks website and may be accessed at bucks.edu/admissions.

V. Approval

President, March 21, 2019

VI. Responsibility

Vice President, Strategic Enrollment and Planning

Applying for Admission

Applicants for admission must submit an official Application for Admission to the Office of Admissions. Students who are intending to receive financial aid, or who intend to pursue the Nursing (2035) major, must also have an official copy of their high school transcript or an official copy of their GED scores on file in the Office of Admissions. A transcript marked "issued to student," unsealed, or missing the Registrar's signature or school seal, will be marked as unofficial. A transcript is considered final official when a date graduated, for high school, and a degree conferred, for college, is stated.

It is important to note that placement testing is mandatory for all students who are planning to enroll at the College. Students must make an application to the College prior to Placement Testing.

The results of the Placement Testing have no bearing on a student's acceptance to the College; rather they are used for academic advising and program planning that will help to ensure student success.

Individuals who previously attended another college or university may be eligible for an exemption from Placement Testing. Those applicants must submit a transcript from that institution for review by the Office of Admissions. The transcript can be unofficial for the purpose of testing waivers.

Application Deadline

Students should apply for admission as early as possible to ensure optimal course availability. Applications are accepted on a rolling admissions basis.

Specific Admissions and Registration Concerns

Readmission/Reactivation

Students who seek readmission must [reactivate their student records](#).

Applicants with Previous College Experience

Transfer students must have an official copy of their transcripts sent and submit a Request for Evaluation (<https://www.bucks.edu/admissions/records/forms/>) in order to obtain transfer credits. For purposes of placement testing or prerequisite course waivers, an unofficial copy may be submitted.

Guest students are students currently enrolled at another college or university who wish to take courses at Bucks for transfer back to their primary institution. Such students should be advised by their own institution regarding course selection and transferability and meet

any necessary course prerequisites by submitting an unofficial transcript, along with a prerequisite waiver request (<https://www.bucks.edu/admissions/records/forms/>).

Non-degree/Non-certificate seeking students may be exempt from placement testing, unless that testing is a prerequisite for the desired coursework. Prerequisite waiver requests must be submitted for such courses.

High School Enrichment Program

The College allows eligible students from Bucks County high schools to enroll. This program expands educational opportunities and allows college credits to be earned before high school graduation. The program enables students to select unique courses, as desired or required by their high school, while Dual Enrollment programs feature designated courses taught at the high school location.

Dual Enrollment

With Bucks, students can get a head start on college while in high school. Classes are held in participating high schools. These courses are college level and are preselected by the high school. Taught by Bucks faculty, the classes take place during the school day.

To learn if your high school participates in the Dual Enrollment Program, contact your high school guidance counselor.

The Accessibility Office

Mission

Our mission is to assist in securing access to an equal education at Bucks County Community College for students with documented disabilities; to encourage an environment of diversity through awareness and education, and to foster campus-wide ownership of accessibility.

Location

[The Charles E. Rollins Center Building 11](#)

If you have any questions or need assistance, please feel free to contact us at our main number (215) 968-8182 or email us at accessibility@bucks.edu

Services are available on all campuses through this office. Appointments can be made to meet at other campuses through the Newtown office.

For general information or direction to a department, please reach out to the Contact Center at info@bucks.edu or call 215-968-8189.

Policies and Procedures of The Accessibility Office

- [To request Academic Adjustments/Accommodations](#)
- [To appeal the denial of academic accommodations](#)
- [For requesting and using Interpreter Services](#)
- [How to request alternative format texts](#)
- [Audio Recording of Class Lectures](#)

What is the Accessibility Office?

The Accessibility Office (TAO) provides accommodations to all students with documented disabilities, accommodations at all campuses at Bucks. All accommodations are tailored to the individual needs of each student based on their documentation presented to TAO. All accommodations are in accordance with the Americans with Disabilities Act of 1990 (ADA), the ADA Amendments Act (ADAAA) of 2008 and Section 504 of the Rehabilitation Act of 1973. TAO is here to assist all students that have any qualifying, documented disability. TAO will assist students in equal access to courses, the campus, and all activities on the college campus.

[Accessibility Flyer](#)

PCAs, Therapists, and Nurses

Bucks County Community College (Bucks) is committed to ensuring that all qualified students with disabilities are provided reasonable accommodations to ensure access to programs, services, and facilities in compliance with state and federal law. All academic accommodations are in accordance with the Americans with Disabilities Act of 1990 (ADA), the ADA Amendments Act of 2008 (ADAAA), Sections 504 and Section 508 of the Rehabilitation Act of 1973.

Accordingly, students with disabilities who require Personal Care Attendants (PCA), Nurses or Therapists to accomplish activities of daily living are permitted to have a PCA, Nurse or Therapist accompany them while on campus. Bucks does not provide any personal care services or equipment to students attending classes and programming. All personal equipment and services must be provided by the student at their own personal expense.

Any PCA, Nurse or Therapist cannot be in the classroom with a student if they are a relative (including parents), hold Power of Attorney for the student, or have not provided the appropriate credentials and clearances or documentation per the Accessibility Office (TAO) process. The student must register with TAO and provide all appropriate documentation to have a PCA, Nurse or Therapist attend class with them.

The student must provide a copy of the contract between the PCA, Nurse or Therapist and the student in addition to documentation that the PCA, Nurse or Therapist is qualified to perform the required services (PCA certification/ agency certification), copy of background checks and clearances (Act 24, Act 34, Act 151, Act 126, and Act 114), and evidence of Protection of Minors Training and insurance bonding to the Accessibility Office (TAO). The names and contact information for each PCA, Nurse or Therapist must also be on file with TAO.

For a full review of the procedure of requesting and registering with TAO for an approved PCA, Nurse or Therapist accommodation, please visit the link at [PCAs, Therapists, and Nurses](#).

Physical Barriers

If a student, faculty member, staff member or visitor to the campus encounters a physical barrier at any campus location, we would like to hear from you. Please complete the online form below. This will ensure that every member of the community has access to all physical spaces where Bucks County Community College provides programming.

[Barrier To Access Online Form](#)

Web Accessibility Statement

Bucks County Community College's policy is that all College web content and interfaces will meet applicable federal and state law (including the Americans with Disabilities Act, the Rehabilitation Act, and amendments). To be compliant with the ADA, a person with a disability must be able to independently acquire the same information, engage in the same interactions, and enjoy the same services within the same timeframe as individuals without disabilities, with substantially equivalent ease of use.

If you have difficulty accessing any part of the website while using adaptive technology, have accessibility suggestions, or need an alternative format for any content, please contact accessibility@bucks.edu or call 215-968-8182.

Also, please review a [list of our Adaptive Resources](#) offered through The Accessibility Office at Bucks.

The Accessibility Office

[215-968-8182](tel:215-968-8182) accessibility@bucks.edu Newtown Campus

Rollins Center, Student Services Office

Fax: 215-968-8383

Senior Citizens

Policy 1.24 [Tuition Waiver – Age 65](#)

Bucks County residents aged 65 and over may enroll tuition-free in credit courses on a space-available basis. To qualify for this waiver, students must register during the period designated by the College in its semester registration publication. Tuition is waived but all other applicable fees must be paid at registration. Some courses, like studio art courses and science courses, may have [additional course fees](#).

In order to register for courses, senior citizens must have an active Bucks student record by having completed the [online application](#).

How to Register

We offer two registration options for senior citizens:

- Register Online via [Student Planning](#)
 - Senior citizens can register for courses online, using their [self-service Student Planning account](#), beginning on the date listed above for each term. If any assistance is needed to navigate Student Planning, please feel free to contact the Registrar's Office.
- **Registration In-Person**
 - Senior Citizens looking to register in person may do so, on or after, the date listed above for each term.

Need Further Assistance?

registrar@bucks.edu

[215-968-8100](tel:215-968-8100)

Residency Verification

All applicants for admission and enrolled students are legally bound to certify the county and state of their legal residency and are obligated to the College for the established tuition and fees.

Bucks County Community College adheres to the Regulations of the State Board of Education of Pennsylvania, Chapter 35, Community Colleges, which defines residency and domicile. The regulations define domicile as "the place where one intends to and does, in fact, permanently reside." The regulations also state "continuous residence in this Commonwealth for a period of 12 months prior to registration as a student. A student may rebut this presumption by convincing evidence." A copy of the regulations is available in the Office of Enrollment Services. If requested to prove residency or to establish residency in Bucks County, documentary evidence from disinterested persons is required.

Examples of factors which may provide convincing evidence include the following:

- copy of a signed lease or proof purchase of a permanent independent residence
- payment of appropriate State and local taxes
- agreement on company letterhead for permanent employment as a resident of the county

For in-county tuition, a student must provide evidence of permanent residency of Bucks County prior to registration.

Non-US citizens must supply admissions with their immigration documents. Visa holders and those who are not legal residents are subject to the out-of-state tuition.

Ownership of property or a business in Bucks County while not actually residing in the county does not qualify a person to attend the College as a county resident.

A student's residence is determined at the time the student makes an application for admission, readmission, or registration. If you are visiting or living with a relative who is not your parent or guardian, you are not considered a legal resident of Bucks County.

The College reserves the right to challenge a student's residence at any time if there is reason to suspect that the student's address is incorrect.

In order for a student to be classified or reclassified as a Bucks County resident for a particular semester, the classification or reclassification must be approved by the Office of Enrollment Services by the end of the third week of classes (or equivalent in condensed terms). Any questions concerning residency should be directed to the Interim Executive Director of Enrollment Services at residency@bucks.edu.

College Credit for High School Students

Bucks County Community College has developed articulation agreements with several area high schools:

- Bucks County Technical High School

- Centennial School District
- Eastern Center for Arts & Technology
- Lancaster County Career and Technical Center
- Middle Bucks Institute of Technology
- Northern Montgomery County Technical Career Center
- Upper Bucks County Technical High School
- Western Center for Technical Studies

Programs of study at the above-named schools in which students can earn a specified number of credits in related majors at BCCC include:

- Accounting
- Automotive Collision Technology
- Automotive Technology
- Building Trades Technology
- Carpentry/Masonry Technology
- Cinema/Video
- Collision Repair Technology
- Commercial Arts
- Computer Technology
- Cosmetology
- Criminal Justice
- Diesel Technology
- Early Childhood Education
- Electrical Technology
- Emergency Management/Public Safety
- Fine Woodworking
- Fire Science
- Graphic Arts
- Graphic Design
- Hospitality
- HVAC/R Technology
- Law Enforcement/Correctional Administration
- Law Enforcement/Police Administration
- Law Enforcement/Social Services
- Multimedia
- National Occupational Competency Testing Institute (NOCTI)
- Networking Technology/ Electronics
- Outdoor Power Equipment Technology
- Plumbing/Heating Technology
- Precision Machining Technology
- Retail Management
- Welding Technology

In these areas, the course of study at the high school has been compared with the course of study at Bucks. Credit is granted for the mastery of common topics.

High school students in programs listed above should work through their instructors at the high school to pursue program articulation and should arrange to have their transcripts sent to the Office of Admissions, Records and Registration. The appropriate academic departments will evaluate these credits and will inform the Office of Admissions, Records and Registration which courses may be brought in for credit on the Bucks County Community College transcript.

Individuals who are pursuing (or have completed) a registered apprenticeship program can earn credits under the evaluation guidelines of the American Council on Education. This is accomplished by a detailed evaluation of the individual's training record. Please visit the [PLA Website](#) for additional details or contact Prior Learning Assessment at 215-968-8161.

Other area high school students and/or previous high school graduates may be interested in pursuing an Associate Degree in Occupational Studies.

If you have questions regarding the Occupational Studies Program, call the Department of Business Studies, 215-968-8227 or the Office of Academic and Curricular Services, 215-968-8212.

Advanced Placement

The College participates in the Advanced Placement Program of the College Entrance Examination Board (CEEB). Under this program, the College grants credit and advanced placement to students with completed college-level courses in approved secondary schools with a score of three (3) or better in the Advanced Placement Tests of the CEEB.

Applicants for credit for advanced placement should request the CEEB to send their official test scores electronically to registrar@bucks.edu or in the mail to Registrar's Office, Bucks County Community College, 275 Swamp Road, Newtown PA 18940. Advanced placement credits will be evaluated and applied to a student's record when official scores are received. Questions should be directed to registrar@bucks.edu.

Evaluation of Transfer Credits

To have credits from prior colleges and universities evaluated, students must provide an official transcript to the Registrar's Office. Please note that the official transcript must be sent directly from the issuing institution. Students must indicate "Evaluation" on the college application or submit a [Waiver or Evaluation Form](#) or [via login](#).

Unofficial and/or "student copy" transcripts will not be accepted for credit transfer; however, they can be reviewed for possible assessment testing waivers and/or prerequisite course waivers. Please refer to the [Placement Testing page](#) for acceptable exemptions from placement testing.

Upon receipt of a [Transcript Evaluation Request](#) Bucks County Community College will evaluate parallel work completed at accredited post-secondary institutions for potential transfer credit.

- Students seeking transfer credit should first submit an [Application for Admission to the College](#).
- Next, students must request that an official copy of their transcript(s) be sent from their previous institution(s) to Bucks County Community College. Official transcripts can be mailed to Bucks County Community College, Registrar's Office, 275 Swamp Road, Newtown, PA 18940. If sending your official transcript electronically, please have it sent to waivers@bucks.edu.

Policies related to transfer credits and transcript evaluations:

- A student can obtain no more than 30 transfer credits from *all* outside sources (including [AP Course Credit](#) and [Prior Learning Assessment](#)) for Associate programs.

- A student can obtain no more than half the number of credits required for a given certificate.
- Only grades of "C" or better or grades of 70% by permission of the area dean will be considered for potential transfer credit.
- Courses are considered for transfer credit as they relate to the student's program of study.
- Course descriptions are reviewed for course content and in determining equivalency. At times, syllabi and additional consultation with the area academic dean and other support documentation may be necessary.
- If a student changes his/her major, a new evaluation request must be submitted as above.
- Developmental coursework will not be accepted as transfer credits.
- Proficiency courses (those which produce "pass" or "satisfactory" grades) will not be accepted as transfer credits.
- Courses taken at some institutions without regional accreditation may not be accepted for transfer credit through traditional means. Schools that are vocational or technical in nature without regional accreditation are reviewed through the Office of [Prior Learning Assessment](#) (PLA) for potential life experience credit.
- Credentials earned outside the United States require [external evaluation](#) before submitting to Bucks for review and potential transfer.
- [Military credentials](#) are reviewed by PLA.
- Coursework previously determined for equivalencies can be viewed at the [Pennsylvania Transfer and Articulation Center](#) or [CollegeTransfer.Net](#), but all coursework presented will be considered based on the above criteria.
- The Registrar's Office is responsible for consideration of incoming transfer credit. Concerns or questions regarding transfer credits should be directed to the Registrar at registrar@bucks.edu or 215-968-8000 option #1.

For more information about transferring to Bucks County Community College, please read our [Frequently Asked Questions \(FAQs\) for Transfer Students](#) page.

For details regarding transferring *out* of Bucks to another institution, please review the [Transfer Services](#) webpage, or call 215.968.8031 to make an appointment with a transfer counselor.

Evaluation of Military Experience

The College evaluates previous military experience in accordance with the recommendations of the American Council on Education (ACE) through the Guide in the Evaluation of Educational Experience in the Armed Forces. Veterans seeking credit for previous military experience must submit an official copy of their transcript (AARTS or SMART).

Once an evaluation is completed, the student will receive notification when credits are posted to the student's record.

Foreign College or University Experience

Credits will be accepted from a regionally accredited foreign college or university after a course-by-course evaluation is conducted by an approved Credential Evaluation Service. A list of acceptable services is available in the Office of Admissions.

Supplemental External Credits

For students who are seeking to transfer college credits to Bucks, the following general policies apply:

- A student can obtain no more than 30 credits from all outside sources, including Advanced Placement and PLA, for Associate programs.
- A student can obtain no more than half the number of credits required for a given certificate.
- Only grades of "C" or better or grades of 70% by permission of the area dean will be considered for potential transfer credit.
- Courses are considered for transfer credit as they relate to the student's program of study.
- If a student changes his/her major, a new evaluation request must be submitted as above.
- Developmental coursework will not be accepted for transfer credit.
- Proficiency courses (those which produce "pass" or "satisfactory" grades) will not be accepted for transfer credit.
- Courses taken at some institutions without regional accreditation may not be accepted for transfer credit through traditional means but may be reviewed through the Office of Prior Learning Assessment (PLA).

Supplemental Internal Credits

Internal credits are earned at the College and satisfy the degree requirements of completion of not fewer than thirty semester credit hours at the College. These internal credits may be earned through Portfolio Assessment (LE), Credit by Examination through division examinations (CREX), the College Level Examination Program (CLEP), and the DSST Defense Activity for Non-Traditional Education Support Program (formerly DAN TES). The CLEP and the DSST examinations may also be accepted as external credits by the College.

Prior Learning Assessment Program

Bucks County Community College (Bucks) recognizes that students enter the College from a variety of backgrounds and experiences, some of which may involve college-level learning. The College is committed to providing pathways for students to proceed along smooth transitions without delays, duplication of courses, or loss of credit. As such, the College maintains a [Prior Learning Assessment \(PLA\) Program](#) in order that students will be afforded the assessment methods by which they can document their college-level learning and pursue equivalent credit toward courses in their Program of Study.

Participation

To be eligible to participate in the Prior Learning Assessment (PLA) Program at Bucks, students must be in good academic and financial standing with the College, have successfully completed a semester at Bucks, are currently enrolled, and actively pursuing classes in a Program of Study that includes requirements for the course(s) they propose to challenge.

There are limitations to the total number of equivalent credits earned through PLA that students can use toward their degree or certificate at Bucks, based upon the College's graduation residency policy. The nontraditional ungraded credits that can be used toward a Bucks degree or certificate include all equivalent credit awarded through PLA (marked as CL, CX, and/or LE on the Bucks transcript where the grade would go) in addition to any Advanced Placement (marked as AP on the Bucks transcript where the grade would go), Military equivalent (marked as ME on the Bucks transcript where the grade would go) and

Transfer credit (marked as TR on the Bucks transcript where the grade would go) brought into Bucks.

Equivalent credit awarded via Prior Learning Assessment may not be transferable to a Bachelor's degree program. However, students should check directly with the intended transfer institution to determine transferability and/or the possibility of applying for a similar credit equivalency award process at the transfer school.

Application Process

Students begin the PLA process by completing, signing and submitting an application. The PLA Application is available online, in the Advising and Transfer Office in the Rollins Center on the Newtown campus, and at the Student Services areas of each campus location (Newtown, Upper Bucks, Epstein Campus at Lower Bucks). All students should feel free to contact the Office of Prior Learning Assessment directly for advice regarding their questions, concerns, and/or developing their individualized PLA plan. In order to complete the PLA Application, the student should:

- 1) Carefully consider the course requirements for their [Bucks Program of Study](#).
- 2) Review the [Master Course Outline](#), to understand the course objectives of the course for which PLA is being sought.
- 3) Consider whether their prior learning has included mastery of the course objectives for any specific course(s) in their Bucks Program of Study.
- 4) Identify any course(s) to potentially challenge for equivalent credit.
- 5) Determine which course(s) they propose to challenge and indicate this on the .
- 6) Explore, with the PLA advisor if desired, the pathways available to document their prior learning that led to mastery of the course objectives.
- 7) Select the most appropriate pathway(s) or assessment method(s) by which to document the prior learning and indicate this on the PLA Application.

The completed PLA Application should be submitted to the Office of Prior Learning Assessment in the Advising and Transfer Center in the Rollins Center at 275 Swamp Road, Newtown, PA 18940. Official supporting documentation, which verifies the learning, will also need to be provided, with the type varying depending upon the pathway.

The complexity of the actual PLA process for individual students can vary along a broad spectrum. For example, some PLA plans, such as those for Challenge by Exam, are straightforward and may require little to no advising. In those cases, the student should feel free to use the resources available through the PLA web pages and publications to create and pursue their plan to completion. On the other end of the spectrum, some situations may be complex and even involve multiple assessment processes and the student may benefit from consulting with the Office of Prior Learning Assessment to obtain advice for creating their individualized PLA plan.

All students should feel free to contact the Office of Prior Learning Assessment directly for advice regarding their questions, concerns, and/or developing their individualized PLA plan.

Pathways – Assessment Methods

The College recognizes three primary assessment methods by which students can document their college-level learning - examination, evaluation of non-collegiate instruction, and individual assessment.

Challenge by Examination (CBE)

Many Bucks courses are open for Bucks students to challenge by examination. The College recognizes and makes available departmental challenge exams (CREX) along with the standardized exams of CLEP, DSST (formerly known as DAN TES) and NYU's Foreign Language Testing Service. The specific courses and corresponding exams are reviewed annually with updated lists made available on the [Testing Center](#), and [PLA](#) web pages.

Scores at or above the minimum will lead to equivalent credit for the associated Bucks course, but no letter grade will be awarded. If the student does not achieve the minimum score, they must wait at least three months to repeat a CLEP, six months to repeat most CREX exams (except for NURS101/102), and 90 days for a DSST exam. Credit awarded from an exam will not replace a grade on the student's Bucks transcript. If a student has previously taken or is currently enrolled in the course for which they wish to take a CREX exam, the student must obtain permission of the Academic Dean for the Department in which the course is taught. The code "CL" will be indicated on the Bucks transcript where the grade would be for credit granted for standardized exams (CLEP, DSST, NYU) or "CX" for CREX exams.

Students should feel free to contact the Office of Prior Learning Assessment directly with any questions and/or concerns regarding challenging courses by examination.

Evaluation of Non-Collegiate Instruction

The evaluation of non-collegiate instruction often results in Credit Recommendations and/or Articulation Agreements that provide students with specified opportunities to pursue equivalent credit. Students who have successfully completed instruction and training programs outside the traditional college classroom may be eligible to pursue equivalent credit via this PLA pathway, which evaluates these programs. Examples of programs that have qualified students for equivalent credit include tech-prep programs at secondary schools; noncredit continuing education programs at Bucks; and various training programs for professionals. Summary information about the many Credit Recommendations and Articulation Agreements is maintained on the College's [PLA web pages](#) and in the PLA Office in The Advising and Transfer Center in the Rollins Center at 275 Swamp Road, Newtown, PA 18940.

The College recognizes the American Council on Education (ACE) and the National College Credit Recommendation Service (National CCRS, formerly known as PONSI), two national bodies that evaluate non-collegiate instruction and training programs. If the program the student successfully completed has been evaluated by one of these two bodies, the student has the opportunity to challenge a Bucks course(s) based upon their credit recommendations.

Students should feel free to contact the Office of Prior Learning Assessment directly with any questions and/or concerns regarding challenging courses by the evaluation of non-collegiate instruction.

Individual Assessment via Portfolio

The opportunity for individual assessment is provided via the portfolio method at Bucks, by which students challenge a course(s) in their program of study. Students must obtain authorization to pursue this method prior to beginning any portfolio preparation.

Contact Information

The College is committed to providing pathways for students to proceed along smooth educational transitions without delays, duplication of courses, or loss of credit. The Prior

Learning Assessment (PLA) Program at Bucks provides students with the assessment methods by which they can document the college-level learning they have achieved outside the traditional college classroom and pursue equivalent credit toward courses in their program of study. This allows students to save time and money by not having to take courses for material they have already mastered.

The complexity of the actual PLA process for individual students can vary along a broad spectrum. All students should feel free to contact the Office of Prior Learning Assessment directly for advice regarding their questions, concerns, and/or developing their individualized PLA plan.

The Office of Prior Learning Assessment
Advising and Transfer Center - Rollins Center, 1st floor
PLA Coordinator: 215-968-8161
Appointments: 215-968-8031
Fax: 215-968-8033
pla@bucks.edu

Shared Majors

Policy [3.3 Shared Programs](#)

Bucks County Community College students may elect to take courses at Philadelphia, Montgomery, or Delaware County Community Colleges under this plan. Students who elect to enroll at these community colleges must be authorized by the Registrar's Office and will pay the host college-sponsored student rate for courses that they take at the host college.

Shared Program opportunities include:

Host College Major

Delaware

- Automated Manufacturing and Robotics
- Machine Tool Technology
- Mechanical Technology
- Registered Nurse First Assistant in Surgery Program

Philadelphia

- Amer. Sign Language/Interpreter
- Architecture
- Automotive Technology
- Dental Hygiene
- Facilities Management
- Interior Design
- Respiratory Technology

Montgomery

- Cyber Security Certificate
- Dental Hygiene
- Game Simulation and Design
- Human Services
- Medical Laboratory Technology
- Physical Therapist Assistant

- Software Engineering Certificate
- Sound Recording & Music Technology
- Surgical Technology
- Theater

Interested students should contact the Office of Admissions at the host college of the major they wish to pursue.

Bucks County Community College is the host college for the following programs:

Fine Woodworking AA	Delaware, Montgomery, Philadelphia
Furniture and Cabinetmaking Certificate	Delaware, Montgomery, Philadelphia
Historic Preservation Certificate	Delaware, Montgomery, Philadelphia
Paralegal AA and Certificate	Montgomery
Sport Management AA	Delaware, Montgomery
Meeting, Convention, and Event Planning AA and Certificate	Delaware, Montgomery

Interested students should contact the Registrar's Office at registrar@bucks.edu.

Bucks County Community College and Mercer County Community College students can enroll in unique programs that are not offered at their home colleges for in-state tuition rates. For more information visit the [Office of Advising and Transfer Services](#).

Courses Open to Challenge by Examination

Department of the Arts - Hicks123 - 215-968-8425			
<u>Bucks Course</u>	<u>Exam</u>	<u>Minimum Score</u>	<u>Credits</u>
MUSC100	CREX	70	3
MUSC111/115	CREX	70	6
MUSC112/116	CREX	70	6
MUSC211/215	CREX	70	6
MUSC212/216	CREX	70	6
VAFA100	CREX	70	3
VAFA192	DSST- Art of the Western World	48	3
VAMM100	CREX	70	3
Department of Business + Innovation - Grupp 401 - 215-968-8227			
<u>Bucks Course</u>	<u>Exam</u>	<u>Minimum Score</u>	<u>Credits</u>
ACCT103	CREX	70	3
ACCT105	CLEP – Financial Accounting	50	4
MGMT100	DSST – Introduction to Business	46	3
MGMT120	DSST – Business Mathematics	48	3
MGMT130	CLEP- Introductory Business Law	50	3
MGMT140	DSST - Principles of Supervision	46	3
MGMT200	DSST - Organizational Behavior	48	3
MGMT230	CLEP - Principles of Management	50	3
MGMT250	DSST – Human Resource Management	46	3
MKTG215	CLEP - Principles of Marketing	50	3
Department of Kinesiology & Sport Studies - Linksz Pavilion 209 - 215-968-8450			
<u>Bucks Course</u>	<u>Exam</u>	<u>Minimum Score</u>	<u>Credits</u>
HLTH103	CREX	80	3

HLTH120/120N	CREX	80	3
Department of Language and Literature - Grupp 105 - 215-968-8150			
<u>Bucks Course</u>	<u>Exam</u>	<u>Minimum Score</u>	<u>Credits</u>
COMP110	CLEP – College Composition	50	3
COMP111	CLEP – Analyzing and Interpreting Literature Only open to Nursing students in lieu of transferring in a successfully completed comparable Composition II course from a regionally accredited college or university.	50	3
COMP114	DSST – Technical Writing	46	3
FREN110/111	CLEP – French Language, Level 1	50	6
FREN201/202	CLEP – French Language, Level 2	59	6 (plus 6 for FREN110/111)
GRMN110/111	CLEP – German Language, Level 1	50	6
GRMN 201/202	CLEP – German Language, Level 2	60	6 (plus 6 for GRMN110/111)
LITR205	CLEP – English Literature	50	3
LITR206	CLEP – English Literature	65	3 (plus 3 for LITR205)
LITR231	CLEP- American Literature	50	3
LITR232	CLEP – American Literature	65	3 (plus 3 for LITR231)
SPAN110/111	CLEP –Spanish Language, Level 1	50	6
SPAN201/202	CLEP –Spanish Language, Level 2	63	6 (plus 6 for SPAN110/111)
Department of Health Sciences - Founders 110 - 215-968-8353			

<u>Bucks Course</u>	<u>Exam</u>	<u>Minimum Score</u>	<u>Credits</u>
MEDA120	CREX	70	3
MEDA140	CREX	70	3
NURS101	CREX Only open to LPNs and/or students transferring from other NLNAC accredited Nursing programs.	Pass	6
NURS102	CREX Only open to LPNs and/or students transferring from other NLNAC accredited Nursing programs.	Pass	6

Department of Science, Technology, Engineering & Mathematics (STEM) - Founders 113 A - 215-968-8305

<u>Bucks Course</u>	<u>Exam</u>	<u>Minimum Score</u>	<u>Credits</u>
CISC100	CREX	70	3
CISC110	CLEP – Information Systems and Computer Applications	50	3
CISC113	CREX	70	3
CISC115	CREX	70	4
CISC128	CREX	70	4
CISC143	CREX	70	4
MATH101	CLEP – College Mathematics	50	3
MATH115	CREX	70	3
MATH115	DSST – Principles of Statistics	48	3
MATH120	CLEP – College Algebra	50	4
MATH125	CLEP – Precalculus	50	4
MATH140	CLEP – Calculus	50	4
MATH141	CLEP Calculus	65	4 (plus 4 for MATH140)

Department of Social & Behavioral Science - Grupp 301 - 215-968-8270

<u>Bucks Course</u>	<u>Exam</u>	<u>Minimum Score</u>	<u>Credits</u>
CRIJ100	DSST – Criminal Justice	49	3
CRIJ250	DSST – Introduction to Law Enforcement	45	3
ECON111	CLEP – Principles of Macroeconomics	50	3
ECON112	CLEP – Principles of Microeconomics	50	3
HIST111	CLEP – Western Civilization I: Ancient Near East to 1648	50	3
HIST112	CLEP – Western Civilization II: 1648 to the Present	50	3
HIST151	CLEP – History of the United States I	50	3
HIST152	CLEP – History of the United States II	50	3
POLI111	CLEP – American Government	50	3
PSYC110	CLEP – Introductory Psychology	50	3
PSYC180	CLEP – Human Growth and Development	50	3
PSYC190	CLEP – Introduction to Educational Psychology	50	3
SOCI110	CLEP – Introductory Sociology	50	3

Tuition/Expenses

Expenses Per Semester

Tuition and fees are subject to change by action of the Board of Trustees of Bucks County Community College.

In addition to the tuition and fees, some courses or majors require additional expenditures for travel, supplies, materials, performance tickets, and the like. Additional expenses are shown with the course description where applicable.

All tuition and fees are due by the posted deadlines for each semester. For registrations occurring after the deadline, payment will be due immediately.

Out-of-county residents who receive permission and county financial support to attend the College do so at the resident tuition rate.

All full-time students who register for more than eighteen credits must have the approval of their academic advisor.

Some courses are billed at a different rate than the credits awarded. Such courses are noted in the course descriptions listing.

Sample Cost Illustration

12 semester hour credits @ \$165 each credit	\$1980
Activity Fee (12 or more credit hours)	\$2
Capital Fee (County Resident)	\$0
College Service Fee	\$25
Technology Support Fee (\$35 per credit hr)	\$420
Illustrative Total (per semester)	\$2427

Other Fees/Costs

Payment Plan Admin Fee	\$30
Return Check Fee	\$25

Payment Plan Late Payment Fee

\$25

Tuition and Fees

Tuition

This is the basic charge for full-time and part-time students. Tuition costs for In-County residents are reasonable because they are subsidized by the Commonwealth of Pennsylvania and the County of Bucks. Tuition for Out-of-County and Out-of-State residents will vary due to the absence of this subsidy.

Activity Fee

This fee is assessed to all students, dependent upon the number of credits taken. It supports all student activities and organizations such as the campus newspaper and athletic events.

Capital Fee

This fee is assessed to out-of-county and out-of-state students as a contribution to the costs of land, buildings, and equipment furnished by the Commonwealth of Pennsylvania and the County of Bucks.

Course Fees

Certain courses incur additional expenses which are added to the course in the form of "course fees." The course fee is used to defray the additional cost associated with these course offerings.

Graduation Fees

This charge is assessed to cover a portion of the costs of graduation ceremonies and diplomas. \$20 fee.

Credit by Examination for Nursing

This charge is assessed for each course for which a student wishes to test competency. The charge covers the cost of the special examination and grading of the examination.

Transcript

This charge covers the handling and printing of transcripts for students. \$5 fee.

College Services Fee (per semester)

A general services fee covering registration, parking decal, etc. \$25 fee.

Technology Support Fee

This fee is assessed to cover the cost of technology resources. It supports such things as computers, Internet access, network infrastructure, and other technical services and resources.

Tuition Refund Policy

Tuition and fees paid for classes cancelled by the College due to insufficient registrations are fully refundable. Other tuition refunds will be processed under the following official policy of the College:

Policy 3.4 [Course or Curricular Changes by Students](#)

Policy 3.5 [Withdrawal](#)

Policy 3.6 [Faculty-Initiated Withdrawal](#)

Policy 3.15 [Tuition Refund Appeal](#)

- Official Withdrawal or Drop of courses is effective upon receipt of written notice from the student in the Registrar's Office.
- Official Drop from courses **prior** to the end of the add/drop period.
 - 100% refund of Tuition, Capital Fee, Activities Fee and Technology Support Fee. (**Note: The College Service Fee is non-refundable**).
 - [Summer Refund Schedule](#)
 - [Fall Refund Schedule](#)
 - [Winter Refund Schedule](#)
 - [Spring Refund Schedule](#)
- Official Drop from courses **following** the add/drop period.
 - Refunds are based on the actual withdrawal date.
 - Refunds Tiers are based on percent completion of a term and will vary.
 - Refunds will be processed according to the following semester Refund Schedule(s)

**To determine your refund: 1) Find the corresponding Start and End date for your course(s) on the semester chart above. 2) Find the official date of your withdrawal or drop within the date ranges of the Refund Tiers.*

- Official Drop period ends with the last day of the available refund. Following this date official Withdrawal period begins.

All Title IV aid recipients, who completely withdraw from classes at or before the 60% point of the semester, will have a calculation performed to determine the amount of unearned aid that must be returned. Based on the withdrawal date recorded in the Registrar's Office, we determine how many calendar days a student has attended in the semester. We divide the calendar days attended by the calendar days in the semester to get the percentage completed. Total disbursed aid is then multiplied by this percentage completed to determine earned aid. If earned aid is less than disbursed aid, we must perform another calculation to determine how much of the unearned aid has to be returned by Bucks County Community College and how much has to be returned by the student. Once the amount of unearned aid that needs to be returned is determined, it must be returned to the Title IV aid programs in the following order:

- Unsubsidized Federal Direct Loans

- Subsidized Federal Direct Loans
- Federal Perkins Loans
- Federal Direct PLUS Loans
- Federal PELL Grant Program
- FSEOG Program
- LEAP (if known Title IV)

Military Duty Tuition Refund

A student unable to complete any semester by virtue of being called to Military Reserve Duty, other than a training obligation scheduled prior to the beginning of the semester, shall be granted, at his/her option, a complete drop or complete withdrawal or an incomplete for all courses in that semester. A student dropping all courses will receive a 100% refund, including fees. A student withdrawing will receive no refund. A student electing incompletes will be expected to complete courses within the time frame and policy prescribed by college policy. A student receiving financial aid or veteran benefits may be required to elect a particular option in accord with established policies.

Tuition Appeals

No refunds will be made after the first week of the semester (or equivalent during summer sessions or modular courses).

The tuition appeal policy is applicable to all students enrolled in credit courses.

The college recognizes that there may be extenuating circumstances that can prevent a student from dropping classes by the refund date. An appeal for tuition refund may be filed if a student was unable to attend courses registered in the current semester due to medical, personal, or employment-related situations that were beyond the student's control.

The Tuition Appeal form must be completed in its entirety and submitted to the Office of Enrollment Services. The deadline to submit the form is the last day of the semester in which the course enrollment is being appealed.

Related form and procedures are available on the [college website](#).

Indebtedness to the College

The College uses a standard collection process for unpaid indebtedness to the College. In addition, student official transcripts are withheld and the College will deny registration and readmission to students who:

1. are indebted to the College.
2. have failed to return books or equipment loaned to them.

Payments of Tuition and Fees

Students are expected to pay all tuition and fees due at the designated time(s) before classes begin each semester. Failure to pay or attend classes neither cancels registration nor reduces the amount due. To have courses and charges removed, submit written and signed notification to the Admissions office by the deadline.

Deadlines are published in the credit course brochure each semester.

Students may pay by cash, check, or credit card at the Student Accounts office, in the Links Pavilion, during regular business hours.

Any checks returned to the College for insufficient funds will be assessed a return check fee in the amount of \$25.

Tax Credits

American Opportunity Credit

For students in their first four years of higher education. Maximum annual credit is \$2,500 for qualifying educational expenses.

For more information, consult a tax professional or visit <https://www.irs.gov/credits-deductions/individuals/aotc>.

Lifetime Learning Credit

For those beyond the first two years of college or taking classes part-time to improve or upgrade their job skills, up to \$2,000 credit per tax return can be taken. The credit is available for net tuition and fees (less grant aid) on a per-taxpayer (family) basis. Like the Hope tax credit, higher-income families are not eligible.

For more information, consult a tax professional or visit www.irs.gov/publications/p970.

Tuition, Fees and Expenses for Current and Upcoming Academic Years

Payment arrangements must be made at the time of registration.

Tuition/Fees

Tuition/Fees Academic Year 2022-2023	Residents of Bucks County	Out-of-County Residents	Out-of-State Residents	Non- Sponsored*
Tuition per semester credit hour	\$165	\$330	\$495	\$195
Activity Fee per semester credit hour	4	4	4	4
Capital Fee per semester credit hour	0	10	20	10

Tuition/Fees Academic Year 2022-2023	Residents of Bucks County	Out-of-County Residents	Out-of-State Residents	Non- Sponsored*
College Services Fee	50	50	50	50
Technology Support Fee per semester credit hour	35	35	35	35
New Student Fee**	75	75	75	75
Returned Check Fee	25	25	25	25

***Non-Sponsored Counties:** Bedford, Bradford, Cameron, Centre, Clarion, Clearfield, Clinton, Crawford, Elk, Erie, Forest, Franklin, Fulton, Greene, Juniata, Lycoming, McKean, Mifflin, Montour, Perry, Pike, Potter, Snyder, Tioga, Union, Venango, Warren, Wyoming

****New Student Fee:** Billed during the first term of enrollment in credit coursework only

Tuition refunds will be processed per the official [College Policy](#).

Additional Fees and Expenses

Books and Supplies

(Not applicable at registration) Allow an average of \$100 per course

Chef Apprentices Courses

Students enrolled in certain chef apprentice courses will incur additional expenses listed [here](#).

Historic Preservation Courses

Students enrolled in certain historic preservation courses will incur additional expenses listed [here](#).

Music Instruction & Studio Art Courses

Students enrolled in certain music and art courses will incur additional expenses listed [here](#).

Nursing & Medical Assistant Courses

Students enrolled in certain nursing and medical assistant courses will incur additional expenses listed [here](#).

Patient Care Technician Courses

Students enrolled in patient care technician courses will incur additional expenses listed [here](#).

Online (Distance Education) Courses

Policy 3.17 [Alternative Proctor Request Deadline](#)

There are no special charges for students in online courses. Some courses, do, however, require proctored testing. [Proctored testing](#) is available free of charge at the Upper, Lower, and Newtown Campuses. If the College's [testing facilities](#) are inaccessible to you, an instructor may offer you the option of [proposing an alternative proctor](#). Most proctors charge for this service; fees vary and are the responsibility of the student. For more information, see [Alternative Proctored Testing Information & Requirements](#).

Payment Options

[View your payment options here.](#)

Returned Check Fee

Students whose checks are returned to the College because of insufficient funds will be assessed a bad check fee of \$25 for each occurrence.

Science Courses

Students enrolled in certain science courses will incur additional expenses listed [here](#).

Music Instruction/Studio Art Supplies

Students enrolled in the following courses will incur an additional expense. Any expenses not listed will be the responsibility of the individual student.

- Fine Arts Course Fee.
- Lesson Fee: a charge for individual music lessons for music majors only.

Course	Fine Arts Course Fee	Lesson Fee
MUSL 100,101		\$480
MUSL 111,112,211,212		\$960
VACV 135,137,140,145,230,231,232,235,238	\$100	
VACV 246	\$100	
VAFA 102,105,141,165	\$120	
VAFA 109,160,260	\$140	
VAFA 147,148	\$400	
VAFA 161,181,282	\$150	
VAFA 167	\$145	
VAFA 168	\$25	
VAFA 246	\$250	
VAFA 100,101,103,104,107,108,111,171,200,202,250,271	\$100	
VAFW 100,133,136,137,138,140,145,180,181	\$100	
VAGD 101,102,201	\$100	
VAMM 100,110,130,209,230	\$100	
VAPH 110	\$175	
VAPH 151	\$225	
VAPH 157	\$250	
VAPH 210, 211	\$250	

	Course	Fine Arts Course Fee	Lesson Fee
VAPH 257		\$250	

Nursing/Assistant/MLT Course Fees

Students enrolled in certain courses will incur additional expenses listed in the table below. Additionally, students may have various fees for achievement tests and conferences that they must attend. Fees listed are subject to change.

Nursing Fees

Course	Course Fee	Lab Fee	Malpractice Fee	Testing Fee
ADRN111	\$1,090	\$35	--	\$212.50
ADRN112	\$1,090	\$35	--	\$212.50
NURS101	\$1,010	\$20	\$15	\$212.50
NURS102	\$1,010	\$20	\$15	\$212.50
NURS201	\$1,090	\$20	\$15	\$212.50
NURS202	\$1,090	\$20	\$15	\$212.50

Lab Fees

Course	Lab Fee
MEDA200	\$40
MEDA201	\$40
MEDA203	\$40
MEDA204	\$100
MDLB205	\$210
MDLB201	\$100
MDLB215	\$60
MDLB210	\$215
MDLB220	\$70
MDLB101	\$130

Patient Care Technician Fees

Students enrolled in certain courses will incur additional expenses listed in the table below. Fees listed are subject to change.

Patient Care Technician Fees

Course	Course Fee
HSCI 130	\$55
HSCI 200	\$55

Science Course Fees

Students enrolled in certain courses will incur additional expenses listed in the table below. Fees listed are subject to change.

Course Number	Course Name	Course Fee
BIOL101	Biological Science I	\$94
BIOL102	Biological Science II	\$83
BIOL110	Field Biology	\$10
BIOL121	Biological Principles I	\$210
BIOL122	Biological Principles II	\$223
BIOL181	Human Anatomy & Physiology I	\$225
BIOL182	Human Anatomy & Physiology II	\$216
BIOL220	Principles of Ecology	\$195
BIOL228	Microbiology	\$234
BIOT105	Intro to Biotechnology	\$65
BIOT125	Biotechnology Methods & Techniques	\$248
BIOT135	Biotechnology Methods & Techniques	\$248
BIOT205	Cell & Tissue Culture	\$255
BRFS201	Practical Malting and Brewing	\$50
CHEM100	Preparatory Chemistry	\$90
CHEM101	Chemistry A	\$90
CHEM102	Chemistry B	\$220
CHEM121	Chemistry I	\$220
CHEM122	Chemistry II	\$220
CHEM221	Organic Chemistry I	\$190
CHEM222	Organic Chemistry II	\$190
CISC110	Intro to Information Systems	\$65
CISC113	Visual Basic Programming I	\$65
ENGR112	Engineering Design	\$40
ENGR240	Intro to Circuit Analysis	\$195
ENGT240	Applied Circuit Analysis	\$195

Course Number	Course Name	Course Fee
ENGT241	Applied Analog Electronics	\$195
ENGT242	Applied Digital Electronics	\$195
NEUR121	Fundamentals of Neuroscience	\$195
PHYS106	Physics A	\$195
PHYS107	Physics B	\$195
PHYS121	Physics I	\$195
PHYS122	Physics II	\$195
SCIE103	Physical Geology	\$65
SCIE105	Intro to Environmental Science	\$65

RADI/Radiography Course Fees

Students enrolled in certain courses will incur additional expenses listed in the table below. Fees listed are subject to change.

Radiography Fees

Fee	Courses
\$25 each:	RADI 100
\$60 each:	RADI 105, 125, 205
\$120 each:	RADI 120
\$103 each:	RADI 200
\$80 each:	RADI 220
\$100 each:	RADI 310, 311

Chef Apprentice Course Fees

Students enrolled in certain courses will incur additional expenses listed in the table below. Fees listed are subject to change.

Chef Fees

Fee	Courses
\$40 each:	CULN 101, 102, 103, 104, 134, 136, 137, 155, 158, 291
\$80 each:	CULN 138, 139, 141, 142, 143, 144, 145, 150, 151, 152, 156, 160, 165, 285 292
\$120 each:	CULN 120, 121, 122, 127, 130, 131, 132, 133, 135, 293
\$160 each:	CULN 110, 111, 112, 113, 114, 115

Business & Innovation Fees

Fire Science Fees

Course Number	Course Name	Course Fee
FRSC-206	Fire Investigation I	\$50
FRSC-216	Fire Investigation II	\$50

Historic Preservation Fees

Students enrolled in certain courses will incur additional expenses listed in the table below. Fees listed are subject to change.

Historic Preservation Fees

Course	Course Fee
HIST 206	\$100
HSCI 207	\$100

All tuition and fees are due and payable at time of registration.

Financial Aid

Financial aid is any grant, scholarship, loan or employment opportunity with the express purpose of helping a student meet educationally related expenses while attending college. During the 2019-20 academic year, approximately 3,544 students received some form of financial aid. The total amount of financial aid received by these students exceeded \$16.4 million.

Financial Aid Office

The Financial Aid Office is located on the first floor of the Links Pavilion. Office hours are 8:30 a.m. to 4:30 p.m. Monday through Friday, during the Fall and Spring Semesters.

FastWEB

A Financial Aid Search Through the WEB and Internet Scholarship Search:

<https://www.fastweb.com/>

Dean's Academic Scholarships

A limited number of Dean's High School Academic Scholarships are available. Applicants must meet the following requirements at the time of application: Be a legal Bucks County resident and have applied for admission to BCCC by May 1, of the current year. Possess a minimum 3.0 high school GPA, be accepted for and maintain full-time enrollment for the Fall and Spring semesters and have graduated from high school by June of the current year. A recipient must continue to make Satisfactory Academic progress once enrolled and maintain a minimum cumulative GPA of 3.0 to receive the second installment for the Spring. Details and application can be found on:

<http://ac.bucks.edu/apps/scholarship/listing/credit/browse/>

Application Deadlines

Financial Aid Applications are accepted at any time during the year, with preference given to applications received by May 1st for students entering in the fall semester and by November 1st for new students entering for the spring semester.

Applications received after these dates will be considered Late Applications and will be reviewed after all on-time applications have received consideration. Late awards are dependent upon available funds.

If you apply by the above dates, properly complete the application, and we need no additional information or verification, you will be notified of your eligibility status prior to the start of the semester(s). If verification is required, additional information may be requested including a verification form and tax returns. The student must comply with verification requirements before any financial aid is processed. If corrections are required as a result of verification, the Financial Aid Office can make changes to a student's federal record electronically. If changes are made electronically, the Financial Aid Office will receive the corrected electronic ISIR.

Application Forms

Students applying for financial aid **MUST** complete:

- a Free Application for Federal Student Aid (FAFSA).
(Bucks County Community College's federal school code is 003239.)

In addition to the FAFSA form all students interested in obtaining a Federal Direct Loan, must complete:

- A Master Promissory Note
- A Loan Entrance Counseling Session
- A Loan Request form

Parents wishing to borrow a PLUS loan, must complete:

- PLUS Master Promissory Note
- Credit Application
- Plus Loan Request Form
- Entrance Counseling is required for PLUS borrowers with adverse credit, it is recommended for all to complete.

PHEAA STATE Grant Program may request additional information from any student who would like to be considered for a PHEAA State grant.

Eligibility

Eligible students are notified by electronic email. The majority of awards are made during the months of May, June, July, and August for students entering for the fall semester, and November and December for students entering for the spring semester. Eligible students receive a Financial Aid Award Notice, outlining awards being offered, and terms and conditions of those awards. Most awards are based upon financial need, and eligible students generally are awarded a combination of types of awards, referred to as a "financial aid package." This "package" is usually a combination of grant/scholarship, loan, and work-study opportunities. You may also view your financial aid package using the Student Portal under Self-Service.

Non-eligible students are notified in writing of the reasons why aid was refused, and may appeal this decision by directing a request for reconsideration, in writing, to the Financial Aid Office.

Please contact the Financial Aid Office with any questions.

Sample Budget

A sample budget, used for financial aid purposes during 2019-2020 for an in-county commuter student living with parents, enrolled at 14 credits per term is listed below:

Tuition and Fees	\$5,706
Room and Board	\$1,500
Books and Supplies	\$1,700
Transportation	\$2,970
Personal Expenses	\$1,350
TOTAL	\$13,226

General Application Eligibility Criteria

To apply for assistance, students **MUST**:

- be U.S. citizens or permanent residents;
- provide the BUCKS Registrar's Office with either an Official Final High School Transcript or Official GED Test scores;
- be enrolled or planning to enroll for at least six (6) credits for most programs; Federal Pell Grant eligibility has been extended to less than half-time students;

- be enrolled in a major on a degree-seeking basis leading to an Associate of Arts Degree or Certificate offered by the College. (NOTE: Students enrolling on a non-degree seeking basis are not eligible for financial aid. Some financial aid programs will not cover the College's Certificate Programs. Contact the Financial Aid Office for details.)
- not be in default status on a previously secured student loan;
- not owe a refund due to an overpayment received from a federal or state student aid program;
- be making satisfactory academic progress.

Verification

If the student is selected for verification, a school's financial aid administrator must confirm the information the student reported on the FAFSA is accurate. This is completed by requesting the appropriate information the student and their family used to complete the FAFSA. Usually this is done by requesting tax information filed by the student and, if applicable, by the student's parent(s) or spouse. At Bucks we also require students selected to provide a Verification Form as well. A student selected for verification will be sent an email requesting the information that is needed to complete this process. Failure to provide verification documents within the specified time frame will result in deactivation of their financial aid file, and no further processing will take place. If documentation is received after a student's file was deactivated, the file will be reactivated and processed, providing there is adequate time for delivery of aid and if funding is available.

Reminder to all students selected for verification. We are no longer able to accept paper copies of you and your spouse's or parental tax returns. We can only accept an IRS Tax Transcript for verification purposes. See link below on suggested ways to request your transcript. We still suggest that you retain copies of all your federal tax documents including tax returns, W-2 forms, 1099 forms, and any schedules submitted with your tax return in case of discrepancies. In addition to tax information, you may also be required to submit proof of separation/divorce, marriage licenses, Social Security ID, birth certificates, driver's license, and proof if you are a non-citizen or other legal documentation as requested to verify conflicting information. Please note that tax documentation may not be required if your FAFSA Application was completed using the IRS Data retrieval tool when you filed. Other verification documents will still be requested from you and your spouse, or parents. Please visit: [IRS Tax Transcript Request Instructions](#) for more information.

Enrollment Status

Eligibility for financial aid awards is contingent upon enrollment status throughout the semester. Some programs require students to maintain full-time status. Other programs require that students maintain at least half-time enrollment. In most cases, award amounts are dependent upon enrollment status. Adjustments in enrollment status either between or during semesters will result in adjustments to award amounts or cancellation of awards.

Auditing a Course

Students attending college and Auditing a course are not eligible to receive financial aid. Students must be enrolled in credit courses and receive a grade. Students that enroll as "Audit" do not receive a grade that will be applied towards the completion of their degree and therefore, Audit course(s) cannot be counted in awarding financial aid.

Satisfactory Academic Progress

To continue to be eligible for financial aid, a student is required, by federal regulations, to maintain satisfactory academic progress during study he or she is pursuing. This policy was

written to comply with current federal regulations and became effective in July 2011 updated June 2014.

1. A student's academic progress will be checked at the end of each semester. All prior semesters are reviewed whether a student has received financial aid during each semester.
2. Students who have attended Bucks County Community College for less than (2) two academic years must maintain a grade point average which complies with the following scale:

Credits Attempted G.P.A.

Includes "F" grades, Withdrawals (W) and Incompletes (I) and Transfers (TR)

0-8	no minimum
9-16	at least 1.00
17-30	at least 1.60
31-45	at least 1.75
46 or more	at least 1.85

3. Once a student attends Bucks County Community College for two (2) academic years* a student must have a grade point average consistent with graduation requirements. A grade point average that is considered to be consistent with graduation requirements is at least 2.00.
** For example, a student who attends fall 2019, spring 2020, summer 2020 and fall of 2020 has attended two (2) academic years for purposes of this policy. (Combined summer sessions will be treated as one semester.)*
4. In addition to the GPA requirement, a student must successfully complete sixty-seven (67%) (PACE) percent of cumulative attempted credits during their enrollment at the College. Total credits attempted include grades of F, Withdrawals (W), and Incompletes (I) and Transfer Credits (TR).
5. Once a student attempts more than 150% of the credits that it normally takes to complete his/ her program of study, he/she is no longer eligible for financial aid. Exceptions may be made for students who have changed their major. If a student wishes to be considered for such an exception, the student must complete an appeal form in the Financial Aid Office. If an exception is made to the maximum time frame for a student, due to a change in major, the Financial Aid Office will notify the student of the academic plan which must be followed.
6. Repeat courses will be counted towards total credits attempted and total credits completed for determining the required 67% credit (PACE) completion rate referred to in item #4 of this policy. Repeat courses will also be counted towards the 150% maximum credit limit referred to in item #5 of this policy. Financial Aid can be applied only once to repeat any course, where the student has received a passing grade of "A", "B", "C" and "D. Students who have failed "F" or withdrew from a course "W" in any previous attempts are not restricted by this one repeat limit. Finally, the grade earned by retaking a course is the grade, other than W, that is counted in the cumulative grade point average. For more information please review [Repeated Coursework](#).

7. If lack of academic progress results from either the death of a relative of the student, an injury or illness of the student, or other special circumstances, this policy may be reconsidered on a case-by-case basis. For special consideration, a student must complete an appeal form in the Financial Aid Office. If granted, an appeal the student must adhere to all terms of appeal; failure to comply will terminate this exception and student will no longer be eligible.
8. Students not meeting the satisfactory academic progress requirements according to federal regulations, defined as qualitative (GPA) and quantitative (PACE) may be reinstated for financial aid once they have regained their eligibility as noted on the "no progress" letter sent to students. In addition, they must also meet the grade point average requirement referred to in item #2 of this policy.
9. Federal regulations permit financial aid to be awarded for no more than 30 semester hours of remedial coursework. Once a student has attempted a total of 30 semester hours of remedial courses, no additional remedial courses will qualify for financial aid. English as a Second Language (AESL) courses are exempt from the remedial course limit. Remedial courses will be counted as attempted credits and calculated into the GPA. The PHEAA State Grant has other remedial requirements. Please see the rules and regulations in the PHEAA Grant eligibility notice provided to you with your state grant award notice.
10. Students who have been granted an "Academic Restart" approval. Please note: The granting of an academic restart does not automatically constitute eligibility for financial aid. Students must complete a Financial Aid Academic Progress Appeal Form that will be evaluated by the Financial Aid Staff and eligibility notification will be sent to the student.
11. Satisfactory Academic Progress also includes following the prescribed coursework of the student's current program of study. Students should note that the majority of courses they are enrolled in for each semester must apply toward their major at Bucks. This information can be found in the Progress tab in Self-Service Student Planning.

Class Attendance

To be eligible to receive financial aid, students must be attending class(es) on a regular basis. *Failure to attend classes is not considered to be an official withdrawal from class(es) or the College.* It is the student's responsibility to notify the Registrar's Office of intent to withdraw from class(es) or the College. Students who stop attending class(es), but fail to notify the Registrar's Office, will be required to repay any financial aid refund received to cover educational expenses during the time of non-class attendance.

Enrollment in a study abroad program approved for credit may be considered enrollment at Bucks County Community College for the purpose of applying for Title IV assistance. Please contact the Financial Aid Office for further information.

Students Convicted of Possession or Sale of Drugs

A federal or state drug conviction can disqualify a student for Federal Student Aid (FSA) funds. The student self-certifies in applying for aid that he is eligible; the Financial Aid Office is not required to confirm this unless there is conflicting information.

Convictions only count if they were for an offense that occurred during a period of

enrollment for which the student was receiving Title IV aid; they do not count if the offense was not during such a period. Also, a conviction that was reversed, set aside, or removed from the student's record does not count, nor does one received when she was a juvenile, unless she was tried as an adult.

[Financial Aid Penalties for Drug Violations](#)

Withdrawal from the College

Financial aid recipients withdrawing from the College should contact the [Financial Aid Office](#). This will ensure that all matters regarding financial aid awards, refunds, and student loan obligations are taken care of prior to leaving the College. It is the policy of Bucks County Community College not to grant leaves of absence. Students are considered to be withdrawn at the time they are no longer in attendance.

A student will be considered an unofficial withdrawal if such student receives financial aid and fails to earn a passing grade in at least one class in which he/she was enrolled. In this case, the Financial Aid Office will perform a Return to Title IV calculation and remove any unearned financial aid received by the student. If the removal of unearned financial aid results in an outstanding balance, the student will be unable to re-enroll until such time that the outstanding balance has been paid. Students not contacting the Financial Aid Office will be billed for any unearned financial aid received, and will be unable to re-enroll until such time that the resulting balance has been paid. Students with Federal Perkins Loans (formerly National Direct Student Loans), Nursing Health Professions Student Loans, and Federal Stafford Loans (formerly Guaranteed Student Loans) must contact the Financial Aid Office so that exit counseling can be conducted.

Please contact the [Financial Aid Office](#) if you are interested in receiving information regarding exit counseling required to be provided to student borrowers of a Federal Stafford Loan or Federal Perkins Loan. You may also contact the Financial Aid Office to receive terms and conditions of deferments of loans for service in the Peace Corps, under the Domestic Volunteer Service Act of 1973 or comparable volunteer service for a tax-exempt organization of demonstrated effectiveness in the field of community service. Finally, you may request, from the Financial Aid Office, information regarding the terms of any loans received, sample loan repayment schedules and the necessity for repaying loans.

Return to Title IV Refund Policy

All Title IV Aid recipients, who totally withdraw from classes at or before the 60% point in the semester, or if they have all "F" grades at the end of the semester, or if the student has a combination of grades including any "I" Incompletes will have a calculation performed to determine the amount of unearned aid that must be returned. Based on the withdrawal date recorded in the Office of Admissions, Records, and Registration or the last date of attendance recorded by the instructor, we determine how many calendar days a student has attended in the semester. We divide the calendar days attended by the calendar days in the semester to get the percentage completed. Total disbursed aid is then multiplied by this percentage completed to determine earned aid. If earned aid is less than disbursed aid, we must perform another calculation to determine how much of the unearned aid has to be returned by the college and how much has to be returned by the student. Once the amount of unearned aid that needs to be returned is determined, it must be returned to the Title IV aid programs in the following order:

- Unsubsidized Direct Stafford Loans (other than PLUS Loans)

- Subsidized Direct Stafford Loans
- Federal Perkins Loans
- Federal Direct PLUS Loans
- Federal PELL Grants for which a return of funds is required
- Academic Competitiveness Grants for which a return is required
- Federal Supplemental Educational Opportunity Grants (SEOG) for which a return is required
- Iraq and Afghanistan Service Grant for which a return is required

Payment of Financial Aid Awards

The College pays all financial aid scholarship, grant, and loan awards by direct credit to student accounts on a semester basis. Payments are credited to the student accounts after they have been awarded. Students must have returned all required forms as requested to be awarded. Payments are not applied or credited until after the refund period has ended for the regular semester. Enrollment in Modular courses may delay the payment of your aid, as students must be in attendance before payments can be made for the semester. Dropping credit hours and/or course withdrawal may result in the revision or cancellation of financial aid awards.

You may be able to charge your books if you have financial aid awards in excess of the amount needed to pay your tuition and fees. If you are able to receive a Bookstore voucher, a notice will appear on your WebAdvisor account under the Student Communication Area, click on My Documents to see if this code is on your account: **Book Voucher Eligible**. If this code appears on your account and you are **currently enrolled**, you can go to the Bookstore and purchase your textbooks. The notice will appear the day before the first day of the semester. You can purchase books using this virtual voucher starting the first day of the semester. *There is no physical voucher. Bookstore staff will look up your virtual voucher balance in our database.* Remember that a photo id is required and you have a designated time frame to use your voucher (typically the first 2 weeks of the regular semester). Vouchers expire as the payment process begins for the full traditional semester.

Financial Aid Refunds

Financial aid awards in excess of the amount needed to pay any outstanding balance owed to the College are refunded directly to students. Late financial aid awards are processed as soon as administratively possible. Late refund checks are issued to students throughout the processing year. In general, students can expect to receive their refund check within 14 days of the date their financial aid is paid to their student account, assuming that classes have started, the refund period has ended and there is no change in their enrollment or other eligibility criteria.

Change in Financial Circumstances

Students and/or parents who have experienced an unexpected reduction in income may complete a Special Condition Form with the Financial Aid Office. You must provide additional documentation such as tax returns, pay stubs, W2 forms, etc. Students/parents will be notified of the outcome in writing.

Reapplication for Financial Aid

All students must reapply for financial aid each year. New applications are generally available each January for the ensuing academic year. Students who have received financial aid during one academic year will automatically receive a federal renewal application. Preference is given to applications received by May 1st for the fall semester and November

1st for students entering in the spring semester. Applications received after the deadlines are processed as soon as administratively possible, dependent upon available funding.

Job Location Program

Students who are interested in securing part-time jobs during the semester are encouraged to contact the Job Location Coordinator in the Financial Aid Office, Newtown Campus. Students eligible for the Federal Work-Study Program may be placed in open positions within a few days. Although most of the open positions are filled at the beginning of each semester, a number of openings become available each month. Students not eligible for a part-time job through the Federal Work-Study Program will be referred to other College departments assisting the students with job location while enrolled. For additional information, schedule an appointment to see the Job Location Coordinator or Financial Aid Office.

Please contact the Financial Aid Office if you are interested in receiving our informational brochure on the Federal Work-Study Program, which outlines general conditions and terms applicable to the FWS Program.

You may view the current listings for the [Federal Work-Study Program](#). This website will allow you to search for Federal Work-Study positions and other employment opportunities outside of the college.

Bucks Financial Aid Programs

The College participates in all major federal and state financial aid programs. Descriptions of the various programs, including eligibility requirements, application procedures, and possible award amounts are summarized below. Award amounts and eligibility requirements are subject to change by state and federal legislation.

Contact the Financial Aid Office at Bucks to secure application forms. If possible, pick up the forms in person. For those unable to come to campus, the forms can be mailed. However, mailing will delay the application process at least two weeks. The FAFSA can be completed on-line at www.fafsa.gov.

FEDERAL PELL GRANT

SOURCE

Federal Government Program

WHO IS ELIGIBLE TO APPLY

Applicants must be:

1. U.S. citizens or permanent residents.
2. Enrolled or planning to enroll for at least six (6) credits, half-time status.
3. Federal Pell Grant eligibility is extended to less than half-time students.
4. Enrolled in a major on a degree- seeking basis.
5. Not in default status on a previously secured student loan.
6. Making "satisfactory academic progress."
7. A recipient of a high school diploma or a high school equivalency diploma (GED).

AWARD AMOUNTS

Yearly amounts range from \$500 to \$6,475 at Bucks. (Dependent upon eligibility and enrollment status.)

HOW ELIGIBILITY IS DETERMINED

Eligibility is based on the federal methodology needs analysis, student's enrollment status, and cost of attendance.

HOW TO APPLY

Complete a Free Application for Federal Student Aid (FAFSA). Renewal students should receive a renewal FAFSA automatically. The FAFSA can be completed on-line at www.fafsa.gov.

FEDERAL WORK-STUDY PROGRAM

SOURCE

Federal Government - 75%
Bucks - 25%

WHO IS ELIGIBLE TO APPLY

Applicants must be:

1. U.S. citizens or permanent residents.
2. Enrolled or planning to enroll for at least six (6) credits, half-time status.
3. Federal Pell Grant eligibility is extended to less than half-time students.
4. enrolled in a major on a degree- seeking basis.
5. Not in default status on a previously secured student loan.
6. Making "satisfactory academic progress."
7. A recipient of a high school diploma or a high school equivalency diploma (GED).

AWARD AMOUNTS

Amounts are determined by hourly rate of pay and number of hours per week. Awards generally range from \$1,000 to \$4,500 per year.

HOW ELIGIBILITY IS DETERMINED

Based on program guidelines and available funds.

Preference given to students applying before May 1st for the fall semester and November 1st for new students entering in the spring semester.

HOW TO APPLY

Complete a Free Application for Federal Student Aid (FAFSA). Renewal students should receive a renewal FAFSA automatically. The FAFSA can be completed on-line at www.fafsa.gov.

FEDERAL SUPPLEMENTAL EDUCATIONAL OPPORTUNITY GRANT PROGRAM (SEOG)

SOURCE

Federal Government - 75%
Bucks - 25%

WHO IS ELIGIBLE TO APPLY

Applicants must be:

1. U.S. citizens or permanent residents.
2. Enrolled or planning to enroll for at least six (6) credits, half-time status.
3. Federal Pell Grant eligibility is extended to less than half-time students.

4. Enrolled in a major on a degree-seeking basis.
5. Not in default status on a previously secured student loan.
6. Making "satisfactory academic progress."
7. A recipient of a high school diploma or a high school equivalency diploma (GED).

AWARD AMOUNTS

Yearly awards range from \$100 to \$1,000 per year.

HOW ELIGIBILITY IS DETERMINED

Based on program guidelines and available funds.

Preference given to students applying before May 1st for the fall semester and November 1st for new students entering in the spring semester.

HOW TO APPLY

Complete a Free Application for Federal Student Aid (FAFSA). Renewal students should receive a renewal FAFSA automatically. The FAFSA can be completed on-line at www.fafsa.gov.

FEDERAL DIRECT LOAN PROGRAM (BOTH SUBSIDIZED AND UNSUBSIDIZED)

SOURCE

Federal Government

WHO IS ELIGIBLE TO APPLY

Students intending to enroll on at least a half-time basis (six credit hours).

AWARD AMOUNTS

MAXIMUM AMOUNTS FOR DEPENDENT STUDENTS:

Academic grade level 1: \$5,500 per academic yr.

Academic grade level 2: \$6,500 per academic yr.

MAXIMUM AMOUNTS FOR INDEPENDENT STUDENTS:

Academic grade level 1: \$9,500 per academic yr.

Academic grade level 2: \$10,500 per academic yr.

HOW ELIGIBILITY IS DETERMINED

Eligibility is determined by the school, based upon certification information provided by BUCKS. Eligibility is based upon cost of education, expected family contribution, and other financial resources received by the student.

HOW TO APPLY

1. A Free Application for Federal Student Aid (FAFSA)/Renewal FAFSA
2. Loan Application or Master Promissory Notes may be completed at www.Studentloans.gov
3. Entrance Counseling session must be completed at www.Studentloans.gov
4. A Loan Request Form is available from the Financial Aid Office, on the web under Additional Financial Aid Forms
5. PLUS Loan Credit Applications can be completed at www.Studentloans.gov

FEDERAL PLUS LOAN

SOURCE

Federal Government

WHO IS ELIGIBLE TO APPLY

Parents of dependent undergraduate students. Students must enroll at least half-time.

AWARD AMOUNTS

Loan amount may not exceed cost of attendance minus financial aid student received.

HOW ELIGIBILITY IS DETERMINED

Eligibility is determined by the school, based upon certification information provided by BUCKS. Eligibility is based upon cost of education, expected family contribution, and other financial resources received by the student.

HOW TO APPLY

1. A Free Application for Federal Student Aid (FAFSA)/Renewal FAFSA
2. Loan Application or Master Promissory Notes may be completed at www.Studentloans.gov
3. Entrance Counseling session must be completed at www.Studentloans.gov
4. A Loan Request Form is available from the Financial Aid Office, on the web under Additional Financial Aid Forms
5. PLUS Loan Credit Applications can be completed at www.Studentloans.gov

HAPP-GROVER FUND OF THE BUCKS COUNTY FOUNDATION**SOURCE**

Happ-Grover Fund of the Bucks County Foundation

WHO IS ELIGIBLE TO APPLY

Students enrolled on at least a half-time basis who are from the Central Bucks County School District.

AWARD AMOUNTS

Yearly awards range from \$200 to \$1,000.

HOW ELIGIBILITY IS DETERMINED

Eligibility is based on federal methodology needs analysis, student's enrollment status, GPA, and residence in the Central Bucks County School District. Final eligibility is determined by the Financial Aid Office.

Other Financial Aid Programs

The College participates in all major federal and state financial aid programs. Descriptions of the various programs, including eligibility requirements, application procedures, and possible award amounts are summarized below. Award amounts and eligibility requirements are subject to change by state and federal legislation.

Contact the Financial Aid Office at Bucks to secure application forms. If possible, pick up the forms in person. For those unable to come to campus, the forms can be mailed. However, mailing will delay the application process at least two weeks. The FAFSA can be completed

on-line at www.studentaid.gov. The state of Pennsylvania offers a variety of grant opportunities through the PHEAA- Pennsylvania Higher Education Assistance Agency Special Programs, funding and availability is determined through PHEAA please check their website at www.pheaa.org for information regarding these special programs. We have information on our website for the [PHEAA STATE GRANT](#) as well.

PHEAA GRANTS

Pennsylvania Higher Education Assistance Agency Grants

SOURCE

Commonwealth of Pennsylvania

WHO IS ELIGIBLE TO APPLY

Students enrolled on at least a half-time basis (at least 6 credits) enrolled in majors leading to the A.A. Degree.

NOTE: *One-year Certificate Programs are ineligible according to State Regulations.*

AWARD AMOUNTS

Yearly grants are based upon a percentage of tuition

HOW ELIGIBILITY IS DETERMINED

Awards are determined by a State formula based on financial need.

HOW TO APPLY

Complete the Free Application for Federal Student Aid (FAFSA)/Renewal FAFSA and the PHEAA State Grant Application is available on the Web at www.pheaa.org

SCHOLARSHIPS

View the complete listing of the [Foundations scholarships available](#). There are also scholarship opportunities on www.fastweb.com which is a free scholarship search engine and can be found as a link on the Financial Aid homepage. There are other free search engines available that students can also use, beware of any scholarship searches that require a fee.

Registration Guidelines

Course Registration

For Continuing/Returning Students

Dates for course registration are announced by the Registrar's Office. Currently enrolled students are sent priority registration information from that office. Dates and locations for registration are also published in each semester's registration brochure and at www.bucks.edu/register.

Before course registration, students are encouraged to meet with an appropriate academic advisor. Please see the section below titled Academic Advising and be sure to note the steps on how to prepare for the advising appointment prior to course registration.

For New Students

Registration for new students who have been formally accepted to the College begins as early as April for the fall semester or November for the spring semester. Upon completion of placement testing, students are directed to sign up for an academic advising and registration appointment.

Late Registration

Late registration has been discontinued.

Students must register no later than one (1) day before the start of the term. For course-sections which begin later in the term, students must register at least one (1) day before the start-date of the section.

Academic Advising

Academic Advising assists students with setting educational goals, planning how to achieve those goals, and making informed decisions on matters related to academic success.

The advisor is a source of information about institutional policies, procedures, and programs, and helps students use College resources for integrating academic pursuits with personal and vocational goals.

It is best to meet with advisors well before course registration periods so that adequate time and attention can be devoted to student concerns, apart from the urgency of registration itself. Advisors are prepared to assist students in considering career choices, transfer of courses, selection of transfer colleges, major requirements, and course choices.

Advising Requirements

For enrolled degree-seeking students, Advisor approval is required in order to register for fall and spring courses.

Obtaining Advising

Students are encouraged to seek advising from advisors in their academic field of study. In October and March of each semester, enrolled students will be assigned to an advisor. Students are asked to connect with their advisor during the fall or spring semester in order to discuss course progress.

In order to prepare for the advising discussion, students should become familiar with required courses for their program of study and prepare a trial schedule of classes for the upcoming semesters.

Choosing Courses

Course Scheduling

Courses are offered at a variety of campus locations, times, days, and modalities. Students may need to schedule courses during other than morning hours. The large number of students, a limited number of classroom and other instructional spaces, parking, and food service capacities combine to make it impossible for all students to attend the College during the popular morning hours. Courses, therefore, are also scheduled during afternoon and evening hours and on Saturdays and are open to all students. In addition, courses are offered through online learning.

Course Selection

The ultimate responsibility for course selection rests with the student. The Advisor's function is to help the student identify degree/course requirements, alternatives, and to evaluate options.

Self-Service Student Planning is the most convenient way for students to find available courses at times and locations convenient to them.

Prerequisites

A prerequisite is a course condition or requirement which must be met before enrolling in a course. Students are not permitted to enroll in a course without first satisfying the prerequisite. Courses requiring prerequisites are noted in the College Catalog and course schedules. Requests for a waiver of prerequisites are considered by Assistant Academic Deans.

Corequisites

A corequisite is a course which is required to be taken simultaneously with another. For example: Preparatory Chemistry (CHEM100) must be taken in conjunction with College Algebra (MATH120).

Course Syllabus

A copy of the syllabus for each course offered by the College is available for reference by students in Department offices, the Office of the Provost/Dean, Academic Affairs, the Library and online.

Course Format

Every instructor is required to distribute a course format to students in a class. The course format contains information on the teaching methods to be employed in the class, student evaluation criteria and devices, required instructional materials, and other information pertinent to the organization and conduct of the class.

Student Schedules

A student's schedule is available in Self-Service or may be requested through the Registrar's Office.

Identification Cards

Identification Cards are required for all full-time and part-time students. Cards are issued by the Library and will be used for library and equipment check-out, as well as for admission to College activities. Loss of the I.D. Card should be reported immediately to the Library. There will be a replacement fee charged to reissue an I.D. Card.

Placement Testing

Effective May 20, 2020: Out of an abundance of caution and in compliance with the CDC's social distancing guidelines, Bucks County Community College is temporarily moving to a remote testing solution for placement testing. Students will be able to test at home through their own computers. For the Math Placement Test, a webcam, microphone, and desktop or laptop computer are required for this test. ***If you only have access to a Chromebook or iPad, please contact Testing at testing@bucks.edu for alternate instructions.*** Students must first apply to the College. Instructions for testing will be sent in their acceptance letter.

IF YOU HAVE ALREADY BEEN ACCEPTED TO THE COLLEGE AND NEED TO TEST, PLEASE EMAIL TESTING@BUCKS.EDU FOR INSTRUCTIONS.

However, AESL students must contact aeslcoordinator@bucks.edu for more information on placement testing options, advising, and registration.

New processes for prerequisite approval via transcripts from another college for guest and transfer students are posted on the [Registrar resource page](#).

If you have any questions regarding the placement tests you are required to take, testing waivers, or the next steps in the enrollment process, please email info@bucks.edu.

If you have questions regarding the tests themselves, you may speak to Testing Center staff during Testing Center Office Hours. Staff will be available to assist with any Placement Testing questions. Due to demand, there may be a wait before staff can speak with you. Please be patient.

For the Testing Center Office hours schedule, please visit our [Testing Center Office Hours schedule](#).

*** PLEASE CONTACT THE STEM DEPARTMENT AT STEM@BUCKS.EDU FOR QUESTIONS ABOUT CHEMISTRY PLACEMENT TESTING***"

As of the 2007 Spring Semester, Placement Testing is required of all incoming students at Bucks (students enrolling at Bucks for the first time). Students who were enrolled at Bucks prior to the 2007 Spring Semester are still under the previous rules, with Placement Testing required of all full-time students, and part-time students before registering for their 16th credit. These tests include:

The Writing Sample, used to determine English course placement, is required of all students who are planning to register for English Composition I (COMP110) or Business Communication (MGMT135).

The Mathematics Placement Test is used to determine the level at which a student is best prepared to begin the study of mathematics. The test is adaptive, which means that the computer automatically determines which questions are presented to the student based on responses to prior questions.

The Reading Placement Test measures vocabulary and comprehension.

The Chemistry Placement Test measures comprehensive, basic chemical vocabulary and math applications. The Chemistry Placement Exam is only required for students planning to enroll in CHEM121.

American English as a Second Language. Students for whom English is their second language should take the *American English as a Second Language (AESL)* placement test which consists of a 45-minute writing sample, a grammar test, and a reading test. An oral interview will be required. Students must contact the AESL Coordinator, at 215-968-8018, for information on testing, advising and registering for classes.

The purpose of placement testing is to assess the level of student learning and skills for placement at the appropriate level in courses. If test results do not meet the standards of college-level courses, students are required to register in courses which help them to improve their learning and skills and increase their opportunity to succeed in college work.

The placement tests are given on regularly scheduled days and at other times when demand is adequate. For additional Placement Testing information and to view the [Placement Testing Schedule](#).

Placement tests may not be taken a second time unless permission is granted by the Academic Department.

Placement Test Scores

Test scores are entered on transcripts for College use but are removed from those transcripts sent to off-campus locations, such as other colleges or employers.

Test scores are valid for placement purposes for three years. If a student does not enroll in the College within three years, new placement scores will be required.

Who Must Be Tested

- All applicants and reapplicants for full-time or part-time status;
- Students with a degree or course work from a foreign country's college or university;
- All students planning to enroll in reading, writing, or math courses, or CHEM121.

Exemptions from Testing and Waivers. Individuals qualifying for an exemption from Placement Testing must complete the Form available through the following link: [Waiver or Evaluation Form](#)

- **Previous Success in the College Level Course:**
Students who have taken English composition and/or mathematics courses from a regionally accredited college within the United States, and earned a grade of C or better in these courses, are exempt from Placement Testing for that course. In order to be eligible for this exemption, please contact your previous college(s) and request

that they mail an official copy of your transcript to Bucks County Community College's Office of Admissions.

- **Already Earned a Bachelors Degree:**
Students who have already earned a Bachelors degree from a regionally accredited college within the United States are exempt from Placement Testing. In order to be eligible for this exemption, please contact your previous college(s) and request that they mail an official copy of your transcript to Bucks County Community College's Office of Admissions.
- **Senior Citizens:**
Students 65 years of age or older are exempt from the Math and Reading Placement Tests, but must take the Writing Placement Test to register for COMP110.
- **Personal Enrichment:**
Students who at the time of application indicated they are enrolling at Bucks solely for personal enrichment (not seeking a degree or certificate program, or taking a course to transfer credit) are not required to take Placement Tests, unless they are enrolling as a full time student or in courses that specifically require Placement Tests.

Questions regarding exemptions from Placement Testing can be directed to the Office of Admissions, at (215) 968-8100, admissions@bucks.edu.

Testing Accommodations

If testing accommodations are necessary as a result of a physical or learning disability, notify the office of Disability Services, in advance, 215-968-8463 (V/TDD).

Use of Test Results

Depending upon placement test scores, students may be required to enroll in one or more of these courses:

AESL081 - Writing Fundamentals for International Students
AESL083 - Reading Fundamentals for International Students
AESL085 - Oral Communication Fundamentals for International Students
AESL101 - Writing Skills for International Students
AESL103 - Reading Skills for International Students
AESL105 - Oral Communicative Skills for International Students
READ090 - Introduction to College Reading
READ110 - College Reading and Study Strategies
COMP090 - Basic Writing
COMP107 - Introduction to Rhetorical Skills
MATH090 - Pre-Algebra
MATH095 - Basic Algebra
CHEM100 - Preparatory Chemistry

Students who test into the above courses should complete them as quickly as possible at a required rate of no less than one per semester of enrollment.

READING PLACEMENT

Score	Required Reading Course
Level 1 (ESL)	AESL103 Reading Improvement for International Students (a required course, must be taken the semester immediately following the test)

Level 1	READ090 Introduction to College Reading (a required course, must be taken the semester immediately following the test)
Level 2	READ110 College Reading and Study Strategies (a strongly recommended course but not required)
Level 3	No Reading Course Required

- Students with a Level 1 Reading score are limited in their enrollment to certain courses until they pass READ090 with a grade of C or better. Students who take READ090 must also successfully complete READ110 with a grade of C or better in the subsequent semester. All academic advisors have the list of currently approved courses for READ090 students. Students enrolled in AESL103 must next register for READ090 unless they take the placement reading test at the end of AESL103 and score at Level 2 or 3. Students must pass READ090 with a grade of C or better and a placement score of Level 2 or 3. Students enrolled in READ090 must next register for READ110 unless they take the placement reading test at the end of READ090 and score a level 3 and receive a C grade or better.
- Inquiries about the reading test, scores, or course placement should be directed to the Reading Coordinator in the Department of Language and Literature, 215-968-8133.

WRITING PLACEMENT

Score	Required Writing Course
	AESL081 Writing Fundamentals for International Students (students who score into AESL081 must also take AESL083, and AESL085)
	AESL101 Writing Skills for International Students (students who score into AESL101 are also required to take AESL103 and AESL105)
2	COMP090 Basic Writing
4	COMP107 Introduction to Rhetorical Skills
6	Depending upon major: COMP110 English Composition I or OADM110 Business Communication

- Students placed into AESL081 must complete with (grade C or better) AESL081, AESL083, and AESL085. Students placed in AESL101 must complete satisfactorily (C grade or better) AESL101, AESL103, and AESL105 in order to move on to other courses. Inquiries about AESL courses, AESL scores, or AESL course placement should be directed to the AESL Coordinator in the Department of Language and Literature, 215-968-8018. Students placed in COMP090 must complete the course with a C grade or better before they are permitted to register for COMP 107. Students placed in COMP107 must complete the course with a grade of C or better before they are permitted to register for COMP110 or OADM110.

- Each student planning to take COMP110 English Composition I or OADM110 Business Communication is required to write a multi-paragraph placement essay.
- Each essay will be read by two readers and scored 1 (lowest) - 6 (highest), corresponding to standards established by the Department of Language & Literature. A student who receives a 6 should take COMP110 English Composition I or OADM110 Business Communication, depending on major.
- Failure to write the placement essay means a student is not permitted to take COMP110 English Composition I or OADM110, Business Communication. If a student is required to take COMP090 or COMP107, registration for COMP110 or OADM110, Business Communication is not permitted until successful completion of the earlier writing course with a grade of C or better.
- Inquiries about placement test scores and course placement should be directed to the Department of Language & Literature, 215-968-8150.

MATHEMATICS PLACEMENT

Score	Entry Level Mathematics Course
1	MATH090 Pre-Algebra
3	MATH095 Basic Algebra
5	Depending upon major: MATH103 Intermediate Algebra or MATH110 Mathematics for Technology I or MATH101 Mathematical Concepts I or MGMT120 Business Mathematics
7	Depending upon major and previous coursework: MATH102 Mathematical Concepts II or MATH115 Elementary Statistics or MATH117 Finite Mathematics for Businesses or MATH120 College Algebra
8	Depending upon major: MATH118 Business Calculus MATH122 Trigonometry
9	Depending upon major: MATH125 Pre-Calculus
10	Depending upon major: MATH140 Calculus I

- In general, a Liberal Arts major could take either MATH101 or MATH102. Each course is independent of the other and either may be taken before the other.
- MATH117 is not a preparation for calculus. It is for students in majors in business, biology, information science, and social science.
- Students are not permitted to register for a course higher than the score level indicates but may register for lower level courses.

- Inquiries about the Math placement test or course should be directed to the Department of Science, Technology, Engineering & Mathematics, 215-968-8305.

CHEMISTRY PLACEMENT

- In order to enroll in CHEM121, students must take and pass the Chemistry Placement Exam irrespective of any prior courses they have taken or degrees they have completed.
- Inquiries about the Chemistry placement test or course should be directed to the Department of Science, Technology, Engineering & Mathematics, 215-968-8305.

Transfer of Bucks Courses to Other Schools

Decisions on the transferability of courses are made by the four-year colleges and differ from school to school. Transfer Services, 215-968-8031, offers materials and counseling helpful to students planning transfer.

Students should consult with Transfer Services as early as their first semester at Bucks rather than waiting until they are close to degree completion. Since policies and procedures may change at transfer institutions, students should maintain contact with Transfer Services and with their transfer school's admissions representatives during the course of their study at Bucks County Community College.

Course Audit

Students auditing courses are expected to attend classes regularly although they do not take examinations or receive a grade or credits for the courses. Standard tuition and fees are charged for audit registration. If space is limited, preference in registration will be given to those seeking academic credits.

Students wishing to audit the same course more than once must petition the Chairperson of the Department in which the course is offered for permission to register for the course. Under no circumstances, however, may the same course be taken for audit more than three times.

Students may register to audit courses or change their registration from audit to credit only during the specified drop/add period. Please note that if you audit a course you will not be eligible to receive financial aid for that course.

How to Make Changes after Registration

Changes of Curriculum

Students who wish to change their majors can do so using the [online form](#). For questions about changing your major, please contact the Registrar's Office at [215-968-8100](tel:215-968-8100) or email registrar@bucks.edu.

Drop and Add

Each semester begins with a period when courses may be added or dropped with no grade being recorded. Students must use Self-Service Student Planning to drop and add courses,

or submit the required forms to the Registrar's Office to have any changes officially recorded. Dates for this drop/add period (and related refund percentages) are published in each academic calendar.

Once the drop/add period ends for a semester, no further adds or late registration is permitted. Students may still withdraw from courses (with a grade of "W" recorded and no refund) until the date specified in the semester calendar. Any request to change to or from "audit" status must be submitted by the end of the drop/add period.

A course that begins later than the first week of a semester is known as a modular course. A modular course may be added no later than one day after its start date. Full refund for a modular course ends the business day before the course begins. Refund tiers for modular courses may be found on the [Tuition Refund Policy](#) page.

The drop/add period is intended to aid students in adjusting their schedules or courses due to unforeseen circumstances or academic considerations. Students are responsible for promptly completing missed assignments if they enter a course after it has begun.

Withdrawal

Instructor-Initiated. An instructor may withdraw students from courses for lack of attendance until the deadline for mid-term grades. Students will be notified by the Registrar's Office when an instructor has withdrawn them from a class(es). Students may appeal the withdrawal to the *Committee on Academic Performance* if they believe the instructor-initiated withdrawal is unjustified.

Student-Initiated. From the second week of classes (or its equivalent in modulars, summer and winter sessions) until the deadline for student-initiated withdrawal (see the College calendar for specific dates), students may withdraw from a course with a grade of W recorded on the transcript. The course instructor's signature is not required. No courses may be added. A grade of F will be given for withdrawals made after the deadline.

Failure to attend class is not an official withdrawal. Students who discontinue class attendance and who do not complete the official withdrawal procedures may receive a grade of F.

Students may withdraw from a course(s) by completing **the online [Withdrawal Form](#)**. The withdrawal becomes effective the day that the Registrar's Office receives the form. It must be received before the deadline which is stated in the College calendar.

Withdrawal after the Deadline. Any student who needs to withdraw from class after the withdrawal deadline, as listed in the College Calendar, must provide evidence of the circumstances which require the late withdrawal. The student must file a petition for withdrawal with the Committee on Academic Performance. Petition forms are available online, in the Registrar's Office, and the Director's offices at the Lower and Upper Bucks Campuses. If the appeal is denied by the Committee, the student may not withdraw from class. If the appeal is upheld and the instructor agrees with the Committee's decision, the grade will be changed to a withdrawal.

No appeal for a change of a grade to W will be considered after three years have elapsed since the end of the semester or session in which the grade was received.

Students completely withdrawing from the College must secure a clearance from the Financial Aid Office prior to submitting a withdrawal form.

Veterans' Registration Policy

Veterans' Course Scheduling Preference Policy

Policy 1.27 [Veterans' Course Scheduling Preference](#)

GENERAL

Bucks County Community College, in support of those that have served our country, will grant Veteran Students course scheduling preference for credit courses. At Bucks, this means that Veteran Students who have been approved for this preference, have no outstanding obligations, and have met all academic advising obligations, will be allowed to register on a designated day(s) prior to the first day of Priority Registration for the general student population (usually mid-April for Fall registration and mid-November for Spring registration). This opportunity is extended to all *full-time and part-time* Veteran Students, as well as active duty service members, whether or not they are receiving education benefits. In addition, dependents and family members receiving education benefits under the appropriate GI Bill® are eligible for this program.

A Veteran Student is a student who:

- Has served in the United States Armed Services, including a Reserve Component and National Guard
- Was discharged or released from such service under conditions other than dishonorable

Course Scheduling Preference is defined as:

- A designated day(s) whereby veterans and/or active duty service members may register for upcoming courses *prior* to the time when registration is opened to the general student population and/or other select groups of students that qualify for early registration.

If a Veteran Student is enrolled in one of the college's selective admission programs, the veteran student will receive preference provided all other eligibility criteria are equal (for example: GPA, class status, etc.)

Act 46 of 2014 requires public institutions of higher education in Pennsylvania to provide veteran students, as defined in the Act, with preference in course scheduling. Non-compliance may be reported to the Pennsylvania Department of Education by submitting the Higher Education Student Complaint form found at www.education.state.pa.us.

PROCEDURES

Veterans and/or their dependents or family members currently receiving benefits under the GI Bill® are automatically eligible to take advantage of priority registration and will receive an email alerting them to the priority registration dates. Additional notices will be posted on the website, in registration materials, in the catalog and in the Admissions, Records, Registration and Financial Aid Offices, as well as in other locations throughout the campus including the Veterans' Lounges on each campus.

Veterans who are not currently receiving benefits under the GI Bill® and active duty service members must complete the [Identification Form](#) for Priority Registration.

In order to exercise this benefit, a copy of this form, along with the Veteran's DD-214 or other discharge papers, or for active members, a copy of the active duty military ID, must be submitted to the Office of Admissions via one of the following methods:

- **Postal mail or in-person delivery** to: Bucks County Community College, Admissions Office, Links Pavilion, 275 Swamp Road, Newtown, PA, 18940
- **Email from your Bucks Student Email Account** to: VAbenefits@bucks.edu.

Students will receive confirmation of eligibility via their Bucks Student email.

Students will be directed to the Bucks website for a list of Priority Registration Dates.

Questions regarding this policy and/or procedures, should be directed to the Veterans' Coordinator.

"GI Bill®" is a registered trademark of the U.S. Department of Veterans Affairs (VA). More information about education benefits offered by VA is available at the official U.S. government website at www.benefits.va.gov/gibill.

Academic and Student Policies

Read Important College Policy Information

Bucks County Community College is committed to student success and the freedom to learn in a supportive environment. This commitment is served by consistent policy, governance and procedures that meet compliance standards and expectations. This information reflects a collection of policies, governance, and reporting procedures for Bucks County Community College.

In order to provide the maximum opportunity for student learning and to support the mutual respect necessary within the learning/teaching environment, students are expected to adhere to the policies and procedures set forth by the college.

This information is complete and accurate to the best of our knowledge. Bucks County Community College reserves the right to change or update policy and procedure as the college administration, faculty, and officers consider appropriate.

The full set of Policies and Procedures is available at <https://www.bucks.edu/policy/>.

- [Governance + Compliance](#)
- [Academic Policies](#)
 - 2.1 Full-Time Faculty Appointments
 - 2.2 Terms of Appointment
 - 2.3 Faculty Office Space
 - 2.4 Absences
 - 2.5 Faculty Course Scheduling
 - 2.6 Course Mileage Reimbursement
 - 2.7 Books Ordered for Review for Instructional Use
 - 2.8 Valid Grades
 - 2.9 Incomplete Grade
 - 2.10 Grade Changes
 - 2.11 Grade Challenges
 - 2.12 Grade Verification & Recording
 - 2.13 Interruption of Scheduled Classes for Special Campus Activities
 - 2.14 Definition of College Day and Year
 - 2.15 Assignment of Those Holding an Appointment to the Faculty
 - 2.16 Master Fine Arts Degree
 - 2.17 Faculty Emeritus
 - 2.18 Program Advisory Committees
 - 2.19 Library Materials Selection
 - 2.20 Credit Hours
- [Student Policies](#)

- 3.1 Admissions
- 3.2 Auditing Credit Courses
- 3.3 Shared Programs
- 3.4 Course or Curricular Changes by Students
- 3.5 Withdrawal
- 3.6 Faculty-Initiated Withdrawal
- 3.7 Drugs and Alcohol
- 3.8 Custodians of Educational Records
- 3.9 Student Responsibilities for Conduct
- 3.10 Student Body Bill of Rights
- 3.11 Academic Integrity
- 3.12 Academic Standing
- 3.13 Academic Restart Program
- 3.14 Vendors on Campus
- 3.15 Tuition Refund Appeal
- 3.16 Class Attendance with College-Sponsored Activities
- 3.17 Alternative Proctor Request Deadline

- [Human Resources Policies](#)
- [Information Technology](#)
- [Administration](#)
- [Advancement](#)
- [Forms + Records + Transcripts](#)
- [Consumer Information](#)
- [Holiday Policy](#)
- [Disclaimers](#)
- [Notice of Non-Discrimination](#)
- [Web Accessibility Statement](#)

Grading System

Each instructor will explain the grading system used in a course. Students are responsible for obtaining a clear understanding of the system.

Grades	Numerical	Quality Points
A	90-100	4
B+	87-89	3.5
B	80-86	3
C+	77-79	2.5
C	70-76	2
D+	67-69	1.5

D Lowest Passing Grade 60-66 1

F Failure Below 60

PA Pass* 70-100

NP No Pass* Below 70

W Withdrawn

I Incomplete (A grade of F is automatically recorded if course work is not completed within thirty calendar days after the start of the following academic year semester.)

AU Audit

*The addition of PA/NP grades is applicable only for credit courses affected by the COVID-19 pandemic of Spring 2020. A grade of PA or NP is not included in the calculation of GPA.

Advisory Grades

At the third week and midpoint of each semester an S (Satisfactory) or U (Unsatisfactory) grade is reported for each student officially enrolled in a course. This grade is advisory only, indicates the quality of the work up to that point of the semester, and is not a permanent part of the academic record.

Satisfactory Academic Progress

Policy 3.12 [Academic Standing](#)

To continue to be eligible for financial aid, students are required by federal and state regulations to make satisfactory academic progress towards the completion of their major.

To continue to receive financial aid from the federal aid programs, students must adhere to the "[Satisfactory Academic Progress](#)" policy outlined in the Financial Aid section of this catalog.

To continue to receive financial aid from the Pennsylvania Higher Education Assistance Agency (PHEAA), state regulations require that students be in good academic standing and progress an academic grade level for each year of assistance received. For the PHEAA Grant Program, students must successfully complete (Grade A, B, C, or D) at least twenty-four (24) credits for each academic year of state grant that is received.

Course Load

A full-time course load is 12-18 credits. A part time course load is 1-11 credits. Students wishing to register for more than 18 credits in a semester must obtain approval for the overload from their academic advisor or the Department Dean.

Credit Hour Policy

All courses taken for credit at Bucks County Community College that are applied to completion of degree and certificate requirements must conform to applicable federal and state regulations concerning the assignment of credit hours.

Bucks County Community College adheres to the U. S. Department of Education (34 CFR Section 600.2) definition of credit hour as ... *an amount of work represented in intended learning outcomes and verified by evidence of student achievement that is an institutionally established equivalency that reasonably approximates not less than:*

(1) One hour of classroom or direct faculty instruction and a minimum of two hours of out-of-class student work each week for approximately fifteen weeks for one semester or trimester hour of credit, or ten to twelve hours for one quarter hour of credit, or the equivalent amount of work over a different amount of time; or

(2) At least an equivalent amount of work as required in paragraph (1) of this definition for other academic activities as established by the institution, including laboratory work, internships, practica, studio work, and other academic work leading to the award of credit hours.

Pennsylvania Department of Education regulations state *Degree requirements stated (in this section) may be stated in terms of semester credit hours or quarter credit hours, as determined by the institution and conforming to generally accepted academic practices (PA Code §32.32.b)*, and require that each semester and session shall include no fewer than 750 minutes per credit of instruction. Further, according to PA regulations, *a semester credit hour represents a unit of curricular material that normally can be taught in a minimum of 14 hours of classroom instruction, plus appropriate outside preparation or the equivalent as determined by the faculty (PA Code §21.21.b)*.

All semester/credits awarded by Bucks County Community College will conform to the definitions provided above.

Registration, orientation and final examination periods shall be in addition to the periods described above.

The semester credit hour is the basic unit of academic credit. One semester credit is equivalent to one 50-minute hour of faculty instruction time per week for 15 weeks, and a minimum of two hours of out-of-class student work per credit hour per week. Fall and spring semesters run for 15 weeks, which does not include registration, orientation, or final examination periods. Summer, winter session, and modular (accelerated) sessions are typically less than 15 weeks but adhere to the policy in terms of meeting time and the amount of work required.

Typical instructional times for a standard (15 week) academic semester are three 50-minute sessions, or two 75-minute sessions, or one 150-minute session. Typical instructional times for summer, winter session, and modular classes are increased, based on number of available weeks, to provide the same number of instructional minutes (i.e. 750 minutes per credit).

Lecture Courses

Credit Hours/Instructional Time/Student Work Time

Credits awarded	Minimum Instructional time per week	Minimum instructional time over 15 weeks	Minimum out-of-class student work time over 15 weeks	Total instructional time and out-of-class student work time over 15 weeks
1	50 contact minutes	750 contact minutes	1500 minutes	2250 minutes
2	100 contact minutes	1500 contact minutes	3000 minutes	4500 minutes
3	150 contact minutes	2250 contact minutes	4500 minutes	6750 minutes
4	200 contact minutes	3000 contact minutes	6000 minutes	9000 minutes
5	250 contact minutes	3750 contact minutes	7500 minutes	11,250 minutes

Laboratory, Studio and Clinical Classes

These are courses with a focus on experiential learning under the direct supervision of a College faculty member wherein the student performs substantive work in a laboratory, studio, or clinical setting. The courses require at least an equivalent amount of work as required in the U. S. Department of Education definition of credit hour (above). Laboratory, clinical and studio courses credit hours are directed by requirements of accrediting agencies, course-to-course equivalencies with transfer institutions, and compliance with the Pennsylvania Transfer and Articulation Oversight Committee (TAOC).

Nursing clinical courses follow a formula of 3 contact hours per credit.

Studio art courses follow the formula required by the National Association of Schools of Art and Design (NASAD). All studio art courses meet a minimum of 4.5 hours per week in a 15-week semester.

STEM laboratory class ratios range from 1.3:1 to 2:1, depending on the course.

Credits are assigned per semester as follows

Class Format	Credits/Time
Lecture/Seminar	1 hour class instruction and 2 hours out-of-class student work time per credit per week
ELearning	1 hour contact instruction and 2 hours out-of-class student work time per credit per week
Nursing clinical	3 contact hours per credit per week
Studio art	4.5 contact hours per week
STEM lab courses	3-4 contact hours and 2-3 lab hours per week

Grade Changes and Challenges

The College provides an appeal procedure for students who believe that a recorded grade is not the one earned in a course. Students should first see the course instructor to resolve the matter. If resolution is not achieved, then the Department Dean should be consulted. The final step in the appeal process is the Committee on Academic Performance. It should be noted that only the instructor of a course makes a grade change. Other steps in the appeal process are advisory. Students are urged to retain all graded work until final grades have been received from the College.

No appeal for a change of a grade will be considered after three years have elapsed since the end of the semester or session in which the grade was received.

Student Academic Scale

Students enrolled at the College are governed by this student academic scale:

Cumulative Grade Point Average (C.G.P.A.)

Cumulative Credits Attempted	Probation	Academic Warning	Acceptable
0-8	-	.00-1.99	2.00
9-16	.00-0.99	1.00-1.99	2.00
17-30	.00-1.59	1.60-1.99	2.00
31-45	.00-1.74	1.75-1.99	2.00
46-	.00-1.84	1.85-1.99	2.00

A student's cumulative grade point average is determined by dividing the number of credits attempted into the quality points. For example:

	Credits	Grade	Quality Points
COMP110 English Composition I	3	B	3x3=9
PSYC110 Intro to Psychology	3	C	3x2=6

MATH101 Mathematical Concepts I	3	C	3x2=6
BIOL101 Biological Science I	4	B+	4x3.5=14
HLTH103 Life and Health	3	B	3x3=9
	16		44

Thus, the Cumulative Grade Point Average is $44/16 = 2.75$.

Acceptable: Cumulative grade point average (C.G.P.A.) of 2.00 or greater.

Academic Warning: An indication that students are experiencing academic difficulty and are "at risk" of not successfully completing their academic program.

Enrollment restricted to a maximum of 12 billable credit hours for the Fall and Spring semesters and a maximum of 6 billable credits in any summer session.

Academic Probation: A second level warning category. Students falling into this category are in serious academic difficulty and "at risk" of academic dismissal.

Enrollment restricted to a maximum of 7 billable credit hours for the Fall and Spring semesters and a maximum of 3 billable credits in any summer session, as well as other conditions as specified by the College. Appeals to enroll above the 7 credit limit will be heard by the Academic Performance Committee. Guidelines denoting acceptable and unacceptable appeals will govern all Academic Probation students.

Students who fall into one of the above categories and who pre-register for an upcoming semester will be restricted according to the conditions stated. Students who improve their academic status may adjust their schedules accordingly.

Academically Dismissed: A student who is on "Academic Probation" for two consecutive semesters and who earns less than a 2.0 semester G.P.A. will be separated from the college for the subsequent (fall or spring) semester. Further, the student will be prohibited from registering for any summer or intersession course while academically dismissed.

Students who have been dismissed must apply for readmission to the college. Permission to register (with attendant conditions) will be determined by the Academic Performance Committee. A formal appeal for reinstatement must be submitted to the Academic Performance Committee in the semester preceding the student's intended re-enrollment. Readmitted students will be designated "Academic Probation" and the conditions described for that category will apply.

A mandatory period of separation of two semesters will be required for students who are

“Academically Dismissed” for a second time. If a student is “Academically Dismissed” for a third time, a three-year period of separation will be required, at which time the student may be eligible for the “Academic Restart” program.

Credits Attempted: Includes all academic credits taken at Bucks County Community College for which the final grades of A, B+, B, C+, C, D+, D, F were recorded. If a student repeats a course, the most recent grade will take precedence over the former in determining credits attempted. (See Repeating Courses.)

Credits Earned: Includes all academic credits taken at Bucks County Community College for which the final grades of A, B+, B, C+, C, D+, D, CX, P were recorded. Credits earned also include credits accepted through CLEP, AP, and other means.

Quality Points: Are determined by multiplying the academic credit hours of a course by the quality point value of the grade received (A=4, B+=3.5, B=3, C+=2.5, C=2, D+=1.5, D=1, F=0).

Academic Restart

Policy 3.13 [Academic Restart Program](#)

Academic Restart is designed for students who attended Bucks County Community College in the past and compiled an unsuccessful academic record. The Academic Restart Program provides eligible students with an opportunity to redirect their academic goals or to renew their college careers. Before pursuing an Academic Restart, students must meet with a Bucks Counselor, Professional Advisor, or Academic Success Coordinator, to discuss all options for grade improvement. All those who are interested should be aware of the following:

- This **One-Time-Only** option permits students to reset both the Bucks County Community College Cumulative Grade Point Average (CGPA) and the number of cumulative credits earned **for D and F** grades.
- While coursework history is reflected on the transcript, associated **D and F grades** from that prior coursework are not counted in the CGPA. The record of previously taken courses and the grades earned in those courses will remain on the official and unofficial transcript.
- The Bucks County Community College Academic Restart Program only impacts courses that earned a **D and F grade**. Credits earned by evaluation, transfer from other schools, CLEP, the Life Learning Experience Assessment Program, Military Experience, Advanced Placement, and Corporate Training are not affected.
- Bucks County Community College courses with an earned grade of A-C will remain as part of the calculation of the CGPA and are eligible for credits earned.
- Students must apply **BEFORE** the Academic Restart process can begin.

To be eligible for the program, you must meet these criteria:

You have not been enrolled at Bucks County Community College for a period **of three (3) consecutive years** (six (6) academic semesters).

You were **never previously granted** an Academic Restart.

Enroll and complete a minimum of seven (7) credits within their first year and maintain a minimum of a 2.0 GPA. Students may not take more than 13 credits in their first semester.

Students **must** enroll and successfully complete COLL 101 College Success Seminar. If previously taken, students **must** enroll in COLL 105 Strategic Learning Seminar. Completion of COLL101 or COLL105 must occur within one (1) year of applying for the Academic Restart.

Students have **one (1) year** from application to meet the above requirements as listed in this section.

To inquire about the Academic Restart Program, you can email counseling@bucks.edu to meet with a Bucks counselor.

Completing the Semester, Completing the Major

Final Examinations

Final examinations, for those courses in which instructors require them, are scheduled during the week following the last day of classes. Examination periods are two hours long.

The schedule of final examinations is posted throughout the campus several weeks before the end of classes and instructors giving final examinations in their courses announce in class the day, hour, and place of the examinations.

Students with conflicts in their final examination schedule take one of the examinations during the scheduled hour and arrange in advance with the department office to take the other at another hour. All final examinations are to be completed by the close of the final examination period.

If students must miss a final examination, notice should be given to the instructor or Department office in advance to avoid a failing grade on the examination. The instructor will determine if and when the final examination will be given.

Repeating Courses

Students may repeat courses in which they earned grades of D or F to improve these grades. Students wanting to repeat a course in which a C or higher grade was earned must petition the Assistant Academic Dean of the department in which the course is offered for permission to register for the course.

The grade earned by retaking a course is the grade, other than W, counted in the cumulative grade point average. The previous grade will continue to be recorded on the transcript but the semester hour and quality points will not be used in computing the total semester hours or cumulative grade point average.

Revisions in Major

If revisions occur in a major, the College follows the principle that students will not be required to spend more time taking additional credits to complete the revised major or be hindered in their normal progress toward the completion of the major in which they are already enrolled.

Students changing their major to one with revised requirements must meet the new requirements in effect at the time of their entry into that major, regardless of the date of their admission to the College.

Students already enrolled in a major in which revisions occur may elect to follow the revised major. In this case, students assume the responsibility if they must spend more time taking additional credits to complete their requirements.

Honors Lists

The academic distinction of students is recognized by placement on either the President's Honor List or the Dean's Honor List.

For the President's Honor List, full-time students are recognized when they have completed twelve or more semester credit hours with a semester grade point average of 4.0. Part-time students are recognized at the end of the semester when they have completed a unit of at least twelve semester credit hours with a unit grade point average of 4.0.

For the Dean's Honor List, full-time students are recognized when they have completed twelve or more semester credit hours with a semester grade point average of 3.5 or higher with no grade below C. Part-time students are recognized at the end of the semester when they have completed a unit of at least twelve semester credit hours with a unit grade point average of 3.5 or higher with no grade below C.

A student on the President's Honor List will not be included on the Dean's Honor List.

If a part-time student who has not yet accumulated a unit of twelve semester credits enrolls as a full-time student, he or she is evaluated at the end of the full-time semester. If he or she then returns to part-time status, the accumulation of a new unit of twelve credit hours begins.

Graduation

Students anticipating graduation will receive an email sent to their Bucks student email account halfway through the term in which they are expected to graduate. The "Notice of Potential Graduation Eligibility" email will contain information on graduation,

commencement, cap and gown ordering, and diplomas. Students who believe they are graduating and do not receive the email notification should contact the Registrar's Office.

Students expecting to earn a degree or certificate must complete the requirements of that degree or certificate as listed in the college catalog. The waiver or substitution of any course requirements must be exceptional and educationally justifiable. An official waiver or substitution must be approved by the appropriate Academic Department and the Associate Provost, and must be forwarded to the Registrar's Office prior to the end of the term.

Teacher Certification

In Public Schools

Credits earned at Bucks County Community College are not acceptable for the renewal of the Instructional I (provisional) Certificate and conversion to the Instructional II (permanent) Certificate. According to Section 49.84 of the Certification Regulations, credit "must be earned at a State approved baccalaureate degree granting institution."

In Private Kindergartens, Private Nursery Schools, and Private Child Day Care Centers

Assistant teachers may become certified after two years of successful teaching experience and 24 additional credits. This experience must be accomplished through the supervision of a certified director or someone holding a comparable public school certificate. The additional credits must be taken after the issuance of the assistant teacher certificate and be related to early childhood education.

Course Learning Modalities and Online Learning

Course Learning Modalities

Synchronous: Classes will use technology like Zoom for classes at **designated times**, as listed in the schedule. This means classes include regular, virtual class meetings where **students can interact with instructors and fellow classmates**.

Asynchronous: Classes are taught using a Learning Management System (LMS) like Canvas. All materials are shared via this tool. These classes **do not** include a virtual meeting format. Designated meeting **times are not required** and all work can be done virtually. Online courses do have deadlines for submitting completed work and taking quizzes and exams; they are not self-paced.

N, B, U	Newtown, Lower Bucks, Upper Bucks	100% in person face-to-face classes meeting on a campus
M	Mixed Modality	Classes meeting part of the time synchronously using a digital component (such as Zoom) and a balance of online, asynchronous learning.
T	Technology	Classes meeting all of the time synchronously using a digital component (such as Zoom).
H	Hybrid	Classes meeting face-to-face on a campus part of the time with an online, asynchronous component the other part of the time.
HT	Hybrid Technology	Classes meeting in person face-to-face on a campus part of the time with a remote, synchronous component (such as Zoom) for the other part of the time. All students and faculty are on campus at the same time for some sessions; likewise, all students and faculty are on Zoom together for other sessions.
HY	Hyflex	Classes meeting in person face-to-face on a campus part of the time with a remote, synchronous component (such as Zoom) for the other part of the time. Some students will be attending on campus while others are on Zoom during the same session, such that not all students are together on campus at same time.
E	E-Learning/Online	Fully asynchronous online learning. No course meeting days/times.

Online Learning

Bucks Online eLearning courses provide the most flexibility for students, as they are taught completely online. Your class work and interactions with your instructor and fellow students occur primarily online. Online instruction may be supplemented with printed or online textbooks, online content from textbook publishers, and online videos. . Some courses

require proctored testing. Email, discussion groups, and chat rooms provide a high degree of student-to-student and student-to-instructor interactivity.

Some eLearning courses may allow students to proceed at their own pace; most follow a schedule provided by the instructor.

eLearning courses are fully accredited college courses. The credits earned and requirements fulfilled by them are identical to those for face-to-face sections of the same course. Application and registration procedures, tuition/ fees, assessment tests and prerequisites are also identical to face-to-face classes. eLearning courses appear exactly the same as face-to-face courses on transcripts. All courses have specific beginning and ending dates. For greater scheduling flexibility, eLearning courses are also offered in 4, 6, 8, and 12 week formats with additional starting dates in February, March, June, September, October, and December.

Students taking online courses should have regular access to a computer with a high speed Broadband Internet Connection.. Comfort using a word processing program, web browser and email is also required. The Newtown, Upper Bucks, and Lower Bucks campuses have open access computer labs available for student use.

Online Learning provides the flexibility that mature students need to juggle their many responsibilities while advancing their career and personal goals in a more convenient manner. Successful eLearning students include those with full/parttime jobs, parents with young children, the elderly, those on rotating work schedules, the disabled, and anyone who has a preference for learning from home.

If you answer yes to the following questions, then an online class may be for you:

- I am self-motivated to study and self-disciplined at completing assignments without close supervision.
- I have time available each week to devote to the coursework.
- I have reliable access to an internet-connected computer .
- I usually have no difficulty understanding texts and written assignments.
- I am comfortable using, or learning to use, technology.
- I am comfortable communicating through email and/or discussion boards.

There is a strong correlation between a student's success in online classes and his/her maturity, past educational performance, and motivation. Students who are aware of the additional work and discipline required to excel in an online class are much more likely to succeed in that environment.

To learn more about our online offerings, access <https://www.bucks.edu/bucks-online/majors/>

For support or general questions regarding online learning, contact the Bucks Online Office via phone at 215-968-8052, email online@bucks.edu.

Continuing Education & Workforce Development

Professional and Workforce Development Programs

These programs assist students in acquiring new skills and/or enhancing their existing knowledge in a variety of career areas.

Professional Development

In addition to providing professional development programs that can increase competencies in a variety of skill areas, Continuing Education and Workforce Development offers specific programming to assist individuals in maintaining their professional credentials:

- Allied Health Professionals
- Certified Alcohol Counselors
- Certified Public Accountants
- Child Development Associates
- Food Service
- Information Technology Professionals
- Management
- Nursing
- Radiography
- Real Estate
- Tax Collection
- TOEFL Test Preparation

Professional Development: <https://www.bucks.edu/businesscareer/pro-dev/>

Center of Workforce Development

Our Center for Workforce Development provides high-value training, working with businesses to customize courses to enhance employee skills, on campus or at your site – you decide. Our expert staff works to identify specific skills currently lacking and to prepare for future needs. We then tailor programs, drawing from a robust network of recognized trainers to offer the best training at competitive rates. Investment in talent drives employee engagement to help you achieve your business objectives.

We also provide

- Consultation and training plan development
- Continuing professional education

If you're looking to improve the performance and skill sets of your employees, add Bucks to your team. Our goal is to help you create the most productive team to drive growth and success. Contact us today for a free consultation on how we can help.

Workforce Development Services Include:

- [Industry-specific skills](#) such as Construction Estimating, Management, and Supervisory Series; Electrical Pre Apprenticeship Program; Green Technician Basics/Technical Core Skills; Sustainable Building Advisors Program; Large Wind Turbine Technician; Mechanical Maintenance/Mechatronics Technician Fast Start and many more. (Certain programs prepare individuals for industry-standard certification or state licensure examinations.)
- Business-specific [customized courses and job training programs](#)
- [Computer skills](#)
- [Professional/personal development](#)
- [Lean Six Sigma](#)
- [Project Management](#)
- [ServSafe® for food professionals, English and Spanish](#)
- [Entrepreneurs](#)
- [Technical Writing](#)
- Banking/Teller Excellence (Banking) coming soon!

Workforce Development: <https://www.bucks.edu/workforcedevelopment/>

Allied Health Programs

Continuing Education for Nursing and Allied Health is responsive to the needs of the healthcare community for career training, enhancement, and advancement. Our course offerings provide quality educational opportunities for a variety of practice specialties for those who wish to continue their professional and personal development. Programs with an asterisk (*) also prepare individuals for industry standard certification of state licensure examinations. Programs include:

- CPR & First Aid*
- Continuing Education for Nurses
- Dental Assisting
- EKG Technician
- Nursing Review & Reentry
- Pharmacy Technician
- Phlebotomy Technician

Continuing Healthcare Education (Non-Credit):
<https://www.bucks.edu/healthcare/conedhealth/>

Information Technology Academy

The IT Academy provides the community with cutting edge, career focused training that prepares our diverse student population for vendor and vendor neutral certifications in an increasingly technology-oriented society. Certified instructors focus on practical, hands-on applications throughout all courses and programs. The IT Academy promotes career awareness, skill development, and workplace experiences within the Information Technology field. Programs with an asterisk (*) also prepare individuals for industry standard certifications. Programs include:

- Computer Fundamentals
 - Introduction to Personal Computers
 - Introduction to MAC OS X
 - Introduction to SQL
 - Microsoft Windows 7 & Windows 8*
 - Microsoft Server Fundamentals*
 - Microsoft Networking Fundamentals*
 - Microsoft Security Fundamentals*
 - Microsoft Database Fundamentals*
 - Microsoft Office 2010 (Excel, Word, Access, PowerPoint, Outlook)
 - Microsoft Project 2010
- CompTIA
 - A+ Certification*
 - Net+ Certification*
 - Linux+ Certification*
 - Security+ Certification*
- Web Design and Development
 - HTML, XHTML & CSS
 - Java Scripting
 - PHP/MySQL
 - Adobe Dreamweaver, Illustrator, Photoshop, Flash, InDesign, Lightroom
- Microsoft
 - Visual Studio 2010 .NET
 - Microsoft Windows Server 2008 R2 Certification*
 - Microsoft SQL Server 2008 Database Administration*
 - Microsoft SQL Server 2008 Business Intelligence Developer*
 - Microsoft Exchange Server 2010, Design and Implementation*
 - Microsoft SharePoint Server 2010 Certification*
- Google Android Programming, Google AppEngine, Google Cloud
- Cisco CCNA Certification*
- Cisco CCNA Security*
- Cisco CCSP Security*
- Oracle Database Administration*
- VMware Server & Workstation Certification*
- Healthcare
 - CompTIA Healthcare IT Technician Certificate
 - Introduction to Healthcare IT and Medical Office Applications
 - Healthcare Technology Implementation Support Specialist
- Authorized Testing Center

- Prometric Testing Center
- Pearson VUE Testing Center
- Certiport Testing Center
- Memberships
 - Microsoft IT Academy
 - Cisco Networking Academy
 - CompTIA Member

Information Technology Academy: www.bucks.edu/itacademy

Business and Industry Services

The Center for Workforce Development provides customized training services for employers seeking to increase productivity, improve quality, and retain employees through workforce Education. Area of expertise include

- AutoCAD
- Business Writing
- Computer Software Applications
- Customer Service
- Diversity Awareness
- Effective Communications
- Executive Management
- English as a Second Language
- First Aid & CPR*
- Industrial Safety
- Lean Six Sigma
- Mechanical Maintenance/Mechatronics
- Presentation Skills
- Skills Assessments
- Spanish for the Workplace
- Supervisory and Leadership Training
- Teambuilding
- Train-the-Trainer
- Employee Safety

Services are delivered at your location or one of our sites located throughout Bucks County. We offer relevant flexible, short format workshops designed to meet your objectives, and scheduled at your convenience.

Workforce Development: <https://www.bucks.edu/workforcedevelopment/>

Fire and Emergency Services Training

The Bucks County Public Safety Training Center, located in Doylestown, and the Lower Bucks Public Safety Training Center, located in Bristol, are a partnership between the County of Bucks and Bucks County Community College. The Public Safety Training staff provides international, national, and state-level fire, rescue, emergency medical, and hazardous materials training at both facilities and off-site locations.

The professional certification testing offered has been examined and accredited by the National Professional Qualifications Board (Pro Board). The Department of Public Safety Training & Certification offers professional certification in over 45 NFPA (National Fire Protection Association disciplines.)

- 215-340-8417 or 1-888-BUCKS 77

Fire and Public Safety: <https://www.bucks.edu/publicsafety/>

Online Learning

Continuing Education online courses provide the opportunity for students to continue their education by choosing from a variety of online courses in the following areas:

- Computers and Information Technology
- Foreign Language
- English as a Second Language
- Industrial Technology & Safety Skills
- Management and Leadership
- Professional and Personal Development
- Adult Literacy/Employability Skills

We also offer online certification and license testing, workplace assessments, and educational and career guidance. Please visit us online at www.bucks.edu/actonline.

Adult Education Programs

Adult Education Programs are offered to county residents seeking to upgrade their basic skills or prepare for the GED exam. For program information call 215-968-8553. Employment assistance is available at the Team PA CareerLink sites in Perkasi 215-258-7755 and Bristol 215-781-1073.

Non-Credit American English as a Second Language

Non-credit AESL courses are designed for beginning through advanced English language learners who are not pursuing a degree at this time.

- Non-credit AESL courses are a lower-cost alternative to credit courses and the tuition includes all books and fees. Most 24-hour courses cost \$220; most 48-hour courses cost \$340. Non-credit courses do not qualify for financial aid through our college.
- To learn more, view information about [non-credit ESL courses](#), or contact the Continuing Education office at 215-968-8409 or coned@bucks.edu.

Practical Nursing Program

The PN program is provisionally approved by the Commonwealth of Pennsylvania State Board of Nursing. For information on this program, please call 215-968-8316.

Nurse Aide Training Program

The Nurse Aide Training Program is an intensive, 120-hour course consisting of classroom instruction, skills lab experience, and hands-on training at a clinical site. Upon successful completion, students will be eligible to take the National Nurse Aide Assessment Program (NNAAP) Examination to enroll in the Pennsylvania Nurse Aide Registry. For more information please call 215-968-8482.

Cultural Programs

Each year the Cultural Programs Office presents a variety of musical and theatrical programs of the highest quality aimed at providing the entire family with opportunities for cultural enrichment. Other College organizations sponsor concerts, art exhibits, poetry readings, music and theatre programs, as well as film and lecture series for both students and the public. For a complete brochure listing these events, call 215-968-8087.

Personal Growth and Enrichment

Opportunities for personal growth are offered in art, cooking, culture, fitness, health, language, English as a Second Language, and more. In the summer, the Kids on Campus program for children provides a variety of enriching experiences, which are both fun and challenging. Additionally, enrichment programs for seniors are available both on and off campus at many retirement communities. For complete information, on our programs, call the Office of Continuing Education at 215-968-8409.

Personal Enrichment: <https://www.bucks.edu/enrichment/>

Transferring

Bucks transfer planning services are offered at all campuses and include individual transfer planning appointments, an [extensive website](#), and transfer fairs. Educational Planning Advisors/Transfer Specialists are available to assist Bucks students with decision-making for the transfer planning process. Call 215-968-8031.

Begin Here . . . Go Anywhere

Why begin at Bucks if your goal is a bachelor's degree?

Financing the cost of a four-year college degree is a major investment for most families. You can decrease the cost of your education with one simple decision. Attend Bucks County Community College and take courses that will meet the requirements of the first two years of a bachelor's degree. Then transfer your Bucks credits to the bachelor's degree program of your choice.

Begin planning early!

Early planning leads to successful and smooth transfers. The process of transfer planning involves outlining a schedule of courses which can lead to both a Bucks associate degree and a bachelor's degree of your choosing. It helps assure a smoother path to reach your academic goals.

Begin planning during your first semester at Bucks. Even if you are unsure of your major or transfer school, Bucks Educational Planning Advisors/Transfer Specialists can help you take the steps toward setting your goals and making decisions.

Bucks Transfer Services provides individual transfer planning appointments, an [extensive website](#), and Transfer Fairs. Many colleges and universities welcome transfer students from Bucks. Representatives from these schools visit Bucks campuses during Transfer Fairs to talk directly with students about their transfer opportunities. The schedule of [Transfer Fairs](#) is on the Transfer Services web site. See www.bucks.edu/transfer or call 215-968-8031 for more information or to schedule an appointment.

While planning your Bucks courses, you should be aware of the following.

- If you need to work on basic skills / developmental education and are required to take courses to prepare for college-level work, these courses may not transfer.
- Certain occupational programs of study prepare students for immediate employment rather than for further education. Therefore, courses in these programs may not transfer to some colleges.
- A course in which you receive a D grade may not transfer.
- Too many courses in your major or in one area of study may not fit into the requirements of the program you plan to follow when you transfer.
- A lack of knowledge of the requirements for the bachelor's degree or for your major at the transfer college may result in your taking courses that are not appropriate for the major that you plan to study.
- Schools have a limit on the number of credits that are accepted for transfer.

Transfer Agreements

Bucks courses transfer! Even without formal agreements, your Bucks program can prepare you for the college or university of your choice. However, a wide variety of colleges and universities have made the transfer planning process even smoother for Bucks students by entering into several types of transfer agreements.

- **Core-to-Core Agreements** mean that, with the completion of an associate degree, the general education (core) requirements have already been completed when you transfer to the agreement school.
- **Transfer Intent Agreements** (sometimes called **Dual Admission Agreements**) assure admission (either to the school or only to specific programs) when students complete a Bucks degree and meet certain admission requirements.
- **Program-to-Program Agreements** outline exactly what courses a student should take as part of an associate degree in order to transfer at the junior level in a specific major. Bucks has program agreements with many schools. These valuable advising guides can be found on the [Transfer Services website](#).
- Many schools have given us information specifying how Bucks courses transfer to their colleges. [Course Equivalency lists](#) can help you choose transferable courses.

Various schools have several types of agreements with Bucks. For more information on Bucks transfer agreements, contact Transfer Services at 215-968-8031 or transfer@bucks.edu, or visit www.bucks.edu/transfer.

Pennsylvania State System of Higher Education (PASSHE)

There are transfer advantages for Pennsylvania community college students who transfer to one of the universities of The Pennsylvania State System of Higher Education (PASSHE). PASSHE includes the following PA Universities: Bloomsburg, California U. of PA, Cheyney, Clarion, East Stroudsburg, Edinboro, Indiana U. of PA, Kutztown, Lock Haven, Mansfield, Millersville, Shippensburg, Slippery Rock and West Chester.

The PA Transfer Credit Framework was developed among these universities and PA community colleges. This Framework allows students to transfer up to 30 credits of foundation courses from Bucks County Community College to any of the PASSHE universities or other PA community colleges and have those courses count toward graduation. The Framework includes courses in English, public speaking, math, science, art, humanities, history and the behavioral and social sciences.

Additionally, there are Statewide P2P Articulation Agreements that allow students who graduate with specific associate degrees to transfer as juniors into a bachelor's degrees in similar fields of study at PA TRAC colleges.

The website www.PAcollegetransfer.com outlines how to work with a transfer advisor to plan a smooth transfer. It also provides information on the transferability of Framework courses to any of the PASSHE universities. In addition, a number of statewide program articulations are being developed and will be available on the same website.

Academic and Student Services

Academic Advising

Advising is a process by which students work with faculty or professional advisors to discuss appropriate course selections and future educational plans. Discussion topics may include:

- progress toward degree completion
- understanding the college's curriculum & policies
- academic success strategies
- career objectives and transfer assistance

Students following a specific major or degree program are strongly encouraged to seek academic advising from faculty in the academic department in which their major is housed.

The Accessibility Office (TAO)

Students with disabilities who may be eligible for reasonable accommodations should request them through this office. All accommodations are tailored to the individual needs of each student based on their documentation presented to the Accessibility Office (TAO). All accommodations are in accordance with the Americans with Disabilities Act of 1990 (ADA), the ADA Amendments Act (ADAAA) of 2008 and Section 504 of the Rehabilitation Act of 1973. Students are strongly urged to contact this office for information prior to or immediately after registering for classes by calling 215-968-8182, or contacting accessibility@bucks.edu. Note that faculty are not required to provide accommodations unless the student has registered with the Accessibility Office. Students who need accessible parking should contact The Office of Security and Safety, 215-968-8911.

American English as a Second Language Program

The American English as a Second Language (AESL) Program offers quality courses and services to residents and employers in Bucks County. The program provides students with multi-level AESL courses in grammar, reading, writing, listening, and speaking skills, and with services in advising, assessment, and placement. Credit courses in AESL are listed in the catalog. Non-credit AESL courses are listed in the Continuing Education brochure. For further information about credit AESL courses, please call the AESL coordinator at 215-968-8018. Non-credit AESL courses are listed in the Continuing Education brochure. For further information about credit AESL courses, please call the AESL coordinator at 215- 968-8018.

For further information visit non-credit AESL courses or call 215-968-8409 or email shadym@bucks.edu. For further information about non-credit AESL in the workplace, call the Workforce Development training at 215-504-8621.

Bookstore

The College Bookstore, located on the second floor next to the library, is a self-service operation for service to students, faculty, and staff. In addition to the required materials for all classes, the Bookstore carries stationery and art supplies, clothing, gift items, textbooks, computers and small electronics. The Bookstore also price matches and has financial aid available for students who qualify!

Refunds, under certain conditions, are allowed. See [policy](#) posted in Bookstore and KEEP YOUR RECEIPT.

The Bookstore conducts a used book buy-back at the end of each semester. Watch for dates posted on bulletin boards throughout campus, or advertised on the television monitors.

View the [store hours](#)!

Center for Student Employment and Career Development

The Center for Student Employment and Career Development (formerly Career Services) provides career and job planning services and occupational information resources for people who are undecided about choosing a major, setting occupational goals, planning their career, or searching for a job. Several services are offered:

- Individual counseling and group workshops on career exploration and job search.
- Print and digital resources for occupational research, job search, and career exploration.
- Interest and personality assessments, as appropriate.

Job Search Assistance

Paid jobs and internships through the Bucks Online Job Board at www.bucks.edu/careerservices.

- Employers post job openings and review student resumes
- Students can post their resumes and access full-time, part-time and seasonal job openings, internships and Bucks work study openings online.
- Students registered on the Online Job Board can receive updates and announcements from The Center for Student Employment and Career Development about upcoming workshops and recruiting events like Job Fairs and information tables.
- The Center for Student Employment and Career Development hosts two large, campus-wide Job Fair at the Newtown campus each year, where Employers, with competitive job opportunities, are available to recruit students. Employers are encouraged to schedule visits to BCCC campuses to recruit students for available job opportunities or internships.

The Center for Student Employment and Career Development is available at all three campuses. Hours may vary when classes are not in session. Please call 215-968-8195 or visit www.bucks.edu/careerservices.

Child Care

The Early Learning Center provides a program for the education and care of the young children of BCCC students, staff, and faculty and participates in the Pennsylvania Keystone Stars early childhood quality assurance system. Current registration dates are available on the [Early Learning Center](#) website.

For information, call the Early Learning Center at 215-968-8082.

Counseling Services

Counseling Services helps students develop skills with goal-setting and decision-making and assists students to meet the challenges associated with their higher education endeavors. The Counselors assist students with:

- responding effectively when personal issues interfere with academics
- coping with stress and personal problems
- degree completion and transfer planning
- job search strategies
- understanding college policy and procedures
- setting goals
- developing skills for making decisions

While Bucks County Community College counselors do not provide long-term mental health therapy and do not replace outside help when indicated, they are an element in providing student support and ensuring student success. For more information, email Counseling Services at counseling@bucks.edu or call 215-968-8189.

Encore

Encore is a community-based program that provides educational and career guidance for Bucks County adults who are entering or re-entering the workforce. Through individualized career consultations, scheduled workshops, counseling services, and opportunities to network with like-minded individuals, we work with you as you retrain for today's workforce.

Services offered: Individualized, Career Consultation, Career Exploration, Counseling Services, Job Hunting Tips, Resume and Cover Letter Writing, Interview Prep, and Personality Test & Assessment. For more information about Encore, email encore@bucks.edu.

Food Service

The Newtown Campus, Upper Bucks Campus, and Lower Bucks Campus dining service operations are under the direction of private contractors. Each campus offers a variety of hot and cold food options and a dining facility. The food service is open daily, with modified hours over breaks and the summer. Vending machines are available throughout each campus for beverages and snacks.

Help Desk

The mission of the Help Desk is to provide assistance to students, faculty and staff in their use of technology tools. The Help Desk is committed to the College community's success with the use of technology on all campuses. For more information call 215-968-8191 or visit www.bucks.edu/helpdesk. Support is also provided to students, faculty and staff at "8191" for on-campus callers, and at 215-968- 8191 for outside callers.

The Help Desk provides: (1) one- on-one technology assistance; (2) just-in-time training; (3) targeted workshops; and (4) assistance with basic computer skills. Users

can expect assistance in the following areas:

- Microsoft Operating Systems
- Microsoft Office Suite
- Logins and passwords
- Internet browsers
- MyBucks College Portal
- College's WebMail system
- Canvas for online learning
- Student Self Service to find courses, register for classes, and check grades

Housing

The college has no on-campus housing facilities and does not supervise or approve student housing. Any agreements concerning rent or conditions of occupancy are made between students and landlords. All housing arrangements must be made by students. The College offers a [local housing list guide](#).

Information Technology Services

Information Technology Services (ITS), located in Pemberton Hall, provides the technical planning, installation and support for the College's technology infrastructure, including enterprise and web systems; instructional and administrative desktop and notebook computers and tablets; telecommunications equipment and voicemail systems, instructional support; network equipment and systems; and cloud-hosted systems.

ITS supports multiple servers, primarily HP Unix and Microsoft Windows. The servers host the College's web page, email, student and administrative systems, web registration and related services, student files and programs, document imaging, library and online course management systems. The servers are connected to the campus-wide Ethernet-based network, running multiple network protocols. IT also supports the Internet connections to the College's Internet Service Provider and to the Public Safety Training Center, Lower Bucks Campus and Upper County Campus, including providing Internet2 services to the College and county school districts. ITS also administers the cloud-based Microsoft 365 environment and several other applications systems.

ITS provides primary desktop support to instructional labs and offices throughout the College. This support includes assistance with the selection, procurement and deployment of desktop and notebook computers, printers and instructional/audiovisual and video conferencing equipment.

The Enterprise Systems group in ITS is primarily responsible for development, support and training for the College's administrative systems, including student records, applications, registration, assessment test scoring, tuition and billing, grading, schedules, transcripts, degree audits, financial aid, budget, general accounting, accounts payable, accounts receivable, human resources and payroll, and the foundation office's gift and pledge

processing. ITS also supports web-based registration, and other online services such as student records, degree audit, test scores, grades, transcripts, class rosters, and schedules, as well as the College web services which include the website and intranet.

KEYS Program (Keystone Education Yields Success)

Keystone Education Yields Success (KEYS) is a collaborative program between the Pennsylvania Department of Human Services (DHS) and Pennsylvania community colleges. KEYS is designed to assist recipients of Temporary Assistance for Needy Families (TANF) and Supplemental Nutrition Assistance Program (SNAP) attending Pennsylvania's community colleges and ensure the successful completion of the students' courses.

The KEYS program provides services to students who are enrolled, registered, or interested in enrolling at any of the 14 community colleges in Pennsylvania. The primary goal of KEYS is to assist students in completing educational activities which lead to employment and self-sufficiency.

To learn more about the KEYS Program, please contact June Rogers (Program Director) at 215-504-8621, keys@bucks.edu. The KEYS Program is located on the Newtown Campus, Charles E. Rollins Center, Student Services. We are here to assist you!

Learning Resources

Learning Resources provides academic support for students, and professional development and training for college faculty and staff. Learning Resources includes the Academic Success Center, Bucks Online, the Center for Personal and Professional Development, Instructional Design, the Library, and the Media Lab. The Information Technology Services Help Desk is also located here. Services are available on all campuses and remotely.

Library Services

The College Library, 2010 recipient of the Association of College & Research Libraries' Excellence in Academic Libraries Award, provides resources and services on all three campuses and online through its web pages <http://www.bucks.edu/library/>. The Library collection includes over 100,000 books and 150 print periodicals, as well as video and sound recordings. All of these are searchable through the Online Catalog, which also provides direct online access to over 9,000 electronic books and more than 10,000 streaming videos. Nearly 25,000 electronic journals, as well as electronic reference materials, newspapers, and art images, are available through the Library's collection of databases, which is available both on and off campus; off-campus access requires user login.

The Library provides information and media literacy instruction in College courses, both face-to-face and online, to guide students in finding, evaluating, and utilizing research resources in their course assignments. Reference assistance is available in person and by phone, email, instant message, and text. Computers are available in all three campus libraries for research and use of MS Office applications, and Help Desk staff provide on-site and remote assistance with technology. Visit the Library website for hours and other information.

Newtown

Reference 215-968-8013
Circulation 215-968-8009

Lower Bucks Campus

267-685-4825

Upper Bucks Campus

215-258-7721

Media Lab

The Media Lab staff members support students in carrying out multimedia assignments, providing a workspace, technological tools, and training in 21st Century literacy skills. For example, a member of a class assigned a video mashup project could find the gadgets (video camera, microphone, etc.), software (video editing, Audacity, Prezi, etc.) and expertise in the Media Lab.

The Media Lab provides support to faculty in instructional design, new media literacies, immersive (XR) technologies and emerging technologies. It assists faculty members in developing assignments with measurable goals and learning outcomes that support multiple learning styles.

Bucks Online

The Bucks Online office supports students and faculty in eLearning, hybrid, and web-enhanced face-to-face courses. The office provides information, training and assistance in the use of the Canvas learning management system and other online tools and technologies. For more information call 215-968-8052 or email online@bucks.edu.

Parking Lot Emergency Assistance

Each major campus parking area is equipped with an emergency two-way communication system that allows immediate access to a staff member of the Office of Security and Safety. These emergency radio/phones are housed in white boxes identified by blue lights and large signs. Campus buildings and grounds are patrolled 24 hours a day by a trained staff of officers.

Perkins Academic Support Services (PASS)

The Carl D. Perkins Vocational and Applied Technology Education Act of 1998 provides grants to colleges and secondary schools to improve student outcomes in vocational/technical education. Each year the College, with the assistance of the community based Participatory Planning Committee, develops and submits a plan to assist students enrolled in occupational degree and certificate programs. Most students enrolled in occupational majors at Bucks County Community College fall into one of the "special populations" or categories as defined in the grant. These categories include students who are economically disadvantaged, disabled, single parents, displaced homemakers, ESL (English as a Second Language), and persons in non-traditional majors.

Services provided through PASS include both direct and indirect support such as purchasing and upgrading computer and technical equipment; technology-oriented instructional support and supplies; new program development and implementation; direct tutoring; career development and advising assistance for students; and training and assistance to occupational faculty in upgrading technical skills.

The PASS Office is located in room 51 of the Charles E. Rollins Center. All students enrolled in occupational majors are encouraged to visit the office, call 215-968-8140, or go to www.bucks.edu/pass.

Security and Safety

This department is staffed by trained officers who patrol the Newtown campus buildings and grounds on a 24-hour-daily basis, the LBC and UBC campuses all hours those campuses are open, and provide security and safety to the College community. Security and Safety officers render services that include parking permit registration and assistance, traffic control, routine campus-wide safety checks, crime prevention services, emergency assistance and also act as resources for directional and general information. The Office of Security and Safety is located in Cottage 4 at Newtown. Security desks can also be found at the reception area at LBC or the South Building entrance at UBC.

Emergencies

Report ALL emergencies, medical or otherwise to Security and Safety at 215-968-8911. Officers are trained in CPR/AED, First Aid, and are equipped to handle emergencies of all types.

Campus Crime Information

Campus Security statistics required by the College and University Security Information Act of Pennsylvania and Jeanne Clery Disclosure of Campus Security Policy and Campus Crime Statistics Act of the Federal Government are available at the Office of Security and Safety and other campus locations, and on the web <http://www.bucks.edu/resources/security/annualcampuscrimereport/>.

A daily log of reported complaints, statistical data and the Security Information Report are also published on the College's website at <http://ac.bucks.edu/apps/security/log/>

Testing Office

This office provides testing services for BCCC students and community members at the Newtown, Bristol, and Perkasié campuses. The main office is located in Rollins 100, Newtown campus. Most testing is done on a walk-in basis and services include:

- Placement testing in reading, writing, math, AESL, and chemistry.
- Administration of the CLEP, DSST, PSB, NLN, as well as examinations through the Kryterion Testing Network and Castle WorldWide.
- Course testing for On-Line Learning and Hybrid classes and Make-Up Testing and accommodated testing for on-campus classes.
- Exam proctoring for Distance Learning students from other colleges.

Testing information, including schedules, can be viewed online at www.bucks.edu/testing. Testing Services staff can be reached by e-mail through testing@bucks.edu or at 215-968-8466.

Transfer Services

Educational Planning Advisors assist with transfer planning for students interested in pursuing a bachelor's degree. Transfer Planning appointments are available at the Advising & Transfer Center, Rollins Center, Room 60 at the Newtown Campus and in the Student Services areas of the Upper Bucks and Epstein Campus at Lower Bucks County Community College. Students planning to transfer should visit www.bucks.edu/transfer or contact 215-968-8031 or transfer@bucks.edu for further information.

Academic Success Center

The College's Academic Success Center (www.bucks.edu/asc) offers tutorial and peer mentoring services at no additional cost to support students' coursework and help them acclimate to the College environment. The Center has locations at all campuses, including online. Please call 215-968-8044, or visit www.bucks.edu/asc for information, such as hours, subjects tutored, scheduling information, and online resources.

Qualified professional, faculty, and student tutors, as well as peer mentors are available to help students in a friendly, welcoming environment. Additionally, the Center provides many resources, including subject-specific handouts and workshops to earn digital badges.

Please note that all tutoring is supplemental to the classroom and should not take the place of class attendance.

SUBJECTS TUTORED

- [Accounting](#)
- [Admission/Scholarship Essays](#)
- [AESL](#)
- [Cinema, Video, and Photography](#)
- [Computer Science](#)
- [Economics](#)
- [Effective Speaking](#)
- [History](#)
- [Mathematics](#)
- [Music](#)
- [Nursing](#)
- [Philosophy](#)
- [Psychology](#)
- [Reading/Study Skills](#)
- [Science/Engineering](#)
- [Sociology](#)
- [World Languages](#)
- [Writing](#)

If you need assistance with something not listed above, submit [a request](#). The ASC staff will do their best to respond to your need as quickly as possible.

ACADEMIC SUCCESS CENTER

[215-968-8044](tel:215-968-8044)
asc@bucks.edu

Newtown
Library 210

Lower Bucks
Library Conference Room

Upper Bucks
Room 250 (South Building)

Veterans Services

The Certifying Official for veterans' education benefits under the GI Bill® is within the Registrar's Office. Each semester, veteran-students must submit the required documents to the Certifying Official in order to receive their available benefits.

To register for benefits:

1. Apply to the Veterans Administration for approval using the online application found at www.gibill.va.gov.
2. Consult the VA for determining which benefit is best for you.
3. Register for classes and complete the Veterans Enrollment form and submit this to the Registrar's Office. This form is required each semester for which you register.

Tuition Deferments are available for all veterans receiving benefits under the various chapters of the GI Bill® and who have no outstanding financial obligation to the College. The deferment is effective until the end of the semester; however, you are responsible for tuition and fees, if you are denied benefits. Complete information is available on the Veterans Benefits website.

The GI Bill® is a registered trademark of the US Department of Veteran Affairs (VA). More information about education benefits offered by VA is available at the official US government website at www.benefits.va.gov/gibill.

The "Stars & Stripes" Lounge, located in the Rollins Center, provides a welcoming space for our veterans to study, relax, or network. View the [Veteran Resources page](#) for more information.

VETERANS BENEFITS AND TRANSITION ACT OF 2018

Beginning on August 1, 2019, educational institutions must have a policy in place allowing GI Bill® and VR&E beneficiaries (Chapter 33 and Chapter 31 beneficiaries) to attend a course of education or training for up to 90 days from the date the beneficiary provides a certificate of eligibility, or valid VAF 28-1905. This allows a student to attend the course until VA provides payment to the institution. The educational institution must also have a policy to not impose a penalty, or require the beneficiary to borrow additional funds to cover tuition and fees due to late payments from VA. Section 103 requires a State Approving Agency (SAA), or the Department of Veterans Affairs (VA) when acting in the role of the SAA, to disapprove certain courses of education. VA can grant a waiver to these requirements.

Web Services

Web Services is responsible for developing and maintaining the College's web site and intranet resources.

Student Life

Student Life and Athletic Programs

Campus life opportunities and activities are on every Bucks campus. The Student Life and Athletic Programs Office assists students in supplementing academic experiences with experience in service, social, and recreational pursuits. The Student Life and Athletic Programs Office is located in the Rollins Student Center, Room 112. They can be reached at 215-968-8257. Please visit the [Student Life website](#).

Why Involvement Matters

Getting Involved:

- in student activities can lead to success in many areas of life both during and after one's term as a student.
- in college brings the obvious benefits of peer contact, productivity, and meaningful leisure time. In addition, students participating in student organizations and other activities gain the opportunity for practical application and can round out their resume.
- in activities, clubs, or organizations is of proven interest to employers. The personal contacts one makes when active in student life programs may serve as the foundation for lifetime friendships and networking sources.
- in student leadership opportunities will enable you to discover your leadership potential, build your confidence, and develop and / or sharpen skills you will use throughout your life.

Student Life and Athletics Information Window

The Information Window is a centralized clearinghouse of information, keeping abreast of what is happening on campus and disseminating this information to students, staff, and the general public. The Information Window is the place to purchase tickets to College events, purchase SEPTA tokens, sign up for a student organization or athletic or intramural team, and pick up the latest issue of the College newspaper, *The Centurion*.

Serving our community is what we do best! The Information Center assists students in finding service opportunities to fit into their busy school or work schedule. Community service is rewarding and is sure to enhance your college experience. We hope this will serve as the foundation for lifelong friendships and networking resources.

The Information Window is located in the Rollins Student Center, Room 112. Contact number: 215-968-8257

Student Judicial Process

Bucks County Community College is committed to the integrity and personal growth of each individual. Choosing to join the College community obligates members to make positive contributions to the community and be accountable for their own behavior. As adults and members of the community, students are expected to conduct their lives in a

manner that is consistent with good citizenship. The Director of Student Life and Athletic Programs is responsible for holding all Bucks students accountable to the College Code of Conduct which is found under Student Records, Rights & Responsibilities portion of the college catalog, in the Student Planner, and online at www.bucks.edu/catalog.

Student Government Association

The Student Government Association (SGA) is the elected representative student structure of the College. The functions of this organization include the representation of student interests, the coordination of campus activities for clubs and organizations, and the planning of social activities through the administration of the College Activity Fee.

The Student Government Association is composed of several standing committees. The Student Government consists of five officer and 7 councilor positions.

Elections are conducted each spring semester by the Student Government Association through the Election Committee in an online format. Elections are conducted for officers and representatives positions.

The Director, Student Life and Athletic Programs serves as the advisor for Student Government Association. Co-advisors are allowed.

The Student Government Association office is located in the Rollins Student Center of the Newtown campus, Room 111-2. Contact the Student Government Association at 215-968-8375.

Student Programming Groups

Would you like to learn about event planning? Bucks has three student programming groups, one at each campus, that are dedicated to planning and providing educational, cultural, social, and recreational activities for the students of Bucks County Community College. These groups are entirely run by Bucks students. Whether it be coffee house music performer, free food day, or welcome week festivities, the student programming groups strive to maintain a variety of programs for the student body. Contact Student Life and Athletic Programs at 215-968-8257 for more information on joining.

- Student Programming Board (SPB)- Newtown Campus
- Students Programming Activities (SPA)- Upper Bucks Campus
- Lower Bucks Programming Council- Lower Bucks Campus

Leadership Development

Anyone can learn to be a student leader at Bucks! Through collaboration with academic departments, community agencies and the campus community, the Student Life Office provides many opportunities to develop responsible leadership in holistic lifelong learning. There is a diversity of leadership development programs that exist on campus. This has enabled students to grow and succeed in many aspects of their lives. Contact the Student Life and Athletic Programs Office at 215-968-8257 or studentlife@bucks.edu for more information.

Civic Engagement/ Volunteering/ Community Service

Looking to do some volunteering or community service? When you volunteer in the community, you gain new friends, life experience and resume building skills. Student Life and Athletic Programs coordinates a college-wide volunteer program with the United Way each fall and has a database of Student Life community agencies, contact information, programs, and events that will fit any student's needs. Contact the Student Life Programs Office at 215-968-8257 or 215-968-8261.

Educational Enrichment Programs

The sole mission of Educational Enrichment Programs (EEP) is to introduce subject matter considered to have educational value to the students at Bucks County Community College. The mode will be through speakers, performances, discussions, and multimedia. Our goal is to graduate well rounded students who are exposed to a variety of ideas and opinions that will assist them in creating their own educated decisions and opinions. Contact 215-968-8015 or Heather.Kouveras@bucks.edu for more information.

Bulletin Boards

In order to prevent damage to painted and finished surfaces, only bulletin boards may be used to post notices. All postings are posted by staff or student workers and must be approved and stamped by Student Life and Athletics staff prior to being posted. Posting approvals at the Upper Bucks and Lower Bucks campuses will be handled by the Executive Director/ Coordinator, Student Services of each campus. Materials should be delivered to the reception desk.

New Student Welcome

The New Student Welcome is designed to get our new students excited about starting college and getting last-minute questions answered. New students get to meet members of their academic department, student service department, and student organization members. Parents are welcome and tours are given to all.

Athletics

Varsity Athletics

Bucks County Community College is a member of the United Collegiate Athletic Association (USCAA), which is the governing body providing quality athletic competition on a regional and national level. USCAA also has the added benefit of a third year of eligibility for student-athletes who wish to compete beyond the traditional two-year model. The USCAA is comprised two-year and four-year institutions. Centurion varsity athletics is considered USCAA Division 2 (non-scholarship) and has the ability compete for USCAA national championships and a variety of academic honors. Bucks is a proud member of the Eastern States Athletic Conference (ESAC) of the USCAA. ESAC is a conference of like colleges in eastern Pennsylvania plus the surrounding states. It was established in 2021 when incoming and current members of the USCAA decided to form a new conference to recognize the achievements of the student-athletes of the institutions. Bucks was one of the 4 founding member institutions of the ESAC. Centurion student-athletes have a reputation for being recruited to other residential colleges and universities

and for those who wish to continue competing, the department works hard to connect them with athletic recruiters.

Varsity Sports:

Women's Soccer
Men's Soccer
Women's Basketball
Men's Basketball
Softball
Baseball

Club Sports

Club Sports provide students with the opportunity to compete with other schools in a variety of sport offerings but with more flexibility in comparison to a varsity sport. Bucks club sports are student-run and can be coach or student led sport organizations. Student Life and Athletic Programs works with each Club Sport to ensure compliance with all rules and eligibility requirements and to support the overall operation of the program.

Club Sports:

Equestrian
Dance Team
Women's Volleyball
Men's Volleyball
Track & Field / Running
Coed Tennis
Coed Golf
Esports

Athletic Director: Matt Cipriano, Matt.Cipriano@bucks.edu (215) 968-8261

Facility Usage

The tennis courts are available to students when no classes or practices are in session.

The Gym is available during intramural and open gym hours that are posted outside of the Gym. There is open swimming during posted hours.

Physical education facilities include tennis courts, and fields for archery, soccer, baseball, and softball. The physical education building features a swimming pool and a gymnasium.

Fitness Center

The Bucks County Community College Fitness Center offers a new model for health. This model addresses itself to enriching life, preventing illness and encouraging individuals to

accept a greater degree of responsibility for their own life and well-being. This commitment to the positive is at the heart of a wellness lifestyle.

The Fitness Center programs include Physical Fitness Assessments and Personal Fitness Training through the Health Enhancement System, Sport-Specific Conditioning programs, individualized and group Weight Management Counseling through the Healthy Choices Program and various health and wellness - related programs and events. The Fitness Center, located outside the gymnasium, contains state-of-the-art testing and exercise equipment. Individuals can receive comprehensive fitness tests and personalized fitness programs designed specifically to suit their needs. The Fitness Center has a variety of aerobic training equipment including treadmills, elliptical trainers, rowers, versa-climbers and exercise bikes. The center also provides a large selection of resistance training modalities inclusive of two comprehensive resistance training stations, two Selectorized cable stations, and an extensive free weight area.

The Fitness Center is open for use to all current students and staff of the College. Identification cards are required of all members of the Fitness Center. Each member is required to complete a signed Agreement and Waiver of Liability form, as well as a Physical Activity Readiness Questionnaire prior to beginning exercise within the Fitness Center. For more information call 215-968-8447.

College Committees

Participation in the College's committees include faculty, students, and administrators, as determined by the President.

Administrators are appointed to college committees by the President of the College. Faculty representatives for committees are nominated by the faculty through their representative organization. These nominations are submitted to the President of the College for appointment.

Students are nominated to serve on committees by the Student Council. The nominations are submitted to the President of the College for appointment.

Students are appointed to those College committees which annually request student representatives.

Music

For students interested in musical performing activities, the College offers a variety of organizations sponsored by the Department of the Arts. Some College-owned instruments are available for use by students in instrumental ensembles. It is possible to receive College academic credit for participation in some of these organizations. College-wide participation is encouraged. Students should contact the Department of the Arts Office, 215-968-8425, concerning meeting times and details of the following:

Musical organizations open to non-music majors: BC3 Music Society, Concert Choir, Jazz Orchestra, Contemporary Singers, Madrigal Singers, BCCC Symphonic Orchestra.

Ensembles open only to music majors: Brass, Guitar, Piano, Sax, Percussion, Bass, and Woodwind.

Alumni Association

Since 1983, the Bucks County Community College Alumni Association has provided leadership and means for the College's alumni to unite in their efforts to support and strengthen the institution. Its mission is to keep the alumni well informed about the College and the Association and to support the College community by raising funds that will directly benefit students and student services. The Alumni Completion Scholarship, which is annually awarded at the College's Honors Convocation in May, the "Leave a Legacy" program, and a variety of other events and awards all promote and recognize Bucks' growing student and alumni population. The College encourages the more than 200,000 individuals who have enrolled in courses to remain active in supporting Bucks County Community College through its alumni programs. The Alumni Association also offers those who graduate with an associate's degree, complete a certificate program, or accumulate a minimum of 30 credits at Bucks the opportunity to apply for a "Key to the College" Alumni Card. This complimentary membership card allows graduates to take full advantage of the many benefits Bucks offers its alumni.

For more information about the Alumni Association or to update an Alumni file, call 215-968-8224, email alumni@bucks.edu.

Use of College Facilities

Requests for use of College facilities should be directed to the Office of the Dean of Administration. For guidelines and information please call 215-968-8301.

Types of requests include, but are not limited to, training programs, state and local conferences, social affairs of non-profit community groups and local schools, shows, exhibits, and festivals.

As a rule, facilities will be limited to single event scheduling. Groups wishing to use the facilities for regular meetings must do so on a month-by-month basis. Fees may be involved.

Requests for permission to solicit funds on the campus by off-campus organizations will not be considered.

Clubs and Organizations

All students are urged to participate in any student organization. There are few restrictions involved in forming student clubs. There are no limitations to club size and any number of individuals may form an organization after obtaining a faculty or staff advisor and completing necessary paperwork. An organization must be officially recognized by the Student Government Association and the College prior to requesting and utilizing College facilities for activity purposes. The College will establish priority for use of its facilities.

Here is a sample of some of our outstanding clubs and organizations. Further information about forming clubs/organizations or participating in activities is available from the The Office of Student Life, located on the upper level of the Charles E. Rollins Center, 215-968-8257. (N) = Newtown (U) = Upper Bucks (L) = Lower Bucks (O)= Bucks Online

Educational

- [Bucks \(ACM\) Associated Computer Machinery \(N\)](#)
- [Bucks Business Association \(N\)](#)
- [Business Studies United @ LBC \(L\)](#)
- [Bucks Travel and Trip Club \(N\)](#)
- [First Generation To Finish Club \(N\)](#)
- [Future Teachers Organization \(N\)](#)
- [Kinesiology & Sports Studies \(N\)](#)
- [Nursing Club \(N\)](#)
- [Paralegal Club \(N\)](#)
- [Psychology Club \(N\)](#)
- [Society Of Bucks Engineers aka S.O.B.E \(N\)](#)
- [Socratic Society \(N\)](#)
- [Teachers of Tomorrow aka T.O.T \(U\)](#)
- [Women in STEM \(N\)](#)

Arts & Media

- [Anime Club \(N\)](#)
- [Arts and Culture Council of Lower Bucks \(L\)](#)
- [Bucks 3D Sculpture Club \(N\)](#)
- [Bucks County Printmaking Society \(N\)](#)
- [Bucks Music Society](#)
- [Centurion Newspaper \(N\)](#)
- [Ceramics Club \(N\)](#)
- [Drama Club \(N\)](#)
- [Film & Multimedia Club \(N\)](#)
- [Glass Arts Society \(N\)](#)
- [Radio BUX \(N\)](#)
- [Tyler Literary Society \(N\)](#)

Service/Causes

- [Bucks College Democrats \(N\)](#)
- [Bucks Eco Club \(N\)](#)
- [Bucks Lemon Club \(N\)](#)
- [College Republicans Club \(N\)](#)
- [Habitat For Humanity \(N\), \(U\)](#)
- [Lions International Club \(N\)](#)
- [Momtourage Club](#)
- [Next Gen Rising \(N\)](#)
- [Veterans Club \(N\) \(L\)](#)
- [Women Inspired and Networking aka WIN \(L\)](#)

Diversity

- [Open Door Club aka ODC \(N\)](#)

Honors Organizations/Societies

- [Delta PSI Omega \(N\)](#)
- [Honors@Bucks \(N\)](#)
- [Kappa Beta Delta aka KBD \(N\)](#)
- [Lambda Nu](#)
- [National Society of Leadership and Success aka NSLS \(N\)](#)
- [Phi Theta Kappa aka PTK \(N\)](#)

Recreation

- [Bucks Gaming Club](#)

Faith Focused

- [Catholic Club \(N\)](#)
- [CRU \(N\)](#)
- [Hillel Club \(N\)](#)
- [Inter-Varsity Christian Fellowship aka IVCF \(N\)](#)
- [Muslim Students Association \(N\)](#)
- [UBC Thrive \(U\)](#)

Student Leadership/Programming

- [Bucks County Community College Student-Athlete Advisory Council \(N\)](#)
- [Lower Bucks Programming Council \(L\)](#)
- [Student Government Association aka SGA \(N\)](#)
- [Student Programming Board aka SPB \(N\)](#)
- [Students Planning Activities aka SPA \(U\)](#)

Campus Regulations

Drug and Alcohol Policy

Policy 3.7 [Drugs and Alcohol](#)

The unlawful manufacture, distribution, dispensation, possession, or use of alcohol, narcotics, or illicit drugs is prohibited on the campus of Bucks County Community College. Any student or employee of the College discovered to be violating these rules is subject to immediate suspension or dismissal. Such action will be taken independently of any criminal action that may arise from a violation of civil law governing these areas.

Weapons

[Campus Policy](#) prohibits the possession or carrying of any deadly or offensive weapon by any person in college academic buildings, administrative buildings, dining facilities, off-site locations or while attending any sporting, entertainment or education event on college property or sponsored by the college.

Animals on Campus

Policu 1.35 [Service Animal](#)

This College does not permit students, faculty, staff or visitors to bring pets or animals to campus. This includes all parking lots, buildings, classrooms, dining areas, walkways and grassy areas.

Guide dogs are the exception. All requests for additional exceptions should be directed to the Office of Security and Safety.

Buildings and Grounds

Skateboarding, roller blading, ice skating, skiing, sledding and snowmobiling are prohibited on the grounds and in the buildings of all campuses.

Buildings - Hours of Use

College buildings are closed from midnight to 6:00 a.m. Exceptions will be considered for special events. All requests for exceptions should be directed to the Office of Security and Safety at least three days in advance.

Children/Visitors

All children under the age of sixteen must be accompanied by a student, faculty, or staff member, who will stay with them, in order to utilize College facilities. *Children are not permitted to attend class with a parent or guardian.*

Community members or visitors will be asked to register with the Office of Security and Safety. Should these persons exhibit disruptive behavior, they will be asked to leave. If it becomes necessary, Security will be called.

Emergency Calls

Emergency telephone calls to students should be made only to the Registrar's Office, 215-968-8000. That office will try to contact students in their scheduled classes or, if possible, elsewhere on campus. The content of the emergency message will be given to students for their decision on any further action. Non-emergency calls are discouraged and may be refused by Admissions, Records, and Registration.

Lost and Found

If you have lost something, please notify the Office of Security and Safety immediately. A lost and found drop is located at the Student Life Information Center in the Charles E. Rollins Student Center or the Office of Security and Safety, Cottage 4 (Newtown Campus).

Medical Insurance

Since the college does not provide insurance, students who do not have medical coverage/insurance are encouraged to purchase insurance through a medical provider identified by the college. For more information, contact the Student Life Programs Office at 215-968-8257. International students are required to have medical coverage while pursuing their studies at the college and must contact Adult and Multicultural Student Services at 215-968-8107.

Smoking on Campus

Bucks County Community College is a smoke-free environment. Smoking is prohibited in all campus buildings.

Telephones

Office telephones are for official use only. Students should not encourage friends and relatives to call them at the college except in case of emergency. Public telephones are not available.

For emergencies, call boxes are in parking lots A, C, D-E, K, between Grupp and Founders Halls, and the Accessible lot. These telephones are free of charge and give a direct line to the Security and Safety office.

Gender Based Misconduct

Policy 1.14 [Gender Based Misconduct](#)

This policy applies to all students, employees, faculty members, administrators, and trustees of the college, as well as contractors and vendors. Each student, employee, faculty member, administrator, contractor and vendor of the college is personally responsible for ensuring that he/she does not engage in conduct that violates this Policy. Each student, employee, faculty member, administrator, contractor and vendor is responsible for cooperating in any investigation of alleged Gender Based Prohibited Conduct if requested to do so by the person(s) conducting the investigation.

This policy applies to any Gender Based Prohibited Conduct committed (1) on college property; (2) in connection with any college activity or program on or off college property; or (3) off college property when the conduct (a) is in connection with a college or college-recognized program or activity, or (b) may have the effect of creating a hostile environment for a member of the college community, which shall include students, employees, faculty members, and administrators of the College, visitors, and applicants for admission to or employment with the college. Further, if any student or employee engages in any conduct on or off campus that constitutes Improper Gender Based Prohibited Conduct, said student or employee shall be subject to the fullest extent of disciplinary consequences that the college has the lawful power or authority to impose.

General Policy Statement

1. It is the Policy of the Bucks County Community College (“the College”) to comply with applicable federal and state law prohibiting sex or gender discrimination, unlawful retaliation, and sexual harassment.
2. It is the Policy of the College to prohibit conduct that constitutes sexually related crimes, including but not limited to rape, indecent aggravated assault, indecent assault, and indecent exposure.
3. It is the policy of the College to provide:
 1. educational and employment environments for its students, faculty, and staff that are free from unlawful sex and gender discrimination, unlawful sexual harassment and unlawful retaliation;
 2. an educational and employment environment in which no member of the College community is, on the basis of sex or gender, excluded from participation in, denied the benefits of, or subjected to unlawful discrimination, unlawful harassment or unlawful retaliation in any College program or activity.
4. The College does not and shall not discriminate against any employee, applicant for employment, student or applicant for admission because of sex, sexual orientation, gender identity or expression. Accordingly, all recruiting, hiring, and promoting for all job classifications and all recruiting and admissions of students will be made without regard to sex, sexual orientation, gender identity or expression.
5. The College expressly prohibits Gender Based Prohibited Conduct as defined in this Policy. Gender Based Prohibited Conduct as defined in this Policy will not be tolerated. Individuals—including students, faculty, staff, contractors and vendors, who engage in such Gender Based Prohibited Conduct will be subject to disciplinary action, termination of contracts, or exclusion from the campus or College activities.
6. The College shall take immediate and appropriate action once it knows of any act of Gender Based Prohibited Conduct in any of its educational programs and activities.
7. The College will act on any complaint of Gender Based Prohibited Conduct in order to investigate and to resolve such complaints promptly and effectively.
8. It is the policy of the College to
 1. provide educational, preventative and training programs regarding this policy and Gender Based Prohibited Conduct;
 2. to encourage reporting of violations or alleged violations of this Policy;
 3. to prevent incidents of Gender Based Prohibited Conduct from denying or limiting an individual’s ability to participate in or benefit from the College’s programs;
 4. to make available timely services for those who have been affected by Gender Based Prohibited Conduct; and
 5. to provide prompt and effective methods of investigation and resolution to stop Gender Based Prohibited Conduct, remedy any harm, and prevent its recurrence.

9. No one may retaliate against anyone who has engaged in protected activity as defined in this Policy or applicable law.
10. Nothing in this Policy shall be construed to abridge academic freedom and inquiry, principles of free speech, or the College's educational mission. This Policy does not preclude application or enforcement of other College policies.
11. If two or more interpretations can be given to any provision of this Policy, the College intends that only such an interpretation that is lawful is intended.

Definitions

Sex or Gender Discrimination

Unlawful sex or gender discrimination shall be defined for purposes of this Policy in the same manner as it is defined in applicable law. By way of example, sex or gender discrimination, including sexual harassment, is conduct directed at a specific individual or a group of identifiable individuals that subjects the individual or group to treatment that adversely affects the individual or group's employment or education on account of sex. Sex discrimination can be manifested by unequal access to educational programs and activities on the basis of sex, unequal treatment on the basis of sex in the course of conducting those programs and activities, or, the existence of a program or activity that has a disparate impact on participation, improperly based on the sex of the participants.

Sexual Harassment

Sexual harassment shall be defined for purposes of this Policy in the same manner as it is defined in applicable law. By way of example, sexual harassment is unwelcome conduct of a sexual nature, including unwelcome sexual advances, requests for sexual favors, and other verbal, nonverbal, graphic, or physical conduct of a sexual nature, when: (1) submission to or rejection of such conduct is made either explicitly or implicitly a condition of an individual's employment or academic standing or is used as the basis for employment decisions or for academic evaluation, grades, or advancement (quid pro quo); or (2) such conduct is sufficiently severe, persistent, or pervasive that it interferes with or limits a person's ability to participate in or benefit from the College's education or work programs or activities (hostile environment).

Quid pro quo sexual harassment can occur whether a person resists and suffers the threatened harm, or the person submits and avoids the threatened harm. Both situations could constitute discrimination on the basis of sex.

A hostile environment can be created by persistent and/or pervasive conduct or by a single severe episode. The more severe the conduct, the less need there is to show a repetitive series of incidents to prove a hostile environment. Sexual violence, including rape, sexual assault, and domestic and dating violence, is a form of sexual harassment. In addition, the following conduct violate this Policy:

- Observing, photographing, videotaping, or making other visual or auditory records of sexual activity or nudity, where there is a reasonable expectation of privacy, without the knowledge and consent of all parties
- Sharing visual or auditory records of sexual activity or nudity without the knowledge and consent of all recorded parties and recipient(s)

- Sexual advances, whether or not they involve physical touching
- Commenting about or inappropriately touching an individual's body
- Requests for sexual favors in exchange for actual or promised job benefits, such as favorable reviews, salary increases, promotions, increased benefits, or continued employment
- Lewd or sexually suggestive comments, jokes, innuendoes, or gestures
- Stalking

Other verbal, nonverbal, graphic, or physical conduct may create a hostile environment if the conduct is sufficiently persistent, pervasive, or severe so as to deny a person equal access to the College's programs or activities. Whether the conduct creates a hostile environment may depend on a variety of factors, including: the degree to which the conduct affected one or more person's education or employment; the type, frequency, and duration of the conduct; the relationship between the parties; the number of people involved; and the context in which the conduct occurred.

Sexual Violence

Sexual violence is a physical sexual act conducted either against a person's will or where a person is incapable of giving consent, including but not limited to, rape, sexual assault, sexual battery, and sexual coercion.

Sexual Misconduct

Sexual Misconduct is a broad term encompassing any sexual behavior that violates any criminal statute, College policies and/or the Student Code of Conduct and includes any conduct that is sexually exploitive or degrading, retaliatory and/ or abusive with the intent or result of compromising the well-being of another person, including domestic violence, dating violence, and stalking.

Sexual Exploitation

Sexual exploitation is an act or omission to act that involves taking non-consensual, unjust, humiliating, or abusive sexual advantage of another, either for his or her own advantage or to benefit or advantage anyone other than the Complainant. Examples of sexual exploitation include but are not limited to the following:

- Creating a picture(s), movie(s), webcam, tape recording(s), graphic written narrative(s), or other means of memorializing sexual behavior or a state of undress of another person without the other's knowledge and consent;
- Sharing items described in the paragraph above beyond the boundaries of consent where consent was given. For example, showing a picture to friends where consent to view it was given for oneself only;
- Observing or facilitating observation by others of sexual behavior or a state of undress of another person without the knowledge and consent of that person;
- "Peeping Tom" or voyeuristic behaviors;
- Engaging in sexual behavior with knowledge of an illness or disease (HIV or STD) that could be transmitted by the behavior without full and appropriate disclosure to the partner(s) of all health and safety concerns;
- Engaging in or attempting to engage others in "escort services" or "dating services" which include or encourage in any way sexual behavior in exchange for money;
- Intentionally, knowingly, or surreptitiously providing drugs or alcohol to a person for the purpose of sexual exploitation; or

- Exposing another person to pornographic material without the person's advance knowledge or consent.

Stalking

Stalking is a pattern of repeated and unwanted attention, harassment, contact, or any other course of conduct directed at a specific person that would cause a reasonable person to fear for his or her safety, or the safety of others, or suffer substantial emotional distress. This includes cyber-stalking, a particular form of stalking in which electronic media such as the internet, social networks, blogs, cell phones, texts, or other similar devices or forms of contact are used to pursue, harass, or make unwelcome contact with another person.

Unwelcome Conduct

Sexually related conduct is unwelcome if a person (1) did not request or invite it and (2) regarded the unrequested or uninvited conduct as undesirable or offensive. That a person welcomes some sexual contact does not necessarily mean that person welcomes other sexual contact. Similarly, that a person willingly participates in conduct on one occasion does not necessarily mean that the same conduct is welcome on a subsequent occasion.

Whether conduct is unwelcome is determined based on the totality of the circumstances, including various objective and subjective factors. The following types of information may be helpful in making that determination: statements by any witnesses to the alleged incident; information about the relative credibility of the parties and witnesses; the detail and consistency of each person's account; the absence of corroborating information where it should logically exist; information that the Respondent has been found to have harassed others; information that the Complainant has been found to have made false allegations against others; information about the Complainant's reaction or behavior after the alleged incident; and information about any actions the parties took immediately following the incident, including reporting the matter to others.

In addition, when a person is so impaired or incapacitated as to be incapable of requesting or inviting the conduct, conduct of a sexual nature is deemed unwelcome, provided that the Respondent knew or reasonably should have known of the person's impairment or incapacity. The person may be impaired or incapacitated as a result of drugs or alcohol or for some other reason, such as sleep or unconsciousness. A Respondent's impairment at the time of the incident as a result of drugs or alcohol does not, however, diminish the Respondent's responsibility for sexual or gender-based harassment under this Policy.

Gender-Based Harassment

Gender-based harassment is verbal, nonverbal, graphic, or physical aggression, intimidation, or hostile conduct based on sex, sex-stereotyping, sexual orientation or gender identity, but not involving conduct of a sexual nature, when such conduct is sufficiently severe, persistent, or pervasive that it interferes with or limits a person's ability to participate in or benefit from the College's education or work programs or activities. For example, persistent disparagement of a person based on a perceived lack of stereotypical masculinity or femininity or exclusion from an activity based on sexual orientation or gender identity also may violate this Policy.

Protected Activity

The following acts are protected under this Policy: (1) those acts that are protected under any applicable law; (2) making a complaint under this Policy or under law to any governmental entity or court alleging a violation of this Policy or applicable law; or (3) participating in an investigation, hearing or inquiry under applicable law or this Policy.

Unlawful Retaliation

Unlawful retaliation is defined as attempts or acts to seek retribution including, but not limited to, any form of intimidation, reprisal, harassment, or intent to prevent participation in College proceedings under this Policy. Unlawful retaliation may include continued abuse or violence, other harassment, and slander and libel. Retaliation may be committed by any individual or group of individuals, not just a Respondent or Complainant, and may be committed against the Complainant, Respondent, or any individual or group of individuals involved in the investigation and/or resolution of an allegation of sexual assault, sexual harassment, or other sexual misconduct.

Intimate Partner Violence

Intimate partner violence is also sometimes known as dating violence, domestic violence, or relationship violence. The College recognizes that sexual assault, sexual exploitation, sexual harassment, stalking, and retaliation may all be forms of intimate partner violence when committed by a person who is or has been in a social relationship of a romantic or intimate nature with the Complainant. In general, intimate partner violence includes physically, sexually, and/ or psychologically abusive behavior that arises in the form of a direct violent act, or indirectly as acts that expressly or implicitly threaten violence. Intimate partner violence also occurs when one partner attempts to maintain power and control over the other through one or more forms of abuse, including sexual, physical, verbal, or emotional abuse.

Consent

Consent is an explicitly communicated, reversible mutual agreement in which all parties are capable of making a decision. Consent is informed, voluntary, and actively given. Consent exists when all parties exchange mutually understandable affirmative words or behavior indicating their agreement to participate voluntarily in sexual activity. The following is intended to further clarify the meaning of consent:

- Each participant in a sexual encounter must obtain consent for all sexual activities. Consent to one form of sexual activity does not constitute consent to engage in all forms of sexual activity.
- Consent consists of an outward demonstration indicating that an individual has freely chosen to engage in sexual activity. Relying on non-verbal communication can lead to misunderstandings. Consent may not be inferred from silence, passivity, lack of resistance or lack of an active response alone. A person who does not physically resist or verbally refuse sexual activity is not necessarily giving consent.
- If at any time it is reasonably apparent that either party is hesitant, confused, or unsure, both parties should stop and obtain mutual verbal consent before continuing such activity.
- Consent may be withdrawn by either party at any time. Withdrawal of consent must also be outwardly demonstrated by words or actions that clearly indicate a desire to end sexual activity. Once withdrawal of consent has been expressed, sexual activity must cease.
- An individual who is physically incapacitated from alcohol or other drug consumption (voluntarily or involuntarily), or is unconscious, unaware, or otherwise physically

impaired is considered unable to give consent. For example, one who is asleep or passed out cannot give consent.

Individuals with a previous or current intimate relationship do not automatically give either initial or continued consent to sexual activity. Even in the context of a relationship, there must be mutually understandable communication that clearly indicates a willingness to engage in sexual activity.

Consent is not effective if it results from the use or threat of physical force, intimidation, or coercion, or any other factor that would compromise an individual's ability to exercise his or her own free will to choose whether or not to have sexual contact. In addition, a person is incapable of giving consent if he/she is incapacitated.

Coercion

Coercion includes the use of pressure and/or oppressive behavior, including express or implied threats of harm or severe and/or pervasive emotional intimidation, which (a) places an individual in fear of immediate or future harm or physical injury or (b) causes a person to engage in unwelcome sexual activity. A person's words or conduct amount to coercion if they wrongfully impair the other's freedom of will and ability to choose whether or not to engage in sexual activity. Coercion also includes administering a drug, intoxicant, or similar substance that impairs the person's ability to give consent.

Incapacitation

Incapacitation is the inability, temporarily or permanently, to give consent, because the individual is mentally and/or physically impaired due to alcohol or other drug consumption, either voluntarily or involuntarily, or the individual is unconscious, asleep, or otherwise unaware that the sexual activity is occurring. In addition, an individual is incapacitated if he or she demonstrates that they are unaware of where they are, how they got there, or why or how they became engaged in a sexual interaction. Where alcohol is involved, incapacitation is a state beyond drunkenness or intoxication. Some indicators of incapacitation may include, but are not limited to, lack of control over physical movements, being unaware of circumstances or surroundings, or being unable to communicate for any reason.

Gender-Based Prohibited Conduct

Gender Based Prohibited Conduct means any one or more of the following types of conduct: (1) Unlawful Sex or Gender Discrimination; (2) unlawful sexual harassment; (3) sexual related crimes; (4) sexual misconduct as defined in this Policy; (5) sexual exploitation as defined in this Policy; (6) stalking as defined in this Policy; (7) unwelcome conduct as defined in this Policy; (8) gender based harassment as defined in this policy; (9) intimate partner violence as defined in this Policy; (10) coercion as defined in this policy; and (11) unlawful retaliation as defined in this policy.

Complaint Procedure

Policy 1.29 [Student Complaint](#)

The College encourages students, faculty, staff, and visitors to promptly report incidents of Gender Based Prohibited Conduct. All complaints of Gender Based Prohibited Conduct must

be brought to the immediate attention of the Title IX Coordinator for the College. The Title IX Coordinator for the College is the Executive Director of Human Resources who may be reached at Tyler Hall - Room 130, and by phone at 215-968-8091. Students may also contact the Director of Student Life, who serves as a Deputy Coordinator, in the Rollins Center – Room 112, and by phone at 215-968-8255. In cases of emergency, contact the Office of Security and Safety, located in Cottage 4, or by phone 215-968-8911.

Any person who receives a complaint of Gender Based Prohibited Conduct from an employee or student, or who otherwise knows or has reason to believe that an employee or student has been subjected to Gender Based Prohibited Conduct must report the incident promptly to the Title IX Coordinator.

Any person may file a formal complaint alleging a violation of the Policy. A complaint of Gender Based Prohibited Conduct should be filed directly with the Title IX Coordinator, regardless of the identity of the Respondent. A formal complaint must be in writing and signed and dated by a Complainant, witness or a third party filing on behalf of a potential Complainant (Reporter). It should state the name of the alleged harasser (if known) and describe with reasonable specificity the incident(s) of alleged Gender Based Prohibited Conduct, including the date and place of such incident(s). Attached to the complaint should be a list of any sources of information (for example, witnesses, correspondence, records, and the like) that the Complainant or Reporter believes may be relevant to the investigation. However, a complaint should not be delayed if such sources of information are unknown or unavailable. Complaints will be accepted and acted upon even if this information is not included. The college will provide victims with written information regarding their rights as well as related policy and procedures for handling cases involving gender-based misconduct.

The College does not limit the timeframe for filing a complaint. The College encourages complaints to be filed as soon as reasonably possible following an alleged Policy violation because the College's ability to gather adequate information may be limited where a significant length of time has elapsed between an incident and the filing of a complaint. Further, the College's ability to complete its processes may be limited with respect to Respondents who have graduated from or are no longer employed by the College.

The Title IX Coordinator or designee will conduct a prompt and appropriate investigation into any allegation of sex discrimination, sexual harassment or sexual violence or retaliation, so as to enable a prompt and equitable response under all circumstances and in a fair and expeditious manner. The College reserves the right to retain an outside investigator(s) or legal counsel to investigate complaints regarding violations of this policy.

When reviewing a complaint, the standard of review utilized by the Title IX coordinator shall be that of a preponderance of the evidence (i.e., whether the conduct complained of is more likely than not to have occurred.)

The Title IX Coordinator or designee may allow the parties to present witnesses and other evidence during the investigation. The investigation will continue whether or not the complaint also is being investigated by another agency or law enforcement unless the Title IX Coordinator's investigation would impede law enforcement's investigation. If the investigation is suspended during an investigation by law enforcement, the College will implement interim steps to protect the victim's safety.

Upon completion of the investigation, any case of Gender Based Prohibited Conduct will be referred to the appropriate administrator for applicable proceedings consistent with the College's relevant workplace conduct policies or Collective Bargaining agreements, or the College's Student Code of Conduct, including all applicable appeal processes. In cases of allegations of sexual harassment or sexual violence between students, a judicial hearing consistent with the Student Code of Conduct will be conducted following the conclusion of any investigation into the matter.

If it is determined that a violation of this Policy has occurred, the College will act promptly to eliminate the inappropriate conduct and prevent its recurrence, and address its effects by taking appropriate action, which may, depending upon the circumstances, include but not be limited to a change in class or work schedules or assignments, mandatory training or suspension, imposing restrictions on contact between parties, providing safe on-campus transportation and/or a security escort to and from classes, to a car or public transportation; leaves of absence, increased security or monitoring of certain areas of the campus and disciplinary measures such as reprimand, loss of privilege, expulsion and/or immediate termination.

Upon completion of the investigation, the individual(s) who made the complaint and the individual(s) against whom the complaint was made will be advised of the results of the investigation simultaneously, in writing and, where a remedy is determined to be appropriate, to inform the parties of the steps that will be taken to remedy the situation.

Interim Measures to Protect Safety and Well-Being

Following a report of sexual assault, sexual harassment or other sexual misconduct, the College will provide interim support and reasonable protection against further acts of misconduct, harassment, or retaliation as needed, as well as provide services and resources to provide a safe educational and employment environment.

The College will determine the necessity and scope of any interim measures pending the completion of the complaint process. Even when a Complainant or Respondent does not specifically request that protective action be taken, the College may still choose to impose interim measures at its discretion to ensure the safety of any individual, the broader College community, or the integrity of the review process.

All individuals are encouraged to report concerns about failure of another individual to abide by any restrictions imposed by an interim measure. The College will take prompt responsive action to enforce a previously implemented interim measure.

Depending on the facts and circumstances of the specific complaint, the Title IX Coordinator or designee will immediately contact agencies and organizations to effect immediate relief, care, and support for the complainant and/or the victim in any given case including but not limited to:

1. The closest, competent health care facility;
2. The police department and campus public safety;
3. The Student Support Referral Team (SSRT); or
4. The Employee Assistance Program (EAP).

As an immediate priority, care will be taken to ensure the safety and well-being of the complainant and/or victim, and to exercise all precautionary measures to prevent a repeat of the alleged incident of Gender Based Prohibited Conduct. Accordingly, interim measures such as a temporary suspension or leave of absence, may be implemented pending a hearing on the matter.

In cases of sexual violence, the Title IX Coordinator will inform the complaining victim of the right to file a criminal complaint with applicable law enforcement authorities and shall make known and available to the complaining victim information related to available support services and medical and counselling resources as applicable.

A Complainant who wishes to pursue a criminal complaint is encouraged to make a report to local law enforcement. The Office of Security and Safety, at the request of the victim, will assist with this reporting. Local law enforcement will determine if a criminal investigation will occur and if the case will be referred for prosecution. Unless there are compelling circumstances, the College will typically not file an independent police report without the consent of the Complainant.

Confidentiality

All actions taken to investigate and resolve complaints through this procedure shall be conducted with as much privacy, discretion and confidentiality as reasonably possible without compromising the thoroughness and fairness of the investigation. It is important to understand that, while the College will treat information it has received with appropriate sensitivity, College personnel may nonetheless need to share certain information with those at the College responsible for stopping or preventing Gender Based Prohibited Conduct. For example, College officers, other than those who are prohibited from reporting because of a legal confidentiality obligation or prohibition against reporting, must promptly notify the Title IX Coordinator about possible sexual or gender-based harassment, regardless of whether a complaint is filed. Such reporting is necessary for various reasons, including to ensure that persons possibly subjected to such conduct receive appropriate services and information; that the College can track incidents and identify patterns; and that, where appropriate, the College can take steps to protect the College community. This reporting by College officers will not necessarily result in a complaint; rather, the Title IX Coordinator will assess the information and determine what action, if any, will be taken. Information will be disclosed in this manner only to those at the College who, in the judgment of the Title IX Coordinator, have a need to know.

In addition, under some circumstances, to conduct a thorough investigation, investigator(s) may need to discuss the complaint with witnesses and those persons involved in, or affected by, the complaint, and those persons necessary to assist in the investigation or to implement appropriate disciplinary actions.

Should individuals desire to discuss an incident or other information only with persons who are subject to a legal confidentiality obligation or prohibition against reporting, they should ask College officers for information about such resources, which may be available both at the College and elsewhere. College officers are available to discuss these other resources and to assist individuals in making an informed decision.

Retaliation

Retaliation against any individual for making a complaint of a violation or alleged violation of this Policy will not be tolerated. Any acts of retaliation will be subject to appropriate disciplinary action, such as but not limited to reprimand, change in work assignment, loss of privileges, mandatory training or suspension and/or immediate termination or expulsion.

Violations of Other Rules

The College encourages the reporting of all concerns regarding Gender Based Prohibited Conduct. Sometimes individuals are hesitant to report instances of sexual or gender-based discrimination or harassment because they fear they may be charged with other policy violations, such as underage alcohol consumption. Because the College has a paramount interest in protecting the well-being of its community and remedying sexual or gender-based harassment, other policy violations will be considered, if necessary, separately from allegations under this Policy.

Advice and Assistance

Any member of the College community who believes that he or she has been the victim of Gender Based Prohibited Conduct may also contact the following individuals to obtain information on initiating either informal or formal procedures to resolve a complaint.

- All College Counselors are available to provide information and counseling, on a confidential basis, concerning incidents of Gender Based Prohibited Conduct.
- Complaints that a College employee has engaged in Gender Based Prohibited Conduct may be brought to the alleged offender's administrative supervisor.
- Complaints that a student has engaged in Gender Based Prohibited Conduct may be reported to the Director for Student Life Programs or Vice President for Student Affairs.

Resources

A variety of resources are available at the College and in the area to assist those who have experienced gender-based or sexual harassment, including sexual violence. They are:

On-Campus Emergency

Office of Security and Safety (215-968-8911)

Medical Treatment

Newtown

St. Mary's Hospital (215-710-2000)
1201 Langhorne-Newtown Road
Langhorne, PA 19047

Perkasie

Grandview Hospital (215-453-4000)
700 Lawn Avenue
Sellersville, PA 18960

Lower Bucks

Lower Bucks Hospital (215-785-9200)
501 Bath Road
Bristol, PA 19007

Aria Health (215-949-5180)
380 Oxford Valley Road
Langhorne, PA 19047

Emotional Support

Newtown Campus Student Services
Charles E. Rollins Center, 215-968-8189

Upper Bucks Campus Student Services Center
215-968-8189

Lower Bucks Campus Student Services Center
215-968-8189

Network of Victim Assistance (NOVA)
1-800-675-6900, Web site: www.novabucks.org

Law Enforcement Information

Police Emergencies - 911

Newtown Township Police
100 Municipal Drive, Newtown, PA
215-579-1000

Pennridge Regional Police
1027 Ridge Road, Sellersville, PA
215-257-5104

Bristol Township Police
2501 Bath Road, Bristol, PA
215-785-4040

In addition to the above, employees who believe that they may have been subjected to sexual harassment or unlawful discrimination, may file a formal complaint with government agencies set forth below. Students may file a complaint with the U.S. Department of Education. Using the College's complaint process does not prohibit an employee or student from filing a complaint with these agencies.

United States Equal Employment Opportunity Commission ("EEOC")
801 Market Street, Suite 1300
Philadelphia, PA 19107-3127
(800) 669-4000

Pennsylvania Human Relations Commission ("PHRC")
Philadelphia Regional Office 110 North 8th Street, Suite 501
Philadelphia, PA 19107
(215) 560-2496
(215) 560-3599 TTY users only

U.S. Department of Education Office of Civil Rights
Office for Civil Rights Philadelphia Office
U.S. Department of Education
The Wanamaker Building
100 Penn Square East, Suite 515
Philadelphia, PA 19107-3323
Telephone: (215) 656-8541
Facsimile: (215) 656-8605
Email: OCR.Philadelphia@ed.gov

Motor Vehicle Regulations

Motor Vehicle and Parking Regulations

The College's Motor Vehicle Regulations are enacted to increase safety on campus and to provide an orderly process for the operation of motor vehicles. It is the responsibility of all students, faculty and staff to register their vehicle and obey these regulations.

Every vehicle parked on the campuses of Bucks County Community College is required to display a valid [parking permit](#). Vehicles on campus without a parking permit will be subject to ticketing. Permits must be applied for online at [bucks.edu/parking](#). An optional temporary permit may be printed out, placed on the dashboard and is valid for up to 14 days. During that 14-day period, the student or employee should bring his/her vehicle registration and I.D. to the Office of Security and Safety located in Cottage 4. A permanent student or employee parking permit will be issued at that time.

COLLEGE MOTOR VEHICLE REGULATIONS ARE ENFORCED AT ALL TIMES ON ALL CAMPUSES OF BUCKS COUNTY COMMUNITY COLLEGE.

Section I

Operation

- All vehicles parked on campus require a parking permit and must be registered with the Office of Security and Safety.
- BCCC parking permits are free and must be visible at all times.
- You may register as many vehicles as needed, since permits may not be transferred from one vehicle to another.
- Please adhere or hang parking permits behind the interior rear-view mirror of the vehicle so they are visible through the front windshield.
- Temporary parking permits must be obtained by students and employees who use a leased, rented or borrowed vehicle. Please obtain a temporary permit from the Office of Security and Safety before parking your vehicle.
- Student parking is permitted in Lots A, B, C, D, and E. Parking in the Visitors Lot by either employees or students is prohibited at all times and will result in a fine.
- Permits are valid for the two-year period prior to the expiration date printed on the front of the permit.
- Bicycles and mopeds may be parked in the racks provided throughout campus.
- College staff and faculty must park in the specific areas designated for employees.
- Student workers and part-time college employees carrying more than six (6) credits at Bucks County Community College are considered students for parking purposes; they must obtain student parking permits and park in student lots only.
- Visitors should park in the Visitors area of Parking Lot B. (See Section III for detailed information.)
- UNAUTHORIZED PARKING IN HANDICAPPED OR INFIRMARY SPACES WILL RESULT IN A FINE. (See Section III, Paragraph D.)

Violations

The following are violations of the College's Motor Vehicle Code:

- Parking without a valid permit or improper placement of permit.
- Permit must be displayed on the back of the rear-view mirror, inside the vehicle, and must be visible at all times.
- Any alteration or transfer of a parking permit or handicapped permit renders it invalid.
- Parking or driving on grass area.
- Employee or student parking in visitor's area
- Student parked in employee lot
- Employee parked in student lot
- Parking on roadways or on shoulders.
- Unauthorized parking in any designated area.
- Parking in Loading/Unloading zone.
- Parking on crosswalk or within 20 feet of fire hydrants.
- Parking over the white line and/or obstructing two spaces.
- Failure to obey official traffic control signs or directions.
- Parking in fire lanes.
- Reckless driving.
- Unauthorized parking in a designated handicap/reserved infirmary area.

Section II Sanctions and Fines

Fines

- Monetary fines are itemized on all violations notices and are subject to change without notice.
- There are additional charges for towing and/or immobilizing vehicles.
- Unauthorized parking in handicapped/infirmary spaces - \$100
- Immobilization Boot - \$100
- Parking in Fire Lanes, reckless driving - \$50
- Parking without a valid Bucks County Community College permit and most other violations - \$15
- Parking with expired permit - \$10
- Parking with valid permit not properly displayed - \$5

Payment

All parking fines payments are due within 14 calendar days of the date of the violation. Payment can be made in any of the following ways:

- In-person at the Student Accounts Office. The Student Accounts Office is located in The Hub at the Newtown Campus and is open from 8:30 a.m. to 4:00 p.m. Payments (check or money order) may also be mailed to: BCCC / Student Accounts Office / 275 Swamp Road / Newtown, PA 18940
- Online through Self-Service.

UNPAID PARKING VIOLATION FINES

- Unpaid parking fines are considered financial obligations to the College and will result in withholding of student records, grades, transcripts, registration, or other official records.
- Employee fines not paid within 45 days will result in suspension of parking privileges. Once suspended, the vehicle is subject to immobilization or towing at the owner's expense.
- The College reserves the right to seek judgment in the Court of the District Justice against a student or employee who fails to satisfy any outstanding obligations levied according to these Motor Vehicle Regulations.

Towing/Immobilization Policy

- Towing – The College reserves the right to remove any vehicle which is parked in a driveway, fire lane, loading dock, handicapped area, or parked in such a way as to constitute a hazard to vehicular and pedestrian traffic or to the movement or operation of emergency equipment. The owner will be responsible for the costs involved in removing, impounding and storing the offending vehicle. All fees must be paid before the vehicle will be released. The College is not responsible for damage to a vehicle resulting from towing or immobilization.
- Any vehicle parked in violation of the motor vehicle regulations issued by Bucks County Community College may be immobilized by use of a wheel boot. Additionally, when a vehicle is determined to have three (3) or more parking violation notices charged against it, paid or unpaid, a boot may be used to immobilize the vehicle. The College will not authorize release of the vehicle to the owner or custodian until a payment of \$100 is made to remove the boot and all outstanding fines have been satisfied. In addition, any vehicle subject to towing may be immobilized instead. Flagrant violations of these motor vehicle regulations may result in the loss of parking and vehicle operating privileges on campus. Notice of the placement of a wheel boot shall be posted prominently on the vehicle. Placement of the notice shall depend upon the type of vehicle. The College is not responsible for damage to a vehicle resulting from towing or immobilizing the vehicle. Only members of the Office of Security and Safety staff may remove wheel boots.
- Vehicles left immobilized for longer than 36 hours may be moved to a storage facility. The owner/custodian of the vehicle shall be responsible for immobilization and removal fees as well as any storage fees.

Section III Procedures

Appeals of Violation Notices/Parking Privileges

- Violation Notices may be appealed to a special Traffic Appeals Committee.
- Appeals may be filed online at bucks.edu/parking within 14 calendar days of the date of the violation.
- An employee whose parking privileges have been suspended, may appeal the suspension to the Traffic Appeals Committee. The employee must file an appeal with the Human Resources Department no later than five (5) working days after the notice of the suspension of parking privileges has been received.
- Decisions made by the Traffic Appeals Committee are final.

Visitors

College departments expecting visitors should notify the Office of Security and Safety and secure visitor permits, which can be mailed to the visitor along with parking instructions.

- Visitors to campus must park in the Visitors Area, adjacent to Student Lot B. If this area is full, visitors are requested to report to the Office of Security and Safety, located in Cottage 4, for issuance of a permit and instructions on where to park.
- Visitors are subject to all Campus Motor Vehicle Regulations.

Special Parking

Arrangements for all special, temporary and visitor parking permits are coordinated through the Office of Security and Safety. Issuance of a permit does not guarantee a parking space. Lack of space is not considered a valid excuse for violation of regulations.

- Short-term (30 minute) parking spaces are located in lot V2 front of the Cottages and may be used by anyone who requires 30 minutes or less to transact college business.
- Temporary permits for "Loading and Unloading" are issued yearly to all college departments and budget areas by the Office of Security and Safety. These permits may be used for a maximum of 30 minutes.
- Parking in the areas outlined above will be timed and strictly enforced. Tickets will be issued to violators.

Handicapped Parking/Temporary Mobility Impairments

- Permanent Mobility Impairments: Individuals with permanent mobility impairments must have an official Pennsylvania Bureau of Motor Vehicles handicapped license plate or placard on their vehicle in order to park in any of the designated handicapped spaces on campus. Students and employees must also possess valid campus parking permits.
- Temporary Mobility Impairments: Parking arrangements are available to individuals with temporary mobility impairments. Applications for these "Infirmarium" spaces are available from the Office of Security and Safety. This type of temporary permits is issued on a per semester basis.
 - All reserved infirmarium spaces are clearly marked and posted.
 - Reserved infirmarium parking is available on a first-come, first-served basis.
 - Individuals with infirmarium permits may not park in handicapped spaces.
 - If all reserved infirmarium spaces on campus are full, drivers must park in a regular lot.

Disabled Vehicles

All disabled vehicles should be reported to the Office of Security. A reasonable period of time will be granted for the removal of a disabled vehicle but must be coordinated with the Office of Security and Safety.

Overnight Parking

Parking on campus between the hours of 12:00 midnight and 5:00 a.m. is prohibited, except for those who have received prior approval from the Office of Security and Safety. Permission will be granted for disabled vehicles and vehicles belonging to people participating in college sponsored trips. In all cases, the owner/operator should contact

the Office of Security and Safety.

Miscellaneous

- Motorists are advised that all Pennsylvania laws and regulations pertaining to the use of motor vehicles apply to all drivers and vehicles on the campus of Bucks County Community College.
- Any driver coming on campus to discharge or pick up passengers may do so in the area of Linden Lane designated for that purpose.
- Parking near the baseball field is at your own risk.
- The college is not responsible for the safety of vehicles or their contents.
- Bucks County Community College Motor Vehicle Regulations are in effect at all times.

Access for Disability

Elevators

- Founders Hall (right side)
- Library Building (Two separate elevators)
- Pemberton Hall – (rear of Admissions)
- Links Pavilion
- Rollins Center (by Café)
- Allied Health
- Gateway Center Lobby
- Science Center (by Founders connector)
- Grupp Hall (left side)

Wheelchair Lifts

- Charles E. Rollins Center - outside rear entrance connecting with the Library
- Charles E. Rollins Center - Fireside Lounge

Ramps

- Accessible Parking Lot - ramp to center of campus and side entrance of Founders Hall
- Hicks Art Center - main entrance
- Cooper Homestead - main entrance
- Grupp Hall - right side entrance
- Grupp Hall - rear side entrance to lecture halls
- Tyler Hall - front entrance and inside first floor

TDD - Telecommunication Devices for the Deaf

Charles E. Rollins Center – Accessibility Office

Evening Student Shuttle Service

The College operates a shuttle service Monday through Thursday nights between 6:00 p.m. and 11:00 p.m. Students are picked up in the parking lots and dropped off behind Grupp Hall and Founders Hall. After class, students are picked up behind Grupp and Founders Halls and dropped off near their vehicles.

Emergency Closing Information

When inclement weather or an emergency forces the cancellation or delayed start of classes, announcements will be made using the [e2campus](#) text message and email

system, on the college website, and on local and Philadelphia television and radio stations. Snow or icy conditions may close the College or delay its opening.

TV and Radio Codes

760 - (Newtown) Code number for day classes, including Saturday and Sunday

2760 - (Newtown) Code number for evening classes

759 - (Upper Bucks Campus) Code number for day classes, including Saturday and Sunday

2759 - (Upper Bucks Campus) Code number for evening classes

1366 - (Lower Bucks Campus) Code number for day classes, including Saturday and Sunday

2366 - (Lower Bucks Campus) Code number for evening classes

Delayed Openings

It is important for everyone to remember the following information when a delayed opening is announced:

- **One (1) hour delay** - all classes ending before 10:00 AM are canceled. Classes starting prior to 10:00 AM, but ending after 10:00 AM, would be held from 10:00 AM until regular class ending time. To aid Physical Plant in clearing roads/sidewalks, the gates to campus will not be opened until 9:15. Employees and students are not to arrive at the campus prior to 9:15 AM.
- **Two (2) hour delay** - all classes ending before 11:00 AM are canceled. Classes starting before 11:00 AM but ending after 11:00 AM would be held from 11:00 AM until regular class ending time. To aid Physical Plant in clearing roads/sidewalks, the gates to campus will not be opened until 10:15. Employees and students are not to arrive at the campus prior to 10:15 AM.

NOTE: The College will not open for evening, Saturday or Sunday classes on a delayed basis.

Cancellation of Day or Evening Classes

Day Classes: Classes that start in the morning or afternoon, including classes that end before 6:00 p.m. at the latest.

Evening Classes: Classes that start at 6:00 p.m. or later.

Note:

- When day classes are cancelled but evening classes are held:
 - if a class is scheduled to start before 6:00 p.m. and continue at least one hour after 6:00 p.m. (i.e., continue until 7:00 p.m. or later), it would be held. This class will begin at 6:00 p.m., instead of its regular starting time, and continue until its regular ending time.
 - If a class is scheduled to start before 6:00 p.m. and end before 7:00 p.m., it will not be held.
- When day classes are held but evening classes are cancelled:
 - day classes that start at 5:00 p.m. or earlier will be held but will end at 6:00 p.m.

[View College Map](#)

Student Records, Rights & Responsibilities

Buckley Amendment

Policy 1.19 [FERPA \(Buckley Amendment\)](#)

1.19 The Family Educational Rights and Privacy Act (FERPA – Buckley Amendment)

I. Purpose

This policy serves as guidance to faculty, staff and students regarding the privacy of student records and ensures that student education records are maintained in compliance with applicable federal and state laws.

II. Scope

The college accords all the rights under the Family Educational Rights and Privacy Act of 1974 (the Act) to its students. All faculty and staff are subject to the restrictions imposed by law.

III. General

Definitions

Authorized Representative refers to any entity or individual designated by a State or local educational authority or an agency headed by an official listed in §99.31(a)(3) to conduct — with respect to Federal- or State-supported education programs — any audit or evaluation, or any compliance or enforcement activity in connection with Federal legal requirements that relate to these programs.

Education Program refers to any program that is principally engaged in the provision of education, including, but not limited to, early childhood education, elementary and secondary education, postsecondary education, special education, job training, career and technical education, adult education and any program that is administered by an educational agency or institution.

Directory Information is personally identifiable information that is generally not considered harmful or an invasion of privacy if disclosed. It can be disclosed to outside organizations without a student's prior written consent.

Legitimate Educational Interest is the demonstrated "need to know" by those officials of an institution who act in students' educational interest, including faculty, administration, clerical and professional employees, and other persons who manage student record information including student employees or agents.

Personally Identifiable Information is data or information that includes, but is not limited to: the name of a student; the name of the student's parent or other family member; the address of the student or student's family; a personal identifier, such as the student's social security number or student number; a list of personal characteristics which would make the student's identity easily traceable; other information which would make the student's identity easily traceable, such as date of birth and mother's maiden name.

An Education Record is a record that:

- Directly relates to a student of the college and is maintained by the college or by a party acting for the college.
- Contains information, recorded in any way, including but not limited to: handwriting, print, film, microfilm, audio/videotapes, computer media, and microfiche.
- Relates to a student attending the college and who is employed by the college. An example of this type of record is the performance rating of a student enrolled and working for the college.

Education records do not include:

- Records of instructional, administrative, and educational personnel which are the sole possession of the maker and are not accessible or revealed to any individual except a temporary substitute for the maker of the record.
- Records of the law enforcement unit, employment records, or alumni records.
- Alumni records which contain information about a student after he or she is no longer in attendance at the college, and which do not relate to the person as a student.
- Records maintained by Bucks County Community College legal counsel.

The college collects, maintains, secures and destroys student records for the educational welfare and advancement of the students.

Students shall be notified of their rights with respect to student records, including the definition of directory information contained herein, and that they may limit the information. Subject to the requirements of the Act, the college may provide directory information from a student's education record, unless the student has stated in writing that such information may not be disclosed.

No one outside the college shall have access to, nor will the college disclose any information from students' education records, without the written consent of the students, except to personnel within the college, to officials of other institutions in which students seek to enroll, *to persons or organizations providing students financial aid, to accrediting agencies carrying out their accreditation functions, to persons in compliance with a judicial order, to persons in an emergency in order to protect the health or safety of students or other persons, and to individuals and agencies permitted under the Act.*

School officials who have been determined by the college to have legitimate educational interests may receive personally identifiable information from a student's education records without the student's consent.

The college defines directory information as:

- Name
- Major field of study
- Dates of Attendance
- Degrees and award received
- Previous institution (s) attended

- Full-time/part-time status
- Participation in officially recognized sports and activities
- Weight and height of members of athletic teams

No representative of the college shall release the contents of a student record to any member of the public without the prior written consent of the student, other than directory information as defined in this policy and information sought pursuant to a court order or lawfully issued subpoena, or as otherwise authorized by applicable federal and state laws.

Current and former attending and registered students of the college have the right to access their education records.

Violation of this policy may lead to disciplinary action up to and including termination.

IV. Procedures

none

V. Approval

Board of Trustees - January 10, 2019

VI. Responsibility

Vice President, Strategic Enrollment & Planning

Change of Address, Name, or Telephone Number

Student Records

Change of Name or Date of Birth

Legal name and date of birth changes and corrections can be emailed to registrar@bucks.edu from the Bucks student email account. In the email include a copy of a government issued document (passport, driver's license, social security card, or birth certificate) or a court order (marriage certificate, divorce decree, etc.) verifying your name or date of birth. Requests sent from non-Bucks or personal email accounts will not be processed.

If you would like your username and email address updated to your new name, please request this in your email. Changes to usernames and email addresses can only be completed when not actively enrolled/registered for courses.

Information on preferred first name is available on the [Services & Resources](#) webpage.

Change of Address

Address changes can be completed in Self-Service. Log into Self-Service and, in the top right, click on your username. From the drop down menu select User Profile.

Address changes can be emailed to registrar@bucks.edu from the Bucks student email address. Requests sent from non-Bucks or personal email accounts will not be processed.

If your address change includes a change in your residency into Pennsylvania and/or into Bucks County, please complete the [Residency Checklist and Regulations](#) and [Residency Verification Forms](#). You must prove your continuous residence in Pennsylvania for one year.

To receive classification as a Bucks County resident for a given term, the documentation and checklist must be received no later than the end of the third week of classes. Please submit the completed form, along with the requested documentation to residency@bucks.edu. Questions can be sent to residency@bucks.edu.

Change of Telephone Number or Personal Email Address

Telephone number and personal email address changes can be completed in Self-Service. Log into Self-Service and, in the top right, click on your username. From the drop down menu select User Profile.

Telephone number and personal email address changes can be emailed to info@bucks.edu or registrar@bucks.edu from the Bucks student email address. Requests sent from non-Bucks or personal email accounts will not be processed.

Change or Correction of Social Security Number

Social security number corrections and changes can be emailed to the Registrar's Office at registrar@bucks.edu from the Bucks student email address. In the email include a copy of your social security card. You may fax a copy to c/o Registrar at fax number 215-968-8110, or bring your social security card to the Registrar's Office, Lower Level Linksz Pavilion, Newtown Campus, for correction. Requests sent from non-Bucks or personal email accounts will not be processed.

Clearance Letters

When a student wishes to transfer, the transfer institution often requests a Letter of Clearance. This letter is sent to the college of the student's choice explaining whether he or she was involved in any disciplinary actions, his/her dates of attendance and general standing at Bucks County Community College. A Letter of Clearance is not a transcript.

Forms to have a Letter of Clearance issued are available in the Office of Student Life Programs, located on the upper level of the Charles E. Rollins Center. If the transfer institution issues its own form, that is mailed with the Letter of Clearance.

Transcripts

Your transcript is the official, permanent record of all the courses you have taken while attending Bucks County Community College. In accordance with the Public Information Act and the Family Educational Rights and Privacy Act (FERPA) of 1974, as amended, student academic records are classified as confidential and may be released only with the student's written authorization and signature. No one else (including your spouse, parent, family member, friend, employer, etc.) can request your transcript, as your written permission is required by law.

Bucks students can request an official copy of their transcript be sent to any college or university, employer, any specific address, or for pick-up in the Registrar's Office by visiting bucks.edu/transcripts. Three options for ordering official transcripts are available to students, including electronic, paper copy, or online through MyBucks Self-Service. Current students can obtain an unofficial copy of their transcript through their MyBucks Self-Service.

The \$5 Transcript Request Fee must be paid at the time of the request or the request will not be processed. Transcripts, official and unofficial, will not be released if a student has an outstanding financial obligation to the college.

Bucks students receive their grades through their MyBucks Self Service. Grade reports are no longer sent out through the mail.

Equal Employment Opportunity Statement

Bucks County Community College does not discriminate against any employee, applicant for employment, student or applicant for admission because of race, color, sex, religion, ancestry, national origin, age, sexual orientation, gender identity or expression, an individual's actual or perceived disability, genetic information or veteran status.

Accordingly, all recruiting, hiring, and promoting for all job classifications will be made without regard to race, color, sex, religion, ancestry, national origin, age, sexual orientation, gender identity or expression, an individual's actual or perceived disability, genetic information or veteran status.

All recruiting and admissions of students will be made without regard to race, color, sex, religion, ancestry, national origin, age, sexual orientation, gender identity or expression, an individual's actual or perceived disability, genetic information or veteran status.

Equal Opportunity in Education

Title IX of the Education Amendments of 1972 prohibits discrimination on the basis of sex in any educational program or activity sponsored by the College. Section 504 of the Rehabilitation Act of 1973 prohibits discrimination on the basis of handicap in any educational program or activity sponsored by the College, and Title VI of the Civil Rights Act of 1964 prohibits discrimination on the basis of race in any educational program or activity sponsored by the College.

It should be further noted that in addition to the above laws and regulations, the College is committed to the premise that all students and applicants for admission are entitled to an equal opportunity to acquire training, education, and skills at Bucks County Community College regardless of their sex, race, national origin, religion, color, sexual orientation, age, disability, ancestry, veteran status, or any other legally protected category.

The College will not tolerate any behavior by staff or students which constitutes sexual harassment of a student. All inquiries regarding the nondiscrimination policy shall be directed to the Executive Director, Human Resources & Equity Compliance Officer, Tyler Hall Room 130, Bucks County Community College, 275 Swamp Road, Newtown, PA 18940, 215-968-8091 (phone), 215-504-8506 (fax).

Student Consumer Information Services

Student Right to Know

As required by the Student Consumer Information Regulations, established under Title I of the Educational Amendment of 1976, the College provides information to current and prospective students concerning the academic programs offered by the College and the financial assistance programs available to students.

The College participates in all major federal and state financial aid programs. This Catalog includes a section on the College's Financial Aid Programs, including descriptions of the

various programs, application procedures, eligibility requirements, criteria for selecting recipients, criteria for determining award amounts, and a statement of the rights and responsibilities for students receiving financial assistance.

In addition to this information, the Financial Aid Office has prepared a Financial Aid Brochure which summarizes the aid programs available for current and prospective students. Requests for information and application materials should be directed to: Financial Aid Office, Bucks County Community College, Newtown, PA 18940.

This Catalog includes a section outlining tuition and fee charges for full and part-time students, as well as estimates for books and supplies, off-campus housing, transportation, and personal expenses. It is important to understand that this information is based upon typical expenses for the "average" student, and may vary greatly from student to student, depending upon housing plans, transportation arrangements, and other personal factors.

The College's Refund Policy is outlined in the Expenses section of this Catalog. It is the responsibility of the student to be aware of this refund policy, and to notify the College in writing of intent to withdraw from courses or the College.

The Office of Institutional Research maintains information on student retention rates by academic programs and also information on the number of students completing majors. In addition, this office conducts an annual follow-up study on post-graduate activities. This study includes information on numbers of students transferring to other colleges and universities and locating full and part-time jobs.

Additional information on retention rates, number of students completing majors, and similar types of information should be requested from: Office of Institutional Research, Assessment, Data Analytics, and Reporting (RADAR), Bucks County Community College, Newtown, PA 18940.

The College's contact person for Student Consumer Information Services is the Director of Financial Aid. Questions and requests for information should be directed to: Director of Financial Aid, Bucks County Community College, Newtown, PA 18940.

As a result of the Higher Education Amendments of 1998, the following list and brief descriptions are being made available so that students and parents will know what office(s) to contact for required disclosures:

- Rights Under Family Education Rights and Privacy Act - This Act was written to protect the privacy of education records. Questions may be addressed to the Registrar's Office.
- Completion/Graduation Rates - This will show completion or graduation rate of cohort of certificate or degree-seeking, full-time undergraduates who graduated or completed their program of study within 150% of the normal time for graduation or completion. Questions may be addressed to the Office of Institutional Research.
- Report on Athletic Program Participation Rates and Financial Support Data - Includes disclosures regarding institutional revenues and expenses attributable to

intercollegiate athletic activities as well as disclosures regarding athletic participation. Questions may be addressed to the Director of Athletics, Bucks County Community College, Newtown, PA 18940.

Student Right-to-Know Act

In response to the Right-to-Know and Campus Security Act, Public Law 101-542 and the Higher Education Technical Amendments of 1991, Public Law 102-26, and Department of Education regulations, Bucks County Community College is required to provide students with the following information:

The projected graduation rate for first-time, full-time students entering the college during Fall 2019 is approximately 18%. This rate is based on a 4-year average of the actual graduation rates of full-time students entering the college beginning with Fall 2012 through Fall 2015 and who completed an associate degree major within three years or who completed a certificate major within one and one-half years. It should be noted that these rates do not reflect the many students who successfully transfer to other educational institutions without earning a degree at Bucks County Community College or those who are still attending. These rates also do not reflect those students who have met their individual educational goals without earning a degree or certification.

Resolution of Student Concerns

As a comprehensive educational community, Bucks promotes an active and challenging learning environment. Varying viewpoints and differences of opinion in such an environment are natural and expected. Students enjoy a host of rights and responsibilities in addressing issues and concerns.

Student concerns are generally best resolved at the level at which the concern developed. Communication is the key to resolution. Students are encouraged to indicate concerns with specific matters to the office/area or individual most directly involved or responsible. A variety of mechanisms exist to assist students in processing such concerns. Faculty members, administrators, and College staff are receptive to discussion and welcome interaction with students. The Provost serves as an ombudsman for students and can assist in directing students to the most appropriate area or person to resolve concerns. Counseling services, academic deans, and area administrators can also provide assistance.

Students are encouraged to address concerns in an appropriate and timely manner and to utilize the resources noted above to assist in this process. If the student is unable to resolve the concern in an informal manner, then the student is encouraged to follow the procedures outlined in the Student Complaint Policy below.

STUDENT COMPLAINT POLICY

I. PURPOSE

This policy is designed to provide a mechanism by which a student may lodge a complaint regarding a service or academic encounter at the college. Through this process the college seeks to ensure the provision of a quality education and excellent support services for students. Further, the process is intended to identify opportunities to improve service and student satisfaction, as well as demonstrate compliance with federal regulations regarding the receipt, response to and tracking of student complaints.

II. SCOPE

This policy applies to an individual who is currently enrolled, or was enrolled at the college, within the previous semester, when the underlying facts and circumstances of the complaint first occurred, and who has not been suspended or dismissed, or otherwise is required to re-apply for admission.

Parents, relatives, employers, agents and other persons acting for, or on behalf of, a student are not able to file a complaint in a student's name.

III. GENERAL

This policy and accompanying procedures are based on the principle that the college is committed to handling student complaints in a manner which is perceived as fair, impartial, confidential and timely. This policy is the appropriate mechanism to pursue for complaints related to any aspect of college life including the delivery of academic, administrative and other support services. The effectiveness of the complaints process is regularly evaluated by those involved in it.

When a student encounters a problem on campus for which he/she seeks resolution, he/she should always first try to work the problem out through discussion with those immediately involved with, or responsible for, the service, decision or action in question. Dealing with concerns in the most direct and honest fashion should always be the first step toward resolution. The majority of problems can be resolved when a student makes an appointment with a faculty or staff member and calmly and honestly communicates their concerns. If however, an issue or problem still exists after informal resolution is attempted, a student may initiate the formal complaint procedures provided at the college. All formal student complaints must be received in writing through student entry of the complaint details into the online complaint resolution form used by the college. Once the [online form](#) is completed, an electronic copy is sent to the Office of the Provost.

Should the Provost be the subject of the concern, or directly party to it, the complaint may be made to the President.

COMPLAINTS ADDRESSED BY OTHER POLICIES

The following matters are not treated as Student Complaints within the scope of this policy but may be directed for resolution as follows:

- Sexual misconduct, harassment, or discrimination. [1.14 Gender Based Misconduct](#)
- Discrimination on grounds of equal opportunity. [1.10 Equal Opportunity](#)
- Failure to provide adequate accommodations. [1.11 Americans with Disabilities Act](#)
- Matters relating to student violations of the Code of Conduct. [3.12 Student Responsibilities for Conduct](#)
- A grade appeal, unless unethical, illegal or improper conduct of a faculty member may be the subject of the complaint even if it occurs in the context of a grade decision or appeal. [2.11 Grade Challenges](#)
- Tuition appeal. [3.18 Tuition Appeals](#)
- Matters relating to child abuse reporting. [1.21 Child Abuse Reporting](#)
- Grievances arising related to a student's employment at the college should be directed to the [Human Resources office](#).
- Complaints related to processes or individuals outside of the scope of college responsibility.

COMPLIANCE

Failure to comply with this policy may result either in no action being taken with respect to a complaint or other disposition by the Provost. Where such failure also causes a violation of

rules and policies regarding student or employee conduct, disciplinary action may result in accordance with the applicable rules and policies.

IV. PROCEDURE

COMPLAINT SUBMISSION

All formal student complaints must be received in writing within the semester of occurrence or as soon as possible thereafter. The student will provide the complaint facts and circumstances via the online complaint resolution form used by the college. The Office of the Student Affairs will receive, and be the central repository for, all complaints registered.

COMPLAINT REVIEW AND RESOLUTION

Using the complaint resolution system, the following process for review and resolution will be used.

1. The Provost will direct each complaint to the appropriate divisional Vice President or to the Provost for review and resolution.
2. Complaints will be acknowledged within 5 days of receiving all information necessary to process the complaint. This acknowledgement will:
 - be in writing from the divisional Vice President reviewing the complaint
 - identify the staff member handling the complaint
 - give an estimated time frame for resolution.
3. Complaints should be addressed as expeditiously as possible, with the goal of resolving each complaint within 30 days of acknowledgment of the complaint.
4. Upon arriving at a resolution, the divisional Vice President will send resolution details in writing to the student and the Provost, giving the reasons for the decision.

COMPLAINT TRACKING

The Office of the Provost, will track each Student Complaint via a web-based data management system and maintain within that system a record of the following for not less than two (2) years after final disposition of the complaint:

- Date complaint was received.
- Students identified with the complaint.
- Copy of the complaint.
- College officials who addressed the complaint.
- Steps taken to resolve the complaint.
- Final resolution or disposition of the complaint.
- Any external actions taken by the complainant of which the Provost becomes aware.

The data tracked will be assessed and made available to regulatory agencies and accrediting bodies, including the Middle States Commission on Higher Education and the Pennsylvania Department of Education, as required in accordance with applicable laws, regulations and policies.

In the unlikely event that an issue cannot be resolved by the college:

- on-ground students may file a complaint with their respective State Licensing Authority. Please see the accompanying guidelines to file a complaint with your local State.
- online students, except for those residing in California, may lodge an appeal with the Pennsylvania Department of Education.

- online students residing in California may file a complaint with their state agency.

State agencies should be contacted only after the student has registered a complaint with the college and has not received a response to the request for resolution.

Bucks County Community College is accredited by the Middle States Commission on Higher Education, 3624 Market Street, Philadelphia, PA 19104, (267) 284-5000. The Commission on Higher Education is an institutional accrediting agency recognized by the U.S. Secretary of Education and the Commission on Postsecondary Accreditation. Please see the Commission's guidelines for filing a complaint at www.msche.org.

Student Body Bill of Rights and Responsibilities

Rallies, Free Speech, and Communication

1. The College affirms the right of its students to hold rallies, speeches, and demonstrations after students observe the routine procedures designated by orderly scheduling of facilities and activities. In order to permit the normal and uninterrupted use of buildings, picketing shall be confined to out-of-doors in such a manner as to permit normal and orderly egress and ingress.
2. The placing of signs, posters, and banners shall be in conformity with the regulations set forth in this Catalog.

Rights

1. Freedom of expression in the classroom.
2. Protection against improper academic evaluation.
3. Protection against improper disclosure on the basis of classroom expressions.
4. Confidentiality of student records.
5. Freedom of association.
6. Freedom of inquiry and expression in student organizations.
7. Freedom of responsible expression in student publications.
8. Freedom to exercise citizenship rights.
9. Guarantee of due process in disciplinary proceedings.

Responsibilities

1. Compliance with and support of duly constituted civil authority.
2. Respect for the rights of others and cooperation to ensure that such rights are guaranteed.
3. Cooperation to ensure that the will of the majority is implemented after due consideration has been given to contrary points of view.
4. The exercise of dissent in an orderly manner and within a framework compatible with the orderly resolution of differences.
5. Active support of College regulations established through the joint efforts of students and faculty leaders.

Discipline

Any student who exhibits conduct not in keeping with the established standards of the College is subject to penalty with possible fine, probation, suspension, or expulsion from the College. It is the expectation of the faculty and administration of the College that students will grow in maturity and develop the ability to lead and govern themselves.

Code of Conduct

3.9 Student Responsibilities for Conduct

I. Purpose

To outline expectations of student conduct that promotes an environment conducive to learning, and to further define the judicial process for violations of the stated code of conduct.

II. Scope

Applicable to all students.

III. General

In order to provide the maximum opportunity for learning and to support the mutual respect necessary within the teaching/learning environment, students are expected to adhere to the following guidelines while on-campus and/or during any college-sponsored off-campus event.

Student Responsibilities

Students are expected to:

1. Report to class on time and remain for the duration of the class.
2. Be responsible for all material covered and announcements made within class, even when absent from class.
3. Come to class prepared (completed homework and readings).
4. Refrain from conversations whenever the instructor or another student is speaking.
5. Maintain an atmosphere conducive to the teaching/learning process.
6. Silence all electronic devices during class.
7. Abide by the college's Guide for Responsible Use of Electronic Communication and not abuse the privileges of access to electronic information and communication.
8. Adhere to classroom policies set by their instructors in the class format/syllabus.
9. Submit assignments on time (in the proper format), participate in class discussions, and prepare for tests.

10. Adhere to the college's Academic Integrity Policy.
11. Abide by college policies related to children on campus.
12. Refrain from tobacco use in unauthorized areas.
13. Abide by the Student Code of Conduct contained within this document.
14. Abide by all college policies.

Infractions/Violations

The following student actions are Code of Conduct Violations and may result in sanctions:

1. Plagiarism or academic cheating.
2. Forgery or alteration of the college identification card or records.
3. Destruction of, damage to, malicious misuse of, or abuse of college property
4. Destruction of, damage to, malicious misuse of, or abuse of another's personal property on campus.
5. Assault upon another person or the threat thereof while on campus or at a college-sponsored off-campus event.
6. Theft of college property or personal property on campus.
7. Lewd or indecent conduct on campus or at a college-sponsored event.
8. Possession, use, or sale of unauthorized narcotics or illegal substances on campus or at college-sponsored off-campus events.
9. Unauthorized use, possession, or sale of firearms or other dangerous weapons on campus.
10. Drunk and/or disorderly conduct on campus or at college-sponsored off-campus events.
11. Possession of alcoholic beverages on campus property except where expressly authorized by the President.
12. Harassment/bullying (including, but not limited to, directing physical or verbal conduct toward an individual because of the individual's age, race, color, ancestry, national origin, religion, creed, gender, sexual orientation, disability, gender identity, etc.)
13. Gender-based misconduct including sexual harassment, sex or gender-based discrimination, unlawful retaliation, sexually-related crimes including sexual assault or violence, intimate partner violence, stalking, and exploitation (see Policy [1.13 Gender-based Misconduct](#) for further detail).
14. Failure to provide proper identification of oneself when requested by a college official including security officers, faculty, and staff members.
15. Failure to respond to official correspondence and communication from the college.
16. Gambling on college property.
17. Smoking in unauthorized locations.
18. Disruptive behavior or conduct.
19. Misrepresentation of proper identification of oneself in the transaction of college business and dealings with college officials and representatives.
20. Unauthorized possession of animals on college premises.

21. Abuse of privileges of access to electronic information and communication.
22. Violation of other college rules and regulations after publication, distribution, or posting thereof in such a manner to ensure fair notice to the student.

Sanctions

If a student is found guilty of a violation(s), one or more of the following sanctions may be imposed:

1. **Expulsion:** permanent separation of the student from the college. Notification will appear in the official disciplinary file in the Office of Student Life Programs. The individual will also be barred from college premises.
2. **Suspension:** separation of the student from the college for a specified period of time. Notification will appear in the official disciplinary file. The individual shall not participate in any college sponsored activity and may be barred from college premises.
3. **Temporary Suspension:** the college reserves the right to temporarily suspend any individual charged under the Code with any violation which is a serious threat to the physical well-being of any individual(s) or property. In the event of such temporary suspension, a hearing must be held before the appropriate college official within seven (7) calendar days of the date of the incident or discovery thereof.
4. **Monetary Fines:** not to exceed \$125. Notification will appear on the student's financial records and in the official disciplinary file.
5. **Restitution:** the student is required to make payment to the college or other persons, groups, or organizations for damages incurred as a result of commission of a Code violation.
6. **Other Sanctions:** to include disciplinary probation consisting of written letters of reprimand, restrictions upon participation in college activities, requirement of formal apologies, explanations, and assignments of research and/or work projects. Other academic sanctions might include expulsion from a class or instructor initiated withdrawal from a course or courses. See policy on cheating and plagiarism for sanctions related to these violations.

IV. Procedures

Any person who exhibits conduct not in keeping with the established standards of the college is subject to penalty with possible fine, probation, suspension, or expulsion from the college.

Any member of the college community may charge any other member of the college community with a Code of Conduct violation.

Violations

All Code of Conduct violations must be filed in writing within seven (7) calendar days of their occurrence, with the exception of cases involving gender-based misconduct which have no time limit (see policy on Gender-Based Misconduct for related information).

1. Non-academic (non-classroom) violations must be reported to the Director, Student Life and Athletic Programs in the Office of Student Life.

2. Academic violations regarding plagiarism and cheating must be reported to the Provost. Academic violations regarding classroom offenses must be filed with the appropriate Academic Dean in the Academic Affairs Division.
3. Academic violations regarding classroom offenses in Integration of Knowledge (INTG) classes must be filed with the INTG Coordinator.
4. In cases of emergency, violations should be reported immediately to the Office of Safety and Security.

Following a report of a violation, the following judicial processes will take place.

Non-Classroom Violations

Upon report of a Code of Conduct violation, the Director of Student Life (Judicial Officer) will begin a preliminary investigation to determine if there is a reasonable cause to believe that a specific policy has been violated. If reasonable cause exists, the Judicial Officer will issue written notice of the code violation to the alleged code violator(s) within seven (7) calendar days of receiving the code violation incident report. This notification will include the alleged violator(s) and date, time, and location of the disciplinary hearing. The investigation may continue throughout this time.

There are two options for a hearing in a non-classroom oriented violation:

Option #1 for disciplinary hearing:

The alleged code violator(s) may choose to have the hearing with the Director, Student Life Programs. The Director will meet with the alleged code violator(s) in a one-on-one setting. Once all evidence has been reviewed, the Director has the option of deciding sanctions at that time. The Director will inform the alleged code violator(s) of the official college ruling in writing no later than seven (7) calendar days following the disciplinary hearing.

Option #2 for disciplinary hearing:

The alleged code violator(s) may choose to have the hearing with the Student Judicial Board with the exception of violations involving the college's Gender-Based Misconduct Policy, in which case, the hearing will be held before a specially appointed board of faculty and staff trained in handling such cases (see Policy 1.13 on Gender-Based Misconduct for related procedures).

The Student Judicial Board is appointed by the President of the college upon the recommendation of the Student Government Association. Involvement of the Student Judicial Board regarding a disciplinary matter is the option of the individual(s) charged with a code violation.

The Student Judicial Board is a committee of five (2 students, 2 faculty, 1 staff member) who will review the code violation, evidence and documentation, and make a written recommendation regarding findings and related sanctions to the Judicial Officer. The Judicial Officer will review the recommendation of the Student Judicial Board and will inform the alleged code violator(s) in writing of the official college ruling no later than seven (7) calendar days following the disciplinary hearing. Outcomes of hearings involving Gender-based misconduct cases will be shared simultaneously with all involved parties.

Academic Violations for Cheating and Plagiarism: see college policy on [Academic Integrity](#).

Academic Violations regarding Classroom Offenses:

Disruptive classroom behavior and other classroom offenses, including both face-to-face and online learning environments, will be filed with the Academic Dean in the department where the violation occurred, or with the INTG Coordinator for such offenses in INTG classes. Faculty members make primary decisions regarding student discipline in the classroom. These decisions are subject to review by the appropriate Academic Dean responsible for the department, or by the INTG Coordinator for those classes.

The following procedure will take place after a classroom Code of Conduct violation:

Faculty member will ask the student to cease the disruptive or code violating behavior.

1. If student does not cease the behavior, the faculty member may ask the student to leave the class.
2. If asked to leave a class, the student must meet with the faculty member before the next scheduled class meeting to resolve the behavioral issue before continuing in the class.
3. If in subsequent classes the student does not change his/her disruptive or code violating behavior, the faculty member will refer the student to the Academic Dean or the INTG Coordinator responsible for that department or class for a disciplinary hearing.
4. The Academic Dean or the INTG Coordinator will give the alleged code violator(s) written notice of what they are accused within seven (7) calendar days of the most recent violation, including the date and time of their hearing.
5. A disciplinary hearing will be conducted by the Assistant Academic Dean or INTG Coordinator who will determine the sanctions, if any.
6. The Academic Dean or the INTG Coordinator will inform the alleged code violator (s) in writing of the official College ruling no later than seven (7) calendar days following the disciplinary hearing.

Appeals

Appeals regarding disciplinary cases can only be submitted based on the following criteria:

1. The hearing was not conducted fairly because the accused student was not given a reasonable opportunity to present their case.
2. The procedures for the hearing were not properly followed.
3. The facts presented at the hearing were insufficient to establish responsibility for the violation.
4. The sanctions imposed were disproportionate to the nature of the offense(s).
5. New information, that was unavailable at the time of the hearing, has surfaced and would significantly impact the case. If there is any new information, the person hearing the appeal can either render an independent decision or refer the case back to the judicial hearing board for further review.

Appeals must be filed according to the following instructions:

- Appeals to all rulings must be made in writing within fourteen (14) calendar days of the disciplinary hearing date.
- All academic oriented appeals will be filed with the Provost.
- Non-academic oriented appeals will be filed with the Vice President of Student Affairs.
- A subsequent appeal may be made in writing within fourteen (14) calendar days of the first level appeal hearing date to the college President. The decision of the college President shall be final.

Disciplinary Records

Student disciplinary records are kept by the Office of Student Life Programs. These records are:

- confidential;
- available for examination by the student upon request;
- held indefinitely;
- excluded from an academic transcript and placement record;
- disclosed to all persons only upon subpoena, by written permission of the student, or as provided for elsewhere in this document.

V. Approval

President, August 3, 2015

VI. Responsibility

Enforcement of a College Code of Conduct requires the cooperation of the college community. The ultimate responsibility for enforcement of the Code of Conduct rests with the college President and Board of Trustees however the college President may delegate enforcement of the Code of Conduct to appropriate college administrative officials and staff members.

- Chief responsibility for the enforcement of academic-oriented violations and maintenance of related records rests with the Provost.
- Chief responsibility for the enforcement of non-academic oriented violations and maintenance of related records rests with the Associate Provost.
- Day-to-day enforcement responsibility rests with all members of the college community including students, faculty, administrators, and staff members.

Academic Integrity Policy

3.11 Academic Integrity

Policy 3.11 [Academic Integrity](#)

I. Purpose

Establish guidelines for adjudicating academic integrity violations.

II. Scope

This policy is applicable to all students.

III. General

The expectation at Bucks County Community College is that the principles of truth and honesty will be rigorously followed in all academic endeavors. In support of this aim, Bucks County Community College requires all students to exhibit academic integrity in all their academic work.

A culture of academic integrity is built upon respect for others' work, commitment to doing one's own work, and intolerance for academic dishonesty in all its forms. This assumes that all work will be done by the person who purports to do the work without unauthorized aids. In addition, when making use of language and some idea not his or her own, whether quoting them directly or paraphrasing them into his or her own words, the student must attribute the source of the material in some standard form, such as naming the source in the text or offering a citation. Students are expected to represent such sources accurately and truthfully when incorporating them into their own work.

Instructors should include in their syllabi an explanation of the Academic Integrity policy and its penalties.

No information pertaining to the offense shall be disclosed to external entities such as colleges, employers, or agencies, except upon subpoena or by written permission of the student.

Definitions

Violations of academic integrity include, but are not limited to:

Cheating - which is the use or attempted use of unauthorized material, information, electronic device, implement or study aid in, for example, any test, quiz, academic exercise or assignment without the instructor's permission;

Plagiarizing - which is the unacknowledged adoption or reproduction of the ideas, words, data or statements of others; for example, fellow students, printed materials, and internet sources;

Fabricating or falsifying - which is the unauthorized falsification or invention of any data, information or citation in an academic exercise;

Impersonating - which is assuming another individual's identity or allowing another individual to do so, for the purpose of fulfilling an academic requirement;

Facilitating - which is helping or attempting to help another commit an act of academic dishonesty; for example, making an assignment available or using a mobile device to coach another.

IV. Procedures

Reporting, Monitoring & Disclosure

The Office of the Provost maintains a central record and monitors all policy violations. Individual instructors are responsible for completing the Academic Integrity Reporting Form within fourteen (14) days of the discovery of an offense. The instructor should complete the

Academic Integrity Reporting Form using the appropriate reporting tool, which reports the incident to the Provost. The incident will be recorded, and a notice to the student will be generated and delivered to the Dean of the department in which the charge was made, for signature and delivery to the student. The Provost will also notify the student's Academic Dean and the Vice President, Student Affairs.

Instructors should always complete the Academic Integrity Reporting Form as a First Recorded Offense unless contacted by the Office of the Provost to resubmit the form as a Second Offense.

Penalties for Violations

See below for penalties for students who impersonate another student or otherwise facilitate academic dishonesty.

First Recorded Offense

The instructor will:

Determine whether the violation is Level 1 or Level 2. This determination is the instructor's purview, and may include consideration of severity, intent, or other factors.

- Level 1 - Issue a warning with the requirement that the offending portions of the work be revised and file the Academic Integrity Reporting Form.
- Level 2 – issue an automatic failing grade (F), worth zero points, for the work in question, e.g. quiz, essay, or examination, and file the Academic Integrity Reporting Form

Second Recorded Offense

The instructor will:

- File the Academic Integrity Reporting Form. Upon notification by the Office of the Provost that this is a second offense, the instructor will issue a failing grade (F) for the course.

Third Recorded Offense

The instructor will:

- File the Academic Integrity Reporting Form. Upon notification by the Office of the Provost that this is a third offense, the instructor will issue a failing grade (F) for the course.

The Provost will:

- Issue a one-semester suspension from the college and so notify the student.
- Notify the Offices of Student Affairs, Student Accounts, and the Registrar of the one-semester suspension for the upcoming semester. If the student is already registered for courses in the upcoming semester, the student should be dropped from those courses and issued a full refund.

Facilitator/Impersonator Charges to Apply to all Offenses

- When the facilitator/impersonator is enrolled in the same course, the instructor will file the Academic Integrity Reporting Form against said student and the facilitator/impersonator will be subject to the same penalty.
- When the facilitator/impersonator is not enrolled in the same course, the instructor will file the Academic Integrity Reporting Form against said student. The Provost's office will review this student's file and enter the appropriate charge.

Appeals

Appeals to all rulings may be made in writing within fourteen (14) calendar days of the disciplinary action. Appeals pertaining to Penalties for Violations of Academic Integrity should be directed to the Dean of the department in which the course is offered. If resolution is not achieved at that level, final appeal is made to the Provost.

V. Approval

President - August 2015; revised February 2017; revised November 2017

VI. Responsibility

Provost

Electronic Communications Policy

Policy 5.1 [Responsible Use of Electronic Resources](#)

The Policy Manual of Bucks County Community College contains language that applies to student use of electronic resources. References to "policy" refer to Information Technology Policy 5.0.

Access to the electronic resources of Bucks County Community College is a privilege granted to students, faculty, and staff of the College. The College strives to provide the best possible information systems, services and equipment to members of the campus community. The aim of this policy is to define the responsibilities of all authorized users and providers of electronic information systems and services. All users with system access, either temporary or permanent, are bound by this policy.

This policy applies to all electronic information systems and services provided by Bucks County Community College. Included are all forms of electronically stored information: documents, files, emails, text messages, instant messages, blogs and all other forms of internet-based communication. The policy also applies to all equipment including, but not limited to, college-owned personal computers, cellular or desktop telephones, fax machines, photocopiers, printers, cameras, system user accounts, and other network access devices and services.

Appropriate Use

Electronic means of information creation, access, storage, and exchange are to be used only for the purposes for which they are assigned. Appropriate uses fall within the College priorities on instruction, research, and other educationally and business-related communication.

The College recognizes that there may be occasions for incidental personal use; however, these instances should be limited and infrequent. Frequent personal use of College computer equipment may have tax implications for the user.

Following are the expectations for appropriate use and examples of inappropriate use.

Appropriate Use

- Use resources for College instructional, research, and business purposes only.
- Safeguard password and physical system access to prevent unauthorized use.
- Change password frequently incorporating unique character combinations.
- Share password with ITS staff for troubleshooting or support purposes.

- Communicate using professional and personal courtesy.
- Protect the integrity and confidentiality of College information and data.
- Practice good stewardship of College equipment.
- Adhere to copyright and file sharing laws.

Examples of Inappropriate Use

- Use resources for personal activities on a regular or frequent basis.
- Unauthorized use of the password of another user.
- Gain unauthorized access to resources or data or attempt to do so.
- Circumvent or disable system/network security measures or attempt to do so.
- Engage in any activity potentially damaging to the College network.
- Use, download, share, transfer or store any unauthorized software, copyrighted or entertainment material.
- Download or store media resulting in excessive consumption of network resources.
- Install unauthorized software on a College computer.
- Use computer programs to decode passwords or access control information.
- Use the network for unlawful, commercial or for-profit purposes, product advertisement or political lobbying.
- Use or display pornographic images in violation of existing law or College policy.
- Duplicate software or related documentation.

Monitoring and Confidentiality

Pursuant to the Electronic Communications Privacy Act of 1986, notice is given to users that no guarantee of privacy or confidentiality is provided when utilizing the electronic systems and services provided by Bucks County Community College. The College complies with state and federal law regarding certain legally protected confidential information but makes no representation that any other uses of this system will be private or confidential.

The College has the right and responsibility to monitor activity on its systems, including but not limited to all email and network traffic, as well as Internet access obtained through use of College resources. System administrators have access to all user history and will conduct routine audits and monitoring of system activity. User desktop audits will be conducted with the participation of Internal Audit staff. Users should also be aware that backup copies of messages and documents may exist, despite end-user deletion. The goal of backup and archiving procedures is to ensure system reliability and prevent business data loss.

If Bucks County Community College determines that activities are ongoing which do not comply with applicable laws or this policy, electronic records may be retrieved and used to document the activity. Triggers for record review may include but are not limited to, investigation of a confidential complaint, investigation of unusual network or server activity, or legal subpoena.

In legal matters which involve electronically stored information, the College will follow appropriate federal and state guidelines.

Account Activation/Termination

Student account activation is based on credit course enrollment at the College, as well as enrollment in certain non-credit courses and programs, and through the online application and registration process. Access to student email service and campus computer facilities will terminate during periods of non-enrollment or may occur as a result of inappropriate use as outlined in College procedures. During periods of non-enrollment students have continued access to online registration systems.

Plagiarism

Plagiarism and other forms of academic cheating are unacceptable and are considered as major infractions of the Student Code of Conduct and College Policy. The College policy regarding cheating and plagiarism applies to electronic forms of information and communication as well as to more traditional formats. Penalties for cheating and plagiarism, along with the College policy, are published in the College Catalog.

Reporting Misuse

Student users should report misuse or abuse to the Director, Information Technology Security at 215-968-8418.

Consequences of Failure to Comply with Guidelines for Responsible Use

Abuse of access privileges to electronic information and communication by students is subject to disciplinary action as specified in the Student Code of Conduct, published in the College Catalog, and according to College Policy.

Disclaimer

Bucks County Community College assumes no liability for direct and/or indirect damages arising from the use of its electronic communication systems by authorized users. Users are solely responsible for the content they disseminate. Bucks County Community College is not responsible for any third-party claim, demand, or damages arising out of use of the Bucks County Community College's electronic communication systems or services. Bucks County Community College will not be responsible for any damages suffered by users, including loss of data resulting from delays, non-deliveries, or service interruptions caused by College negligence or user errors or omissions. Use of any information obtained is at the risk of the user.

The College reserves the right to discard incoming mass mailings without notifying the sender or intended recipient and to block all internet communications from sites that are involved in extensive spamming or other disruptive practices, even though this may leave users of the College network unable to communicate with those sites. The College makes no warranties, expressed or implied, with respect to the content of any advice or information received by a user or cost/charges associated with such information and any cost, liability or damages caused by the way the user chooses to utilize network access.

Email User Responsibilities

Your BucksMail account is the official communication channel for the College. This means that we will use this account to communicate essential enrollment and academic information. The following procedures apply to your student email account provided by Bucks County Community College. These procedures support the College's policies related to [Electronic Communication](#). Failure to adhere to the following procedures may put your systems at risk.

Procedures for Appropriate College Email Account Management

1. Check BucksMail frequently
2. Your email account is for your use only.
3. Use a secure password and do not share it.
4. If you use a mobile device, keep your communications private by using a password lock.
5. Use email for lawful purposes only.

For tutorials and assistance in completing the above procedures, view the Helpdesk website: bucks.libguides.com/HelpDeskHome.

Best Practices for Using Your College Email

1. Be courteous.
2. Do not include any sensitive or personally identifiable information (PII). Examples of PII include social security number, and combinations of two or more of the following: username, password, ID number and date of birth.
3. Open email attachments or click links only within emails from known, trusted sources.
4. Even though you might not realize it, email, even BucksMail, is insecure. Do not include any information in an email that you would not want to be published.

Report email misuse to Help Desk at 215-968-8191.