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2016-2017 College Catalog

Welcome to Cecil College! "Real Students. Real Success." is a tagline at Cecil College and a state of mind that motivates us to excel on behalf of you, the student. Student success is our priority, and I am confident your experiences will prove that the combined efforts of faculty, staff and administrators are focused on making success a reality for you.

Whether you want to gain the knowledge and skills for immediate entry into the workforce or plan to transfer and earn a four-year degree, our outstanding team will support you in achieving your goals. We offer a variety of programs with year-round day, evening, hybrid and online classes that can fit into your life. We are here to help you select the right program of study.

While you are a student at Cecil College, please get involved and participate in campus and community activities. We have so much to offer. When you complete your certificate or degree at Cecil, we will help you transition to the workforce or to a four-year institution to continue your education.

Begin your journey with Cecil College; education makes a difference.

Warmest regards,

Mary Way Bolt

Mary Way Bolt

President

Quick Facts about Cecil College

To learn more about Cecil College, please see The Cecil Story.

Accreditations

Cecil College is a two-year public community college offering transfer, career-credit and non-credit continuing education courses. Cecil College is accredited by the Middle States Commission on Higher Education, meets the standards established by the Maryland Higher Education Commission, and is authorized to grant the associate's degree.

The Cecil College nursing program is also approved by the Maryland State Board of Nursing and accredited by the Accreditation Commission for Education in Nursing (ACEN) (3343 Peachtree Road, NE, Suite 850, Atlanta, GA, 30326).

The Physical Therapist Assistant Program at Cecil College is accredited by the Commission on Accreditation in Physical Therapy Education (CAPTE), 1111 North Fairfax Street, Alexandria, Virginia 22314; telephone: 703-706-3245; email: accreditation@apta.org; website: http://www.capteonline.org.

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Welcome to Cecil College's Online Catalog

Cecil College is here to help you find your pathway to higher education and or meaningful employment. This catalog will assist you through your academic journey and help guide your college experience.

Here's what you will find in this online publication:

Academic Program Offerings

Learn about our academic degrees and certificates. Each program page will provide you with a description of the degree or certificate, information about transfer opportunities, general education course requirements, specific program course requirements, and a recommended sequence of courses by semester to help guide you. New students are encouraged to connect with our Admissions Office to get started.

Career and Community Education offers courses, events, programs and certifications to a variety of audiences. Check out the array of offerings in academic preparation, adult and senior programing, business and career training, personal and commercial driver training, online classes and youth programs.

Course Offerings

Course selection is easy. View the entire selection of courses in the Course Description section of this site or, within each program of study you will find links to course descriptions with detailed scheduling information. You can even see information about required textbooks at this location.

Transfer and Career Services Guidance

Cecil's goal is to assist you with a smooth transition to a four-year institution or into a career. Our Advising staff will provide information on the more than 800 transfer agreements, and the Career and Job Placement Services staff will help guide you toward just the right occupational field.

How to Get Started at Cecil

Most importantly, your success begins when you connect with our Admissions Office. Representatives are available to assist you in getting started on the right path.

General Information and Services for Students

Use the Table of Contents to locate the college calendar, tuition and fees information, financial aid guidelines, policies and procedures, and information about student life activities and athletics as well as a host of campus support services.

The Cecil College catalog will be published online on an annual basis. New programs and courses will be updated throughout the year and may be found in the Addendum portion of this document. Students should always consult with an academic advisor to ensure that decisions are being made using the most current information.

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The Cecil Story

Mission

Cecil College is an inclusive, open-access community college committed to academic excellence and service to the greater community. The College provides a supportive learning environment to a diverse body of students as they build the skills and knowledge to achieve academic success, prepare to transfer, and enter the workforce. Further, Cecil College fosters intellectual, professional, and personal development through lifelong learning opportunities, the arts, and community engagement..

Vision

Cecil College, a dynamic and dedicated center of learning that transforms lives and strengthens our community.

Values

Cecil College takes *pride* in honoring our institutional values.

Collaboration: We foster a cooperative environment that is collegial, seeks consensus, and builds on the strength of each individual within the College and the community.

Compassion: We show care and concern for our students, our community, and each other.

Diversity: We embrace diversity, honor shared governance, and foster inclusiveness.

Excellence: We seek excellence in all facets of our academic enterprise and operations as we serve the College and community.

Innovation: We boldly pursue the most innovative learning environment for our students and community.

Integrity: We demonstrate honesty and respect at all times and act ethically in all matters.

Stewardship: We honor public trust by being principled stewards of the human, fiscal, and physical resources of the institution.

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Programs of Study

Programs marked with an asterisk (*) were approved after July 1, 2016, the official publish date of this document. Please refer to the Addendum for more information.

Art, Ceramics
Art, Drawing/Painting
Art, Graphic Design
Art and Design
Biology
Business, Accounting
Business, Administration
Business, Leadership and Management
Business, Management*
Business, Marketing
Chemistry*
Communications*
Computer Information Systems, Computer Aided Drafting and Design
Computer Information Systems, Programming
Computer Science
Criminal Justice
Cyber Security
Education, Early Childhood (AAT)*
Education, Elementary (AAT)*
Education, Elementary (AA)
Education, Secondary
Education, Secondary, Chemistry
Education, Secondary, English
Education, Secondary, Mathematics
Education, Secondary, Music
Education, Secondary, Physics
Engineering, Aerospace*
Engineering, Chemical*
Engineering, Civil*
Engineering, Computer*
Engineering, Electrical
Engineering, Mechanical
Environmental Science
Equine Studies
Exercise Sciences
Fire Science Technology
General Studies*
Geology
Government Contracting
Graphic Design and Multimedia*
Healthcare Sciences
Health Information Technology
Horticultural Science

Mathematics
Meteorology
Music
Music/Voice
Nursing
Ocean Studies
Paralegal
Paramedic
Photography, Professional*
Physical Therapist Assistant*
Physics
Psychology*
Public Health (with Areas of Concentration)*
Simulation Design and Gaming
Social Work*
Theatre Performance and Acting
Transportation and Logistics, Supply Chain Management
Transportation and Logistics, Transportation Management*
Video Production*
Web Design and Multimedia*

Certificates
- Art, Ceramics
- Art, Drawing/Painting
- Business, Accounting
- Business, Management
- Computer Information Systems, Oracle Certified Associate
- Computer Information Systems, Oracle Certified Professional
- Computer Information Systems, Programming
- Cyber Security
- Digital Imaging
- Equine Studies
- Equine Studies, Management
- Government Contracting
- Government Logistics
- Graphic Design
- Horticultural Science
- Marketing
- Nursing, Practical
- Personal Trainer/Fitness Manager
- Photography, Basic
- Photography, Portfolio Production
- Photography, Professional
- Photography, Studio
- Photography, Lab
- Simulation Design and Gaming
- Transportation and Logistics, Commercial Transportation*
- Transportation and Logistics, Supply Chain Management*
- Video Production
- Video Technology
- Web Design and Multimedia

Course Descriptions

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- Student Organizations and Leadership Opportunities
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- Transfer Advising and Articulation
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Fragrance Free Statement
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Parking and Transportation
Safety and Security

Career and Community Education

Career Education and Training
Community Education

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Milburn Stone Memorial Theatre
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College Calendar

SUMMER 2016	
June 4	Classes begin for weekend session
June 6	Classes begin for first 1-week session
June 13	Classes begin for second 1-week session and 7-week session
July 1	Last Day for August 2016 Graduation Applications
July 2-10	Holiday - College Closed
July 18	Classes begin for second 5-week session

FALL 2016	
August 1	Classes begin for Accelerated Degree and first 9-week sessions
August 15	Classes begin for first 1-week and first 2-week sessions
August 22	Classes begin for second 1-week session
August 20	Classes begin for first 7-week and 15 week sessions
September 2	Holiday - College Closes at 5 p.m., No Evening Classes
September 3-5	Holiday - College Closed - No Classes for Fall Semester or any Session
September 6	Classes Resume - College Opens at 8 a.m.
October 5	Classes begin for Accelerated Degree and second 9-week sessions
October 12	Classes begin for second 7-week session
November 1	Last Day for December 2016 Graduation Applications
November 22	College Offices Close at 10 p.m.
November 23-27	Holiday - College Closed
November 28	Classes Resume - College Opens at 8 a.m.
December 3	Fall Semester - Last Day of Classes before Exams for 15-week session
December 5-10	Fall Semester - Exams for 15-week session
December 23	Winter Break - College Closes at 5 p.m.
December 24-31	Winter Break - College Offices Closed

SPRING 2017	
January 1-2	Winter Break - College Offices Closed
January 3	College Offices Open at 8 a.m.
January 3	Classes begin for Accelerated Degree and first 9-week sessions
January 9	Classes begin for first 1-week session
January 16	Holiday - College Closed
January 17	Spring Semester - First Day of Classes for 7-week and 15-week sessions
January 23	Classes begin for first 2-week session
January 30	Classes begin for second 1-week session
February 15	Last Day for May 2017 Graduation Applications
March 7	Classes begin for Accelerated Degree and second 9-week sessions
March 13-18	Spring Break - No Classes (except Accelerated Degree sessions) College Offices Open – **except Friday, March 17 - College offices closed**
March 20	Classes resume for Spring Semester Classes begin for second 7-week session
May 1	Spring Semester - Last Day of Classes before Exams for 15-week session
May 2-6	Spring Semester Exams for 15 week session
May 8	Spring Semester Exams for 15 week session
May 21	College Graduation
May 22	Classes begins for Accelerated Degree session
May 26	College Closes at 5 p.m.
May 27-29	Holiday - College Closed
May 30	College Opens at 8 a.m.

COURSE CATALOGUE

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Philosophy

California College is an inclusive, open access institution committed to academic excellence. It supports student success through a rigorous, relevant, and supportive learning environment that prepares students for professional careers.

Student success at Cal College begins with Admissions. The department assists prospective students with the application process, provides information about financial aid options, and helps students navigate the enrollment process. Admissions also plays a key role in student success by ensuring that students are placed in the right classes from the outset.

If you have a disability that may impact your access to or sensitivity and/or accidence to Cal College and its services, please contact the Disability Services Coordinator at disabilities@cal-college.edu or call (888) 225-2280 or the Technology Building, Room 301 or contact via email disservices@cal-college.edu, or accommodations may be requested.

Accommodations are also available for students who are deaf or hard of hearing. Please contact Cal College Admissions at admissions@cal-college.edu with accessibility questions.

Undergraduate Admissions

Applicants who meet one of the following criteria are admitted to Cal College:

- Have graduated from an accredited high school.
- Have earned a diploma or equivalent (GED/HiSET/TASC).
- Have completed a minimum of 24 units of college-level coursework (see Cal College's website for a detailed list of the catalog or an equivalent course or a nationally accepted college entrance examination.
- Have completed a minimum of 24 units of college-level coursework and are 18 years of age or older.
- Have not completed an accredited high school program but are assessed as acceptable diplomas or equivalent (GED/HiSET/TASC) and are 18 years of age or older. Students who are under 18 years of age and have not completed a high school program but have high school equivalent credits, please contact the Admissions Department.

Cal College strongly encourages non-high school graduates to complete their high school graduation requirements. Students who are under 18 years of age and have not completed a high school program should contact the Admissions Department.

Open admission to Cal College does not grant enrollment in all courses and programs of the College. All the requirements for admission to specific programs are listed in the College catalog. Students may need to be accepted by a committee for admission to certain programs.

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Open Admissions: Procedures

Open Admissions is the only admission procedure available for some students. Open Admissions is also available to a course or program disciplines. An admission application is not required for non-credit enrollment. Students may need to be accepted by a committee for admission to certain programs. Students may also be required to be admitted to a program or discipline. Contact the program area.

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Undergraduate Admission Requirements

1. Complete the admission application and visit the Admissions Office. Apply on line at www.cal-college.edu/admissions or request a paper application from Admissions Office or download a copy from the Admissions Office.
2. Submit official transcripts from all previously attended schools (high school, GED, HiSET/TASC, Transfer Institutions).
3. Complete the English and mathematics reading and writing assessments on the Accuplacer Exam. Engineering and Physical Sciences students must complete the Accuplacer Advanced Algebra and Trigonometry Exam.
4. Students who have completed 24 units of college-level coursework at Cal College, Riverside and Washington Campuses, are 18 years of age or older, and have not completed a high school program, must complete the Ability to Benefit Exam.
5. Students who have completed a high school program but are assessed as not prepared for college-level coursework, are 18 years of age or older, and have not completed 24 units of college-level coursework, must complete the Ability to Benefit Exam.
6. Students who are under 18 years of age and have not completed a high school program, must contact the Admissions Department.
7. Students who are under 18 years of age and have completed a high school program, must contact the Admissions Department.
8. Register for classes. Register for classes at North Esc. Ellison Station, or online at MyCollegeCentral.com. Students may also register by phone at (888) 225-2280 or at the Admissions Office, or contact Admissions Office: (951) 683-7200.

Non-Credit Students: Admissions Procedures

Students who are not pursuing a degree or certificate from the Records and Registration Office or in the Admissions Office.

1. Submit additional documentation, as needed.

Credit Students: Selective Admissions

Fully College Academy (FCA):
Fully College Academy is a dual enrolled academy in college courses across grades 9-12. Successful completion of the FCA program results in a College Certificate of Completion and a College Associate Degree. Students will be required to complete a minimum of 24 units of college-level coursework in the College's certificated programs.

Dual Enrollment Students in the Jurupa Unified Schools (JUSD):
Students enrolled in the Jurupa Unified Schools (JUSD) have the option of admission into the Academy and Management in Social Work options. For accelerated studies, college-ready is defined as placing into English and Math at the College level based on the Accuplacer Exam. Students who are not college-ready will be required to complete Accuplacer or be placed into the Ability to Benefit Course or Developmental Education.

Skills Assessments, Placement, and Waivers

As part of the admissions process, all students entering Cal College are evaluated for placement purposes. The assessment is based on the student's previous academic performance, the student's goals, and standardized assessments. Students who are not college-ready will be required to take the assessments or specific coursework, reading, and writing. Students may need to take all the assessments or specific coursework, reading, and writing.

Skills assessments are not required for admission to Cal College. Students who are not college-ready are assigned to Cal College as a result of performance on the skills assessments. However, student whose scores indicate that they are not college-ready may be required to complete Developmental Education courses in order to be successful in the College's certificated programs. Students who are not college-ready may be required to complete Developmental Education courses in order to be successful in the College's certificated programs.

Any student CAL or guest who feels she/he/ze/ve cannot a high school diploma or GED (General Educational Development) diploma can contact the skills assessments.

Skills assessments are administered in the Testing Center, North Esc Campus, Engineering and Math Building, Room 301. Contact the Testing Center for information and schedule.

Student performance is closely monitored in the first sessions of developmental classes, and faculty may recommend a student be placed into a higher level class. Students who are underprepared for success in a class should contact faculty, the Student Success Coordinator, or Counselor.

Some courses and workshops with assessment requirements. Students may enroll in these courses without taking the assessment, but will be required to complete the assessment before the first class meeting.

Skills Assessment Waivers:
Students who have completed a college-level English or math course in the last two years, or who have completed a high school diploma or GED within the last two years, may be eligible for a waiver.

SAT/ACT Required Scores for Skills Assessment Waivers

SAT	Skills Assessment Waived	ACT
Critical Reading	Reading	19
Math	Math	19 or better
Writing	Reading, Writing	19
Critical Reading	Reading, Writing	19
English	Reading, Writing	19 or better
Math	Math	19 or better

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Secondary School Age Opportunities

- **On-Ramp** - Jurupa Unified's partnership with California Baptist College (CBC) and Cal College. The On-Ramp program is a dual enrollment program for students who are in their junior and senior years of high school. Students who are in the On-Ramp program are considered Cal College students. Students who are in the On-Ramp program are considered Cal College students. Students who are in the On-Ramp program are considered Cal College students. Cal College Resident, may participate in this program. All students must meet Cal College admission requirements.
- **Cal Concurrent Students** - Students under age 18, who are not enrolled in a high school program, may be eligible to take classes at Cal College. Students who are not enrolled in a high school program, Affect and Talent program, Gifted and talented is defined as having a college level in development in one or more areas, such as academic, creative, or artistic ability and demonstrating a need for services or activities not ordinarily provided in a regular classroom. Students who are not enrolled in a high school program, Affect and Talent program, Gifted and talented is defined as having a college level in development in one or more areas, such as academic, creative, or artistic ability and demonstrating a need for services or activities not ordinarily provided in a regular classroom. Students who are not enrolled in a high school program, Affect and Talent program, Gifted and talented is defined as having a college level in development in one or more areas, such as academic, creative, or artistic ability and demonstrating a need for services or activities not ordinarily provided in a regular classroom.
- **Dual Enrollment Program** - Any student of Corona Public Schools enrolled at Cal College's Riverside Campus, Washington Campus, or Online Campus. Students who are in the Dual Enrollment program are considered Cal College students.
- **Senior Master Program** - Corona Public Schools 12th students may opine at of at least three units of Cal College courses. Students who are in the Senior Master program are considered Cal College students.
- **Senior Scholars Program** - Corona Public Schools 12th students may opine at of at least three units of Cal College courses. Students who are in the Senior Scholars program are considered Cal College students.
- **STEM Science, Technology, Engineering, & Math Program** - Corona Public Schools 12th students of Cal College Public STEM City may enroll in designated courses at Cal College during their senior year of high school. Students who are in the STEM program are considered Cal College students.

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Health Professions Programs

Admission to the health professions programs (Associate of Science in Nursing (RN), Practical Nurse Certificate of Completion, Medical Assistant, Medical Assistant Certificate of Completion, Medical Assistant Certificate of Completion, and Medical Assistant Certificate of Completion) and specific specialty admission criteria and requirements are listed in the catalog.

Associate Certificate and Degree Programs:
Students who are in the Associate Degree Program, Associate Degree Program, Associate Degree Program,

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Tuition

Resident of Cecil County	$107/credit hour
Other Maryland Residents	$197/credit hour
Out-of-State Residents	$242/credit hour
Credit by Examination	Based on Residency

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Fees

Registration Fee*	$75/semester
Student Development Fee**	$8/credit hour
Course Fees	Variable

*$35 off Early Bird registration
**Not charged for summer session or senior citizens

Notes:

- VISA, MasterCard, American Express and Discover cards will be accepted for payment through the student portal.
- Payment is due at the time of registration.
- By registering for courses, students acknowledge responsibility of tuition and fee charges generated by the registration.
- Current tuition and fee information is published in the Credit Course Schedule and at www.my.cecil.edu. All tuition and fees are subject to change without prior notice.
- Students who audit courses are charged tuition at the same rate as students taking courses for credit.

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Fee Explanations

- **Course Fee –** offsets costs to provide various classroom materials and equipment needed to successfully offer classes, including instructional equipment, lab and classroom supplies, computer paper and software.
- **Registration Fee –** covers the cost of registration, add/drop and withdrawal from courses, student identification cards, admissions, transcripts, graduation, and the use of physical education facilities and equipment.
- **Student Development Fee –** covers expenses incurred for student development activities and cultural events discounts open to the student population.

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Authorized Payment Plan

The plan is payable in a maximum of four monthly installments, which vary depending on your application date, and is available for fall and spring semesters only. The total of your tuition and fees will be divided into four monthly payments that will be automatically deducted from your credit card or from your bank account (checking or savings). The processing fee for this plan is $15 and this fee will be deducted from the designated account upon enrollment. All arrangements for this plan are handled through www.my.cecil.edu and must be made the day you register or you will be responsible for paying the full balance of your account. This option is not available for Summer Session.

To enroll in the Payment Plan:

- Enroll online at www.my.cecil.edu
- See a cashier or call 410-287-1020 if you need help.
  Please note: It is important that you make your scheduled payment. A $36 fee will be added to your account each time you miss a payment. If you fail to make all of your payments as scheduled, the College has the right to demand immediate payment of the balance due in full. If you are delinquent on any of your payments, the College reserves the right to deny your enrollment for future semesters.

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Refund and Appeal Process

Credit Students: Students who officially drop a credit class before the designated drop deadlines are eligible for a full refund of tuition and course fees. A schedule of deadline dates for dropping classes and receiving a refund of tuition and course fees is published in the Credit Course Schedule. The drop period generally extends at least through the first scheduled class meeting.

To be eligible for a refund, students must drop online at www.my.cecil.edu within published drop dates, or file a Drop Form with the Registration Office. Visit www.my.cecil.edu to view dates and the drop procedure online. Students who stop attending classes, but do not officially complete the drop process continue to be financially responsible for all tuition and fees.

Students are provided a full refund of all tuition and associated fees when the College cancels a class.

- **Sessions of Four Weeks or Longer**
  100% refund through the date published in the Credit Course Schedule, which is calculated from the start date of the session.

  0% refund after the published date, except for students called to military duty or for students in special programs who are withdrawn by the College early in the semester due to program requirements.
- **Sessions of Less Than Four Weeks**
  0% refund from the start date of the session, with the exceptions noted above.

Non-Credit Students: Students who officially drop a course 24 hours prior to the first class meeting will be eligible to receive a full refund. To officially drop a course, students must complete a Drop Form and submit it to the Registration Office. If a Drop Form is not filed or if a student fails to attend, the student is responsible for all tuition and fees associated with the registration.

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Tuition Appeals (Credit Only)

After the refund date, appeals for refunds based on extraordinary or exceptional circumstances may be addressed in writing, with documentation, to the Registrar. Appeal for Refund forms are available in the Registration Office.

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Financial Obligations

Students are expected to pay all College bills, fees, accounts, and other financial obligations promptly, when due. Failure to meet these obligations will result in the withholding of the right to future enrollment, taking exams, and obtaining transcripts of grades and credits. A $36 fee will be charged for all checks returned for non-payment and declined credit card charges.

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Residency and Tuition Policy

Students at Cecil College pay tuition according to their domicile and are classified to be one of the following:

- a resident of Cecil County;
- a resident of the state of Maryland but outside of Cecil County;
- an out-of-state resident; or
- a student who is not a U.S. citizen, or permanent U.S. resident not holding an Alien Registration Receipt Card.

At the time of admission or initial enrollment in any course at the College (credit or non-credit), students will indicate their residency status and will affirm their residency at each subsequent registration. Students will be considered in-county residents if they maintain legal domicile in Cecil County and have done so for a period of three months or more prior to the start of semester/term at the College.

Students will be considered in-state residents if they have maintained legal domicile in other parts of the state for not less than three months. Otherwise, the student shall be considered an out-of-state resident.

Domicile – For tuition purposes, domicile may be defined as a person's permanent place of abode, where physical presence and possessions are maintained and where he/she intends to remain indefinitely, independent of attendance at the College. The domicile of a person who received more than one-half of his/her financial support from others in the most recently completed year is the domicile of the person contributing the greatest proportion of support, without regard to whether the parties are related by blood or marriage.

Unless information is received which would contradict or call into question the validity of the student's status, the College will accept the student's sworn statement. In the case of contradictory information, the College will assign residency status, and the student will be asked to provide proof of domicile. Registration will be restricted until the question of residency status is resolved.

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Determination of Residency

The College shall consider any or all of the following factors in determining residency and may request evidence for substantiation:

- ownership or rental of local living quarters;
- substantially uninterrupted physical presence, including the months when the student is not in attendance at the College;
- maintenance in Maryland and in the county of all, or substantially all, of the student's possessions;
- payment of state and local income taxes on all taxable income earned, including all taxable income earned outside the state;
- registration to vote in the state and county;
- registration of a motor vehicle in the state, with a local address specified, if the student owns or uses such a vehicle; and
- possession of a valid Maryland driver's license with a local address specified, if the student is licensed anywhere to drive a motor vehicle.

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Change of Residency Classification

Students may request a change in residency classification by filing a written request and submitting supporting documentation to the Registrar prior to the first day of classes for the semester/term. Students may appeal residency classifications made by the Registrar within 30 days by filing an appeal with the Vice President of Student Services and Institutional Effectiveness. The Vice President's decision is final.

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Military Personnel

Military personnel and their dependents who were domiciliaries of Maryland at the time of entrance into the armed forces and who are stationed outside the state may retain Maryland domicile as long as they do not establish domicile elsewhere.

Military personnel and their dependents, who were not domiciliaries of Maryland at the time of entrance into the armed forces, but are stationed in Maryland, may be considered state residents for tuition purposes as long as they remain on active duty in the state. In addition, those who are stationed in or live in Cecil County are considered county residents for tuition purposes.

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Contract Training

Students enrolled in a course contracted between the College and a business or industry that maintains facilities operates, or does business in the state may be considered a resident of Maryland for tuition purposes. Students enrolled in a course contracted between the College and a business or industry that operates its business in Cecil County may be considered a county resident for tuition purposes.

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Tuition for International Students

For non-U.S. citizens to be considered a Maryland resident for purposes of this policy, students shall possess the legal capacity under federal and state law to establish Maryland domicile.

All students with an F, B, or J visa status must pay out-of-state tuition. Consult with the Director of Records and Registration for other visa status.

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Educational Tax Credits

The Hope Scholarship
The Federal Hope Scholarship is a tax credit available to eligible students during their first two years of postsecondary education. For more information, please contact your local IRS office or visit the IRS website. Students must be enrolled at least half-time (six credits) in a degree or certificate program.

Lifetime Learning Credit
An individual paying qualified tuition and related expenses at a postsecondary educational institution may claim the credit, provided the institution is an eligible educational institution. Unlike the Hope Scholarship Credit, students are not required to be enrolled at least half-time in one of the first two years of postsecondary education. Nonresident aliens generally are not eligible to claim the Lifetime Learning Credit. For more information, please contact your local IRS office or visit the IRS website.

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Waivers and Reductions

College Bound Scholarship
Cecil County Public Schools, as well as certain other pre-approved public and private high school juniors, seniors, and approved talented/gifted students who enroll in college-level credit courses at Cecil College may receive a 50 percent scholarship toward in-county tuition based on residency. To participate, high school juniors must have a minimum grade point average of 3.0. A grade point average of 2.5 is required for high school seniors for program eligibility. Students must meet all other Cecil College entrance requirements and must present an eligibility form signed by a parent and a high school principal or other designated authority.

Science, Technology, Engineering and Math (STEM) Academy and Digital Arts Program
Cecil County Public School (CCPS) students eligible for STEM and Arts and Communications Cluster scholarships will receive a waiver for two-thirds of the in-county tuition rate in effect for the semester. Students must pay the balance of tuition and fees. In order to be eligible for the special two-thirds tuition arrangement, STEM Academy Scholarship participants must:

- be enrolled in the CCPS STEM Academy;
- demonstrate completion of the course sequence in the STEM Academy pathway; and
- demonstrate successful completion of all coursework in the Math/Science sequence of the CCPS STEM Academy.

Note: Special tuition rates apply only to dual enrollment courses as part of the CCPS STEM Academy program.

Arts and Communications Cluster Scholarship participants must:

- be enrolled in a CCPS Arts and Communications cluster sequence, and
- demonstrate successful completion of the CCPS coursework that is validated as the prerequisite for college-level course-work in Visual Communications at Cecil College.

Note: Special tuition rates apply only to dual enrollment courses as outlined in the dual enrollment Digital Arts Program in the CCPS Student Education Planning Guide and specifically designated pathway options in the Digital Arts pathway of the Guide.

Senior Citizen Tuition Waiver
Tuition and student development fee will be waived for Maryland residents 60 years and older enrolled in a course that has sufficient enrollment to be conducted. Seniors will be charged registration and course fees. Proof of age will be required at time of registration. Certain programs and courses available in continuing education (non-credit) are exempt from this waiver.

Social Security Disability Tuition Waiver
Tuition will be waived for disabled Maryland residents who meet the following criteria and receive verification of eligibility from the appropriate agency:

1. student is a resident of Maryland,
2. student has a permanent disability and is receiving a social security disability benefit, (SSDI) or supplemental security income, (SSI) as defined by the Social Security Act, Railroad Retirement Act, or the U.S. Office of Personnel Management, (Federal retirement or pension authority).
3. The Student MUST file a FAFSA each year by the specified deadline for all credit courses and specified non-credit courses. (See financial aid section for deadlines).

In addition, the course must have sufficient enrollment to be conducted. Eligible students will be charged registration and course fees. In order to request a disability tuition waiver, students may obtain a form from the Director of Advising.

Maryland National Guard Tuition Waiver
Cecil College offers a tuition reduction of 50 percent of the in-county tuition rate for members of the MD National Guard. Maryland National Guard (MDNG) members must meet the following eligibility criteria:

- must officially enroll as a student of Cecil College;
- must have been certified by the Maryland Adjutant General that the member has at least 24 months remaining to serve or has agreed in writing to serve for a minimum of 24 months; and
- must present to the Registrar or Accounts Receivable Manager a photocopy of his/her current military ID card and a letter of certification from the Maryland Adjutant General noting that he/she has at least twenty-four (24) months remaining to serve or has agreed in writing to serve for a minimum of twenty-four (24) months. All documentation must be presented to the Registrar or Accounts Receivable Manager to receive the tuition reduction.

Procedures:

1. complete the application form for MDNG tuition waiver which is available in the Registration Office and Cashiers Office;
2. obtain authorization from the Registrar or Accounts Receivable Manager;
3. obtain signature of the Registrar or Accounts Receivable Manager for the tuition waiver form by presenting;
   a. current military picture identification card, and
   b. certification by the Maryland Adjutant General.
4. return the Tuition Waiver form to the Registration Office and register for classes; and
5. present the Tuition Waiver form to the Cashier's Office and pay the balance of tuition and fees.

Health Manpower Shortage Program
Cecil College participates in the Health Manpower Shortage Program, as approved by the Maryland Higher Education Commission, in alignment with Maryland state law and consistent with fiscal policies within the College. This program enables out-of-county and out-of-state students to enroll at the College in credit courses that are required in a designated Health Manpower Shortage Program at in-county tuition rates under certain conditions.

- **Out-of-County Students (Maryland residents)**
  - Eligible Programs: Nursing, Practical Nursing
  - Procedures:
    1. Check Maryland Higher Education Commission to determine Healthcare Program of Study eligibility.
    2. The out-of-county (Maryland resident) student completes the application and enrollment process according to College policy and procedures.
    3. The out-of-county (Maryland resident) student is required to attend an advising session with the College's pre-nursing advisor.
    4. The out-of-county (Maryland resident) student and advisor complete a "Special Agreement" Form in which the student enrolls.
- **Out-of-State Students**
  - Eligible Programs: Nursing, Practical Nursing
  - Procedures:
    1. Check Maryland Higher Education Commission to determine Healthcare Program of Study eligibility.
    2. The out-of-state student completes the College's application and enrollment process according to policy and procedures.
    3. The out-of-state student completes a specific application form and certification process of acceptance available through the Department of Nursing.
    4. The out-of-state student registers at Cecil College for a minimum of six (6) credits per semester.
    5. The out-of-state student signs a surety bond or promissory note with the Maryland State Scholarship Administration.
    6. Students submit all documentation to the Dean of Nursing and Health Professions for state approval.

Maryland Foster Care Recipients
In accordance with the Maryland Higher Education Commission, Cecil College offers foster care recipients tuition waivers for those who resided in a foster care home at the time of graduation from high school or who have successfully completed a GED exam. Upon meeting eligibility requirements, the student is exempt from paying tuition and mandatory fees minus any grants and scholarships. Students must comply with all other Cecil College entrance requirements and must present a confirmation of waiver approval from the State Department of Human Resources, and complete the FAFSA application available online at www.fafsa.ed.gov. Applicants must apply between January 1 and March 1 of each year.

Tuition Rates for Employees of Cecil County Businesses
Employees of Cecil County Businesses that register for credit courses and state-approved non-credit courses may be eligible to receive in-county rates as long as the local business reimburses the student or directly pays Cecil College.

Procedures:

1. Upon completing registration, the student must provide a letter to the Cashier's Office which states the student's name, active status of employment, and date which employment began. (Student's must be employed prior to registration of courses). The letter must be written on company letterhead, signed by a company official, and must include the company phone number.
2. If the company is paying for the student's tuition, the letter must state the amount that will be covered and indicate whether the student must meet certain requirements in order to receive the educational assistance. Letters that contain requirements, such as a grade stipulation clause, will not be used to hold students in class. Students providing a letter that contains a stipulation will be asked to pay their balance upon registration. Any student using their employer as a source of payment should be aware that they will personally be held responsible for paying their account in full if the employer chooses not to pay.
3. The letter must state that the student is to be reimbursed directly if the company is not paying Cecil College. Students will need to pay their charges upon registration and wait for reimbursement from the employer.
4. Each letter must contain the following information*:

   Student Name
   Employment Status/Date
   Course Number(s) and Course Title(s)
   Start date of course(s)

   *The detailed information listed above is not necessary if the employer states they will pay for any and all courses taken during a semester with no stipulations.

Statewide Instructional Programs
Maryland residents may attend Cecil College at in-county tuition rates in programs that have been approved and designated as statewide programs by the Maryland Higher Education Commission.

- Eligible Programs: Visual Communications, Certain Transportation and Logistics programs, Government Contracting
- Procedures:
  1. Complete the admissions and enrollment process according to College policy and procedures.
  2. Complete the registration process with an advisor and complete the Special Agreement Form at the time of registration for each semester.
  3. Provide documentation from his/her local community college if the program is unavailable due to the program meeting or exceeding enrollment capacity, if applicable.

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Financial Aid

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General Information

Financial aid programs are designed to assist qualified students in meeting their college-related expenses. Need-based scholarships, grants, work-study and loans are types of financial assistance that require completion of the Free Application for Federal Student Aid (FAFSA) to determine eligibility. In addition, some Maryland State Scholarships have specific application and award criteria. The Cecil College Foundation Scholarship application can be found online.

The goal of Cecil College is to make the financial aid application process understandable and easy to follow. The financial aid staff maintains a strong commitment to students and encourages responsible participation in the process. The following are a few basic guidelines to ensure that students receive comprehensive consideration for all types of financial assistance:

- apply early to be considered for all types of aid: federal, state, and college aid.
- March 1 is the priority deadline for most Maryland state scholarships; April 30 is the Cecil College Foundation Scholarship deadline;
- promptly provide all documents that are requested by the Financial Aid Office; and
- when in doubt, ask questions.

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Eligibility Requirements

The following requirements must be met for students to receive federal student aid:

- be a U.S. citizen or eligible non-citizen;
- be registered with Selective Service, if required;
- be admitted into an eligible program of study*;
- be making satisfactory academic progress;
- not owe a refund on a federal grant or be in default on a federal education loan**;
- show demonstrated financial need by completing the FAFSA; and
- have a high school diploma or GED.

*Students that have satisfied bachelor degree requirements are not eligible for Pell grants.
** Students with student loans in active bankruptcy are not permitted to borrow additional student loan funds.

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How to Apply

All of the financial aid links mentioned in this section that refer to applying for federal, state and institutional aid are conveniently organized in the student portal at www.my.cecil.edu.

Once signed into the portal, students learn how to apply for financial aid as well as track the status of financial aid awards.

Complete a Free Application for Federal Student Aid (FAFSA) over the Web at www.fafsa.gov. If you are a dependent student, both parent and student should apply for a PIN at www.pin.ed.gov. Use the PIN to sign the online FAFSA, review and correct information, and re-apply for student aid every year. It takes 3 to 7 days for Cecil to receive the FAFSA results.

Students will receive a document called a Student Aid Report (SAR) from the U.S. Department of Education which summarizes the FAFSA information and lists the student's Expected Family Contribution (EFC), which is used to determine financial need.

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Federal Financial Aid Programs

The federal assistance programs are designed to provide funding for students who demonstrate financial need using the FAFSA. A standard needs analysis formula, called Federal Methodology, is applied to the information submitted in the FAFSA and treats all student information equally.

Federal Pell Grant
This program provides need-based grants to eligible full and part-time undergraduate students. The Expected Family Contribution (EFC) and the student's credit load determine the amount of the grant.

Federal Supplemental Educational Opportunity Grant (FSEOG)
This program provides supplemental funding for full- and part-time undergraduate students who demonstrate exceptional financial need. Priority is given to Federal Pell Grant recipients. The amounts may vary from $200 to $2,000.

Federal Work-Study Program
This program provides jobs for students who demonstrate financial need. Students work in various positions on and off campus, averaging 10 to 20 hours per week. Work-study contracts are given as funding allows.

Federal Direct Loans
The U.S. Department of Education administers the William D. Ford Federal Direct Loan (Direct Loan) Program. The program provides Stafford Loans for students and PLUS Loans for parents.

Under the Direct Loan program funds are borrowed directly from the federal government. Students must complete a FAFSA and Master Promissory Note (MPN), a legally binding document which describes the terms and conditions of your student loan and your agreement to pay back the funds.

If you change your mind about taking out a loan, please note that you may cancel all or part of your loan by notifying a member of the financial aid staff. If your loan funds have been disbursed to your tuition account, you may cancel all or part of the loan within certain timeframes.

Entrance counseling is required of all first-time borrowers. In addition, an exit interview is required when a student withdraws, graduates or drops below six credits. The purpose of both entrance counseling and exit interviews is to inform students of their rights and responsibilities as borrowers and to help them understand the importance of repaying their student loans and the consequences of neglecting to repay their loans as agreed in the Master Promissory Note. Repayment begins six months after graduating, withdrawing or dropping below six credits.

To accept a Direct Loan:

1. Complete the FAFSA at www.fafsa.gov;
2. Complete entrance counseling at www.studentloans.gov;
3. Complete a Master Promissory Note at www.studentloans.gov;
4. Complete a Direct Loan Acceptance Form and submit it to the financial aid office.

Federal Direct Parent Loan
The Federal Direct Loan for Undergraduate Students (PLUS) is federal funding that parents may borrow on behalf of their dependent undergraduate student(s) who are enrolled in an eligible program of study for at least six credits. Repayment begins 60 days after the loan is fully disbursed. Approval is based on a satisfactory credit rating. Apply at www.studentloans.gov.

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Maryland State Scholarship Program

Maryland offers a variety of scholarships and grants to full- and part-time Maryland residents attending a Maryland college. The FAFSA is used to apply for most Maryland scholarships; however, certain programs require an additional application. Applications can be printed from the state's Web site at www.mhec.state.md.us. Also, application information can be obtained from the Financial Aid Office or by contacting the state directly at 410-260-4565.

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Veteran Benefits

Cecil College is approved to participate in the Veterans Educational Benefits Programs. In order to ensure the educational success of our returning Veterans, Cecil also participates in the Maryland Campus Compact for Student Veterans.

- New students must complete an Application for Benefits. The application can be downloaded or completed electronically online at www.gibill.va.gov. Once your application has been processed, the VA will mail you a Certificate of Eligibility which outlines your chapter and percentage of eligibility for the GI Bill.
- Students must submit a copy of their Certificate of Eligibility to the school Certifying Official and are advised to schedule an appointment to discuss enrollment and benefit information.
- Students who have previously used their benefits at another institution must complete the Change of Program/Place Form, VA form 22-1995.

In addition, VA students who transfer to Cecil should have their academic transcripts evaluated for transfer credits toward their program of study. The toll free number for Veterans Affairs is 1-888-442-4551.

Veterans may receive transfer credits for military training experiences. Veterans should submit a copy of the American Council on Educators (ACE) evaluation and recommendations for military occupational specialties.

Note: Veterans must make academic progress to remain eligible for educational benefits. Non-punitive grades may result in an overpayment between the student and the VA.

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Cecil College Foundation Scholarships (Institutional Scholarships)

Over 200 students are awarded scholarships each year through the Cecil College Foundation, Inc. These scholarships are made possible through the generosity of friends, corporations, and alumni who support the mission and vision of the College. Financial need and academic merit are among the eligibility criteria for selecting the awardees. Apply by April 30 each year.

All applications are taken online.

Applications are automatically screened and matched to appropriate scholarships through the selection process. For further information, call 410-287-1053.

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Verification

Students whose applications are selected for verification must document the accuracy of the information provided in the FAFSA. The Financial Aid Office may request IRS Tax Return Transcripts, W-2 forms, Verification Worksheets and any other documents that may be needed to complete the verification process. Offers of financial aid will be made after all documents are received and the process is finalized in compliance with federal regulations.

Satisfactory Academic Progress

Satisfactory Academic Progress (SAP) Standards require that financial aid recipients must be making satisfactory academic progress in their program of study. Federal regulations require that progress be measured both quantitatively and qualitatively. This means that in addition to a minimum grade point average requirement, students must complete a minimum percentage of course work by the end of the academic year.

The SAP standards for financial aid recipients at Cecil College state that:

- students must maintain a minimum cumulative GPA of 2.0;
- students must maintain a cumulative completion rate of at least 70 percent of total credit hours attempted/total credit hours earned. Grades of F, I, M, R, NG, W and K are not counted as hours completed;
- students must complete their program within a 150 percent maximum time frame.

Students who fail to meet the SAP standards are placed on financial aid WARNING. During the WARNING semester, students may continue receiving financial aid and have an opportunity to meet the SAP standards before advancing to a SUSPENSION status. Upon completion of the WARNING semester a student who meets the SAP standards will be placed on a GOOD status. If, during the WARNING semester, a student fails to meet the SAP standards, they will be placed on a SUSPENSION status and will no longer be eligible to receive aid. Eligibility may be restored once satisfactory academic progress is achieved. This will require the student to register for classes, and pay out of pocket until SAP standards are achieved. Students with extenuating circumstances, who wish to appeal their financial aid suspension, may do so in writing to the Director of Financial Aid by completing the SAP Appeal Form, attaching supporting documentation, and providing a statement explaining why the deficiency occurred and the steps that will be taken to ensure successful progress in the future.

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Return of Title IV Funds

The Financial Aid Office is required by federal statute to recalculate the federal financial aid eligibility for students who withdraw, drop out, are dismissed or take a leave of absence prior to completing 60 percent of a payment period or term. The federal Title IV financial aid programs must be recalculated in these situations.

If a student leaves the institution prior to completing 60 percent of a payment period or term, the Financial Aid Office recalculates eligibility for Title IV funds. Recalculation is based on the percentage of earned aid using the following Federal Return of Title IV funds formula:

> Percentage of payment period or term completed = the number of days completed up to the withdrawal date divided by the total days in the payment period or term. (Any break of five days or more is not counted as part of the days in the term.) This percentage is also the percentage of earned aid.

Funds are returned to the appropriate federal program based on the percentage of unearned aid using the following formula:

> Aid to be returned = 100 percent of the aid that could be disbursed minus the percentage of earned aid multiplied by the total amount of aid that could have been disbursed during the payment period or term.

If a student earned less aid than was disbursed, the institution would be required to return a portion of the funds and the student would be required to return a portion of the funds. Keep in mind that when Title IV funds are returned, the student may owe a debit balance to the institution.

If a student earned more than was disbursed to him or her, the institution would owe the student a post-withdrawal disbursement which must be paid within 120 days of the student's withdrawal. The institution must return the amount of Title IV funds for which it is responsible no later than 45 days after the date of the determination of the date of the student's withdrawal.

Refunds must be allocated in the following order:

- Unsubsidized Federal Direct Stafford Loans (other than PLUS)
- Subsidized Federal Direct Stafford Loans
- Federal Direct PLUS Loans
- Federal Pell Grants
- Federal Supplemental Opportunity Grants

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Adjustments to Financial Aid

Sometimes it is necessary to adjust financial aid awards. Reasons for adjustments may include:

- dropping/adding or withdrawing from classes;
- receiving additional financial aid; and
- selection for verification resulting in revisions to FAFSA data and therefore, eligibility.

In addition, adjustments to aid cannot be made for late start classes if students were not previously registered for them by the end of the add/drop period of full semester classes. Financial aid award amounts are based on the number of credits for which students are enrolled at the beginning of the standard term. Students planning to take later-starting courses should register for them at the time they register for their full semester classes.

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Cancellation of Financial Aid

Many reasons warrant cancellation of financial aid. These reasons include, but are not limited to:

- default on a federal student loan;
- owing a repayment to a federal student aid program;
- incomplete verification process;
- unsatisfactory academic progress;
- non-attendance; or
- repeating previously passed courses.

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Opt-out of Electronic Communication

Any student who wishes to opt out of electronic (or any) communication to their personal email address or phone number must submit a request, in writing, to the Financial Aid Office.

Financial Aid Office
(410) 287-1003
(410) 287-1001 FAX
finaid@cecil.edu

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Formats for Learning

The College has three terms – fall, spring, and summer – in which students can earn credit in a variety of formats. The traditional term is 15 weeks long. Alternative formats offer flexibility in course delivery.

Accelerated Studies for the Adult Professional (ASAP)
Cecil College offers three programs of study for working adults who would like to complete their degree in a 17-month time frame. Courses are offered in seven, nine-week sessions with a one-week break between sessions. Students can earn nine to 11 credits in each session in a combination of classroom, online and experiential learning environments.

Condensed Sessions
Courses are offered in condensed sessions which allow students the opportunity to complete courses in a shortened time frame. Course offerings vary for each enrollment period and are listed in the Credit Course Schedule.

January Intersession
Each January, between the end of the fall semester and before the beginning of the spring semester, the College offers a limited number of courses in a compressed format.

Summer Session
The College offers courses during the summer session to allow students to supplement their coursework outside of the traditional fall and spring semesters.

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Distance Learning

Online Courses
Students may choose to enroll in an online course that offers the flexibility of working off campus. Online courses require the same level of dedication as on-campus courses. Course materials are available online. Online courses incorporate the use of a learning management system in the delivery of instruction. Students must use their Cecil College email address. Students may be required to utilize a recognized testing center. While offered in a format that allows the student more flexibility in completing coursework, students must adhere to the assignment schedule to allow for interaction with other online students. Section letter "Z" designates online courses. The instructor may require that the final exam be taken at an approved testing center.

Hybrid Courses
Hybrid courses combine on-campus and online learning activities. Hybrid courses incorporate the use of a learning management system in the delivery of instruction. Students must use their Cecil College email address. Section letter "H" designates hybrid courses. The instructor may require that the final exam be taken at an approved testing center.

Maryland Online (MOL)
Cecil students are offered the opportunity to enroll in select courses during the fall and spring semesters. The current course offerings are available at http://www.marylandonline.org/students.

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Independent Study

This method of instruction is to be used in the case of extenuating circumstances when the student does not have the opportunity to earn credit for the required course in another semester. A request for Independent Study must be submitted in writing to an academic advisor who will forward the request to the appropriate department chair for approval. The department chair will submit the form to the appropriate academic administrator for final approval. If the administrator approves the request, and a faculty member is available for instruction, the student enrolls for the independent study. Costs are comparable to on-campus courses.

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Evaluation of Prior Learning

Cecil College believes that learning is a lifelong process and is acquired in many different ways. In addition to the traditional classroom setting, mastery of college-level knowledge and skills may occur as a result of other learning experiences.

Students must complete all admissions procedures before Cecil College will accept and evaluate requests for Evaluation of Prior Learning. While credits earned through various prior learning methods count toward graduation, neither credits nor grades are used in the calculation of the grade point average.

Traditional Prior Learning
College and University Credit
Credit may be granted for coursework completed at accredited colleges and universities and those institutions recognized by the United States Department of Education. College credits earned at accredited institutions will be accepted for transfer if the course content is equivalent to that offered at Cecil College. Transfer credits from accredited institutions will be accepted subject to the following guidelines:

1. A student whose cumulative grade point average is at the 2.00 level or higher at an in-state accredited institution will receive credit for all transferable course work in which a grade of "D" or better is achieved. For out-of-state institutions, a "C" or higher is required.
2. A student whose cumulative grade point average is below 2.00 level at an accredited institution will receive credit for transferable coursework in which a grade of "C" or better was achieved.
3. Transferable coursework must be applicable to the student's declared program of study.

Foreign College and University Credit
Cecil College does not evaluate foreign transcripts. Students seeking credit for coursework completed at foreign colleges and universities must have their transcripts evaluated by the American Association of Collegiate Registrars and Admissions Officers (AACRAO), Educational Credential Evaluators (ECE) or World Education Services (WES). Students will not be granted credit for Freshman Composition unless extensive English credits are awarded by AACRAO, ECE or WES and students place into college-level English after completing Cecil College's skills assessment. Additional information is available from the Director of Records and Registration.

Alternative Prior Learning
The College may give credit for demonstrated proficiency in areas related to college-level courses. Sources used to determine such proficiency are College Level Examination Program (CLEP); Advanced Placement Examination (CEEB); Defense Activity for Nontraditional Education Support (DANTES); United States Armed Forces Institute (USAFI); Office of Education Credit and Credentials of the American Council on Education (ACE); Credit by Cecil College Departmental Examination; Advanced Prior Learning (APL by Portfolio Review); articulation agreements with approved high schools; and Credential Assessments. A maximum of 30 credit hours may be earned by alternative prior learning methods with a maximum of 15 credits through institutional credit by examination and portfolio assessment. In assigning credits of this nature, the recommendations of the American Council on Education (ACE) and written articulation agreements will be used as guidelines. Applicants who seek credit for prior learning should contact the Records and Registration Office at the time of application to the College.

- **Credit by Departmental Assessment**
  An academic department may award course credit to students who document learning comparable to that required in specific college courses. Students must be admitted to the College and pay all applicable fees prior to assessment. There are two ways learning can be evaluated: departmental examination (credit-by-exam) and portfolio assessment. A maximum of 15 credits may be earned by credit by exam and portfolio.
  - **Departmental Examination (Institutional Credit-by-Exam)**
    A departmental examination is created by the appropriate College department and administered by a faculty member. A passing grade on an examination is recorded with a grade of "S" on the permanent record. Examinations that are attempted but not passed are not recorded on the student's permanent record. Students who fail may not repeat credit-by-exam, but may take the actual course.

    Contact an Academic Advisor for more information about credit-by-exam.
  - **Portfolio Assessment**
    Credit for prior learning acquired through employment and experience may be awarded through the portfolio assessment option. To earn credit through this method, students must enroll in a course specifically designed to assist in the development of a portfolio in a format that enables faculty to assess eligibility for academic credit. The portfolio must provide documentation that course outcomes, as outlined in the course syllabus, have been mastered.

    A passing grade on the portfolio assessment is recorded with a grade of "S" on the student's permanent record. Portfolios submitted for assessment that are deemed unsatisfactory are not recorded on the student's permanent record.

    Contact an academic advisor for more information about Portfolio Assessment.
- **Credit by Articulation Agreements**
  Cecil County Public Schools and other approved high schools cooperate with Cecil College in a program designed to ensure that high school students acquire more rigorous academic and technical competencies. A coordinated sequence of courses prepares students for lifelong learning and provides a choice of career options leading to employment or advanced study at Cecil College. Cecil County high school students who have completed coursework in specific subject areas may be eligible to receive academic credit for this experience.

  Credits will be awarded to students once the evaluation criteria and the validation process have been met. Further information may be obtained from the College's advisors or from high school guidance counselors.
- **Credit and Continuing Education Partnerships**
  The College has a co-listed course program between its non-credit and credit divisions that allow students to be awarded credit for successful completion of selected continuing education courses. The College matches the instructional outcomes of these selected courses to ensure that rigorous academic and technical competencies are part of the desired outcomes.

  There are two ways for a student to receive credit once he/she has successfully completed the course for non-credit: petition for evaluation of prior learning, and departmental examination (credit-by-exam).
  - **Evaluation of Prior Learning (Portfolio)**
    A student who has successfully completed one of the selected courses through the continuing education division may petition for the award of credits by submitting the necessary paperwork to the Registrar within three weeks of the end date of the course. Credits will be awarded upon submission of the required paperwork and payment of all applicable charges.
  - **Departmental Examination (Credit-by-Exam)**
    A departmental examination is created by the appropriate College department and administered by a faculty member. A passing grade on an examination is recorded with a grade of "S" on the permanent record. Examinations that are attempted but not passed are not recorded on the student's permanent record. Students who fail may not repeat credit-by-exam, but may take the actual course.
- **Credit for Military Training**
  Credit may be granted for a variety of formal military training based on the student's declared program of study. Official military transcripts, including Community College of the Air Force (CCAF), AARTS, SMART, DD214, DD295, or other military transcripts, must be submitted to the Registrar for evaluation of credits. The College awards credit based upon the recommendations made by the American Council on Education (ACE) if the awards fit into the student's declared program of study.
- **Credit for Training Received in Business/Industry**
  Academic credit may be awarded for the completion of training programs that have been evaluated by the American Council on Education (ACE) or are recognized through an articulation agreement between the College and the training institution. Additional information may be obtained from the Registrar.
- **Advanced Placement Exams (AP)** exams are usually taken at the end of the high school senior year, concluding a specially designed advanced placement course. Cecil College will award credit based on a minimum score of (3) for the AP exams listed below unless otherwise indicated in the chart. Students must have official Advanced Placement score reports sent to Cecil College. To request an official AP score report, write to:

  Advanced Placement Exams
  P. O. Box 6671
  Princeton, NJ 08541-6671
  Telephone: 609-771-7300
  http://www.collegeboard.org

AP Examination	Minimum Score Required	Credits	Transfer Equivalency
Art 2D Design	3	3	ART 101
Art 3D Design	3	3	ART 201 (H)
Art History	3	3	ART 141 (H)
Biology	4	4	BIO 101 (S), BIO 111 or BIO130 (S), BIO 131 or BIO132 (S), BIO 133
Calculus AB	4	4	MAT 201 (M)
Calculus BC	4	8	MAT 201 (M), MAT 202 (M)
Chemistry	4	3	CHM 103 (S), CHM 113
Computer Science A	3	3	CSC 109
Computer Science AB	4	6	CSC 109, CSC 205
Economics: Macro	3	3	ECO 222 (SS)
Economics: Micro	3	3	ECO 221 (SS)
English Language and Composition	3	3	EGL 101 (E)
English Literature and Composition	3	6	EGL 101 (E), EGL 102 (H)
Environmental Science	4	3	ENV 106 (S), ENV 116
European History	3	6	HST 101 (H), HST 102 (H)
French Language	3	6	FRN 101 (H), FRN 102 (H)
French Literature	3	6	FRN 101, FRN 102 (H)
German Language	3	6	Arts/Humanities Elective (H)
Government & Politics: United States	3	3	POS 201 (SS)
Human Geography	3	3	GEO 102 (SS)
Music Theory	3	7	MUC 143 (H), MUC 110
Psychology	3	3	PSY 101 (SS)
Physics B	4	8	PHY 181 (SL), PHY 182 (SL)
Physics C	4	4	PHY 217 (SL)
Physics C: Electricity and Magnetism	5	4	PHY 218 (SL)
Spanish Language	3	6	SPN 101 (H), SPN 102 (H)
Spanish Literature	3	6	SPN 101 (H), SPN 102 (H)
Statistics	3	4	MAT 127 (M)
Studio Art: Drawing	3	6	ART 130 (H), ART 230 (H)
U.S. History	3	6	HST 201 (H), HST 202 (H)

- **The College Level Examination Program (CLEP)** provides nationally recognized credit for learning gained through experience or independent learning. Cecil College will award credit for the CLEP exams listed below provided the minimum passing score of 50 (computerized version) has been met. Students interested in learning more about CLEP should contact an academic advisor.

  It is the student's responsibility to have official CLEP score reports sent to Cecil College. To request an official CLEP score report, write to:

  CEEB CLEP Transcripts
  P.O. Box 6600
  Princeton, NJ 08541
  Telephone: 609-771-7865
  http://www.collegeboard.org

  Special note: The list of course equivalences and minimum scores is based on Cecil College's evaluation. Students transferring to other colleges or universities should consult the admissions office at that institution to determine course equivalencies and acceptable scores.

CLEP Exam	Credits	Transfer Equivalency
Business:		
Business Law, Introductory	3	BUS 210
Financial Accounting	3	BUS 101
Information Systems & Computer	3	CIS 101 (I)
Management, Principles of	3	BUS 131
Marketing, Principles of	3	BUS 212
Composition & Literature:		
American Literature	6	EGL 205 (H), EGL 206 (H)
Analyzing & Interpreting Literature	3	EGL 103 (H)
College Composition	6	EGL 101 (E), EGL 102 (H)
English Literature	6	EGL 203 (H), EGL 204 (H)
Freshman College Composition	3	EGL 101 (E)
Humanities	3	Humanities Elective (H)
Foreign Languages:		
French Language Level 1	6	FRN 101 (H), FRN 102 (H)
Spanish Language Level 1	6	SPN 101 (H), SPN 102 (H)
History and Social Sciences:		
American Government	3	POS 201 (SS)
Educational Psychology, Introduction to	3	PSY 207
Human Growth and Development	3	PSY 201 (SS)
Macroeconomics, Principles of	3	ECO 222 (SS)
Microeceonomics, Principles of	3	ECO 221 (SS)
Psychology, Introductory	3	PSY 101 (SS)
Sociology, Introductory	3	SOC 101 (SS)
History of the U.S. I	3	HST 201 (H)
History of the U.S. II	3	HST 202 (H)
Western Civilization I	3	HST 101 (H)
Western Civilization II	3	HST 102 (H)
Sciences and Mathematics:		
Calculus	4	MAT 201 (M)
College Algebra	3	Math Elective (M)
College Mathematics	3	Math Elective (M)
Precalculus	4	MAT 121 (M)
Biology	4	BIO 101 (S)
Chemistry	4	CHM Elective (S) (non-lab)

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Graduation

Application for Graduation

Students must make an appointment with an advisor to complete the graduation application, graduation audit sheet, and file the application with the Registrar's Office. There are three graduation evaluation periods: December, May, and August. Filing deadline dates and degree conferral dates are:

Important! Students must apply for graduation by the application deadline in order to begin the graduation clearance process.

Application Deadlines	Degree Conferral Date
Fall Graduation – November 1	Late December
Spring Graduation – February 15	May
Summer Graduation – July 1	Late August

Note: Students must complete and submit another application to the Registrar's Office if they do not satisfactorily complete the degree requirements for the term in which they intended to graduate.

While students may graduate in the fall, spring, or summer, the College only holds one graduation ceremony in May.

December, May and August graduates are invited to attend the graduation exercises held in May. Note, however, that attending the ceremony does not automatically denote graduation, since evaluation of records showing final grades may occur after the ceremony. Summer applicants planning on attending commencement must file their applications by February 15.

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Requirements for Certificates

Students are eligible to receive a certificate if they have met the following requirements:

- complete the courses listed in the certificate program;
- earn a minimum of a 2.0 cumulative grade point average in college-level courses;
- complete a minimum of 50 percent of the required credits in the certificate program at Cecil College;
- meet financial and academic obligations to the College;
- complete the certificate program requirements as outlined in the College catalog within five years of the intended date of graduation, as noted on the Application for Graduation; and
- submit an Application for Graduation to the Registrar's Office by the published deadline. Students may not receive a degree and certificate in the same program of study and option within the same graduation conferral term.

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Requirements for Associate's Degrees

Students are eligible to receive an associate's degree if they have met the following requirements:

- complete all course requirements in a given program. An associate's degree requires the completion of a minimum of 60 credit hours in college-level courses, of which 30 credits must be earned by direct classroom instruction and laboratory experience. All evidence of completed course requirements must be recorded in the Registrar's Office three days prior to the date of graduation;
- earn a minimum of a 2.0 cumulative grade point average in college-level courses;
- earn at least 30 credits in a program of study at Cecil College, or complete the last 15 credits of a curriculum at Cecil College (**Note:** Students enrolled under a college/military agreement may complete their final 15 credits in any order or time sequence.);
- complete the required General Education requirements;
- meet the financial and academic obligations of the College;
- submit an Application for Graduation to the Registrar's Office by the published deadline. A student may not receive a degree and certificate in the same program of study and option within the same graduation conferral term; and
- complete the degree program requirements as outlined in the College catalog within five years of the intended date of graduation, as noted on the Application for Graduation.

Note: Courses numbered 081 through 100 may not be used to satisfy graduation requirements.

The Chief Academic Officer or designee may grant exceptions to the above procedures.

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Graduation Requirements

Associate of Arts (AA), Associate of Arts in Teaching (AAT), Associate of Science (AS)
All students must meet specific General Education and institutional requirements within their associate's degree programs. To be eligible for the Associate of Arts (AA) degree, Associate of Arts in Teaching (AAT) degree, or the Associate of Science (AS) degree, students must complete a minimum of 60 credits of college-level work. Of the 60 credits, 30 credits must fulfill the College's General Education core requirements. The distribution of the General Education and institutional credits must meet the following specifications:

Description	Credits Required
Freshman Composition Freshman Composition (EGL 101) required	3
Composition & Literary Forms (EGL 102) or Technical Writing (EGL 211).	3
Arts and Humanities Students must complete two courses from two different disciplines.	6
Mathematics Students must complete one 3-4 credit mathematics course.	3-4
Biological/Physical Science w/Lab Students must complete 7 to 8 credits, including one lab science.	7-8
Social and Behavioral Sciences Students must complete two courses from two different disciplines.	6
Interdisciplinary and Emerging Issues Students must complete a general education computer literacy course, or in some degree programs, the computer literacy requirement is satisfied by the nature of the courses required in the degree.	3

Associate of Applied Science (AAS), Associate of Fine Arts (AFA)
To be eligible for the Associate of Applied Science (AAS) or Associate of Fine Arts (AFA) degree, students must complete a minimum of 60 credits of college-level work. Of the 60 credits, 20 credits must fulfill the College's General Education core requirements. The distribution of the General Education and institutional credits must meet the following specifications:

Description	Credits Required
Freshman Composition	3
Arts and Humanities	3
Mathematics	3-4
Biological/Physical Science w/Lab	4
Interdisciplinary and Emerging Issues Students must complete a general education literacy course or in some degree programs, the computer literacy requirement is satisfied by the nature of the courses required in the degree.	3
Social and Behavioral Sciences	3

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Grading

Grades and Quality Points

A letter grade is assigned for each course in which the student is enrolled at the end of the term. A grade submitted by the faculty member can be viewed on www.my.cecil.edu. The term grade report and unofficial transcript at MyCecil are available and printable. A quality point value per credit hour in the course is assigned to each letter grade. Developmental coursework is not calculated in the grade point average, as of the Fall 2003 semester.

Quality Point Value

Letter Grade	Interpretation	Quality Point Value per Credit Hour
A	Excellent	4
B	Good	3
C	Average	2
D*	Poor	1
F	Failure	0

*Not acceptable for certain programs as a satisfactory grade. Also requires repeating the course if the course is a pre-requisite for other courses.

Grade designations not included in the calculation of the GPA:

I	Incomplete
NG	No Grade or Late Grades
S	Satisfactory
U	Unsatisfactory
M	Post-Deadline Withdrawal
W	Withdrawal
R*	Re-enroll
K	Audit
V	Waiver of Prior Failing Grades

*Used for 081-099 and 100 level courses only.

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Grade Point Average (GPA)

Semester Grade Point Average
The semester grade point average (GPA) is determined by multiplying the number of credit hours in each course attempted by the number of points corresponding to the final grade for the course. The total is then divided by the number of credit hours attempted during that semester period. The GPA is computed only on college-level courses attempted at Cecil College. Courses for which the symbols of I, K, M, NG, R, S, U, V, W are awarded will not be considered in calculating the GPA.

Cumulative Grade Point Average
The cumulative GPA includes all college-level courses and grades attempted at Cecil College and is determined in the same manner as the semester GPA. In the case of repeated courses, only the highest grade earned will be used in computing the cumulative GPA.

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Incomplete Grades

The grade designation of "I" (Incomplete) is assigned only in exceptional circumstances and is a temporary grade issued by the instructor after an Incomplete Contract is completed. An Incomplete is issued only to students who cannot complete the course on schedule because of illness or other circumstances beyond their control. Students must complete the course requirements by the deadline printed on the Incomplete Contract, but no later than six weeks after the last scheduled final examination for the given term, or an "F" will be recorded for the course. It is the prerogative of the instructor to decide whether or not to issue an Incomplete Contract.

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Repeating of Courses

Students may repeat any course regardless of the grade earned. When a course is repeated, the highest grade earned is used to compute the adjusted GPA. However, both grades remain on the transcript. It is recommended that students repeat a course in which they earn a "D" if they wish to raise their GPA or if they need a higher grade for transfer. With the exception of the nursing and PTA courses, there are no restrictions on the number of times students may take a course.

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Change of Grades

The instructor is the only one authorized to assign a grade or to change a grade. Once a grade has been assigned and entered into a student's record, an instructor may request the Registrar to make a grade change if there has been an error in the determination of the grade. The instructor must file a Change of Grade Form in the Registration Office.

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Waiver of Prior Failing Grades

Under certain circumstances, failing grades earned by students when previously enrolled at Cecil College may be reviewed and designated in such a way as not to be calculated in the overall grade point average. This policy applies only to courses taken at Cecil College and only to students currently enrolled at the College. This policy does not affect the student's responsibility to meet all program requirements.

Criteria
Students may request to have up to 15 previously attempted semester hours reviewed on a course-by-course basis. Criteria for the waiver of prior failing grades are:

- students must be currently enrolled at Cecil College;
- students must not have attended Cecil College for at least one full semester since failing grades were earned;
- students must have earned at least 15 credits of college-level work at Cecil College or any other accredited degree-granting institution prior to requesting the review. These credits must have been earned after the failing grades were earned;
- students must not have earned any grade below a "C" in the most recent 15 credits earned;
- students may not apply for courses required in their program of study, courses that have been repeated and passed, or courses in which the student is currently registered or enrolled;
- submit narrative explaining your circumstances at the time of failure.

In no case will Cecil College waive more than a total of 15 credits of prior failing grades for an individual. Students are encouraged to consider applying for the waiver for courses that are no longer offered at the College, or courses no longer required in their program of study.

Procedures
The student must meet with an academic advisor to complete the application for Waiver of Prior Failing Grades. Applications approved by the advisor will be forwarded to the Registrar for review. The Registrar will notify the student in writing of the final action. Grades that are waived will be identified on the student's transcript by the letter "V," which indicates they will not be calculated in the student's overall grade point average.

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Appeal of Grades

Policy
Unless an appeal has been initiated, all grades become final 60 days after being issued to the student. Students may appeal a grade before 60 days have elapsed by following the procedures outlined below.

Procedures
Students who feel an earned grade is unjust must address their disagreements with their instructors, as the determination of grades lies with the instructor. If the matter is not satisfactorily resolved through this approach and the issue warrants further consideration, students may then further request a review by the appropriate academic administrator. A review by the appropriate academic administrator is used to determine if the grading criteria, as outlined by the course syllabus, have been followed. The decision of the Chief Academic Officer is final. **Note:** If, after students have followed the above steps, they believe that the grade was based upon discriminatory or unfair practices, students may use the Student Grievance Procedure (beginning with Step #3).

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Academic Achievement and Awards

President's List
Students qualifying for the President's List must earn a Grade Point Average (GPA) of 3.75 or better for that semester and be carrying a full credit load of at least 12 semester hours. Part-time students are eligible for the President's List after accumulating 15 credit hours or more with a semester GPA of 3.75 or better for that semester. This award excludes any grade received for developmental coursework.

Dean's List
Students qualifying for the Dean's List must earn a Grade Point Average (GPA) of 3.50-3.74 for that semester and be carrying a full credit load of at least 12 semester hours. Part-time students are eligible for the Dean's List after accumulating 15 credit hours or more with a semester GPA of 3.50-3.74 for that semester. This award excludes any grade received for developmental coursework.

Graduation Academic Honors

- **Graduating with Highest Honors** – Graduating students in degree programs completing a minimum of 30 semester hours at Cecil College with grade point averages of 3.75 or higher computed on all semesters of college-level work at Cecil College will qualify to graduate with highest honors.
- **Graduating with Honors** – Graduating students in degree programs completing a minimum of 30 semester hours at Cecil College with grade point averages of 3.50-3.74 in college-level course work will qualify to graduate with honors.
- **Graduating with Distinction** – Graduating students in certificate programs completing a minimum of 15 semester hours at Cecil College with grade point averages of 3.50 or higher computed on all semesters of college-level work at Cecil College will qualify to graduate with distinction.

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Alpha Alpha Theta/Phi Theta Kappa

Alpha Alpha Theta is the Cecil College chapter of Phi Theta Kappa, the international honor society of two-year colleges. The organization offers unique opportunities for students to gain leadership skills and give service to the College and community. Members are recognized for their academic achievement, and they enjoy the company of scholars at Cecil and at other colleges. Members may also qualify for over $25 million in transfer scholarships reserved exclusively for Phi Theta Kappa members.

Students must apply for membership in the honor society. Applications are available from the Alpha Alpha Theta advisor. To be eligible to join, students must earn 12 or more credits at Cecil in college-level courses, with a cumulative grade point average of 3.5 or greater.

Induction ceremonies are held during the academic year. Students are welcome to attend meetings and events held by the chapter before applying for membership.

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Academic Honesty Policy

Cecil College adheres to the highest standards of academic honesty. Students at Cecil College are expected to maintain that high standard by taking responsibility for their own academic success and achievement. All forms of academic dishonesty are serious offenses and will not be tolerated, and could lead to sanctions up to and including expulsion from the College. All members of the College community share the responsibility for the academic standards of the College. Academic honesty is a cornerstone of the development and acquisition of knowledge and is a critical component of continued membership in the College community.

Complete Academic Honesty Policy.

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Academic Standards for Credit Students Policy

Students at Cecil College are expected to take responsibility for their own academic success and achievement within the program of study planned with their academic advisors. Each semester Academic Programs will identify students who are not making academic progress. Academic progress is defined as maintaining a cumulative grade point average (GPA) of at least 2.0 for the time enrolled at Cecil College. Student Services and Institutional Effectiveness will provide intervention and support for students to encourage their academic progress. Students who are not making academic progress will be subject to academic probation or academic suspension. Developmental courses are considered in the determination of the GPA for academic probation or academic suspension.

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Procedures – Academic Probation

Students who have attempted 12 credits will be placed on academic probation in the next semester in which they enroll if their cumulative GPAs are less than 2.0. With their academic advisors' approval, students will be permitted to enroll for a maximum of 12 credit hours in the first semester of academic probation. Students will be encouraged to complete any prerequisite course(s) in their programs of studies and/or to repeat those courses in which they have received failing grades. Students who have registered prior to receiving notice of academic probation must meet with their academic advisors to have their current semester course schedules adjusted to comply with the provisions of this policy.

1. Upon completion of each semester, the Chief Academic Officer or designee will notify students whose cumulative GPAs are below 2.0 (after 12 or more credits), indicating (1) that they have been placed on academic probation; (2) that they must meet with their academic advisors prior to finalizing their next semester's schedules; and (3) that their next semester's course loads cannot exceed 12 credit hours without the approval and signature of their academic advisors.
2. Students who achieve a 2.0 semester GPA or higher will remain on academic probation as long as their cumulative GPA falls below the 2.0 cumulative GPA required for graduation.
3. Students on probation who do not have a semester or cumulative GPA of 2.0 or higher, will then be restricted to 7 credits in the next semester.

Satisfaction of Academic Probation
In order for academic probation to be lifted, students must achieve and maintain at least a 2.0 cumulative GPA.

Academic Suspension
Students on academic probation for two consecutive semesters who do not achieve a minimum 2.0 semester GPA will be placed on academic suspension for one semester. Students may not enroll in credit courses while on academic suspension.

1. Upon completion of the probationary semesters, the Chief Academic Officer or designee will notify students whose semester GPAs are below 2.0 indicating that they have been placed on academic suspension.
2. Students who wish to appeal academic suspension must follow the procedures for appeal.

Reinstatement
Students readmitted after academic suspensions are considered to be on academic probation. Refer to academic probation procedures.

Appeal
Students have one opportunity to appeal academic suspension. The appeal process must be completed before the start of the next semester. After the semester has begun, no appeals of academic suspension will be acknowledged.

1. Students must submit a formal letter of appeal including supporting documentation to the Chief Academic Officer or designee.
2. Upon receipt of appeal documentation, a decision will be made and students will be notified within 14 days, except when the College is closed or during semester breaks.

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Attendance

Absence of Teaching Faculty Members
If a teaching faculty member is late for class, students must remain in class at least 15 minutes after the time the class is scheduled to begin.

Student Attendance Policy
Students are expected to attend all classes except for reasons of illness or emergency. Each instructor will determine and announce the attendance policy and requirements for each course. Make-up tests may be administered at the request of the student and at the convenience and discretion of the instructor.

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Credit Hours

A credit hour is the unit by which academic work is measured. In a 15-week term, a minimum of 50 minutes spent in class per week represents a credit hour. If a student takes a three-credit course during a 15-week term, they can expect to attend class once a week for a minimum of 150 minutes, twice a week for a minimum of 75 minutes or three times a week for a minimum 50 minutes.

Each course and laboratory is assigned a particular number of credit hours, and these are specified in the section of this catalog titled Course Descriptions. As a guide, students can expect to prepare two hours per week outside of class for every credit hour enrolled.

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Hours Attempted and Earned

Hours attempted are the total number of credit hours in all the credit college-level courses for which students receive one of the letter grades listed under Grades and Quality Points.

Hours earned are the total number of credit hours in college-level courses for which students receive a letter grade of D or higher. No credit hours are earned with a grade of F, K, I, M, NG, R, or W.

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Final Examination Statement

Students are required to take the final examination in each course they are registered, on the date scheduled by the Office of Academic Programs. The exam should be a culminating activity which reflects students' progress and a mastery of the course objectives. Permission for makeup examinations is left to the discretion of the instructor.

The exam schedule is available in each schedule of classes brochure and on the web.

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Course Substitutions

Students requesting course substitutions are required to get written permission from the appropriate academic administrator or program department chair. The substitution form must be filled out by the student, submitted to the appropriate academic administrator or program department chair, and, if approved, placed in the student's permanent file. The student is responsible for securing approval, in advance, for any deviations from the requirements of their program of study. Students should maintain a copy of all approved substitution requests to be used in support of their graduation applications.

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Statewide Programs

In order to avoid duplication of specialized career program offerings, the state of Maryland's community college system has designated these specific associate degrees as a statewide program. Students may attend at in-county rates, as long as the program is not offered at a public community college in the region of their residence or if offered, is not available due to enrollment capacity.

Allegany College of Maryland
Hotel & Restaurant Management
Medical Assistant
Automotive Tech
Forest Tech
Culinary Arts
Therapeutic Massage

Anne Arundel Community College
Homeland Security Management
Hotel/Restaurant Management
Medical Assisting
EMT Paramedic
Therapeutic Massage
Paralegal Studies

Cecil College
Visual Communications
Transportation and Logistics
Government Contracting

College of Southern Maryland
Massage Therapy
Medical Laboratory Technician

Community Colleges of Baltimore County
Aviation Management
Computer Graphic & Visual Communication
Veterinary Tech
Chemical Dependency Counseling
Mortuary Science
Occupational Safety & Health Tech
Radiation Therapy
Health and Fitness Studies
Horticulture
Automotive Technology
Construction Management
Geospatial Application
Automotive Technology – Collision Repair
Diesel and Equipment Maintenance Technology
Survey Technology
Recreation, Parks and Tourism
Labor Studies
Interpreter Preparation
E-Business Management
E-Business Technology
Multimedia Technology

Frederick Community College
Nuclear Medicine Technology
Emergency Management

Garrett College
Natural Resources and Wildlife Tech
Adventure Sports Management
Juvenile Justice

Hagerstown Community College
Industrial Technology

Harford Community College
Technical/Professional Studies
Electroneurodiagnostic Tech
High Performance Manufacturing
Science Lab Tech

Howard Community College
Cardiovascular Tech
Biomedical Engineer
Photonics Technology

Montgomery College – All Campuses
Diagnostic Medical Sonography
Biotechnology
Fire Science / Fire Service Management
Graphic Design (AFA)
Studio Art (AFA)
Surgical Technologist

Prince George's Community College
Nuclear Medicine Tech
Investigative Forensics
Forensic Transfer Studies

Wor-Wic Community College
Hotel-Motel-Restaurant Management
Criminal Justice

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Degree, Certificate and General Education Information

Degree Programs
Certificate Programs
Programs to Meet Diverse Educational Needs
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General Education and Institutional Requirements
Definition of General Education Competencies for Cecil College
General Education Course Codes
Approved General Education Courses by Category

Cecil College offers programs of study that lead to associate degrees and program certificates. Students may enter a program designed for transfer to a four-year institution; one that prepares them for immediate entry into the workforce; or a program that helps them upgrade skills in their current career.

Degree Programs

There are five associate's degrees:

- **The associate of arts (A.A.) degree** recognizes mastery in the liberal arts (humanities, social sciences and similar subjects) and in the fine arts. The associate of arts degree transfers to appropriate baccalaureate programs and provides for career exploration and skills upgrading.
- **The associate of science (A.S.) degree** recognizes a curricular focus in science, mathematics, or technology. The associate of science degree transfers to appropriate baccalaureate programs and also provides for career exploration and skills upgrading.
- **The associate of applied science (A.A.S.) degree** recognizes a curricular focus in a specific occupational area. The associate of applied science degree is designed primarily for immediate employment or career mobility and is identified with a specialty designation, e.g., computer technology, law enforcement, etc.
- **The associate of arts in teaching (A.A.T.) degree** is designed for transfer to a Maryland four-year institution to obtain a baccalaureate degree and teacher certification.
- **The associate of fine arts (A.F.A.) degree** is designated for transfer to a four-year institution to obtain a baccalaureate degree.

Associate degree programs consist of general education courses, program specific courses, and electives. To qualify for an associate's degree, students must complete the minimum number of credit hours required in their programs and earn a cumulative grade point average of 2.0 (A.A.T. requirements) or better in college-level courses, meet other graduation requirements and general education requirements.

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Certificate Programs

The College offers certificate programs for those who wish to gain a credential for acquired knowledge, skills and abilities focused in specific discipline areas. Most certificate programs are designed to assist students with goals for upgrading skills for immediate application in employment. Many certificate programs are designed as units within associate degree programs and can be acquired in the process of seeking an associate's degree. Certificate programs require the completion of 12 credits or more. Students must complete 50 percent of their course work at Cecil College and earn a cumulative grade point average of 2.0 or better in college-level courses, and meet all other graduation requirements.

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Programs to Meet Diverse Educational Needs

To meet the educational needs of the community, Cecil College offers programs in general education, college or university transfer, career education, continuing education, and student development services.

1. The general education program provides all students with writing, speaking, reading, critical thinking and computing skills and knowledge to function as educated citizens in a complex world.
2. College transfer programs prepare students for further learning by providing courses in specific disciplines and general education that parallel the first two years at a four-year institution.
3. The career education program prepares students for immediate employment in technical and business fields and allows students to continue studies at four-year institutions.
4. The non-credit division of the College provides non-credit courses and skills which allow individuals to upgrade their abilities, prepare for state licensure, re-train for new occupations, enrich cultural backgrounds, and develop specialized interests. It also provides contract training for business and industry.
5. Student Services and Institutional Effectiveness provides students with a variety of resources, including academic advising and support, multicultural affairs, job placement and career management services, financial aid services, student development activities, and intercollegiate athletics.

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General Education - Student Learning Outcomes

Student learning across the curriculum is measured by the expected student learning outcomes for General Education. Through the General Education core requirements, all curricula are designed so that students demonstrate college-level competency in:

A. critical and creative thinking skills and problem-solving strategies;
B. writing;
C. oral communications;
D. quantitative analysis;
E. computer literacy and in the ability to work productively with information technology; and
F. awareness of ethics, cultural diversity, artistic expression, health and wellness issues, and the physical and social environment; and
G. information literacy including finding, evaluating and using information effectively.

The state of Maryland mandates that every associate degree program contain general education requirements designed to introduce students to the fundamental knowledge, skills, and values that are essential to the study of academic disciplines. To assure that associate degree students meet the general education requirements defined by the state of Maryland, each degree program includes a distribution of general education credits. Courses which meet general education requirements must be approved by the College's Academic Affairs Committee.

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General Education and Institutional Requirements

The College defines general education as the portion of the curriculum devoted to the development of the skills, knowledge and abilities essential to all students, regardless of chosen majors. The course distribution is intended to ensure that students have mastered and demonstrated a familiarity with core knowledge basic to all college-level work.

General Education Requirements and Institutional Requirements and Institutional Requirements for Associate of Arts (A.A.) Associate of Arts in Teaching (A.A.T.) and Associate of Science (A.S.) Degrees (minimum of 30 general education credits)

Arts and Humanities

- 6 semester credit hours in the arts and humanities general education courses
- Courses must be from two different disciplines and have different course prefixes

Biological and Physical Sciences

- 7-8 semester credit hours in biological and physical sciences general education courses
- One of the courses must be a laboratory science course

English Composition

- 3 credits in Freshman Composition (EGL 101)

Mathematics

- 3 semester credit hours in a mathematics general education course

Social and Behavioral Sciences

- 6 semester credit hours in social and behavioral sciences general education courses
- Courses must be from two different disciplines and have different course prefixes

General Education Electives

- Additional general education courses to complete a minimum of 30 semester hours

Institutional Requirement

- 3 additional credits in Composition and Literature (EGL 102) or Technical Writing (EGL 211)

General Education Requirements and Institutional Requirements for Associate of Applied Sciences (A.A.S.) and Associate of Fine Arts (A.F.A.) Degrees (minimum of 20 general education credits)

Arts and Humanities

- 3 semester credit hours in the arts and humanities general education course

Biological and Physical Sciences

- 4 semester credit hours in biological and physical sciences general education course
- Course must be a laboratory science course

English Composition

- 3 credits in Freshman Composition (EGL101)

Mathematics

- 3 semester credit hours in a mathematics general education course

Social and Behavioral Sciences

- 3 semester credit hours in social and behavioral sciences general education course

General Education Electives

- Additional general education courses to complete a minimum of 20 semester hours

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Definition of General Education Competencies for Cecil College

1. Written and Oral Communication
Cecil College defines college-level writing competency according to the Standards for a "C" Paper as approved on March 3, 1998, by the Maryland Statewide English Composition Committee and on April 21, 1998 by the Inter-segmental Chief Academic Officers of Maryland's two- and four-year institutions of higher education.

College-level oral communication is defined as improved oral expression, listening, critical thinking, and message analysis, and enhanced appreciation and understanding of various forms of expression/communication.

2. Scientific and Quantitative Reasoning
Cecil College defines college-level competency in scientific reasoning as students' ability to articulate the elements of the scientific method, and the application of such elements to the analysis and the practice of science. Students should be able to collect, analyze, interpret, evaluate, and present data.

College-level quantitative reasoning is defined by the following approved statewide attributes:

a. interpret mathematical models given verbally, or by formulas, graphs, tables, or schematics, and draw inferences from them,
b. represent mathematical concepts verbally, and where appropriate, symbolically, visually, and numerically,
c. use arithmetic, algebraic, geometric, technological, or statistical methods to solve problems,
d. use mathematical reasoning with appropriate technology to solve problems, test conjectures, judge the validity of arguments, formulate valid arguments, and communicate the reasoning and the results,
e. estimate and check answers to mathematical problems in order to determine reasonableness
f. recognize and use connections within mathematics and between mathematics and other disciplines

3. Critical Analysis and Reasoning
Cecil College defines college-level proficiency in critical analysis and reasoning to include, but not limited to, the following: application, analysis, synthesis, evaluation, problem solving, and decision making, as well as creative thinking, meta-cognition, and productive habits of the mind.

4. Technological Competency
Cecil College defines college-level technological competency as the students' ability to engage in technology collaboration; use and create structured digital documents; perform technology-enhanced presentations; use technology tools for research and evaluation; use databases to manage information; use technology tools for analyzing qualitative and quantitative data; use graphical and multimedia representational technologies; demonstrate familiarity with major legal, ethical, privacy and security issues; demonstrate a working knowledge of hardware and software applications; and create an HTML web page.

5. Information Literacy
Cecil College defines college-level information literacy as the students' ability to recognize the need for information; identify what information is needed; find that information; evaluate information critically for relevance and credibility; use information to solve problems or answer questions; and use information legally and ethically.

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General Education Course Codes

The following codes are used in the course descriptions to identify courses that satisfy the General Education Core Requirements:

E	English Composition
H	Arts and Humanities
I	Interdisciplinary and Emerging Issues
M	Mathematics
SL	Science with Lab
S	Science
SS	Behavioral and Social Sciences

Computer Literacy Across the Curriculum
Computer Literacy Across the Curriculum is an approach to academic instruction that exercises skills which students will need to be computer literate in the future and to effectively use computer terminology, software, and hardware.

Students pursuing a degree program at Cecil College must fulfill a computer literacy requirement for graduation.

The associate degree programs at Cecil College include the general education credit hours required by the state of Maryland. If a degree program directs students to choose general education courses from specific categories, those courses must be selected from the approved courses listed below.

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Approved General Education Courses by Category

The associate degree programs at Cecil College include the general education credit hours required by the state of Maryland. If a degree program directs students to choose general education courses from specific categories, those courses must be selected from the approved courses listed below.

Transfer Students: It is extremely important for transfer students to consult with an academic advisor when choosing general education courses from the approved list since each transfer institution has slightly different requirements.

English Composition (E)

EGL 101	Freshman Composition	3 cr.

Arts and Humanities (H)

ART 101	Fundamentals of Design	3 cr.
ART 110	Color	3 cr.
ART 130	Drawing I	3 cr.
ART 140	Painting I	3 cr.
ART 141	Survey of Art History	3 cr.
ART 150	Art Appreciation and Museum Studies	3 cr.
ART 152	Sculpture	3 cr.
ART 160	Beginning Ceramics	3 cr.
ART 180	Basic Photography	3 cr.
ART 181	Introduction to Movie Making	3 cr.
ART 194	Wheel Thrown Ceramics	3 cr.
ART 201	Three-Dimensional Design	3 cr.
ART 230	Drawing II	3 cr.
ART 240	Painting II	3 cr.
ART 242	Survey of Modern Art History	3 cr.
ART 260	Intermediate Ceramics	3 cr.
DAN 102	Introduction to Dance	3 cr.
EGL 102	Composition and Literature	3 cr.
EGL 202	Folklore in Literature	3 cr.
EGL 203	British Lit. to 18th c.	3 cr.
EGL 204	British Lit. 18th c. to Present	3 cr.
EGL 205	American Lit. to 1865	3 cr.
EGL 206	American Lit. 1865 to Present	3 cr.
EGL 209	Introduction to African American Literature	3 cr.
EGL 213	Introduction to Film	3 cr.
EGL 215	Introduction to Creative Writing	3 cr.
EGL 260	Children's Literature	3 cr.
HST 101	Western Civilization I	3 cr.
HST 102	Western Civilization II	3 cr.
HST 110	World History I	3 cr.
HST 111	World History II	3 cr.
HST 201	History of the United States (to reconstruction)	3 cr.
HST 202	History of the United States II (reconstruction to present)	3 cr.
MUC 104	Guitar Class	3 cr.
MUC 122	Music Appreciation	3 cr.
MUC 135	History of Rock	3 cr.
MUC 143	Music Fundamentals	3 cr.
PHI 101	Introduction to Philosophy	3 cr.
PHI 201	Ethics - Contemporary Moral Problems	3 cr.
PHI 205	Philosophy of Religion	3 cr.
RUS 101	Russian I	3 cr.
SPH 121	Interpersonal Communications	3 cr.
RUS 102	Russian II	3 cr.
SPH 141	Public Speaking	3 cr.
SPH 101	Beginning Spanish I	3 cr.
SPH 102	Spanish II	3 cr.
SPN 201	Intermediate Spanish I	3 cr.
SPN 202	Intermediate Spanish II	3 cr.
THE 161	Introduction to Theatre	3 cr.
THE 171	Acting Fundamentals	3 cr.
THE 184	Introduction to Acting for Screen and Stage	3 cr.
THE 261	Theatre History	3 cr.
THE 275	Theatre History II	3 cr.

Interdisciplinary and Emerging Issues (I)

CIS 101	Introduction to Computer Concepts	3 cr.
CSC 104	Computer Science Fundamentals	3 cr.
CSC 110	Ethics in Information Technology	3 cr.
CSC 202	Creative Design	3 cr.
EGL 210	Topics in World Literature	3 cr.
ENV 106	Introduction to Environmental Science	3 cr.
HEA 130	Healthful Living	3 cr.
HEA 173	Human Sexuality	3 cr.
HST 135	History of Rock	3 cr.
HST 141	Survey of Art History	3 cr.
MUC 151	Film Music	3 cr.
MUC 128	Introduction to Audio Technology	3 cr.

Mathematics (M)

MAT 121	Precalculus	4 cr.
MAT 123	Finite Math	3 cr.
MAT 125	Applied Calculus	4 cr.
MAT 127	Introduction to Statistics	4 cr.
MAT 128	Introduction to Statistics II	4 cr.
MAT 201	Calculus I w/ Analytical Geometry	4 cr.
MAT 202	Calculus II w/ Analytic Geometry	4 cr.
MAT 203	Multivariable Calculus	4 cr.
MAT 236	Discrete Structures	3 cr.
MAT 240	Introduction to Linear Algebra	4 cr.
MAT 246	Introduction to Differential Equations	3 cr.

Physical and Biological Sciences (S and SL)

AST 103	Principles of Astronomy	4 cr.
BIO 101	General Biology*	3 cr.
BIO 103	Introduction to Zoology*	3 cr.
BIO 104	Botany: Introduction to Horticulture*	3 cr.
BIO 123	Foundations of Nutrition* (no lab)	3 cr.
BIO 130	Principles of Biology I*	3 cr.
BIO 132	Principles of Biology II*	3 cr.
BIO 200	Microbiology*	3 cr.
BIO 201	Fundamentals of Ecology	4 cr.
BIO 208	Human Anatomy and Physiology I*	3 cr.
BIO 209	Human Anatomy and Physiology II*	3 cr.
CHM 103	General Chemistry I*	3 cr.
CHM 104	General Chemistry II*	3 cr.
ENV 106	Introduction to Environmental Science*	3 cr.
ENV 150	Introduction to Energy Sustainability	4 cr.
PHY 103	Physics Today	4 cr.
PHY 120	Light Science	4 cr.
PHY 181	Introductory College Physics I w/ Lab	4 cr.
PHY 182	Introductory College Physics II w/ Lab	4 cr.
PHY 217	General Calculus Physics I w/Lab	4 cr.
PHY 218	General Calculus Physics II w/Lab	4 cr.
PHY 219	Gneral Calculus Physics III w/Lab	4 cr.
PSC 105	General Physical Science w/ Lab	4 cr.
PSC 120	Physical Geology	4 cr.
PSC 125	Essentials of Weather	4 cr.
PSC 135	Introduction to Climate Science w/Lab	4 cr.
PSC 140	Introduction to Ocean Studies w/ Lab	4 cr.
PSC 150	Introduction to Energy and Sustainability	4 cr.
PSC 220	Meteorology	4 cr.

*must be combined with a lab course to meet the lab science requirement

Social and Behavioral Sciences (SS)

ANT 101	Cultural Anthropology	3 cr.
COU 102	Dynamics of Human Interaction	3 cr.
ECO 221	Economics – Micro	3 cr.
ECO 222	Economics – Macro	3 cr.
GEO 101	Physical Geography	3 cr.
GEO 102	Cultural Geography	3 cr.
POS 101	Introduction to Political Science	3 cr.
POS 201	American Government	3 cr.
PSY 101	Introduction to Psychology	3 cr.
PSY 201	Human Growth and Development	3 cr.
PSY 222	Organizational Psychology	3 cr.
SWK 101	Introduction to Social Work	3 cr.
SOC 101	Introduction to Sociology	3 cr.
SOC 102	Social Problems	3 cr.
SOC 103	Marriage and the Family	3 cr.
SOC 105	Perspective in Human Diversity	3 cr.

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Programs of Study

Cecil College offers the following academic degree and certificate programs. Each program area is briefly described and includes a list of required general education and program specific courses. A recommended sequence of courses is also provided for completing the degree program as a full-time student. New degrees with areas of concentration will be published in the near future.

Cecil College offers programs that are subject to Gainful Employment Disclosure. Please go to http://www.cecil.edu/Programs/Academic-Areas-of-Interest/Pages/Gainful-Employment.aspx for more information.

Programs marked with an asterisk (*) were approved after July 1, 2016, the official publish date of this document. Please refer to the Addendum page for more information.

Degrees

Art, Ceramics
Art, Drawing/Painting
Art, Graphic Design
Art and Design
Biology
Business, Accounting
Business, Administration
Business, Leadership and Management
Business, Management*
Business, Marketing
Chemistry*
Communications*
Computer Information Systems, Computer Aided Drafting and Design
Computer Information Systems, Programming
Computer Science
Criminal Justice
Cyber Security
Education, Early Childhood (AAT)*
Education, Elementary (AAT)*
Education, Elementary (AA)
Education, Secondary
Education, Secondary, Chemistry
Education, Secondary, English
Education, Secondary, Mathematics
Education, Secondary, Music
Education, Secondary, Physics
Engineering, Aerospace*
Engineering, Chemical*
Engineering, Civil*
Engineering, Computer*
Engineering, Electrical
Engineering, Mechanical
Environmental Science
Equine Studies
Exercise Sciences
Fire Science Technology
General Studies*
Geology
Government Contracting
Graphic Design and Multimedia*
Healthcare Sciences
Health Information Technology
Horticultural Science
Mathematics
Meteorology
Music
Music/Voice
Nursing
Ocean Studies
Paralegal
Paramedic
Photography, Professional*
Physical Therapist Assistant*
Physics
Psychology*
Public Health (with Areas of Concentration)*
Simulation Design and Gaming
Social Work*
Theatre Performance and Acting
Transportation and Logistics, Commercial Transportation*
Transportation and Logistics, Supply Chain Management*
Transportation and Logistics, Transportation Management*
Video Production*
Web Design and Multimedia*

Certificates

Art, Ceramics
Art, Drawing/Painting
Business, Accounting
Business, Management
Computer Information Systems, Oracle Certified Associate
Computer Information Systems, Oracle Certified Professional
Computer Information Systems, Programming
Cyber Security
Digital Imaging
Equine Studies
Equine Studies, Management
Government Contracting
Government Logistics
Graphic Design
Horticultural Science
Marketing
Nursing, Practical
Personal Trainer/Fitness Manager
Photography, Basic
Photography, Portfolio Production
Photography, Professional
Photography, Studio
Photography, Lab
Simulation Design and Gaming
Transportation and Logistics, Commercial Transportation
Transportation and Logistics, Supply Chain Management*
Transportation and Logistics, Transportation Management
Video Production
Video Technology
Web Design and Multimedia

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Arts and Sciences Transfer – Arts Option – Ceramics

Award: Associate of Arts
Degree Code: ASCO
Number of Credits: 64-70

Program Description

This program option prepares students for transfer to a four-year institution to pursue a BA in Art or a Bachelor of Fine Arts Degree. Students will create an artistic portfolio of work to transfer, seek initial employment or to develop skills in the following areas: art and design, ceramics, art education, art administration, fine arts production, exhibition and sales.

Transfer Information

Cecil College has articulation agreements with Maryland and regional institutions. Click on "Transfer Opportunities" in MyCecil under the Advising Tab for a list of transfer pathways. In addition, transfer information is available through ARTSYS (The Articulation System of Maryland). Contact your advisor for detailed information.

Required Courses

General Education Requirements

Number	Title	Credits
ART 101	Fundamentals of Design [H]	3
ART/HST 141 or ART 150	Survey of Art History [H/I] Art Appreciation and Museum Studies [H]	3
ART 160	Beginning Ceramics [H]	3
CHM 109	Chemistry and Art[1] [SL]	4
EGL 101	Freshman Composition [E]	3
EGL 102	Composition and Literature [H]	3
MAT	Math Elective [M]	3-4
SCI	Science Elective [S/SL]	3-4
SOC SCI	Social Science Electives[2] [SS]	6

Program Requirements

Number	Title	Credits
ART 130	Drawing I [H]	3
ART 140	Painting I [H]	3
ART 161 or ART 167	Ceramics/Japanese Raku Ceramics/Japanese Raku	1 3
ART 169	Ceramics/Majolica Glaze Painting	3
ART 180 or VCP 101	Basic Photography [H] Photography I	3-4
ART 260	Intermediate Ceramics [H]	3
ART 261	Advanced Ceramics	3
ART 293	Professional Portfolio Production	3

Program Electives – Select 11-12 Credits

Number	Title	Credits
ART 141	Survey of Art History [H]	3
ART 150	Art Appreciation and Museum Studies [H]	3
ART 152	Sculpture [H]	3
ART 162	Ceramics/Color Clay	1
ART 163	Ceramics/Masks and Self Portraits	1
ART 164	Ceramics/Small Sculpture	1
ART 165	Ceramics/Polymer Clay Jewelry	1
ART 166	Ceramics/Egyptian Paste	1
ART 168	Art Glass: Stained and Fused	3
ART 194	Wheel Thrown Ceramics [H]	3

[1] Another General Education Science with Lab will be accepted.
[2] Courses must be from two different disciplines.

Recommended Sequence

The following is a recommended sequence of courses for completing this program as a full-time student. Developmental and prerequisite course requirements, credit load, and/or course availability may affect a student's individual progress. Students should consult their degree audit at MyCecil or an academic advisor for individual degree planning.

Fall I	(15-16 credits)
EGL 101	Freshman Composition
MAT	Math Elective
ART 101	Fundamentals of Design
ART 130	Drawing I
ART 160	Beginning Ceramics
Spring I	**(16-17 credits)**
ART 140	Painting I
ART/HST 141 or ART 150	Survey of Art History Art Appreciation and Museum Studies
CHM 109	Chemistry and Art
EGL 102	Composition and Literature
ART 180 or VCP 101	Basic Photography Photography I
Fall II	**(12-19 credits)**
ART	Program Elective
ART	Program Elective
ART 161 or ART 167	Ceramics/Japanese Raku Ceramics/Japanese Raku
ART 260	Intermediate Ceramics
ART	Program Elective
SCI	Lab Science Elective
SOC SCI	Social Science Elective
Spring II	**(16-17 credits)**
ART	Program Elective
ART 261	Advanced Ceramics
ART 293	Professional Portfolio Production
ART 169	Ceramics/Majolica Glaze Painting
SOC SCI	Social Science Elective

Program Outcomes

Upon successful completion of this program, students will be able to:

- Describe visual concepts and express them using appropriate artistic vocabulary in written and oral presentations
- Demonstrate creativity in visual, technical, and conceptual problem-solving
- Apply technical skills and competency in a wide range of art media and techniques
- Solve visual problems in a manner that reflects individual creativity, technical expertise, and an understanding of historical and contemporary art
- Demonstrate a work ethic that reflects a dedication to process and the intelligent development of a personal aesthetic
- Write and speak with clarity, think critically and analytically, and express one's ideas about a personal artistic vision and the vision of others
- Use the critique process and self-reflection to develop a fine art professional portfolio for transfer or career development
- Demonstrate proficiency working with a wide range of materials, tools, techniques, and processes pertaining to ceramics and sculpture to create work from concept to finished product
- Demonstrate an understanding of design principles with an emphasis on three-dimensional design, and the ability to apply these principles to a specific aesthetic intent
- Demonstrate an understanding of the history of ceramics and sculpture This includes the history of art, craft, the relationship of ceramics to other art disciplines, and its influence on culture
- Professionally document and exhibit a body of work that demonstrates artistic voice, concept, and technical skills in ceramics or sculpture

Career Opportunities

Fine artist, art instructor, art director, ceramicist, designer, master craftsperson, art consultant, industrial designer, restorer, conservator, model or mold maker, studio technician, gallery director, curator.

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Arts and Sciences Transfer – Arts Option – Drawing/Painting

Award: Associate of Art
Degree Code: ADPZ
Number of Credits: 67-70

Program Description

This program option prepares students for transfer to a four-year institution to pursue a BA in Art or a Bachelor of Fine Arts Degree. Students will create an artistic portfolio of work to transfer, seek initial employment or to develop skills in the following areas: art and design, art education, arts administration, illustration, fine arts production, exhibition and sales.

The computer literacy requirement will be met throughout the course work in the degree program.

Transfer Information

Cecil College has articulation agreements with Maryland and regional institutions. Click on "Transfer Opportunities" in MyCecil under the Advising Tab for a list of transfer pathways. In addition, transfer information is available through ARTSYS (The Articulation System of Maryland). Contact your advisor for detailed information.

Required Courses

General Education Requirements

Number	Title	Credits
ART 101	Fundamentals of Design [H]	3
ART 130	Drawing I [H]	3
ART/HST 141 or ART 150	Survey of Art History [H/I] Art Appreciation and Museum Studies [H]	3
CHM 109	Chemistry and Art[1] [SL]	4
EGL 101	Freshman Composition [E]	3
EGL 102	Composition and Literature [H]	3
MAT	Math Elective [M]	3-4
SCI	Science Elective [S/SL]	3-4
SOC SCI	Social Science Electives[2] [SS]	6

Program Requirements

Number	Title	Credits
ART 105	Illustration, Materials and Techniques	3
ART 110	Color [H]	3
ART 140	Painting I [H]	3
ART 152 or ART 160	Sculpture [H] Beginning Ceramics [H]	3
ART 180 or VCP 101	Basic Photography [H] Photography I	3-4
ART 230 or ART 240	Drawing II [H] Painting II [H]	3
ART 231 or ART 232	Portrait Drawing Figure Drawing	3
ART 293	Professional Portfolio Production	3

Program Electives – Select 12 Credits

Number	Title	Credits
ART 132	Landscape and Nature Drawing	3
ART 141	Survey of Art History [H]	3
ART 142	Landscape and Nature Painting	3
ART 150	Art Appreciation and Museum Studies [H]	3
ART 152	Beginning Sculpture [H]	3
ART 160	Beginning Ceramics [H]	3
ART 169	Ceramics/Majolica Glaze Painting	3
ART 230	Drawing II [H]	3
ART 231	Portrait Drawing	3
ART 232	Figure Drawing	3
ART 240	Painting II [H]	3
ART 241	Portrait Painting	3
ART 272	Silk Screening	3

[1] Another General Education Science with Lab will be accepted.
[2] Courses must be from two different disciplines.

Recommended Sequence

The following is a recommended sequence of courses for completing this program as a full-time student. Developmental and prerequisite course requirements, credit load, and/or course availability may affect a student's individual progress. Students should consult their degree audit at MyCecil or an academic advisor for individual degree planning.

Fall I	(18-19 credits)
ART	Program Elective
ART 101	Fundamentals of Design
ART 105	Illustration, Materials and Techniques
ART 130	Drawing I
EGL 101	Freshman Composition
MAT	Math Elective
Spring I	**(16 credits)**
ART 110	Color
ART 140	Painting I
ART 152 or ART 160	Sculpture Beginning Ceramics

Fall II	(18-19 credits)
ART	Program Elective
ART	Program Elective
ART/HST 141 or ART 150	Survey of Art History Art Appreciation and Museum Studies
ART 230 or ART 240	Drawing II Painting II
SCI	Science Elective
SOC SCI	Social Science Elective
Spring II	**(15-16 credits)**
ART	Program Elective
ART 293	Professional Portfolio Production
ART 231 or ART 232	Portrait Drawing Figure Drawing
ART 180 or VCP 101	Basic Photography Photography I
SOC SCI	Social Science Elective

Program Outcomes

Upon successful completion of this program, students will be able to:

- Describe visual concepts and express them using appropriate artistic vocabulary in written and oral presentations
- Demonstrate creativity in visual, technical, and conceptual problem-solving
- Apply technical skills and competency in a wide range of art media and techniques
- Solve visual problems in a manner that reflects individual creativity, technical expertise, and an understanding of historical and contemporary art
- Demonstrate a work ethic that reflects a dedication to process and the intelligent development of a personal aesthetic
- Write and speak with clarity, think critically and analytically, and express one's ideas about a personal artistic vision and the vision of others
- Use the critique process and self-reflection to develop a fine art professional portfolio for transfer or career development
- Demonstrate proficiency working with a wide range of materials and tools, techniques, and processes pertaining to drawing and painting to create work from concept to finished product This includes knowledge of dry media, paint and surfaces
- Demonstrate an understanding of the principles of design, color concepts, media and formats, and the ability to apply them to a specific aesthetic intent
- Demonstrate comprehension of art with a historical and contemporary context
- Professionally document and exhibit a body of work that demonstrates artistic voice, concept, and technical skills in drawing and painting

Career Opportunities

Fine artist, art instructor, art director, designer, illustrator, museum or gallery director, curator.

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Arts and Sciences Transfer – Arts Option – Graphic Design

Award: Associate of Arts
Degree Code: AGRZ
Number of Credits: 64-67

Program Description

This program option prepares students for transfer to a four-year institution to pursue a BA in Art or a Bachelor of Fine Arts Degree. Students will create an artistic portfolio of work to transfer, seek initial employment or to develop skills in the following areas: graphic design, digital art, art education, arts administration, fine arts production, exhibition and sales.

The computer literacy requirement will be met throughout the course work in the degree program.

Transfer Information

Cecil College has articulation agreements with Maryland and regional institutions. Click on "Transfer Opportunities" in MyCecil under the Advising Tab for a list of transfer pathways. In addition, transfer information is available through ARTSYS (The Articulation System of Maryland). Contact your advisor for detailed information.

Required Courses

General Education Requirements

Number	Title	Credits
ART 101	Fundamentals of Design [H]	3
ART 130	Drawing I [H]	3
ART/HST 141 or ART 150	Survey of Art History [H/I] Art Appreciation and Museum Studies [H]	3
CHM 109	Chemistry and Art[1] [SL]	4
EGL 101	Freshman Composition [E]	3
EGL 102	Composition and Literature [H]	3
MAT	Math Elective [M]	3-4
SCI	Science Elective [S/SL]	3-4
SOC SCI	Social Science Electives[2] [SS]	6

Program Requirements

Number	Title	Credits
ART 110	Color [H]	3
ART 140	Painting I [H]	3
ART 152 or ART 160 or ART 201	Beginning Sculpture [H] Beginning Ceramics [H] Three-Dimensional Design [H]	3
ART 293	Professional Portfolio Production	3
VCP 101	Photography I	4
VCP 116	Digital Imaging I	2
VCP 117	Digital Imaging II	2
VCP 118	Digital Imaging III	4

Program Electives - Select 9-10 Credits

Number	Title	Credits
ART 105	Illustration, Materials and Techniques	3
ART 152	Beginning Sculpture [H]	3
ART 160	Beginning Ceramics [H]	3
ART 150	Art Appreciation and Museum Studies [H]	3
ART 201	Three-Dimensional Design [H]	3
ART 169	Ceramics/Majolica Glaze Painting	3
ART 272	Silk Screening	3
ART 231	Portrait Drawing	3
ART 232	Figure Drawing	3
VCP 119	Digital Imaging IV	4

[1] Another General Education Science with Lab will be accepted.
[2] Courses must be from two different disciplines.

Recommended Sequence

The following is a recommended sequence of courses for completing this program as a full-time student. Developmental and prerequisite course requirements, credit load, and/or course availability may affect a student's individual progress. Students should consult their degree audit at MyCecil or an academic advisor for individual degree planning.

Fall I	(16 credits)
ART 101	Fundamentals of Design
ART 130	Drawing I
EGL 101	Freshman Composition
SOC SCI	Social Science Elective
VCP 101	Photography I
Spring I	**(16-17 credits)**
ART 140	Painting I
ART 152 or ART 160 or ART 201	Sculpture Beginning Ceramics Three-Dimensional Design
EGL 102	Composition and Literature
MAT	Math Elective
VCP 116	Digital Imaging I
VCP 117	Digital Imaging II
Fall II	**(16-17 credits)**
ART	Program Elective
ART/HST 141 or ART 150	Survey of Art History Art Appreciation and Museum of Studies
SCI	Lab Science Elective
VCP 118	Digital Imaging III
Spring II	**(16-17 credits)**
ART	Program Elective
ART	Program Elective
ART 293	Professional Portfolio Production
CHM 109	Chemistry and Art
SOC SCI	Social Science Elective

Program Outcomes

Upon successful completion of this program, students will be able to:

- Describe visual concepts and express them using appropriate artistic vocabulary in written and oral presentations
- Demonstrate creativity in visual, technical, and conceptual problem-solving
- Apply technical skills and competency in a wide range of art media and techniques
- Solve visual problems in a manner that reflects individual creativity, technical expertise, and an understanding of historical and contemporary art
- Demonstrate a work ethic that reflects a dedication to process and the intelligent development of a personal aesthetic
- Write and speak with clarity, think critically and analytically, and express one's ideas about a personal artistic vision and the vision of others
- Use the critique process and self-reflection to develop a fine art professional portfolio for transfer or career development
- Demonstrate an understanding of tools and technology, including their roles in the creation, reproduction, and distribution of visual messages Relevant tools and technologies include drawing, printing, photography, and interactive media (film, video, computer multimedia)
- Demonstrate the use of 2D and 3D software programs including applications such as modeling, animation, illustration, video, sound, photography, print and web authoring
- Demonstrate the ability to solve communication problems, including the skills of problem identification, research and information gathering, analysis, generation of alternative solutions, prototyping and user testing, and evaluation of outcomes
- Demonstrate an understanding of design history, theory, and criticism

Career Opportunities

Graphic design, graphic design assistant, digital artist, layout and production technician, art instructor, art director, exhibitions designer, multi-media specialist, photographer.

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Art and Design

Award: Associate of Fine Arts
Degree Code: AFAD
Number of Credits: 60

Program Description

The Associate of Fine Arts degree in Art and Design provides the foundation coursework and studio expertise that parallels the first two years of a Bachelor of Fine Arts degree (BFA) in Art and Design, the professional degree in the Art and Design field. Upon completion of the A.F.A, students will have created an artistic portfolio of work to transfer to a college, university or art school. The program prepares students with an intensive studio-based curriculum stressing the development of artistic techniques and critical thinking skills. Students study a variety of art disciplines preparing them for continued study in Art and Design leading to careers in the following fields: fine art, art education, art therapy, graphic design, curatorial studies, advertising, fashion design, and interior design. Students may concentrate their studies in subjects including animation, ceramics, digital art, drawing, graphic design, illustration, painting, photography, printmaking or sculpture. Students should consult with art faculty early in their academic program to determine which electives will best meet their needs.

The computer literacy requirement will be met throughout the course work in the degree program.

Transfer Information

Cecil College has articulation agreements with Maryland and regional institutions. Click on "Transfer Opportunities" in MyCecil under the Advising Tab for a list of transfer pathways. In addition, transfer information is available through ARTSYS (The Articulation System of Maryland). Contact your advisor for detailed information.

Required Courses

General Education Requirements

Number	Title	Credits
ART 101	Fundamentals of Design [H]	3
ART 141	Survey of Art History [H]	3
EGL 101	Freshman Composition [E]	3
EGL 102	Composition and Literature [H]	3
MAT	Math Elective [M]	3
PSY 101 or SOC 101	Introduction to Psychology [SS] Introduction to Sociology[SS]	3
SCI	Science Elective with Lab [S/SL]	4

Program Requirements

Number	Title	Credits
ART 130	Drawing I [H]	3
ART 140	Painting I [H]	3
ART 160	Beginning Ceramics [H]	3
ART 201	Three-Dimensional Design [H]	3
VCP 116	Digital Imaging I	2
VCP 117	Digital Imaging II	2
ART 230	Drawing II [H]	3
ART 242	Survey of Modern Art History [H]	3
ART 293	Professional Portfolio Production	3
ART/VCP	Studio Electives [1]	13

[1] Students should work with art faculty and an advisor to identify a transfer institution or art focus before selecting electives.

Studio Electives

Choose 13 credits from the following studio electives. Studio electives may be selected from any of the Studio Elective categories in order to meet the needs of your area(s) of concentration. The courses listed within each category are recommended for that particular course of study. It is also recommended that you work with art faculty to identify a transfer institution and art focus that best suits your needs before selecting electives.

Ceramics and Sculpture Studio Electives		
ART 152	Sculpture I	3
ART 182	Sculpture II	3
ART 260	Intermediate Ceramics	3
ART 261	Advanced Ceramics	3
ART 167	Ceramics Japanese Raku	3
ART 179	Surface Design for Ceramics	3
ART 194	Wheel-Thrown Ceramics	3
ART 196	Wheel-Thrown Ceramics II	3
ART 296	Wheel-Thrown Ceramics III	3
Fine Arts Studio Electives		
ART 105	Illustration, Materials and Techniques	3
ART 110	Color [1]	3
ART 150	Art Appreciation and Museum Studies	3
ART 183	Digital Illustration I	4
ART 231	Portrait Drawing	3
ART 232	Figure Drawing	3
ART 240	Painting II	3
Digital Arts and Graphic Design Studio Electives		
ART 105	Illustration, Materials and Techniques	3
ART 110	Color [1]	3
ART 180	Basic Photography	3
ART 183	Digital Illustration I	4
ART 232	Figure Drawing	3
ART 152	Sculpture	3
VCP 101	Photography I	4
VCP 118	Digital Imaging III	4
VCP 119	Digital Imaging IV	4
VCP 136	Multimedia Production I	4
VCP 230	Graphic Design Studio	4
Photography Studio Electives		
ART 110	Color [1]	3
ART 180	Basic Photography	3
ART 183	Digital Illustration I	4
VCP 101	Photography I	4
VCP 111	Studio Photography	4
VCP 118	Digital Imaging III	4
VCP 119	Digital Imaging IV	4

[1] ART 110 Color is recommended for all concentrations

Recommended Sequence

The following is a recommended sequence of courses for completing this program as a full-time student. Developmental and prerequisite course requirements, credit load, and/or course availability may affect a student's individual progress. Students should consult their degree audit at MyCecil or an academic advisor for individual degree planning.

Fall I	**(15 credits)**
EGL 101	Freshman Composition
ART 101	Fundamentals of Design
ART 130	Drawing I
MAT	Math Elective
ART/VCP	Studio Elective
Spring I	**(16 credits)**
EGL 102	Composition and Literature
ART 140	Painting I
ART 160	Beginning Ceramics
SCI	Science Elective with Lab
ART/VCP	Studio Elective
Fall II	**(15 credits)**
ART 141	Survey of Art History
PSY 101 or SOC 101	Introduction to Psychology Introduction to Sociology
ART 201	Three-Dimensional Design
ART 230	Drawing II
ART 242	Survey of Modern Art History
Spring II	**(14 credits)**
VCP 116	Digital Imaging I
VCP 117	Digital Imaging II
ART 293	Professional Portfolio Production
ART/VCP	Studio Electives

Program Outcomes

Upon successful completion of this program, students will be able to:

- Describe visual concepts and express them using appropriate artistic vocabulary in written and oral presentations
- Demonstrate creativity in visual, technical, and conceptual problem-solving
- Apply technical skills and competency in a wide range of art media and techniques
- Solve visual problems in a manner that reflects individual creativity, technical expertise, and an understanding of historical and contemporary art
- Demonstrate a work ethic that reflects a dedication to process and the intelligent development of a personal aesthetic
- Write and speak with clarity, think critically and analytically, and express one's ideas about a personal artistic vision and the vision of others
- Use the critique process and self-reflection to develop a fine art professional portfolio for transfer or career development

Career Opportunities

Art teacher, fine artist, illustrator, graphic designer, animator, art director, architectural designer, art historian, curator, art critic, art therapist, fashion designer, gallery director, industrial designer, interior designer, creative director, commercial artist, multimedia artist, museum archivist, layout artist, photographer, photojournalist, videographer, web designer, and other art related careers.

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Arts and Sciences Transfer – Biology

Award: Associate of Science
Degree Code: ASBS
Number of Credits: 66-68

Program Description

This program option offers a selection of biology and other natural and physical science related courses for students wishing to pursue a program of study in biology. This basic transfer program comprises the first two years of a baccalaureate degree in biology. This option is also appropriate for students seeking pre-med, pre-dental, and pre-pharmaceutical degrees.

Transfer Information

Cecil College has articulation agreements with Maryland and regional institutions. Click on "Transfer Opportunities" in MyCecil under the Advising Tab for a list of transfer pathways. In addition, transfer information is available through ARTSYS (The Articulation System of Maryland). Contact your advisor for detailed information.

Required Courses

General Education and Program Requirements

Number	Title	Credits
ACT	Activity Electives	2
ARTS/HUM	Arts and Humanities Electives [H]	6
BIO or ENV	Biology or Environmental Science Electives[1] [SL]	8
BIO 130 and BIO 131	Principles of Biology I [S] Principles of Biology I Lab	3 1
BIO 132 and BIO 133	Principles of Biology II [S] Principles of Biology II Lab	3 1
CHM 103 and CHM 113	General Chemistry I [S] General Chemistry I Lab	3 1
CHM 104 and CHM 114	General Chemistry II [S] General Chemistry II Lab	3 1
CHM 203 or PHY 181 or PHY 207	Organic Chemistry I with Lab Introductory College Physics I with Lab [SL] General Physics I with Lab [SL]	4-5
CHM 204 or PHY 182 or PHY 208	Organic Chemistry II with Lab Introductory College Physics II with Lab [SL] General Physics II with Lab [SL]	4-5
CIS 101	Introduction to Computer Concepts [I]	3
EGL 101	Freshman Composition [E]	3
EGL 102	Composition and Literature [H]	3
MAT	Math Elective [M] (Select from MAT 121, 127 or 201)	4
MAT	Math Elective [M] (Select from MAT 127, 201 or 202)	4
SOC SCI	Social Science Electives[2] [SS]	6
SPH 141	Public Speaking [H]	3

[1] Student may not select BIO101 and BIO111, BIO208 and BIO218, or BIO209 and BIO219.
[2] Courses must be from two different disciplines.

Recommended Sequence

The following is a recommended sequence of courses for completing this program as a full-time student. Developmental and prerequisite course requirements, credit load, and/or course availability may affect a student's individual progress. Students should consult their degree audit at MyCecil or an academic advisor for individual degree planning.

Fall I	(18 credits)
EGL 101	Freshman Composition
BIO 130 and BIO 131	Principles of Biology I Principles of Biology I Lab
CHM 103 and CHM 113	General Chemistry I General Chemistry I Lab
MAT	Math Elective (Select from MAT121, 127 or 201)
CIS 101	Introduction to Computer Concepts
Spring I	**(16-17 credits)**
EGL 102	Composition and Literature
MAT	Math Elective (Select from MAT127, 201 or 202)
BIO 132 and BIO 133	Principles of Biology II Principles of Biology II Lab
CHM 104 and CHM 114	General Chemistry II General Chemistry II Lab
ACT	Activity Elective(s)
Fall II	**(15-16 credits)**
BIO or ENV	Biology or Environmental Science Elective
CHM 203 or PHY 181 or PHY 207	Organic Chemistry I with Lab Introductory College Physics I with Lab General Physics I with Lab
SPH 141	Public Speaking
SOC SCI	Social Science Elective
ACT	Activity Elective
Spring II	**(17-18 credits)**
BIO or ENV	Biology or Environmental Science Elective
CHM 204 or PHY 182 or PHY 208	Organic Chemistry II with Lab Introductory College Physics II with Lab General Physics II with Lab
SOC SCI	Social Science Elective
ARTS/HUM	Arts and Humanities Elective
ARTS/HUM	Arts and Humanities Elective

Program Outcomes

Upon successful completion of this program, students will be able to:

- Apply principles and theories of Biology and Chemistry
- Collect, describe, and analyze data
- Communicate scientific information in a written and/or verbal format
- Utilize critical thinking whole problem solving
- Describe and utilize the techniques involved in conducting research
- Use basic laboratory instrumentation

Career Opportunities

Research and development, laboratory testing, teaching, medicine, dentistry and pharmacy.

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Accounting

Award: Associate of Applied Science
Degree Code: ACCR
Number of Credits: 60

Program Description

This program is designed to prepare students for initial employment and career advancement in the field of accounting in small, medium, and large-sized businesses. Candidates will be trained to process and record routine data and transactions, as well as prepare accounting statements and analyze various types of accounting data.

Transfer Information

Cecil College has articulation agreements with Goldy-Beacom College as well as other Maryland and regional institutions. Contact your advisor for detailed information.

Required Courses

General Education Requirements

Number	Title	Credits
CIS 101	Introduction to Computer Concepts [I]	3
ECO 221	Economics – Micro [SS]	3
ECO 222	Economics – Macro [SS]	3
EGL 101	Freshman Composition [E]	3
EGL 102	Composition and Literature [H]	3
MAT 125 or MAT 127	Applied Calculus Introduction to Statistics [M]	4
PSY or SOC	Psychology Elective [SS] Sociology Elective [SS]	3
SCI	Science Elective with Lab [S/SL]	4
SPH 121 or SPH 141	Interpersonal Communications [H] Public Speaking H	3

Program Requirements

Number	Title	Credits
ACC 101	Accounting I	3
ACC 102	Accounting II	3
ACC 201	Accounting III	3
ACC	Accounting Elective	4
ACC or BUS	Accounting Electives Business Electives	6
BUS 103	Introduction to Business	3
BUS 187	Business Ethics	3
BUS 210	Business law	3
EGL 211	Technical Writing	3
ELECT	Elective	1

Recommended Sequence

The following is a recommended sequence of courses for completing this program as a full-time student. Developmental and prerequisite course requirements, credit load, and/or course availability may affect a student's individual progress. Students should consult their degree audit at MyCecil or an academic advisor for individual degree planning.

Fall I	(15 credits)
EGL 101	Freshman Composition
BUS 103	Introduction to Business
ACC 101	Accounting I
CIS 101	Introduction to Computer Concepts
PSY or SOC	Psychology Elective Sociology Elective
Spring I	**(16 credits)**
MAT 125 or MAT127	Applied Calculus Introduction to Statistics
ACC 102	Accounting II
EGL 102	Composition and Literature
ACC	Accounting Elective
BUS 187	Business Ethics
Fall II	**(16 credits)**
ECO 222	Economics – Macro
SCI	Lab Science Elective
ACC 201	Accounting III
ACC or BUS	Accounting Electives Business Electives
Spring II	**(13 credits)**
BUS 210	Business Law
SPH 121 or SPH 141	Interpersonal Communications Public Speaking
ECO 221	Economics – Micro
EGL 211	Technical Writing
ELECT	Elective

Program Outcomes

Upon successful completion of this program, students will be able to:

- Identify and perform the major steps in the accounting cycle including recording transactions, adjusting entries, and preparing financial statements
- Explain, prepare, and analyze the income statement, statements of equity, balance sheet, and cash flow statement
- Explain Financial Accounting Standards Board (FASB) and International Accounting Standards Board (IASB) and use the FASB Accounting Standards Codification system
- Apply the major principles and assumptions of financial reporting and US generally accepted accounting principles (GAAP)
- Use financial analysis to assess the profitability of a business
- Identify the costs in managerial accounting and their usage in cost-volume-profit (CVP) analysis and the manufacturing process

Career Opportunities

Tax planning and compliance, auditing, cost accounting, banking and lending, financial consulting.

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Business Administration Transfer

Award: Associate of Arts
Degree Code: BAAD
Number of Credits: 66-67

Program Description

This program is designed to provide the first two years of study for business students intending to transfer to a four-year college or university. Students electing this program should consult early in the program with an academic advisor.

Transfer Information

Cecil College has articulation agreements with Goldey-Beacom College as well as other Maryland and regional institutions. Click on "Transfer Opportunities" in MyCecil under the Advising Tab for a list of transfer pathways. In addition, transfer information is available through ARTSYS (The Articulation System of Maryland). Contact your advisor for detailed information.

Required Courses

General Education Requirements

Number	Title	Credits
ACT	Activity Electives	2
ARTS/HUM	Arts and Humanities Electives [H]	3
CIS 101	Introduction to Computer Concepts [I]	3
EGL 101	Freshman Composition [E]	3
EGL 102	Composition and Literature [H]	3
HST	History Electives [H]	6
MAT	Math Elective [M] (Select from MAT 121, 128, 201, 202 or 203)	8
MAT 127	Introduction to Statistics [M]	4
PSY 101	Introduction to Psychology [SS]	3
SCI	Science Electives[1] [S/SL]	7-8
SOC SCI	Social Science Electives [SS]	3

Program Requirements

Number	Title	Credits
ACC 101	Accounting I	3
ACC 102	Accounting II	3
BUS 103	Introduction to Business	3
BUS 187	Business Ethics	3
ECO 221	Economics - Micro [SS]	3
ECO 222	Economics - Macro [SS]	3
SPH 121 **or** SPH 141	Interpersonal Communications [H] Public Speaking [H]	3

[1] One course must have a BIO designation; the other course must have a designation of AST, CHM, ENV, PSC, or PHY. At least one course must include a corresponding lab.

Recommended Sequence

The following is a recommended sequence of courses for completing this program as a full-time student. Developmental and prerequisite course requirements, credit load, and/or course availability may affect a student's individual progress. Students should consult their degree audit at MyCecil or an academic advisor for individual degree planning.

Fall I	(16-17 credits)
EGL 101	Freshman Composition
BUS 103	Introduction to Business
ACC 101	Accounting I
CIS 101	Introduction to Computer Concepts
PSY 101	Introduction to Psychology
ACT	Activity Elective(s)
Spring I	**(17 credits)**
SPH 121 **or** SPH 141	Interpersonal Communications Public Speaking
MAT 127	Introduction to Statistics
ECO 222	Economics - Macro
ACC 102	Accounting II
EGL 102	Composition and Literature
ACT	Activity Elective
Fall II	**(16-17 credits)**
ECO 221	Economics - Micro
SCI	Science Elective
ARTS/HUM	Arts and Humanities Elective
MAT	Math Elective (Select from MAT121, 128, 201, 202 or 203)
SOC SCI	Social Science Elective
Spring II	**(16-17 credits)**
MAT	Math Elective (Select from MAT121, 128, 201, 202 or 203)
SCI	Science Elective
HST	History Elective
HST	History Elective
BUS 187	Business Ethics

Program Outcomes

Upon successful completion of this program, students will be able to:

- Critically examine, analyze, and recommend logical actions based on a variety of business concepts, models, and principles
- Apply written and oral communication skills
- Apply basic computational, statistical and quantitative reasoning skills in collecting, analyzing, and interpreting numerical information
- Utilize verbal communication skills to engage an audience
- Utilize and apply computer hardware, software, the Internet, and other technological tools to enhance reasoning skills in making business decisions
- Work effectively in both leadership and support roles as part of diverse teams to achieve a variety of business-related tasks
- Apply a basic understanding of economic and accounting principles to complex business issues
- Consistently act in a professional, respectful, honest, and ethical manner and to apply ethical principles and logical reasoning to make business decisions
- Demonstrate an understanding of a global environment
- Recognize and understand trends in business (through successes and failures)
- Understand how to organize and start a business

Career Opportunities

Accountant, banking, consultant, human resources, all areas of education, government, private business and retail.

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Business and Commerce Technology – Leadership and Management Option

Award: Associate of Applied Science
Degree Code: BLMZ
Number of Credits: 65

Program Description

This program option is designed for the working adult who wants to earn an undergraduate degree in an accelerated format while continuing to work full or part-time. This degree option prepares students in the field of leadership and management in small business as well as medium and large size business. The accelerated program combines theory and practice through classroom, on-line, and guided experiential experiences in a cohort learning model.

Students who plan to enroll in the Leadership and Management Option must be college-ready at the time of admission. For accelerated studies, college-ready is defined as placing into English 101 (EGL101) and Intermediate Algebra (MAT093) on the skills assessments. Additional information on accelerated programs can be obtained from the Admissions Office (admissions@cecil.edu) or designated academic advisors.

Transfer Information

Cecil College has an articulation agreement with Wilmington University. Students satisfactorily completing the Associate of Applied Science – Leadership and Management Option degree at Cecil College are guaranteed admission to Wilmington University's Leadership and Management program and will receive a $3000 scholarship.

Cecil College has articulation agreements with Maryland and other regional institutions. Click on "Transfer Opportunities" in MyCecil under the Advising Tab for a list of transfer pathways. In addition, transfer information is available through ARTSYS (The Articulation System of Maryland). Contact your advisor for detailed information.

Required Courses

General Education and Program Requirements

Number	Title	Credits
BUS 103	Introduction to Business	3
BUS 131	Principles of Management	3
BUS 187	Business Ethics	3
BUS 191	Introduction to Finance	3
BUS 216	Organizational Leadership	3
BUS 231	Management of Human Resources	3
BUS 234	Team Building Experiential Learning	3
BUS 235	Applied Technology Experiential Learning	3
BUS 236	Finance Experiential Learning	3
BUS 237	International Economics Experiential Learning	3
BUS 238	Human Resources Experiential Learning	3
BUS 239	Process Improvement Experiential Learning	3
BUS 240	Strategic Planning Experiential Learning	3
EGL 101	Freshman Composition [E]	3
EGL 211	Technical Writing	3
MAT 127	Introduction to Statistics [M]	4
CIS 101	Introduction to Computer Concepts [I]	3
ECO 222	Economics - Macro [SS]	3
PSY 222	Organizational Psychology	3
SCI	Lab Science Elective [S/SL]	4
SPH 141	Public Speaking [H]	3

Recommended Sequence

The following is a recommended sequence of courses for completing this program as a full-time student. Developmental and prerequisite course requirements, credit load, and/or course availability may affect a student's individual progress. Students should consult their degree audit at MyCecil or an academic advisor for individual degree planning.

Session I	(9 credits)
EGL 101	Freshman Composition
BUS 103	Introduction to Business
BUS 234	Team Building Experiential Learning
Session II	(9 credits)
SPH 141	Public Speaking
CIS 101	Introduction to Computer Concepts
BUS 235	Applied Technology Experiential Learning
Session III	(9 credits)
BUS 131	Principles of Management
BUS 231	Management of Human Resources
BUS 238	Human Resources Experiential Learning
Session IV	(10 credits)
MAT 127	Introduction to Statistics
BUS 187	Business Ethics
BUS 239	Process Improvement Experiential Learning
Session V	(9 credits)
ECO 222	Economics - Macro
BUS 216	Organizational Leadership
BUS 237	International Economics Experiential Learning
Session VI	(9 credits)
BUS 191	Introduction to Finance
EGL 211	Technical Writing
BUS 236	Finance Experiential Learning
Session VII	(10 credits)
PSY 222	Organizational Psychology
SCI	Lab Science Elective
BUS 240	Strategic Planning Experiential Learning

Program Outcomes

Upon successful completion of this program, students will be able to:

- Critically examine, analyze, and recommend logical actions based on a variety of business concepts, models, and principles
- Apply written and oral communication skills
- Apply basic computational, statistical, and quantitative reasoning skills in collecting, analyzing, and interpreting numerical information
- Utilize verbal communication skills to engage an audience
- Utilize and apply computer hardware, software, the Internet, and other technological tools to enhance reasoning skills in making business decisions
- Be able to work effectively in both leadership and support roles as part of diverse teams to achieve a variety of business-related tasks
- Apply a basic understanding of economic and accounting principles to complex business issues
- Consistently act in a professional, respectful, honest, and ethical manner and to apply ethical principles and logical reasoning to make business decisions
- Demonstrate an understanding of a global environment
- Recognize and understand trends in business (through successes and failures)
- Understand how to organize and start a business
- Demonstrate basic knowledge of the principles and concepts of entrepreneurship and management
- Demonstrate an understanding of the differences between leadership and management
- Apply functional area concepts and theories
- Describe various situational approaches to leadership and understand varying perspectives on leadership
- Analyze and apply skills of interpersonal effectiveness to everyday interaction by using observation, active listening, and questions
- Apply critical and strategic thinking to produce sound managerial decisions while taking into account relevant perspectives, research, and the impact on the communities served
- Describe strategic, ethical, and virtual forms of leadership in today's world

Career Opportunities

Production management, human resources, office management, entrepreneur, office systems.

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Management

Award: Associate of Applied Science
Degree Code: BCMR
Number of Credits: 60

Program Description

The Associate of Applied Science in Management is designed to prepare students for entry and career advancement in various management areas including finance, wholesaling and manufacturing, as well as non profit and government offices.

Transfer Information

Cecil College has articulation agreements with Goldey-Beacom College as well as other Maryland and regional institutions. Click on "Transfer Opportunities" in MyCecil under the Advising Tab for a list of transfer pathways. In addition, transfer information is available through ARTSYS (The Articulation System of Maryland). Contact your advisor for detailed information.

Required Courses

General Education Requirements

Number	Title	Credits
EGL 101	Freshman Composition [E]	3
EGL 102	Composition and Literature [E]	3
MAT	Math Elective [M] (Select from MAT 121, 128, 127 or 201)	4
ELECT	Elective	1
PSY or SOC	Psychology Elective [SS] Sociology Elective [SS]	3
SCI	Lab Science Elective [SL]	4
SPH 121 or SPH 141	Interpersonal Communications [H] Public Speaking [H]	3

Program Requirements

Number	Title	Credits
ACC 101	Accounting I	3
ACC 102	Accounting II	3
BUS 103	Introduction to Business	3
BUS 111	Business Communications	3
BUS 131	Principles of Management	3
BUS 187	Business Ethics	3
BUS 210	Business Law	3
BUS 212	Principles of Marketing	3
BUS 216	Organizational Leadership	3
BUS 231	Management of Human Resources	3
CIS 101	Introduction to Computer Concepts [I]	3
ECO 221	Economics - Micro [SS]	3
ECO 222	Economics - Macro [SS]	3

Program Electives - Select 6 Credits

Number	Title	Credits
BUS 216	Organizational Leadership	3
BUS 231	Management of Human Resources	3
BUS 244	Organizational Behavior	3

Recommended Sequence

The following is a recommended sequence of courses for completing this program as a full-time student. Developmental and prerequisite course requirements, credit load, and/or course availability may affect a student's individual progress. Students should consult their degree audit at MyCecil or an academic advisor for individual degree planning.

Fall I	(15 credits)
EGL 101	Freshman Composition
BUS 103	Introduction to Business
ACC 101	Accounting I
CIS 101	Introduction to Computer Concepts
PSY or SOC	Psychology Elective Sociology Elective
Spring I	**(16 credits)**
MAT	Math Elective (Select from MAT 121, 127, 128 or 201)
EGL 102	Composition and Literature
BUS 111	Business Communications
BUS 187	Business Ethics
ACC 102	Accounting II
Fall II	**(17 credits)**
ECO 222	Economics - Macro
SCI	Lab Science Elective
BUS 131	Principles of Management
BUS 212	Principles of Marketing
BUS 216 or BUS 231 or BUS 244	Organizational Leadership Management of Human Resources Organizational Behavior
ELECT	Elective
Spring II	**(12 credits)**
BUS 210	Business Law
ECO 221	Economics - Micro
BUS 216 or BUS 231 or BUS 244	Organizational Leadership Management of Human Resources Organizational Behavior
SPH 121 or SPH 141	Interpersonal Communications Public Speaking

Program Outcomes

Upon successful completion of this program, students will be able to:

- Critically examine, analyze, and recommend logical actions based on a variety of business concepts, models, and principles
- Apply written and oral communication skills
- Apply basic computational, statistical, and quantitative reasoning skills in collecting, analyzing, and interpreting numerical information
- Utilize verbal communication skills to engage an audience
- Utilize and apply computer hardware, software, the Internet, and other technological tools to enhance reasoning skills in making business decisions
- Be able to work effectively in both leadership and support roles as part of diverse teams to achieve a variety of business-related tasks
- Apply a basic understanding of economic and accounting principles to complex business issues
- Consistently act in a professional, respectful, honest, and ethical manner and to apply ethical principles and logical reasoning to make business decisions
- Demonstrate an understanding of a global environment
- Recognize and understand trends in business (through successes and failures)
- Understand how to organize and start a business
- Demonstrate understanding of how the elements of a marketing strategy work together and how the marketing concept fits into organizational planning and development
- Demonstrate understanding of markets and market behavior, external market forces, relationships to basic economic concepts, and globalism in satisfying needs and wants
- Demonstrate understanding of current and emerging trends in marketing, including direct and interactive marketing, technology-based personalization, one-to-one marketing, and e-commerce
- Demonstrate an understanding of consumer behaviors, social media trends, and implementation of marketing strategies

Career Opportunities

Purchasing manager, store manager, branch manager, department manager and sales representative, production planner, and personnel coordinator.

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Marketing

Award: Associate of Applied Science
Degree Code: BCMS
Number of Credits: 60

Program Description

This program will prepare students for entry into and career advancement in the field of Marketing. The Marketing program addresses identification of customer needs as well as how to communicate information about products and services to customers and potential customers. Additionally, this degree addresses the pricing of products and services, and response to growing markets in different countries and cultures.

Transfer Information

Cecil College has articulation agreements with Maryland and regional institutions. Click on "Transfer Opportunities" in MyCecil under the Advising Tab for a list of transfer pathways. In addition, transfer information is available through ARTSYS (The Articulation System of Maryland). Contact your advisor for detailed information.

Required Courses

General Education Requirements

Number	Title	Credits
CIS 101	Introduction to Computer Concepts [I]	3
ECO 221	Economics - Micro [SS]	3
ECO 222	Economics - Macro [SS]	3
EGL 101	Freshman Composition [E]	3
MAT 125 **or** MAT 127	Applied Calculus [M] Introduction to Statistics [M]	4
SCI	Science Elective with Lab [S/SL]	4
SOC SCI	Social Science Elective [SS]	3
SPH 121 **or** SPH 141	Interpersonal Communications [H] Public Speaking [H]	3

Program Requirements

Number	Title	Credits
BUS 103	Introduction to Business	3
BUS 187	Business Ethics	3
BUS 207	Introduction to Public Relations	3
BUS 210	Business Law	3
BUS 212	Principles of Marketing	3
BUS 241	Effective Teams and Work Groups	3
BUS 242	Advertising	3
BUS 243	Personal Selling	3
BUS 280	Strategic Planning Concepts	3
EGL 211	Technical Writing	3
VCP 116	Digital Imaging I	2
VCP 117	Digital Imaging II	2

Recommended Sequence

The following is a recommended sequence of courses for completing this program as a full-time student. Developmental and prerequisite course requirements, credit load, and/or course availability may affect a student's individual progress. Students should consult their degree audit at MyCecil or an academic advisor for individual degree planning.

Fall I	(16 credits)
BUS 103	Introduction to Business
CIS 101	Introduction to Computer Concepts
EGL 101	Freshman Composition
SPH 121 **or** SPH 141	Interpersonal Communications Public Speaking
VCP 116	Digital Imaging I
VCP 117	Digital Imaging II
Spring I	**(16 credits)**
BUS 207	Introduction to Public Relations
BUS 212	Principles of Marketing
EGL 211	Technical Writing
MAT 125 **or** MAT 127	Applied Calculus Introduction to Statistics
SOC SCI	Social Science Elective
Fall II	**(13 credits)**
BUS 187	Business Ethics
BUS 242	Advertising
ECO 222	Economics - Macro
SCI	Science Elective with Lab
Spring II	**(15 credits)**
BUS 241	Effective Teams and Work Groups
BUS 210	Business Law
BUS 243	Personal Selling
BUS280	Strategic Planning Concepts
ECO 221	Economics - Micro

Program Outcomes

Upon successful completion of this program, students will be able to:

- Critically examine, analyze, and recommend logical actions based on a variety of business concepts, models, and principles
- Apply written and oral communication skills
- Apply basic computational, statistical, and quantitative reasoning skills in collecting, analyzing, and interpreting numerical information
- Utilize verbal communication skills to engage an audience
- Utilize and apply computer hardware, software, the Internet, and other technological tools to enhance reasoning skills in making business decisions
- Be able to work effectively in both leadership and support roles as part of diverse teams to achieve a variety of business-related tasks
- Apply a basic understanding of economic and accounting principles to complex business issues
- Consistently act in a professional, respectful, honest, and ethical manner and to apply ethical principles and logical reasoning to make business decisions
- Demonstrate an understanding of a global environment
- Recognize and understand trends in business (through successes and failures)
- Understand how to organize and start a business

Career Opportunities

Marketing specialist, marketing coordinator, marketing assistant, public relations specialist.

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Arts and Sciences Transfer – Chemistry Option

Award: Associate of Science
Degree Code: ASCS
Number of Credits: 64

Program Description

This program option offers a selection of chemistry and other natural and physical science related courses for students wishing to pursue a program of study in chemistry. This basic transfer program option comprises the first two years of a baccalaureate degree in science. The computer literacy requirement will be met throughout the course work in the degree program.

Transfer Information

Cecil College has articulation agreements with Maryland and regional institutions. Click on "Transfer Opportunities" in MyCecil under the Advising Tab for a list of transfer pathways. In addition, transfer information is available through ARTSYS (The Articulation System of Maryland). Contact your advisor for detailed information.

Required Courses

General Education and Program Requirements

Number	Title	Credits
ACT	Activity Electives	2
ARTS/HUM	Arts and Humanities Electives [H]	6
BIO 101 **and** BIO 111 **or** BIO 130 **and** BIO 131	General Biology I [S] General Biology Lab II Principles of Biology I [S] Principles of Biology I Lab	3 1
CHM 103 **and** CHM 113	General Chemistry I [S] General Chemistry I Lab	3 1
CHM 104 **and** CHM 114	General Chemistry II [S] General Chemistry II Lab	3 1
CHM 203	Organic Chemistry I with Lab	4
CHM 204	Organic Chemistry II with Lab	4
EGL 101	Freshman Composition [E]	3
EGL 102	Composition and Literature [H]	3
HEA 130	Healthful Living [I]	3
MAT 201	Calculus I with Analytic Geometry [M]	4
MAT 202	Calculus II with Analytic Geometry [M]	4
PHY 207	General Physics I with Lab [SL]	5
PHY 208	General Physics II with Lab [SL]	5
SOC SCI	Social Science Electives[1] [SS]	6
SPH 121 **or** SPH 141	Interpersonal Communications [H] Public Speaking [H]	3

[1] Courses must be from two different disciplines.

Recommended Sequence

The following is a recommended sequence of courses for completing this program as a full-time student. Developmental and prerequisite course requirements, credit load, and/or course availability may affect a student's individual progress. Students should consult their degree audit at MyCecil or an academic advisor for individual degree planning.

Fall I	(15 credits)
CHM 103 **and** CHM 113	General Chemistry I General Chemistry I Lab
BIO 101 **and** BIO 111 **or** BIO 130 **and** BIO 131	General Biology General Biology Lab Principles of Biology I Principles of Biology I Lab
EGL 101	Freshman Composition
MAT 201	Calculus I with Analytic Geometry
Spring I	**(17 credits)**
CHM 104 **and** CHM 114	General Chemistry II General Chemistry II Lab
EGL 102	Composition and Literature
MAT 202	Calculus II with Analytic Geometry
HEA 130	Healthful Living
ARTS/HUM	Arts and Humanities Elective
Fall II	**(16-17 credits)**
CHM 203	Organic Chemistry I with Lab
PHY 207	General Physics I with Lab
SPH 121 **or** SPH 141	Interpersonal Communications Public Speaking
SOC SCI	Social Science Elective
ACT	Activity Elective(s)
Spring II	**(16 credits)**
CHM 204	Organic Chemistry II with Lab
PHY 208	General Physics II with Lab
ACT	Activity Elective
SOC SCI	Social Science Elective
ARTS/HUM	Arts and Humanities Elective

Program Outcomes

Upon successful completion of this program, students will be able to:

- Apply principles and theories in the basic areas of chemistry
- Collect and perform qualitative/quantitative chemical analyses of data
- Communicate scientific information through written and/or verbal formats
- Utilize critical thinking to identify and solve problems
- Describe and utilize the techniques applicable to chemistry research projects
- Use basic laboratory instrumentation for both basic and organic chemistry processes

Career Opportunities

Research and development, analysis and testing, forensics, consulting and quality control.

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Visual Communications – Communications Option

Award: Associate of Applied Science
Degree Code: PPCZ
Number of Credits: 66-68

Program Description

This program option prepares students for initial employment and career advancement in the following areas: photography, digital imaging, video production, graphic design, public relations, marketing, and sales representation. Students are prepared for transfer to the Corporate Communications Program at the University of Baltimore, as well as other four-year universities. The computer literacy requirement will be met throughout the course work in the degree program.

Transfer Information

Cecil College has articulation agreements with Maryland and regional institutions. Click on "Transfer Opportunities" in MyCecil under the Advising Tab for a list of transfer pathways. In addition, transfer information is available through ARTSYS (The Articulation System of Maryland). Contact your advisor for detailed information.

Required Courses

General Education Requirements

Number	Title	Credits
ACT	Activity Electives	2
ARTS/HUM	Arts and Humanities Electives [H]	3
EGL 101	Freshman Composition [E]	3
EGL 102	Composition and Literature [H]	3
GEN ED	General Education Elective	3
MAT	Math Elective [M]	3-4
PSY or SOC	Psychology Elective [SS] Sociology Elective [SS]	3
SCI	Lab Science Elective [SL]	4

Program Requirements

Number	Title	Credits
VCP 101	Photography I	4
VCP 116	Digital Imaging I	2
VCP 117	Digital Imaging II	2
VCP 210	Video Production I	4
VCP 279 or VCP 289	Professional Portfolio Production Internship I	4

Program Electives
Group 1 - Select 8 Credits

Number	Title	Credits
VCP 111	Studio Photography I	4
VCP 118	Digital Imaging III	4
VCP 212	Video Production II	4
VCP 222	Photojournalism I	4
VCP 230	Graphic Design Studio	4

Program Electives[1]
Group 2 - Select 18-19 Credits

Number	Title	Credits
ART 101	Fundamentals of Design [H]	3
ART 105	Illustration, Materials and Techniques	3
ART 110	Color [H]	3
ART 130	Drawing I [H]	3
ART 140	Painting I [H]	3
ART 181	Introduction to Movie Making [H]	3
ART 183	Digital Illustration I	4
BUS 103	Introduction to Business	3
BUS 212	Principles of Marketing	3
CSC 111	Introduction to CADD	3
CSC 112	Intermediate CADD	3
CSC 160	Introduction to Data Communications	3
EGL 214	Introduction to Journalism	3
EGL 211	Technical Writing	3
EGL 213	Introduction to Film [H]	3
MUC 122	Music Appreciation [H]	3
SPH 121	Interpersonal Communications [H]	3
SPH 141	Public Speaking [H]	3
VCP 110	Portrait Photography	3
VCP 111	Studio Photography I	4
VCP 118	Digital Imaging III	4
VCP 119	Digital Imaging IV	4
VCP 120	Digital Imaging V	4
VCP 136	Multimedia Production I	4
VCP 151	Introduction to Game Design	4
VCP 211	Studio Photography II	4
VCP 212	Video Production II	4
VCP 214	Video Production III	4
VCP 215	Guerilla Filmmaking	4
VCP 218	Modeling and Animation I	4
VCP 222	Photojournalism	4
VCP 224	Nature and Wildlife Photography	4
VCP 230	Graphic Design Studio	4
VCP 233	Fictional Photography	4
VCP 296	Photography Seminar	4

[1] Major field electives are chosen to tailor the program of study to a specific career and/or transfer goals. It is strongly recommended that students receive approval from the program coordinator and related faculty in selecting appropriate courses.

Recommended Sequence

The following is a recommended sequence of courses for completing this program as a full-time student. Developmental and prerequisite course requirements, credit load, and/or course availability may affect a student's individual progress. Students should consult their degree audit at MyCecil or an academic advisor for individual degree planning.

Fall I	(18-19 credits)
EGL 101	Freshman Composition
PSY or SOC	Psychology Elective Sociology Elective
VCP 101	Photography I
VCP 116	Digital Imaging I
VCP 117	Digital Imaging II
ARTS/HUM	Arts and Humanities Elective
ACT	Activity Elective(s)
Spring I	**(15-17 credits)**
VCP Electives	Group 1 - in consultation with VCP Director
EGL 102	Composition and Literature
ACT	Activity Elective(s)
Fall II	**(15-16 credits)**
VCP 210	Video Production I
VCP Electives	Group 2 - in consultation with VCP Director
MAT	Math Elective
Spring II	**(13-14 credits)**
VCP 279 or VCP 289	Professional Portfolio Production Internship I
VCP Electives	Group 2 - in consultation with VCP Director
SCI	Lab Science Elective
GEN ED	General Education Elective

Program Outcomes

Upon successful completion of this program, students will be able to:

- Use the basic tools and techniques of a visual communicator
- Communicate in an effective and professional manner both verbally and in writing with the ability to incorporate critique recommendations in revising their work
- Demonstrate the ability to meet deadlines
- Use computer and related technology in the execution of visual communications projects
- Demonstrate knowledge of the elements and principles of design
- Produce a body of work demonstrating the ability to solve visual communications problems
- Market themselves using their portfolio and visual communications skills
- Demonstrate critical thinking skills as they relate to solving communication problems
- Conceptualize and implement a visual solution using different communication mediums
- Apply knowledge of industry practice to visual communication related technologies
- Visually communicate information to a well-defined audience

Career Opportunities

Photography, digital imaging, video production, graphic design, public relations, marketing and sales.

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Computer Information Systems - Computer Aided Drafting and Design Option

Award: Associate of Applied Science
Degree Code: CADZ
Number of Credits: 64-69

Program Description

This program option is designed to prepare students for entry-level positions in computer aided drafting and design. The student receives training on the latest CADD software, as well as training in CADDware systems and other related software programs.

Transfer Information

Cecil College has articulation agreements with Goldey-Beacom College as well as other Maryland and regional institutions. Click on "Transfer Opportunities" in MyCecil under the Advising Tab for a list of transfer pathways. In addition, transfer information is available through ARTSYS (The Articulation System of Maryland). Contact your advisor for detailed information.

Required Courses

General Education Requirements

Number	Title	Credits
ARTS/HUM	Arts and Humanities Elective [H]	3
EGL 101	Freshman Composition [E]	3
ELECT	Interdisciplinary and Emerging Issues Elective [I]	3
MAT	Math Elective [M]	3-4
MAT 121	Precalculus [M]	4
PHY 181 **or** PHY 207	Introductory College Physics I with Lab [SL] General Physics I with Lab [SL]	4 5
SOC SCI	Social Science Elective [SS]	3
SPH 121 **or** SPH 141	Interpersonal Communications [H] Public Speaking [H]	3

Program Requirements

Number	Title	Credits
ACT	Activity Electives	2
CSC 273	CBWEP - College Based Work Experience Program[1]	3
CSC 103	Operating Systems	3
CSC 104	Computer Science Fundamentals [I]	3
CSC 110	Ethics in Information Technology [I]	3
CSC 111 **and** CSC 112 **or** PHE 120	Introduction to CADD Intermediate CADD AutoCADD Fundamentals for Engineers	3-6
CSC 114	CADDware Systems	3
CSC 224	Autolisp Programming	3
EGL 211	Technical Writing	3

Program Electives - Select 12 Credits

Number	Title	Credits
CSC 119	Computer Animation	3
CSC **or** GIS	Computer Science Elective Geographic Information Systems Elective	3
PHE 100	Introduction to Autodesk Inventor	3
PHE 110	Microstation	3
PHE 120	AutoCADD Fundamentals for Engineering	3
PHE 125	Introduction to AutoCADD Civil 3D	3
PHE 128	Introduction to REVIT Architecture	3
PHE 130	SolidWorks Fundamentals	3
PHE 140	PRO/Engineer/Creo Fundamentals	3
PHE 150	Excel for Engineers and Scientists	3
PHE 180	MATLab Fundamentals for Engineers	3
PHE 200	Introduction to Engineering Graphics	3

[1] The student must contact the CBWEP administrator one semester prior to enrolling for this course.

Recommended Sequence

The following is a recommended sequence of courses for completing this program as a full-time student. Developmental and prerequisite course requirements, credit load, and/or course availability may affect a student's individual progress. Students should consult their degree audit at MyCecil or an academic advisor for individual degree planning.

Fall I	(15-19 credits)
CSC 104	Computer Science Fundamentals
CSC 111 **and** CSC 112 **or** PHE 120	Introduction to CADD Intermediate CADD AutoCADD Fundamentals for Engineers
EGL 101	Freshman Composition
MAT	Math Elective
SOC SCI	Social Science Elective
Spring I	**(18 credits)**
ARTS/HUM	Arts and Humanities Elective
CSC 103	Operating Systems
CSC 110	Ethics in Information Technology
EGL 211	Technical Writing
ELECT	Interdisciplinary and Emerging Issuses Elective
SPH 121 **or** SPH 141	Interpersonal Communications Public Speaking
Fall II	**(14-15 credits)**
ACT	Activity Elective
CSC 114	CADDware Systems
PHY 181 **or** PHY 207	Introductory College Physics with Lab General Physics I with Lab
CSC **or** GIS **or** PHE	Computer Science Electives Geographic Information Systems Electives Engineering Electives
Spring II	**(17 credits)**
ACT	Activity Elective
MAT 121	Precalculus
CSC 273	CBWEP - College Based Work Experience Program
CSC 224	Autolistp Programming
CSC **or** GIS **or** PHE	Computer Science Electives Geographic Information Systems Electives Engineering Electives

Career Opportunities

CAD operators may find employment in a variety of industries such as: construction, automotive, ship building and aerospace. Also consider industrial and architectural design, computer animation and advertising.

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Computer Information Systems - Programming Option

Award: Associate of Applied Science
Degree Code: CIPZ
Number of Credits: 65-66

Program Description

This program option is designed to give students a beginning knowledge of computer operating systems, networking, and data communications, as well as currently used programming languages.

Transfer Information

Cecil College has articulation agreements with Goldey-Beacom College as well as other Maryland and regional institutions. Click on "Transfer Opportunities" in MyCecil under the Advising Tab for a list of transfer pathways. In addition, transfer information is available through ARTSYS (The Articulation System of Maryland). Contact your advisor for detailed information.

Required Courses

General Education Requirements

Number	Title	Credits
CSC 104	Computer Science Fundamentals [I]	3
CSC 110	Ethics in Information Technology [I]	3
EGL 101	Freshman Composition [E]	3
MAT	Math Elective [M]	3-4
SCI	Lab Science Elective [S/SL]	4
SOC SCI	Social Science Elective [SS]	3
SPH 121 or SPH 141	Interpersonal Communications [H] Public Speaking [H]	3

Program Requirements

Number	Title	Credits
ACT	Activity Electives	2
CSC 103	Operating Systems	3
CSC	Computer Science Electives (any CSC course)	15
CSC 109	Introduction to Programming	3
CSC 140	Introduction to Networking	3
CSC 160	Introduction to Data Communications	3
CSC 201	Business Systems Analysis and Design	4
CSC 203 or CSC 204	Seminar in Information Systems	1
CSC 273	CBWEP - College Based Work Experience Program[1]	3
EGL 211	Technical Writing	3
VCP 144	Web Design I - Design Fundamentals	3

[1] The student must contact the CBWEP administrator one semester prior to enrolling for this course.

Recommended Sequence

The following is a recommended sequence of courses for completing this program as a full-time student. Developmental and prerequisite course requirements, credit load, and/or course availability may affect a student's individual progress. Students should consult their degree audit at MyCecil or an academic advisor for individual degree planning.

Fall I	(18-19 credits)
CSC 103	Operating Systems
CSC 104	Computer Science Fundamentals
CSC 109	Introduction to Programming
EGL 101	Freshman Composition
MAT	Math Elective
SOC SCI	Social Science Elective
Spring I	**(17 credits)**
ACT	Activity Elective
CSC	Computer Science Elective (any CSC course)
CSC 110	Ethics in Information Technology
CSC 140	Introduction to Networking
EGL 211	Technical Writing
SCI	Lab Science Elective
Fall II	**(16 credits)**
ACT	Activity Elective
CSC	Computer Science Electives (any CSC course)
CSC 160	Introduction to Data Communications
VCP 144	Web Design I - Design Fundamentals
Spring II	**(14 credits)**
CSC	Computer Science Elective (any CSC course)
CSC 201	Business Systems Analysis and Design
CSC 203 or CSC 204	Seminar in Information Systems
CSC 273	CBWEP - College Based Work Experience Program
SPH 121 or SPH 141	Interpersonal Communications Public Speaking

Program Outcomes

Upon successful completion of this program, students will be able to:

- Understand basic networking theory, network design, maintenance, security and troubleshooting
- Set up network resources through multiple versions of software
- Understand basic data communications technology
- Analyze and develop programs using object oriented programming and design
- Understand legal and ethical issues associated with computing

Career Opportunities

Computer support, system maintenance and management, web development.

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Arts and Science Transfer – Computer Science

Award: Associate of Science
Degree Code: ASCC
Number of Credits: 63

Program Description

This program option prepares students to transfer to a four-year institution for continued study in computer science. Computer scientists apply techniques to work with industry, the government and academia to solve computational challenges. Students with bachelor's degrees in computer science continue their education in graduate school or enter the work force.

The computer literacy requirement will be met throughout the course work in the degree program

Transfer Information

Cecil College has articulation agreements with Maryland and regional institutions. Click on "Transfer Opportunities" in MyCecil under the Advising Tab for a list of transfer pathways. In addition, transfer information is available through ARTSYS (The Articulation System of Maryland). Contact your advisor for detailed information.

Required Courses

General Education Requirements

Number	Title	Credits
ACT	Activity Electives	2
ARTS/HUM	Arts and Humanities Electives[1] [H]	3
BIO 101 and BIO 111 or BIO 130 and BIO 131	General Biology [S] General Biology Lab Principles of Biology I [S] Principles of Biology I Lab	3 1 3 1
CHM or PHY or PSC	Chemistry with Lab Elective [S/SL] Physics with Lab Elective [SL] Physical Science with Lab Elective [SL]	3-1 4 4
PHY 207	General Physics I with Lab [SL]	5
EGL 101	Freshman Composition [E]	3
EGL 102	Composition and Literature [H]	3
MAT 201	Calculus I with Analytical Geometry [M]	4
SOC SCI	Social Science Electives[2] [SS]	6

Program Requirements

Number	Title	Credits
CSC 109	Introduction to Programming	3
CSC 205	Computer Science I	3
CSC 218	Computer Science II	4
MAT 202	Calculus II with Analytical Geometry [M]	4
MAT 236	Discrete Structures [M]	3
MAT 240	Introduction to Linear Algebra [M]	4
PHY 208	General Physics II with Lab [SL]	5
SPH 121 or SPH 141	Interpersonal Communications [H] Public Speaking [H]	3

[1] Selection may not include EGL designation.
[2] Courses must be from two different disciplines.

Recommended Sequence

The following is a recommended sequence of courses for completing this program as a full-time student. Developmental and prerequisite course requirements, credit load, and/or course availability may affect a student's individual progress. Students should consult their degree audit at MyCecil or an academic advisor for individual degree planning.

Fall I	(14 credits)
BIO 101 and BIO 111 or BIO 130 and BIO 131	General Biology General Biology Lab Principles of Biology I Principles of Biology I Lab
CSC 109	Introduction to Programming
MAT 201	Calculus I with Analytic Geometry
EGL 101	Freshman Composition
Spring I	**(15 credits)**
CHM or PHY or PSC	Chemistry with Lab Elective Physics with Lab Elective Physical Science with Lab Elective
MAT 202	Calculus II with Analytic Geometry
EGL 102	Composition and Literature
SOC SCI	Social Science Elective
ACT	Activity Elective
Fall II	**(17 credits)**
CSC 205	Computer Science I
MAT 236	Discrete Structures
PHY 207	General Physics I with Lab
ARTS/HUM	Arts and Humanities Elective
SOC SCI	Social Science Elective
Spring II	**(17 credits)**
CSC 218	Computer Science II
MAT 240	Introduction to Linear Algebra
PHY 208	General Physics II with Lab
SPH 121 or SPH 141	Interpersonal Communications Public Speaking
ACT	Activity Elective

Program Outcomes

Upon successful completion of this program, students will be able to:

- Analyze a problem; then identify and describe the computing requirements appropriate to its solution
- Create or evaluate computer-based systems or processes as a solution for desired results or outcomes
- Apply algorithmic principles and computer science theory in modeling problems and processes in the physical world
- Communicate and function effectively on teams working towards a common goal
- Understand legal and ethical issues associated with computing

Career Opportunities

Animator, computer aided designer, computer programmer, database analyst, software engineer, software developer, systems analyst.

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Criminal Justice

Award: Associate of Applied Science
Degree Code: CJRP
Number of Credits: 60

Program Description

The Criminal Justice program is focused toward the professional and educational needs of students interested in careers in criminal justice and toward current criminal justice personnel who desire to increase their proficiency or to improve their professional career opportunities.

The computer literacy requirement will be met throughout the coursework in the degree program.

Note: All previous coursework in Criminal Justice Corrections and Criminal Justice Law Enforcement will be applied to the Criminal Justice degree requirements.

Transfer Information

Cecil College has articulation agreements with Maryland and regional institutions. Click on "Transfer Opportunities" in MyCecil under the Advising Tab for a list of transfer pathways. In addition, transfer information is available through ARTSYS (The Articulation System of Maryland). Contact your advisor for detailed information.

Required Courses

General Education Requirements

Number	Title	Credits
BIO or CHM or PHY	Biology, Chemistry, or Physics Science Elective with Lab [S/SL]	4
EGL 101	Freshman Composition [E]	3
EGL 211	Technical Writing	3
HST 202	United States History II [H]	3
MAT 127	Introduction to Statistics [M]	4
PSY 101	Introduction to Psychology [SS]	3
SOC 101	Introduction to Sociology [SS]	3
SPH 141	Public Speaking [H]	3
SPN 101	Beginning Spanish I [H]	3

Program Requirements

Number	Title	Credits
CRJ 101	Introduction to the Criminal Justice System	3
CRJ 105	Introduction to Corrections	3
CRJ 110	Police Community Relations	3
CRJ 201	Criminal Investigation	3
CRJ 205	Criminal Law	3
CRJ 211	Probation, Parole, and Community Corrections	3
CRJ 214	Delinquency and Juvenile Justice	3
CRJ 221	Criminology	3
CRJ 299	Criminal Justice Externship	3
PHI 201	Ethics - Contemporary Moral Issues [H]	3
PED	Physical Education Elective	1

Recommended Sequence

The following is a recommended sequence of courses for completing this program as a full-time student. Developmental and prerequisite course requirements, credit load, and/or course availability may affect a student's individual progress. Students should consult their degree audit at MyCecil or an academic advisor for individual degree planning.

Fall I	(13 credits)
EGL 101	Freshman Composition
CRJ 101	Introduction to the Criminal Justice System
CRJ 105	Introduction to Corrections
PED	Physical Education Elective
PSY 101	Introduction to Psychology
Spring I	**(15 credits)**
EGL 211	Technical Writing
CRJ 205	Criminal Law
CRJ 221	Criminology
SOC 101	Introduction to Sociology
SPH 141	Public Speaking
Fall II	**(16 credits)**
MAT 127	Introduction to Statistics
CRJ 110	Police Community Relations
CRJ 201	Criminal Investigation
CRJ 214	Delinquency and Juvenile Justice
SPN 101	Beginning Spanish I
Spring II	**(16 credits)**
BIO or CHM or PHY	Biology, Chemistry, or Physics Science Elective with Lab
CRJ 211	Probation, Parole, and Community Corrections
CRJ 299	Cooperative Education Experience in Criminal Justice
HST 202	United States History II
PHI 201	Contemporary Moral Issues

Program Outcomes

Upon successful completion of this program, students will be able to:

- Critically evaluate theories about crime and criminal behavior
- Critically evaluate laws and court decisions about crime and criminal behavior
- Explain the organization and administration of the criminal justice system
- Explain the role of research in criminal justice
- Analyze how personal values may conflict with the ethical standards for criminal justice professionals
- Analyze how ethical principles and ethical codes of conduct apply to criminal justice professionals

Career Opportunities

Career opportunities in Criminal Justice may include law enforcement, court systems, corrections, criminal investigation, detective services, forensics, and security services.

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Cyber Security

Award: Associate of Applied Science
Degree Code: ASCR
Number of Credits: 60

Program Description

The Cyber Security program option prepares students to transfer to a four-year institution for continued study in computer cyber security. Cyber security specialists apply computer security techniques to work with industry, government, and academia to solve computer networking and security related challenges. Students with bachelor's degrees in computer cyber security continue their education in graduate school or enter the workforce as a network, forensic, or computer security expert.

The computer literacy requirement will be met throughout the course work in the degree program.

Transfer Information

Cecil College has articulation agreements with Maryland and regional institutions. Click on "Transfer Opportunities" in MyCecil under the Advising Tab for a list of transfer pathways. In addition, transfer information is available through ARTSYS (The Articulation System of Maryland). Contact your advisor for detailed information.

Required Courses

General Education Requirements

Number	Title	Credits
ARTS/HUM	Arts and Humanities Elective[1] [H]	3
BIO or PHY	Biology with Lab or Physics with Lab Electives [SL]	8
CSC 104	Computer Science Fundamentals [I]	3
EGL 101	Freshman Composition [E]	3
EGL 102	Composition and Literature [H]	3
MAT 121	Precalculus [M]	4
PSY 101	Introduction to Psychology [SS]	3
SOC SCI	Social Science Elective[2] [SS]	3

Program Requirements

Number	Title	Credits
CSC 109	Introduction to Programming	3
CSC 140	Introduction to Networking[3]	3
CSC 141	Computer Network Security Fundamentals[3]	3
CSC 151	Introduction to Computer Forensics and Investigations[3]	3
CSC 225	Tactical Perimeter Defense	3
CSC 235	Strategic Infrastructure Security	3
CSC 258	Cisco Certified Network Associate[3]	4
PHE 185	DC, AC Circuits and devices	4
PHE 225	Digital Electronics and Instrumentation	4

[1] Selection may not include EGL designation.
[2] Courses must be from two different disciplines.
[3] Certification option courses.

Recommended Sequence

The following is a recommended sequence of courses for completing this program as a full-time student. Developmental and prerequisite course requirements, credit load, and/or course availability may affect a student's individual progress. Students should consult their degree audit at MyCecil or an academic advisor for individual degree planning.

Fall I	(16 credits)
BIO or PHY	Biology with Lab or Physics with Lab Elective
EGL	Freshman Composition
CSC 104	Computer Science Fundamentals
CSC 109	introduction to Programming
PSY	Introduction to Psychology
Spring I	**(17 credits)**
BIO or PHY	Biology with Lab or Physics with Lab Elective
CSC 140	Introduction to Networking
EGL 102	Composition and Literature
MAT 121	Precalculus
SOC SCI	Social Science Elective
Fall II	**(13 credits)**
ART/HUM	Arts and Humanities Elective
CSC 141	Computer Network Security Fundamentals
CSC 151	Introduction to Computer Forensics and Investigations
PHE 185	DC, AC Circuits and Devices
Spring II	**(14 credits)**
CSC 225	Tactical Perimeter Defense
CSC 235	Strategic Infrastructure Security
CSC 258	Cisco Certified Network Associate

Program Outcomes

Upon successful completion of this program, students will be able to:

- Demonstrate proficiency in a programming language
- Configure and secure Windows and Unix/Linux server and clients, routers, firewalls, email, networks, and other network security appliances and software
- Demonstrate an understanding of networking standards, protocols, and the OSI model
- Identify and describe security measures for different types of network attacks, operating systems, software, databases, websites, social engineering and physical security
- Demonstrate an understanding of computer forensics, data acquisition, analysis, tools, and crime scene investigation and documentation requirements for corporate or legal testimony
- Explain the function of cryptography and encryption to secure data, public key infrastructure, hashing, and digital signatures along with other data protection techniques
- Create an effective security policy and disaster recovery plan, addressing business requirements related to confidentiality, integrity and availability

Career Opportunities

Career opportunities in Cyber Security may include cyber operations, intelligence analyst, information security, computer investigation, computer forensics, and security analyst.

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Early Childhood Education

Award: Associate of Arts in Teaching
Degree Code: ECAT
Number of Credits: 67

Program Description

This degree provides the first two years of college for students preparing to become early childhood education teachers in the State of Maryland. It is designed for students desiring to transfer to a Maryland four-year college or university to earn a bachelor's degree in early childhood teacher education. This degree has been articulated with all of the transfer programs in early childhood education in the State of Maryland. To earn the AAT degree, students must graduate with a 2.75 GPA, pass the Praxis Core Academic Skills for Educations (CORE) test[1] (or an approved alternative test equivalency) and successfully complete a professional portfolio approved by the Director of Teacher Education.

Transfer Information

Cecil College has articulation agreements with Maryland and regional institutions. Click on "Transfer Opportunities" in MyCecil under the Advising Tab for a list of transfer pathways. In addition, transfer information is available through ARTSYS (The Articulation System of Maryland). Contact your advisor for detailed information.

Required Courses

General Education and Program Requirements

Number	Title	Credits
ACT	Activity Electives	2
ART 195	Integrated Arts	3
BIO 101 and BIO 111	General Biology [S] General Biology Lab	3 1
EDU 131	Principles of Early Childhood Education	3
EDU 132	Early Childhood Curriculum and Methods	3
EDU 150	Classroom Management	3
EDU 202	Principles of Early Childhood - Field Experience	1
EDU 203	Early Childhood Curriculum and Methods - Field Experience	1
EDU 210	Processes and Acquisitions of Reading	3
EDU 251	Introduction to Exceptional Children and Youth[2]	3
EDU 253	Introduction to Exceptional Children and Youth - Field Experience	1
EDU 260 or EGL 260	Children's Literature Children's Literature [H]	3
EGL 101	Freshman Composition [E]	3
EGL 102	Composition and Literature [H]	3
HST 201 or HST 202	United States History I [H] United States History II [H]	3
MAT 127	Introduction to Statistics [M]	4
MAT 133	Mathematical Concepts and Structures I	4
MAT 134	Mathematical Concepts and Structures II	4
PSC 105	General Physical Science with Lab [SL]	4
PSY 101	Introduction to Psychology [SS]	3
PSY 203	Child Growth and Development	3
SOC 101	Introduction to Sociology [SS]	3
SPH 141	Public Speaking [H]	3

[1] The Praxis core Academic Skills for Educators (CORE) test should be taken after completing 45 credits. For more information about the Core test, students should contact the Director of Teacher Education or go to www.ets.org/praxis.
[2] The Introduction to Exceptional Children and Youth course required by Cecil College is a necessary requirement of the Teacher Education Program but may not be sufficient to meet all special education or inclusion course requirements for four-year teacher education programs. Students may be required to take additional special education or inclusion courses as a part of the requirements for a baccalaureate degree and teacher education certification at four-year institutions.

Recommended Sequence

The following is a recommended sequence of courses for completing this program as a full-time student. Developmental and prerequisite course requirements, credit load, and/or course availability may affect a student's individual progress. Students should consult their degree audit at MyCecil or an academic advisor for individual degree planning.

Fall I	(17 credits)
EGL 101	Freshman Composition
MAT 133	Mathematical Concepts and Structures I
PSY 101	Introduction to Psychology
EDU 131	Principles of Early Childhood Education
EDU 202	Principles of Early Childhood - Field Experience
HST 201 or HST 202	United States History I United States History II
Spring I	**(18 credits)**
EGL 102	Composition and Literature
MAT 134	Mathematical Concepts and Structures II
PSC 105	General Physics Science with Lab
EDU 132	Early Childhood Curriculum and Methods
EDU 203	Early Childhood Curriculum and Methods - Field Experience
SPH 141	Public Speaking
Fall II	**(16 credits)**
ACT	Activity Electives
BIO 101 and BIO 111	General Biology General Biology Lab
MAT 127	Introduction to Statistics
EDU 150	Classroom Management
PSY 203	Child Growth and Development
Spring II	**(16 credits)**
ART 195	Integrated Arts
EDU 210	Processes and Acquisitions of Reading
EGL 260 or EDU 260	Children's Literature Children's Literature
EDU 251	Introduction to Exceptional Children and Youth
EDU 253	Introduction to Exceptional Children and Youth - Field Experience
SOC 101	Introduction to Sociology

Program Outcomes

Upon successful completion of this program, students will be able to:

- Describe the theories and principles of child development and learning and apply the theories and principles to their classroom teaching
- Identify the policies, issues, trends, and historical events in the field of early childhood education
- Demonstrate understanding of content areas and apply developmentally appropriate approaches to enhance children's learning and development
- Identify and explain the models of classroom and behavior management
- Analyze and reflect upon teaching practices for the purpose of improving and differentiating instruction for students
- Demonstrate progress toward mastering the Interstate Teacher Assessment and Support Consortium (InTASC) Standards
- Identify community resources serving students with special needs and their families
- Identify and conduct themselves as early childhood professionals who use ethical guidelines and National Association for the Education of Young Children standards
- Demonstrate excellent written, verbal, critical thinking, and problem-solving skills
- Demonstrate progress toward mastery of the Maryland Technology Standards

Career Opportunities

Child care center staffing, director of center, elementary teacher's assistant, family child care provider. Successful completers may continue their education and become teachers.

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Elementary Education

Award: Associate of Arts in Teaching
Degree Code: EEAT
Number of Credits: 64

Program Description

This degree provides the first two years of college for students preparing to become elementary teachers in the State of Maryland. It is designed for students desiring to transfer to a Maryland four-year college or university to earn a bachelor's degree in elementary teacher education. This degree has been articulated with all of the transfer programs in elementary education in the State of Maryland. To earn the AAT degree, students must graduate with a 2.75 GPA, pass the PRAXIS I Exam[1] (or an approved alternative test equivalency) and successfully complete a professional portfolio approved by the Director of Teacher Education.

The computer literacy requirement will be met throughout the course work in the degree program.

Transfer Information

Cecil College has articulation agreements with Maryland and regional institutions. Click on "Transfer Opportunities" in MyCecil under the Advising Tab for a list of transfer pathways. In addition, transfer information is available through ARTSYS (The Articulation System of Maryland). Contact your advisor for detailed information.

Required Courses

General Education and Program Requirements

Number	Title	Credits
ACT	Activity Electives	2
ART 195	Integrated Arts	3
BIO 101 **and** BIO 111	General Biology [S] General Biology Lab	3 1
EDU 101	Foundations of Education	3
EDU 102	Foundations of Education - Field Experience	1
EDU 207	Educational Psychology - Field Experience	1
EDU 210	Processes and Acquisitions of Reading	3
EDU 251	Introduction to Exceptional Children and Youth[2]	3
EDU 253	Introduction to Exceptional Children and Youth - Field Experience[2]	1
EDU 260 **or** EGL 260	Children's Literature Children's Literature [H]	3
EGL 101	Freshman Composition [E]	3
EGL 102	Composition and Literature [H]	3
GEO 101	Physical Geography [SS]	3
HST 201 **or** HST 202	History of the United States (to reconstruction) History of the United States II (reconstruction to present) [H]	3
MAT 127	Introduction to Statistics [M]	4
MAT 133	Mathematical Concepts and Structures I	4
MAT 134	Mathematical Concepts and Structures II	4
PSC 105	General Physical Science with Lab [SL]	4
PSY 101	Introduction to Psychology [SS]	3
PSY 203	Child Growth and Development	3
PSY 207	Educational Psychology	3
SPH 141	Public Speaking [H]	3

[1] The Praxis I Exam should be taken after completing 45 credits. For more information about the Praxis I Exam, students should contact the Director of Teacher Education or go to www.ets.org/praxis.

[2] The Introduction to Exceptional Children and Youth course required by Cecil College is a necessary requirement of the Teacher Education Program but may not be sufficient to meet all special education or inclusion course requirements for four-year teacher education programs. Students may be required to take additional special education or inclusion courses as a part of the requirements for a baccalaureate degree and teacher education certification at four-year institutions.

Recommended Sequence

The following is a recommended sequence of courses for completing this program as a full-time student. Developmental and prerequisite course requirements, credit load, and/or course availability may affect a student's individual progress. Students should consult their degree audit at MyCecil or an academic advisor for individual degree planning.

Fall I	(14 credits)
EGL 101	Freshman Composition
MAT 133	Mathematical Concepts and Structures I
PSY 101	Introduction to Psychology
EDU 101	Introduction to Education
EDU 102	Introduction to Education - Field Experience
Spring I	**(17 credits)**
EGL 102	Composition and Literature
MAT 134	Mathematical Concepts and Structures II
EDU 251	Introduction to Exceptional Children and Youth
EDU 253	Introduction to Exceptional Children and Youth - Field Experience
HST 201 **or** HST 202	History of the United States (to reconstruction) History of the United States II (reconstruction to the present)
SPH 141	Public Speaking
Fall II	**(16 credits)**
ACT	Activity Electives
BIO 101 **and** BIO 111	General Biology General Biology Lab
EDU 210	Processes and Acquisitions of Reading
MAT 127	Introduction to Statistics
PSY 203	Child Growth and Development
Spring II	**(17 credits)**
ART 195	Integrated Arts
PSY 207	Educational Psychology
EDU 207	Educational Psychology - Field Experience
EGL 260 **or** EDU 260	Children's Literature Children's Literature
GEO 101	Physical Geography
PSC 105	General Physical Science with Lab

Program Outcomes

Upon successful completion of this program, students will be able to:

- Identify major historical events in education and analyze the impact of those events with current educational trends
- Identify the policies, issues, trends, and historical events in the field of elementary education
- Identify the psychological, cognitive, emotional, and physical characteristics of typically developing children and adolescents, with specific consideration to children with disabilities
- Identify the current and inclusive philosophies for differentiating instruction to analyze, improve, and facilitate instruction for diverse learners
- Demonstrate progress toward mastering the Interstate Teacher Assessment and Support Consortium (InTASC) Standards
- Develop excellent written, verbal, critical thinking, and problem solving skills
- Demonstrate progress toward mastering the INTASC Standards
- Demonstrate understanding of content areas and apply developmentally appropriate approaches to enhance children's learning and development

Career Opportunities

Elementary teacher, reading, specialist, resource teacher, camp director.

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Teacher Education Transfer – Elementary Education Option

Award: Associate of Arts
Degree Code: EEAD
Number of Credits: 63

Program Description

This degree option is designed to provide the first two years of college for students preparing to become elementary education teachers. The program is designed primarily for students desiring to transfer to an out-of-state four-year college or university to earn a bachelor's degree in teaching. Students earning the A.A. degree must graduate with a 2.75 GPA, pass the Praxis Core Academic Skills for Educators (CORE) test[1] (or an approved alternative test equivalency) and successfully complete a professional portfolio approved by the Director of Teacher Education. Changes in the program requirements at four-year institutions may affect the transferability of credits earned in the program.

The computer literacy requirement will be met throughout the course work in the degree program.

Transfer Information

Cecil College has articulation agreements with Maryland and regional institutions. Click on "Transfer Opportunities" in MyCecil under the Advising Tab for a list of transfer pathways. In addition, transfer information is available through ARTSYS (The Articulation System of Maryland). Contact your advisor for detailed information.

Required Courses

General Education and Program Requirements

Number	Title	Credits
ACT	Activity Electives	2
ART 195	Integrated Arts	3
ARTS/HUM	Arts and Humanities Elective [H]	3
BIO 101 **and** BIO 111	General Biology [S] General Biology Lab	3 1
EDU 101	Foundations of Education	3
EDU 102	Foundations of Education - Field Experience	1
EDU 210	Processes and Acquisitions of Reading	3
EDU 251	Introduction to Exceptional Children and Youth[2]	3
EDU 253	Introduction to Exceptional Children and Youth - Field Experience[2]	1
EDU 260 **or** EGL 260	Children's Literature Children's Literature [H]	3
EGL 101	Freshman Composition [E]	3
EGL 102	Composition and Literature [H]	3
GEO 101	Physical Geography [SS]	3
HST 201 **or** HST 202	History of the United States (to reconstruction) [H] History of the United States II (reconstruction to present) [H]	3
MAT 127	Introduction to Statistics [M]	4
MAT 133	Mathematical Concepts and Structures I	4
MAT 134	Mathematical Concepts and Structures II	4
PSC 105	General Physical Science with Lab [SL]	4
PSY 101	Introduction to Psychology [SS]	3
PSY 203	Child Growth and Development	3
SPH 141	Public Speaking [H]	3

[1] The Praxis Core Academic Skills for Educators (CORE) test should be taken after completing 45 credits. For more information about the Core test, students should contact the Director of Teacher Education or go to www.ets.org/praxis.

[2] The Introduction to Exceptional Children and Youth course required by Cecil College is a necessary requirement of the Teacher Education Program but may not be sufficient to meet all special education or inclusion course requirements for four-year teacher education programs. Students may be required to take additional special education or inclusion courses as a part of the requirements for a baccalaureate degree and teacher education certification at four-year institutions.

Recommended Sequence

The following is a recommended sequence of courses for completing this program as a full-time student. Developmental and prerequisite course requirements, credit load, and/or course availability may affect a student's individual progress. Students should consult their degree audit at MyCecil or an academic advisor for individual degree planning.

Fall I	(13 credits)
EGL 101	Freshman Composition
PSY 101	Introduction to Psychology
EDU 101	Introduction to Education
EDU 102	Introduction to Education - Field Experience
ARTS/HUM	Arts and Humanities Elective
Spring I	**(18 credits)**
EGL 102	Composition and Literature
MAT 127	Introduction to Statistics
EDU 251	Introduction to Exceptional Children and Youth
EDU 253	Introduction to Exceptional Children and Youth - Field Experience
HST 201 **or** HST 202	History of the United States (to reconstruction) History of the United States II (reconstruction to the present)
PSC 105	General Physical Science with Lab
Fall II	**(16 credits)**
ACT	Activity Electives
BIO 101 **and** BIO 111	General Biology General Biology Lab
EDU 210	Processes and Acquisitions of Reading
MAT 133	Mathematical Concepts and Structures I
PSY 203	Child Growth and Development
Spring II	**(16 credits)**
ART 195	Integrated Arts
EGL 260 **or** EDU 260	Children's Literature Children's Literature
GEO 101	Physical Geography
MAT 134	Mathematical Concepts and Structures II
SPH 141	Public Speaking

Program Outcomes

Upon successful completion of this program, students will be able to:

- Identify major historical events in education and analyze the impact of those events with current educational trends
- Identify the policies, issues, trends, and historical events in the field of elementary education
- Identify the psychological, cognitive, emotional, and physical characteristics of typically developing children and adolescents, with specific consideration to children with disabilities
- Identify the current and inclusive philosophies for differentiating instruction to analyze, improve, and facilitate instruction for diverse learners
- Demonstrate progress toward mastering the Interstate Teacher Assessment and Support Consortium (InTASC) Standards
- Develop excellent written, verbal, critical thinking, and problem solving skills
- Demonstrate progress toward mastering the INTASC Standards
- Demonstrate understanding of content areas and apply developmentally appropriate approaches to enhance children's learning and development

Career Opportunities

Child care center staffing, director of center, elementary teacher's assistant, family child care provider.

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Secondary Education

Award: Associate of Arts
Degree Code: ESER
Number of Credits: 60

Program Description

This degree option provides the first two years of college for students preparing to become secondary education teachers. To earn the A.A. degree, students must graduate with a 2.75 GPA pass the Praxis I Exam[1] (or an approved alternative test equivalency) and successfully complete a professional portfolio approved by the Director of Teacher Education. All students who enroll in this program should work closely with their advisor and the Director of Teacher Education. Changes in the program requirements at four-year institutions may affect the transferability of credits earned in the program.

The College's computer literacy requirement is met throughout the degree program.

Transfer Information

Cecil College has articulation agreements with Maryland and regional institutions. Click on "Transfer Opportunities" in MyCecil under the Advising Tab for a list of transfer pathways. In addition, transfer information is available through ARTSYS (The Articulation System of Maryland). Contact your advisor for detailed information.

Required Courses

General Education and Program Requirements

Number	Title	Credits
BIO 101 **and** BIO 111	General Biology [S] General Biology Lab	3 1
EDU 101	Foundations of Education	3
EDU 102	Foundations of Education - Field Experience	1
EDU 207	Educational Psychology - Field Experience	1
EDU 251	Introduction to Exceptional Children and Youth[3]	3
EDU 253	Introduction to Exceptional Children and Youth - Field Experience[2]	1
EGL 263	Teaching Reading in the Secondary Content Area, Part I	3
EGL 101	Freshman Composition [E]	3
EGL 102	Composition and Literature [H]	3
ELECT	Discipline Electives[4]	12
HST 201 **or** HST 202	History of the United States (to reconstruction) [H] History of the United States II (reconstruction to present) [H]	3
MAT	Math Elective [M]	3-4
PSC 105	General Physical Science with Lab [SL]	4
PSY 101	Introduction to Psychology [SS]	3
PSY 203	Child Growth and Development	3
PSY 207	Educational Psychology	3
SOC SCI	Social Science Elective[2] [SS]	3
SPH 141	Public Speaking [H]	3

[1] The Praxis I Exam should be taken after completing 45 credits. For more information about the Praxis I Exam, students should contact the Director of Teacher Education or go to www.ets.org/praxis.

[2] Social Science Elective must be a course designation other than PSY.

[3] The Introduction to Exceptional Children and Youth course required by Cecil College is a necessary requirement of the Teacher Education Program but may not be sufficient to meet all special education or inclusion course requirements for four-year teacher education programs. Students may be required to take additional special education or inclusion courses as a part of the requirements for a baccalaureate degree and teacher education certification at four-year institutions.

[4] Student should select four electives that relate to their intended area of concentration as a secondary level teacher.

Recommended Sequence

The following is a recommended sequence of courses for completing this program as a full-time student. Developmental and prerequisite course requirements, credit load, and/or course availability may affect a student's individual progress. Students should consult their degree audit at MyCecil or an academic advisor for individual degree planning.

Fall I	(13 credits)
EDU 101	Introduction to Education
EDU 102	Introduction to Education - Field Experience
EGL 101	Freshman Composition
ELECT	Discipline Elective
Spring I	**(16-17 credits)**
EGL 102	Composition and Literature
ELECT	Discipline Elective
MAT	Math Elective
PSC 105	General Physical Science with Lab
PSY 101	Introduction to Psychology
Fall II	**(17 credits)**
BIO 101 **and** BIO 111	General Biology General Biology Lab
EDU 251	Introduction to Exceptional Children and Youth
EDU 253	Introduction to Exceptional Children and Youth - Field Experience
EDU 263	Teaching Reading in the Secondary Content Area, Part I
ELECT	Discipline Elective
PSY 203	Child Growth and Development
Spring II*	**(13 credits)**
HST 201 **or** HST 202	History of the United States (to reconstruction) History of the United States II (reconstruction to the present)
EDU 207	Educational Psychology - Field Experience
PSY 207	Educational Psychology
SOC SCI	Social Science Elective
SPH 141	Public Speaking

*A discipline elective is "optional" in the Spring II semester since students are required to complete a minimum of 9 credits for discipline electives (9–12 credits).

Program Outcomes

Upon successful completion of this program, students will be able to:

- Identify major historical events in education and analyze the impact of those events with current educational trends
- Identify the policies, issues, trends, and historical events in the field of secondary education
- Identify the psychological, cognitive, emotional, and physical characteristics of typically developing children and adolescents, with specific consideration to disabilities and cultural and linguistic diversity
- Demonstrate progress toward mastery of the Maryland Technology Standards
- Identify the current and inclusive philosophies for differentiating instruction to analyze, improve, and facilitate instruction for diverse learners
- Demonstrate progress toward mastering the Interstate Teacher Assessment and Support Consortium (InTASC) Standards
- Develop excellent written, verbal, critical thinking, and problem solving skills

Career Opportunities

Middle and high school teacher – subject specific, such as math, science or English, tutoring counseling, librarian, research, curriculum and textbook review.

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Secondary Education – Chemistry

Award: Associate of Arts in Teaching
Degree Code: SCAT
Number of Credits: 66

Program Description

This degree provides the first two years of college for students preparing to become secondary chemistry teachers. Students completing the Associate of Arts in Teaching (AAT) degree are eligible for admission to Maryland's four-year colleges' or universities' Secondary Teacher Education Programs in Chemistry. To earn the AAT degree, students must graduate with a 2.75 GPA, pass the Praxis Core Academic Skills for Educators (CORE) test[1] (or an approved alternative test equivalency) and successfully complete a professional portfolio approved by the Director of Teacher Education. The computer literacy requirement will be met throughout the course work in degree program.

Transfer Information

Cecil College has articulation agreements with Maryland and regional institutions. Click on "Transfer Opportunities" in MyCecil under the Advising Tab for a list of transfer pathways. In addition, transfer information is available through ARTSYS (The Articulation System of Maryland). Contact your advisor for detailed information.

Required Courses

General Education and Program Requirements

Number	Title	Credits
ACT	Activity Electives	2
CHM 103 **and** CHM 113	General Chemistry I [S] General Chemistry I Lab	3 1
CHM 104 **and** CHM 114	General Chemistry II [S] General Chemistry II Lab	3 1
CHM 203	Organic Chemistry I with Lab	4
CHM 204	Organic Chemistry II with Lab	4
EDU 101	Foundations of Education	3
EDU 102	Foundations of Education - Field Experience	1
EDU 207	Educational Psychology - Field Experience	1
EDU 251	Introduction to Exceptional Children and Youth[2]	3
EDU 253	Introduction to Exceptional Children and Youth - Field Experience[2]	1
EGL 101	Freshman Composition [E]	3
EGL 102	Composition and Literature [H]	3
MAT 201	Calculus I with Analytic Geometry [M]	4
MAT 202	Calculus II with Analytic Geometry [M]	4
PHY 207	General Physics I with Lab [SL]	5
PHY 208	General Physics II with Lab [SL]	5
PSY 101	Introduction to Psychology [SS]	3
PSY 203	Child Growth and Development	3
PSY 207	Educational Psychology	3
SOC SCI	Social Science Elective[3] [SS]	3
SPH 141	Public Speaking [H]	3

[1] The Praxis Core Academic Skills for Educators (CORE) test should be taken after completing 45 credits. For more information about the Core test, students should contact the Director of Teacher Education or go to www.ets.org/praxis.

[2] The Introduction to Exceptional Children and Youth course required by Cecil College is a necessary requirement of the Teacher Education Program but may not be sufficient to meet all special education or inclusion course requirements for four-year teacher education programs. Students may be required to take additional special education or inclusion courses as a part of the requirements for a baccalaureate degree and teacher education certification at four-year institutions.

[3] Social Science Elective must be a course designation other than PSY.

Recommended Sequence

The following is a recommended sequence of courses for completing this program as a full-time student. Developmental and prerequisite course requirements, credit load, and/or course availability may affect a student's individual progress. Students should consult their degree audit at MyCecil or an academic advisor for individual degree planning.

Fall I	(18 credits)
EGL 101	Freshman Composition
MAT 201	Calculus I with Analytical Geometry
PSY 101	Introduction to Psychology
EDU 101	Foundations of Education
EDU 102	Foundations of Education - Field Experience
CHM 103 **and** CHM 113	General Chemistry I General Chemistry I Lab
Spring I	**(18 credits)**
EGL 102	Composition and Literature
PSY 203	Child Growth and Development
MAT 202	Calculus II with Analytic Geometry
PSY 207	Educational Psychology
EDU 207	Educational Psychology - Field Study
CHM 104 **and** CHM 114	General Chemistry II General Chemistry II Lab
Fall II	**(17-18 credits)**
ACT	Activity Elective(s)
EDU 251	Introduction to Exceptional Children and Youth
EDU 253	Introduction to Exceptional Children and Youth - Field Study
PHY 207	General Physics I with Lab
CHM 203	Organic Chemistry I with Lab
SPH 141	Public Speaking
Spring II	**(13-14 credits)**
SOC SCI	Social Science Elective
PHY 208	General Physics II with Lab
CHM 204	Organic Chemistry II with Lab
ACT	Activity Elective(s)

Program Outcomes

Upon successful completion of this program, students will be able to:

- Identify major historical events in education and analyze the impact of those events with current educational trends
- Identify the policies, issues, trends, and historical events in the field of secondary education
- Identify the psychological, cognitive, emotional, and physical characteristics of typically developing children and adolescents, with specific consideration to disabilities and cultural and linguistic diversity
- Demonstrate progress toward mastery of the Maryland Technology Standards
- Identify the current and inclusive philosophies for differentiating instruction to analyze, improve, and facilitate instruction for diverse learners
- Demonstrate progress toward mastering the Interstate Teacher Assessment and Support Consortium (InTASC) Standards
- Develop excellent written, verbal, critical thinking, and problem solving skills
- Demonstrate an understanding of chemistry and the ability to apply developmentally appropriate approaches to enhance children's learning and development
- Demonstrate proficiency in the application of chemistry through the level of organic chemistry

Career Opportunities

Middle and high school teacher, research, curriculum and textbook review.

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Secondary Education – English

Award: Associate of Arts in Teaching
Degree Code: SEAT
Number of Credits: 64-65

Program Description

This degree provides the first two years of college for students preparing to become secondary English teachers. Students completing the Associate of Arts in Teaching (AAT) degree are eligible for admission to Maryland's four-year colleges' or universities' Secondary Teacher Education Programs in English. To earn the AAT degree, students must graduate with a 2.75 GPA, pass the Praxis I Exam[1] (or approved alternative test equivalency) and successfully complete a professional portfolio approved by the Director of Teacher Education.

Transfer Information

Cecil College has articulation agreements with Maryland and regional institutions. Click on "Transfer Opportunities" in MyCecil under the Advising Tab for a list of transfer pathways. In addition, transfer information is available through ARTSYS (The Articulation System of Maryland). Contact your advisor for detailed information.

Required Courses

General Education and Program Requirements

Number	Title	Credits
ACT	Activity Electives	2
CIS 101	Introduction to Computer Concepts [I]	3
BIO or ENV	Biological Science Elective with Lab [S/SL] Environmental Science Elective with Lab [S/SL]	4
EGL 101	Freshman Composition [E]	3
EGL 102	Composition and Literature [H]	3
HST 101	Western Civilization I [H]	3
MAT	Math Elective [M]	3-4
PSC 105	General Physical Science with Lab [SL]	4
PSY 101	Introduction to Psychology [SS]	3
SOC 101	Introduction to Sociology [SS]	3
SPH 141	Public Speaking [H]	3
EDU 101	Foundations of Education	3
EDU 102	Foundations of Education - Field Experience	1
EDU 207	Educational Psychology - Field Experience	1
EDU 251	Introduction to Exceptional Children and Youth[2]	3
EDU 253	Introduction to Exceptional Children and Youth - Field Experience[2]	1
EDU 263	Teaching Reading in the Secondary Content Area, Part I	3
EDU 264	Teaching Reading in the Secondary Content Area, Part II	3
EGL 203 or EGL 204	British Lit. to 18th c. [H] British Lit. 18th c. to Present [H]	3
EGL 205	American Lit. to 1865 [H]	3
EGL 206	American Lit. 1865 to Present [H]	3
EGL 209	Introduction to African-American Literature [H]	3
PSY 207	Educational Psychology	3

[1] The Praxis I Exam should be taken after completing 45 credits. For more information about the Praxis I Exam, students should contact the Director of Teacher Education or go to www.ets.org/praxis.

[2] The Introduction to Exceptional Children and Youth course required by Cecil College is a necessary requirement of the Teacher Education Program but may not be sufficient to meet all special education or inclusion course requirements for four-year teacher education programs. Students may be required to take additional special education or inclusion courses as a part of the requirements for a baccalaureate degree and teacher education certification at four-year institutions.

Recommended Sequence

The following is a recommended sequence of courses for completing this program as a full-time student. Developmental and prerequisite course requirements, credit load, and/or course availability may affect a student's individual progress. Students should consult their degree audit at MyCecil or an academic advisor for individual degree planning.

Fall I	(15 credits)
ACT	Activities Electives
EDU 101	Foundations of Education
EDU 102	Foundations of Education - Field Experience
EGL 101	Freshman Composition
PSY 101	Introduction to Psychology
SPH 141	Public Speaking
Spring I	**(16-17 credits)**
CIS 101	Introduction to Computer Concepts
EDU 251	Introduction to Exceptional Children and Youth
EDU 253	Introduction to Exceptional Children and Youth - Field Study
EGL 102	Composition and Literature
HST 101	Western Civilization I
MAT	Math Elective
Fall II	**(16 credits)**
EDU 263	Teaching Reading in the Secondary Content Area, Part I
EGL 203 or EGL 204	British Lit. to 18th c. British Lit. 18th c. to Present
EGL 205	American Lit. to 1865
PSC 105	General Physical Science with Lab
SOC 101	Introduction to Sociology
Spring II	**(17 credits)**
BIO or ENV	Biological Science with Lab Environmental Science with Lab
EDU 207	Educational Psychology - Field Experience
EDU 264	Teaching Reading in the Secondary Content Area, Part II
EGL 206	American Lit. 1865 to Present
EGL 209	Introduction to African-American Literature
PSY 207	Educational Psychology

Program Outcomes

Upon successful completion of this program, students will be able to:

- Identify major historical events in education and analyze the impact of those events with current educational trends
- Identify the policies, issues, trends, and historical events in the field of secondary education
- Identify the psychological, cognitive, emotional, and physical characteristics of typically developing children and adolescents, with specific consideration to disabilities and cultural and linguistic diversity
- Demonstrate progress toward mastery of the Maryland Technology Standards
- Identify the current and inclusive philosophies for differentiating instruction to analyze, improve, and facilitate instruction for diverse learners
- Demonstrate progress toward mastering the Interstate Teacher Assessment and Support Consortium (InTASC) Standards
- Develop excellent written, verbal, critical thinking, and problem solving skills
- Demonstrate an understanding of the various components of English and the ability to apply developmentally appropriate approaches to enhance children's learning and development

Career Opportunities

Middle and high school teacher, research, curriculum and textbook review.

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Secondary Education – Mathematics

Award: Associate of Arts in Teaching
Degree Code: SMAT
Number of Credits: 65-66

Program Description

This degree provides the first two years of college for students preparing to become secondary mathematics teachers. Students completing the Associate of Arts in Teaching (AAT) degree are eligible for admission to Maryland's four-year colleges' or universities' Secondary Teacher Education Programs in Mathematics. To earn the AAT degree, students must graduate with a 2.75 GPA, pass the Praxis Core Academic skills for Educators (CORE) test[1] (or an approved alternative test equivalency) and successfully complete a professional portfolio approved by the Director of Teacher Education.

The computer literacy requirement will be met throughout the course work in the degree program.

Transfer Information

Cecil College has articulation agreements with Maryland and regional institutions. Click on "Transfer Opportunities" in MyCecil under the Advising Tab for a list of transfer pathways. In addition, transfer information is available through ARTSYS (The Articulation System of Maryland). Contact your advisor for detailed information.

Required Courses

General Education and Program Requirements

Number	Title	Credits
ACT	Activity Electives	2
BIO or CHM	Biological Elective [S/SL] Chemistry Elective [S/SL]	3-4
EDU 101	Foundations of Education	3
EDU 102	Foundations of Education - Field Experience	1
EDU 207	Educational Psychology - Field Experience	1
EDU 251	Introduction to Exceptional Children and Youth[2]	3
EDU 253	Introduction to Exceptional Children and Youth - Field Experience[2]	1
EGL 101	Freshman Composition [E]	3
EGL 102	Composition and Literature [H]	3
MAT 127	Introduction to Statistics [M]	4
MAT 201	Calculus I with Analytic Geometry [M]	4
MAT 202	Calculus II with Analytic Geometry [M]	4
MAT 203	Multivariable Calculus [M]	4
MAT 240	Introduction to Linear Algebra [M]	4
PHY 207	General Physics I with Lab [SL]	5
PHY 208	General Physics II with Lab [SL]	5
PSY 101	Introduction to Psychology [SS]	3
PSY 203	Child Growth and Development	3
PSY 207	Educational Psychology	3
SOC SCI	Social Science Elective[3] [SS]	3
SPH 141	Public Speaking [H]	3

[1] The Praxis Core Academic Skills for Educators (CORE) test should be taken after completing 45 credits. For more information about the Core test, students should contact the Director of Teacher Education or go to www.ets.org/praxis.
[2] The Introduction to Exceptional Children and Youth course required by Cecil College is a necessary requirement of the Teacher Education Program but may not be sufficient to meet all special education or inclusion course requirements for four-year teacher education programs. Students may be required to take additional special education or inclusion courses as a part of the requirements for a baccalaureate degree and teacher education certification at four-year institutions.
[3] Social Science Elective must be a course designation other than PSY.

Recommended Sequence

The following is a recommended sequence of courses for completing this program as a full-time student. Developmental and prerequisite course requirements, credit load, and/or course availability may affect a student's individual progress. Students should consult their degree audit at MyCecil or an academic advisor for individual degree planning.

Fall I	(17 credits)
EGL 101	Freshman Composition
MAT 127	Introduction to Statistics
PSY 101	Introduction to Psychology
EDU 101	Foundations of Education
EDU 102	Foundations of Education - Field Experience
SPH 141	Public Speaking
Spring I	**(14 credits)**
EGL 102	Composition and Literature
PSY 203	Child Growth and Development
MAT 201	Calculus I with Analytic Geometry
PSY 207	Educational Psychology
EDU 207	Educational Psychology - Field Experience
Fall II	**(17-19 credits)**
ACT	Activity Elective(s)
MAT 202	Calculus II with Analytic Geometry
PHY 207	General Physics I with Lab
EDU 251	Introduction to Exceptional Children and Youth
EDU 253	Introduction to Exceptional Children and Youth - Field Study
BIO or CHM	Biology Elective Chemistry Elective
Spring II	**(17-18 credits)**
SOC SCI	Social Science Elective
PHY 208	General Physics II with Lab
MAT 203	Multivariable Calculus
MAT 240	Introduction to Linear Algebra
ACT	Activity Elective(s)

Program Outcomes

Upon successful completion of this program, students will be able to:

- Identify major historical events in education and analyze the impact of those events with current educational trends
- Identify the policies, issues, trends, and historical events in the field of secondary education
- Identify the psychological, cognitive, emotional, and physical characteristics of typically developing children and adolescents, with specific consideration to disabilities and cultural and linguistic diversity
- Demonstrate progress toward mastery of the Maryland Technology Standards
- Identify the current and inclusive philosophies for differentiating instruction to analyze, improve, and facilitate instruction for diverse learners
- Demonstrate progress toward mastering the Interstate Teacher Assessment and Support Consortium (InTASC) Standards
- Demonstrate an understanding of the various components of mathematics and the ability to apply developmentally appropriate approaches to enhance children's learning and development
- Demonstrate proficiency in the application of mathematics through the level of multivariable calculus

Career Opportunities

Middle and high school teacher, research, curriculum and textbook review.

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Teacher Education Transfer – Secondary Education Option – Music Concentration

Award: Associate of Arts
Degree Code: ESMU
Number of Credits: 68

Program Description

This program option provides the first two years of college for students preparing to become music education teachers. Students must graduate with a 2.75 GPA, pass the Praxis Core Academic Skills for Educators (CORE) test[1] (or an approved alternative test equivalency) and successfully complete a professional portfolio approved by the Director of Teacher Education. All students who enroll in this program should work closely with their advisor and the Director of Teacher Education.

Transfer Information

Cecil College has articulation agreements with Maryland and regional institutions. Click on "Transfer Opportunities" in MyCecil under the Advising Tab for a list of transfer pathways. In addition, transfer information is available through ARTSYS (The Articulation System of Maryland). Contact your advisor for detailed information.

Required Courses

General Education and Program Requirements

Number	Title	Credits
BIO 101 **and** BIO 111	General Biology [S] General Biology Lab	3 1
EGL 101	Freshman Composition [E]	3
EGL 102	Composition and Literature [H]	3
HST 201 **or** HST 202	History of the United States (to reconstruction) [H] History of the United States II (reconstruction to present) [H]	3
MAT 127	Introduction to Statistics [M]	4
PSC 105	General Physical Science with Lab [SL]	4
PSY 101	Introduction to Psychology [SS]	3
SOC SCI	Social Science Elective[2] [SS]	3
SPH 141	Public Speaking [H]	3

Program Requirements

Number	Title	Credits
EDU 101	Foundations of Education	3
EDU 102	Foundations of Education - Field Experience	1
EDU 207	Educational Psychology - Field Experience	1
EDU 251	Introduction to Exceptional Children and Youth	3
EDU 253	Introduction to Exceptional Children and Youth - Field Experience	1
MUC 102	Piano Class I	1
MUC 114	Piano Class II	1
MUC 110	Music Theory & Musicianship I	4
MUC 111	Music Theory & Musicianship II	4
MUC 210	Music Theory & Musicianship III	4
MUC 211	Music Theory & Musicianship IV	4
MUC	Music Ensemble Electives[3]	4
MUL	Music Individual Lesson Electives[4]	4
PSY 207	Educational Psychology	3

[1] The Praxis Core Academic Skills for Educators (CORE) test should be taken after completing 45 credits. For more information about the Core test, students should contact the Director of Teacher Education or go to www.ets.org/praxis.
[2] Social Science Elective must be a course designation other than PSY.
[3] Electives include Chamber Choir, Chamber Ensemble, Band, Orchestra, or other approved elective. Please see current Cecil College course schedule for available ensembles or contact the music faculty for more information.
[4] Electives include individual lessons in Voice, Piano, String Instruments, Woodwind Instruments, Brass Instruments, Percussion/Drums, Guitar, Classical Guitar, Jazz Guitar, Songwriting/Composition or other approved elective. Please see current Cecil College course schedule for available courses or contact the music faculty for more information.

Recommended Sequence

The following is a recommended sequence of courses for completing this program as a full-time student. Developmental and prerequisite course requirements, credit load, and/or course availability may affect a student's individual progress. Students should consult their degree audit at MyCecil or an academic advisor for individual degree planning.

Fall I	(17 credits)
EDU 101	Introduction to Education
EDU 102	Introduction to Education - Field Experience
EGL 101	Freshman Composition
MUC 102	Piano Class I
MUC 110	Music Theory & Musicianship I
MUC	Music Ensemble Elective
MUL	Music Individual Lesson Elective
SOC SCI	Social Science Elective
Spring I	**(17 credits)**
EGL 102	Composition and Literature
MUC 111	Music Theory & Musicianship II
MUC 114	Piano Class II
MUC	Music Ensemble Elective
MUL	Music Individual Lesson Elective
PSC 105	General Physical Science with Lab
PSY 101	Introduction to Psychology
Fall II	**(17 credits)**
BIO 101 **and** BIO 111	General Biology General Biology Lab
EDU 251	Introduction to Exceptional Children and Youth
EDU 253	Introduction to Exceptional Children and Youth - Field Experience
MUC 210	Music Theory & Musicianship III
MUC	Music Ensemble Elective
MUL	Music Individual Lesson Elective
SPH 141	Public Speaking
Spring II	**(16 credits)**
HST 201 **and** HST 202	History of the United States (to reconstruction) History of the United States II (reconstruction to the present)
EDU 207	Educational Psychology - Field Experience
MAT 127	Introduction to Statistics
MUC 211	Music Theory & Musicianship IV
MUC	Music Ensemble Elective
MUL	Music Individual Lesson Elective
PSY 207	Educational Psychology

Program Outcomes

Upon successful completion of this program, students will be able to:

- Identify major historical events in education and analyze the impact of those events with current educational trends
- Identify the policies, issues, trends, and historical events in the field of elementary education
- Identify the psychological, cognitive, emotional, and physical characteristics of typically developing children and adolescents, with specific consideration to children with disabilities
- Identify the current and inclusive philosophies for differentiating instruction to analyze, improve, and facilitate instruction for diverse learners
- Demonstrate progress toward mastering the Interstate Teacher Assessment and Support Consortium (InTASC) Standards
- Develop excellent written, verbal, critical thinking, and problem solving skills
- Demonstrate progress toward mastering the INTASC Standards
- Demonstrate understanding of content areas and apply developmentally appropriate approaches to enhance children's learning and development
- Demonstrate proficiency at the intermediate level on their main instrument or vocal part
- Demonstrate an understanding of the basic principles of tonal harmony
- Demonstrate functional proficiency in aural theory (ear training) and sight singing
- Demonstrate proper use of basic hardware and software tools of music technology
- Demonstrate an understanding of classroom teaching in the music field

Career Opportunities

Education, performance, composing and arranging, conducting, music therapy, recording industry and communications.

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Secondary Education – Physics

Award: Associate of Arts in Teaching
Degree Code: SPAT
Number of Credits: 66

Program Description

This degree provides the first two years of college for students preparing to become secondary physics teachers. Students completing the Associate of Arts in Teaching (AAT) degree are eligible for admission to Maryland's four year colleges' or universities' Secondary Teacher Education Programs in Physics. To earn the AAT degree, students must graduate with a 2.75 GPA, pass the Praxis Core Academic Skills Educators (CORE) test[1] (or an approved alternative test equivalency) and successfully complete a professional portfolio approved by the Director of Teacher Education. The computer literacy requirement will be met throughout the course work in the degree program.

Transfer Information

Cecil College has articulation agreements with Maryland and regional institutions. Contact your advisor for detailed information.

Required Courses

General Education and Program Requirements

Number	Title	Credits
ACT	Activity Electives	2
CHM 103 **and** CHM 113	General Chemistry I [S] General Chemistry I Lab	3 1
PSC	General Physical Science with Lab Elective [SL]	4
EDU 101	Foundations of Education	3
EDU 102	Foundations of Education - Field Experience	1
EDU 207	Educational Psychology - Field Experience	1
EDU 251	Introduction to Exceptional Children and Youth[2]	3
EDU 253	Introduction to Exceptional Children and Youth - Field Experience[2]	1
EGL 101	Freshman Composition [E]	3
EGL 102	Composition and Literature [H]	3
MAT 201	Calculus I with Analytic Geometry [M]	4
MAT 202	Calculus II with Analytic Geometry [M]	4
MAT 203	Multivariable Calculus [M]	4
MAT 246	Introduction to Differential Equations [M]	3
PHY 207	General Physics I with Lab [SL]	5
PHY 208	General Physics II with Lab [SL]	5
PHY 209	General Physics III with Lab [SL]	5
PSY 101	Introduction to Psychology [SS]	3
PSY 203	Child Growth and Development	3
PSY 207	Educational Psychology	3
SOC SCI	Social Science Elective[3] [SS]	3
SPH 141	Public Speaking [H]	3

[1] The Praxis Core Academic Skills for Educators (CORE) test should be taken after completing 45 credits. For more information about the Core test, students should contact the Director of Teacher Education or go to www.ets.org/praxis.

[2] The Introduction to Exceptional Children and Youth course required by Cecil College is a necessary requirement of the Teacher Education Program but may not be sufficient to meet all special education or inclusion course requirements for four-year teacher education programs. Students may be required to take additional special education or inclusion courses as a part of the requirements for a baccalaureate degree and teacher education certification at four-year institutions.

[3] Social Science Elective must be a course designation other than PSY.

Recommended Sequence

The following is a recommended sequence of courses for completing this program as a full-time student. Developmental and prerequisite course requirements, credit load, and/or course availability may affect a student's individual progress. Students should consult their degree audit at MyCecil or an academic advisor for individual degree planning.

Fall I	(17 credits)
EGL 101	Freshman Composition
MAT 201	Calculus I with Analytical Geometry
PSY 101	Introduction to Psychology
EDU 101	Foundations of Education
EDU 102	Foundations of Education - Field Experience
SPH 141	Public Speaking
Spring I	**(16 credits)**
PHY 207	General Physics I with Lab
EGL 102	Composition and Literature
MAT 202	Calculus II with Analytic Geometry
PSY 207	Educational Psychology
EDU 207	Educational Psychology - Field Study
Fall II	**(17-18 credits)**
ACT	Activity Elective(s)
PSY 203	Child Growth and Development
MAT 203	Calculus II with Analytic Geometry
EDU 251	Introduction to Exceptional Children and Youth
EDU 253	Introduction to Exceptional Children and Youth - Field Study
PHY 208	General Physics II with Lab
Spring II	**(16-17 credits)**
SOC SCI	Social Science Elective
ACT	Activity Elective(s)
MAT 246	Introduction to Differential Equations
PHY 209	General Physics III with Lab
CHM 103 **and** CHM 113	General Chemistry I General Chemistry I Lab
PSC	General Physical Science with Lab Elective

Program Outcomes

Upon successful completion of this program, students will be able to:

- Identify major historical events in education and analyze the impact of those events with current educational trends
- Identify the policies, issues, trends, and historical events in the field of secondary education
- Identify the psychological, cognitive, emotional, and physical characteristics of typically developing children and adolescents, with specific consideration to disabilities and cultural and linguistic diversity
- Demonstrate progress toward mastery of the Maryland Technology Standards
- Identify the current and inclusive philosophies for differentiating instruction to analyze, improve, and facilitate instruction for diverse learners
- Demonstrate progress toward mastering the Interstate Teacher Assessment and Support Consortium (InTASC) Standards
- Demonstrate an understanding of the various components of physics and the ability to apply developmentally appropriate approaches to enhance children's learning and development
- Demonstrate proficiency in the application of mathematics through the level of general calculus physics III

Career Opportunities

Middle and high school teacher, research, curriculum and textbook review.

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Arts and Sciences Transfer – Aerospace Engineering Option

Award: Associate of Science
Degree Code: ASAE
Number of Credits: 67

Program Description

This program option prepares students to transfer to a four-year institution for continued study in aerospace engineering. Aerospace engineers design, develop, and test aircraft, spacecraft, and missiles and supervise the manufacture of these products. They are concerned with the thermal, mechanical and propulsion requirements of high-speed vehicles and projectiles. Students with a bachelor's degree in aerospace engineering may continue their education in graduate school, while others may enter industry.

The computer literacy requirement will be met throughout the course work in the degree program.

Transfer Information

Cecil College has articulation agreements with Maryland and regional institutions. Click on "Transfer Opportunities" in MyCecil under the Advising Tab for a list of transfer pathways. In addition, transfer information is available through ARTSYS (The Articulation System of Maryland). Contact your advisor for detailed information.

Required Courses

General Education and Program Requirements

Number	Title	Credits
ACT	Activity Electives	2
ARTS/HUM	Arts and Humanities Electives[1] [H]	3
CHM 103 **and** CHM 113	General Chemistry I [S] General Chemistry I Lab	3 1
EGL 101	Freshman Composition [E]	3
EGL 102	Composition and Literature [H]	3
MAT 201	Calculus I with Analytic Geometry [M]	4
MAT 202	Calculus II with Analytic Geometry [M]	4
MAT 203	Multivariable Calculus [M]	4
MAT 240	Introduction to Linear Algebra [M]	4
MAT 246	Introduction to Differential Equations [M]	3
PHE 201	Introduction to Engineering Design	3
PHE 211	Statics	3
PHE 213	Mechanics of Materials	3
PHE 221	Thermodynamics	3
PHY 207	General Physics I with Lab [SL]	5
PHY 208	General Physics II with Lab [SL]	5
PHY 209	General Physics III with Lab [SL]	5
SOC SCI	Social Science Electives[2] [SS]	6

[1] Selection may not include EGL designation.
[2] Courses must be from two different disciplines.

Recommended Sequence

The following is a recommended sequence of courses for completing this program as a full-time student. Developmental and prerequisite course requirements, credit load, and/or course availability may affect a student's individual progress. Students should consult their degree audit at MyCecil or an academic advisor for individual degree planning.

Fall I	(16 credits)
PHE 200	Introduction to Engineering Graphics*
MAT 201	Calculus I with Analytic Geometry
PHY 207	General Physics I with Lab
EGL 101	Freshman Composition
ACT	Activity Elective
Spring I	**(18 credits)**
MAT 202	Calculus II with Analytic Geometry
PHE 211	Statics
PHY 208	General Physics II with Lab
PHE 201	Introduction to Engineering Design
EGL 102	Composition and Literature
Summer I or II	**(5 credits)**
PHY 209	General Physics III with Lab
Fall II	**(15 credits)**
MAT 246	Introduction to Differential Equations
PHE 213	Mechanics of Materials
ARTS/HUM	Arts and Humanities Elective
PHE 221	Thermodynamics
SOC SCI	Social Science Elective
Spring II	**(16 credits)**
MAT 203	Multivariable Calculus
MAT 240	Introduction to Linear Algebra
CHM 103 **and** CHM 113	General Chemistry I General Chemistry I Lab
SOC SCI	Social Science Elective
ACT	Activity Elective

*PHE 200 is a pre-requisite to PHE 201.

Program Outcomes

Upon successful completion of this program, students will be able to:

- Apply knowledge of mathematics, science, and engineering
- Design and conduct experiments
- Conduct tests for chemical components or strength of materials
- Determine forces acting on a body
- Analyze and interpret data
- Apply the engineering design process
- Function on multidisciplinary teams
- Identify the professional and ethical responsibilities of engineers
- Identify, formulate, and solve engineering problems
- Use the techniques, skills, and modern engineering tools necessary for engineering practice
- Communicate in an effective and professional manner both verbally and in writing
- Demonstrate an understanding of kinematics of a particle and a rigid body
- Demonstrate an understanding of kinetics concerning force and acceleration, work and energy, impulse and momentum for a particle and a rigid body
- Demonstrate an understanding and application of force vectors
- Demonstrate an understanding of equilibrium of a particle and a rigid body
- Demonstrate an understanding of the basic concepts of thermodynamics
- Demonstrate an understanding of mass and energy balance analysis for closed and open systems
- Demonstrate an understanding of gas power cycles, vapor cycles, and combined power cycles
- Demonstrate an understanding of stress and strain
- Demonstrate an understanding of mechanical properties of materials
- Demonstrate an understanding of axial loading, torsion, bending and transverse shear
- Demonstrate an understanding of stress and strain transformations

Career Opportunities

Aerospace engineer, design engineer, test engineer in government, communications and space industries.

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Arts and Sciences Transfer – Chemical Engineering Option

Award: Associate of Science
Degree Code: ASCE
Number of Credits: 69

Program Description

This program option prepares students to transfer to a four-year institution for continued study in chemical engineering. Chemical engineers apply the principles of chemistry to solve problems involving the production or use of chemicals and biochemicals. They design equipment and processes for large-scale chemical manufacturing, plan and test methods of manufacturing products and treating byproducts, and supervise production. Students with a bachelor's degree in chemical engineering may continue their education in graduate school or may enter industry.

The computer literacy requirement will be met throughout the course work in the degree program.

Transfer Information

Cecil College has articulation agreements with Maryland and regional institutions. Click on "Transfer Opportunities" in MyCecil under the Advising Tab for a list of transfer pathways. In addition, transfer information is available through ARTSYS (The Articulation System of Maryland). Contact your advisor for detailed information.

Required Courses

General Education and Program Requirements

Number	Title	Credits
ACT	Activity Electives	2
ARTS/HUM	Arts and Humanities Electives[1] [H]	3
CHM 103 **and** CHM 113	General Chemistry I [S] General Chemistry I Lab	3 1
CHM 104 **and** CHM 114	General Chemistry II [S] General Chemistry II Lab	3 1
CHM 203	Organic Chemistry I with Lab	4
CHM 204	Organic Chemistry II with Lab	4
EGL 101	Freshman Composition [E]	3
EGL 102	Composition and Literature [H]	3
MAT 201	Calculus I with Analytic Geometry [M]	4
MAT 202	Calculus II with Analytic Geometry [M]	4
MAT 203	Multivariable Calculus [M]	4
MAT 246	Introduction to Differential Equations [M]	3
PHE 201	Introduction to Engineering Design	3
PHE 211	Statics	3
PHY 207	General Physics I with Lab [SL]	5
PHY 208	General Physics II with Lab [SL]	5
PHY 209	General Physics III with Lab [SL]	5
SOC SCI	Social Science Electives[2] [SS]	6

[1] Selection may not include EGL designation.
[2] Courses must be from two different disciplines.

Recommended Sequence

The following is a recommended sequence of courses for completing this program as a full-time student. Developmental and prerequisite course requirements, credit load, and/or course availability may affect a student's individual progress. Students should consult their degree audit at MyCecil or an academic advisor for individual degree planning.

Fall I	(17 credits)
PHE 200	Introduction to Engineering Graphics*
MAT 201	Calculus I with Analytic Geometry
CHM 103 **and** CHM 113	General Chemistry I General Chemistry I Lab
EGL 101	Freshman Composition
SOC SCI	Social Science Elective
Spring I	**(15 credits)**
CHM 104 **and** CHM 114	General Chemistry II General Chemistry II Lab
MAT 202	Calculus II with Analytic Geometry
PHE 201	Introduction to Engineering Design
EGL 102	Composition and Literature
ACT	Activity Elective
Fall II	**(18 credits)**
MAT 246	Introduction to Differential Equations
CHM 203	Organic Chemistry I with Lab
PHY 207	General Physics I with Lab
ARTS/HUM	Arts and Humanities Elective
SOC SCI	Social Science Elective
Spring II	**(17 credits)**
MAT 203	Multivariable Calculus
CHM 204	Organic Chemistry II with Lab
PHY 208	General Physics II with Lab
PHE 211	Statics
ACT	Activity Elective

*PHE 200 is a pre-requisite to PHE 201.

Program Outcomes

Upon successful completion of this program, students will be able to:

- Apply knowledge of mathematics, science, and engineering
- Design and conduct experiments
- Conduct tests for chemical components or strength of materials
- Determine forces acting on a body
- Analyze and interpret data
- Apply the engineering design process
- Function on multidisciplinary teams
- Identify the professional and ethical responsibilities of engineers
- Identify, formulate, and solve engineering problems
- Use the techniques, skills, and modern engineering tools necessary for engineering practice
- Communicate in an effective and professional manner both verbally and in writing
- Demonstrate an understanding of modern atomic theory, atomic structure, and the mole concept
- Write balanced chemical equations and solve equation stoichiometry problems
- Explain the trends of various atomic properties in the periodic table
- Demonstrate an understanding of the principles of chemical kinetics
- Demonstrate an understanding of the principles of chemical equilibrium
- Demonstrate an understanding of the bonding, structure, preparations, and reactions of organic compounds

Career Opportunities

Design engineer, process engineer, research and development in consumer products, chemical and pharmaceutical industries.

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Arts and Sciences Transfer – Civil Engineering Option

Award: Associate of Science
Degree Code: ASCN
Number of Credits: 66

Program Description

This program option prepares students to transfer to a four-year institution for civil engineering. Civil engineers design and supervise the construction of roads, buildings, airports, tunnels, dams, bridges, and water supply and sewage systems. They must consider many factors in the design process, from the construction costs and expected lifetime of a project to government regulations and potential environmental hazards such as earthquakes. Students with a bachelor's degree in civil engineering may continue their education in graduate school, while others may enter industry.

The computer literacy requirement will be met throughout the course work in the degree program.

Transfer Information

Cecil College has articulation agreements with Maryland and regional institutions. Click on "Transfer Opportunities" in MyCecil under the Advising Tab for a list of transfer pathways. In addition, transfer information is available through ARTSYS (The Articulation System of Maryland). Contact your advisor for detailed information.

Required Courses

General Education and Program Requirements

Number	Title	Credits
ACT	Activity Electives	2
ARTS/HUM	Arts and Humanities Electives[1] [H]	3
CHM 103 **and** CHM 113	General Chemistry I [S] General Chemistry I Lab	3 1
EGL 101	Freshman Composition [E]	3
EGL 102	Composition and Literature [H]	3
MAT 201	Calculus I with Analytic Geometry [M]	4
MAT 202	Calculus II with Analytic Geometry [M]	4
MAT 203	Multivariable Calculus [M]	4
MAT 246	Introduction to Differential Equations [M]	3
PHE 201	Introduction to Engineering Design	3
PHE 211	Statics	3
PHE 212	Dynamics	3
PHE 213	Mechanics of Materials	3
PHE 221	Thermodynamics	3
PHY 207	General Physics I with Lab [SL]	5
PHY 208	General Physics II with Lab [SL]	5
PHY 209	General Physics III with Lab [SL]	5
SOC SCI	Social Science Electives[2] [SS]	6

[1] Selection may not include EGL designation.
[2] Courses must be from two different disciplines.

Recommended Sequence

The following is a recommended sequence of courses for completing this program as a full-time student. Developmental and prerequisite course requirements, credit load, and/or course availability may affect a student's individual progress. Students should consult their degree audit at MyCecil or an academic advisor for individual degree planning.

Fall I	(16 credits)
PHE 200	Introduction to Engineering Graphics*
MAT 201	Calculus I with Analytic Geometry
PHY 207	General Physics I with Lab
EGL 101	Freshman Composition
ACT	Activity Elective
Spring I	**(15 credits)**
MAT 202	Calculus II with Analytic Geometry
PHY 208	General Physics II with Lab
PHE 201	Introduction to Engineering Design
EGL 102	Composition and Literature
Summer I or II	**(5 credits)**
PHY 209	General Physics III with Lab
Fall II	**(17 credits)**
MAT 203	Multivariable Calculus
PHE 211	Statics
SOC SCI	Social Science Elective
CHM 103 **and** CHM 113	General Chemistry I General Chemistry I Lab
PHE 221	Thermodynamics
Spring II	**(17 credits)**
MAT 246	Introduction to Differential Equations
ARTS/HUM	Arts and Humanities Elective
SOC SCI	Social Science Elective
ACT	Activity Elective
PHE 213	Mechanics of Materials
PHE 212	Dynamics

*PHE 200 is a pre-requisite to PHE 201.

Program Outcomes

Upon successful completion of this program, students will be able to:

- Demonstrate an understanding of kinematics of a particle and a rigid body
- Demonstrate an understanding of kinetics concerning force and acceleration, work and energy, impulse and momentum for a particle and a rigid body
- Demonstrate an understanding of, and application for, force vectors
- Demonstrate an understanding of equilibrium of a particle and a rigid body
- Demonstrate an understanding of the basic concepts of thermodynamics
- Demonstrate an understanding of mass and energy balance analysis for closed and open systems
- Demonstrate an understanding of gas power cycles, vapor cycles, and combined power cycles
- Demonstrate an understanding of stress and strain
- Demonstrate an understanding of mechanical properties of materials
- Demonstrate an understanding of axial loading, torsion, bending and transverse shear
- Demonstrate an understanding of stress and strain transformations
- Design and conduct experiments, as well as analyze and interpret data
- Apply the engineering design process
- Function on multidisciplinary teams
- Communicate in an effective and professional manner both verbally and in writing

Career Opportunities

Design engineer, structural engineer, project engineer in city, county and state government agencies, consulting firms and general contractors.

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Arts and Sciences Transfer – Computer Engineering Option

Award: Associate of Science
Degree Code: ASCP
Number of Credits: 70

Program Description

Computer Engineering is the field of study that combines computer science and electrical engineering. Computer engineers work in information technology and software development and function on multidisciplinary teams. Students with bachelor's degrees in computer engineering continue their education in graduate school or enter into the work force.

This program fulfills the College's computer literacy requirement through the outcomes and assessment of required courses.

Transfer Information

Cecil College has articulation agreements with Maryland and regional institutions. Click on "Transfer Opportunities" in MyCecil under the Advising Tab for a list of transfer pathways. In addition, transfer information is available through ARTSYS (The Articulation System of Maryland). Contact your advisor for detailed information.

Required Courses

General Education Requirements

Number	Title	Credits
ARTS/HUM	Arts and Humanities Electives[1] [H]	3
CHM 103 **and** CHM 113	General Chemistry I [S] General Chemistry I Lab	3 1
EGL 101	Freshman Composition [E]	3
EGL 102	Composition and Literature [H]	3
MAT 201	Calculus I with Analytic Geometry [M]	4
PHY 207	General Physics I with Lab [SL]	5
PHY 208	General Physics II with Lab [SL]	5
SOC SCI	Social Science Electives[2] [SS]	6

Program Requirements

Number	Title	Credits
ACT	Activity Electives	2
CSC 109	Introduction to Programming	3
CSC 205	Computer Science I	3
MAT 202	Calculus II with Analytic Geometry [M]	4
MAT 203	Multivariable Calculus [M]	4
MAT 236	Discrete Structures [M]	3
MAT 240	Introduction to Linear Algebra [M]	4
MAT 246	Introduction to Differential Equations [M]	3
PHE 285	Principles of Electric Circuits	4
PHE 201	Introduction to Engineering Design	3
PHE 225	Digital Electronics and Instrumentation	4

[1] Selection may not include EGL designation.
[2] Courses must be from two different disciplines.

Recommended Sequence

The following is a recommended sequence of courses for completing this program as a full-time student. Developmental and prerequisite course requirements, credit load, and/or course availability may affect a student's individual progress. Students should consult their degree audit at MyCecil or an academic advisor for individual degree planning.

Fall I	(18 credits)
CSC 109	Introduction to Programming
MAT 201	Calculus I with Analytic Geometry
PHE 200	Introduction to Engineering Graphics*
PHY 207	General Physics I with Lab
EGL 101	Freshman Composition
Spring I	**(19 credits)**
MAT 202	Calculus II with Analytic Geometry
PHY 208	General Physics II with Lab
PHE 201	Introduction to Engineering Design
EGL 102	Composition and Literature
SOC SCI	Social Science Elective
ACT	Activity Elective
Fall II	**(19 credits)**
CSC 205	Computer Science I
MAT 236	Discrete Structures
MAT 246	Introduction to Differential Equations
PHE 225	Digital Electronics and Instrumentation
ARTS/HUM	Arts and Humanities Elective
SOC SCI	Social Science Elective
Spring II	**(17 credits)**
MAT 240	Introduction to Linear Algebra
MAT 203	Multivariable Calculus
CHM 103 **and** CHM 113	General Chemistry I General Chemistry I Lab
PHE 285	Principles of Electric Circuits
ACT	Activity Elective

*PHE 200 is a pre-requisite to PHE 201.

Program Outcomes

Upon successful completion of this program, students will be able to:

- Apply knowledge of mathematics, science, and engineering
- Design and conduct experiments
- Conduct tests for chemical components or strength of materials
- Determine forces acting on a body
- Analyze and interpret data
- Apply the engineering design process
- Function on multidisciplinary teams
- Identify the professional and ethical responsibilities of engineers
- Identify, formulate, and solve engineering problems
- Use the techniques, skills, and modern engineering tools necessary for engineering practice
- Communicate in an effective and professional manner both verbally and in writing
- Demonstrate an understanding of units, engineering notations, and circuit terminology
- Demonstrate an understanding of Ohm's law, Kirchhoff's laws, and the Wye-Delta transformations
- Demonstrate an understanding of AC and DC circuit analysis
- Demonstrate an understanding of Laplace transform analysis technique
- Demonstrate an understanding of Boolean algebra and discrete combinational gates
- Analyze and design synchronous sequential circuits
- Demonstrate a basic understanding of computer programming

Career Opportunities

Software developer, programmer, software engineer, applications engineer.

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Arts and Sciences Transfer – Electrical Engineering Option

Award: Associate of Science
Degree Code: ASEE
Number of Credits: 70

Program Description

This program option prepares students to transfer to a four-year institution for continued study in electrical engineering. Electrical Engineering is the branch of engineering that focuses on designing and analyzing components and systems that utilize electrons and photons. Electrical engineers also work in information technology and software development and function on multidisciplinary teams. Students with a bachelor's degree in electrical engineering continue their education in graduate school or enter industry.

The computer literacy requirement will be met throughout the course work in the degree program.

Transfer Information

Cecil College has articulation agreements with Maryland and regional institutions. Click on "Transfer Opportunities" in MyCecil under the Advising Tab for a list of transfer pathways. In addition, transfer information is available through ARTSYS (The Articulation System of Maryland). Contact your advisor for detailed information.

Required Courses

General Education Requirements

Number	Title	Credits
ARTS/HUM	Arts and Humanities Electives[1] [H]	3
CHM 103 **and** CHM 113	General Chemistry I [S] General Chemistry I Lab	3 1
EGL 101	Freshman Composition [E]	3
EGL 102	Composition and Literature [H]	3
MAT 201	Calculus I with Analytic Geometry [M]	4
PHY 207	General Physics I with Lab [SL]	5
PHY 208	General Physics II with Lab [SL]	5
SOC SCI	Social Science Elective[2] [SS]	6

Program Requirements

Number	Title	Credits
CSC 109	Introduction to Programming	3
CSC 205	Computer Science I	3
MAT 202	Calculus II with Analytic Geometry [M]	3
MAT 203	Multivariable Calculus [M]	3
MAT 240	Introduction to Linear Algebra [M]	4
MAT 246	Introduction to Differential Equations [M]	3
PHE 201	Introduction to Engineering Design	3
PHE 225	Digital Electronics and Instrumentation	4
PHE 285	Principles of Electric Circuits	4
PHE 209	General Physics III with Lab [SL]	5

[1] Selection may not include EGL designation.
[2] Courses must be from two different disciplines.

Recommended Sequence

The following is a recommended sequence of courses for completing this program as a full-time student. Developmental and prerequisite course requirements, credit load, and/or course availability may affect a student's individual progress. Students should consult their degree audit at MyCecil or an academic advisor for individual degree planning.

Fall I	(18 credits)
CSC 109	Introduction to Programming
MAT 201	Calculus I with Analytic Geometry
PHE 200	Introduction to Engineering Graphics*
PHY 207	General Physics I with Lab
EGL 101	Freshman Composition
Spring I	**(15 credits)**
MAT 202	Calculus II with Analytic Geometry
PHY 208	General Physics II with Lab
PHE 201	Introduction to Engineering Design
EGL 102	Composition and Literature
Summer	**(5 credits)**
PHY 209	General Physics III with Lab
Fall II	**(16 credits)**
PHE 225	Digital Electronics and Instrumentation
CSC 205	Computer Science I
MAT 246	Introduction to Differential Equations
SOC SCI	Social Science Elective
ARTS/HUM	Arts and Humanities Elective
Spring II	**(19 credits)**
MAT 240	Introduction to Linear Algebra
MAT 203	Multivariable Calculus
PHE 285	Principles of Electric Circuits
CHM 103 **and** CHM 113	General Chemistry I General Chemistry I Lab
SOC SCI	Social Science Elective

*PHE 200 is a pre-requisite to PHE 201.

Program Outcomes

Upon successful completion of this program, students will be able to:

- Design and conduct experiments, as well as analyze and interpret data
- Understand and apply the engineering design process
- Function on multidisciplinary teams
- Demonstrate an understanding of units, engineering notations, and circuit terminology
- Demonstrate an understanding of Ohm's law, Kirchhoff's laws, and the Wye-Delta transformations
- Demonstrate an understanding of AC and DC circuit analysis
- Demonstrate an understanding of Laplace transform analysis technique
- Demonstrate an understanding of Boolean algebra and discrete combinational gates
- Analyze and design synchronous sequential circuits
- Communicate in an effective and professional manner both verbally and in writing

Career Opportunities

Network engineer, systems engineer, design engineer in public schools, power, consumer products and aerospace industries.

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Arts and Sciences Transfer – Mechanical Engineering Option

Award: Associate of Science
Degree Code: ASME
Number of Credits: 70

Program Description

This program option prepares students to transfer to a four-year institution for continued study in mechanical engineering. Mechanical engineering is one of the core engineering disciplines offering students a wide range of career choices in engineering practice and scientific research as well as non-engineering fields such as business, law or medicine. Students with a bachelor's degree in mechanical engineering may continue their education in graduate school or may enter industry.

The computer literacy requirement will be met throughout the course work in the degree program.

Transfer Information

Cecil College has articulation agreements with Maryland and regional institutions. Click on "Transfer Opportunities" in MyCecil under the Advising Tab for a list of transfer pathways. In addition, transfer information is available through ARTSYS (The Articulation System of Maryland). Contact your advisor for detailed information.

Required Courses

General Education and Program Requirements

Number	Title	Credits
ACT	Activity Electives	2
ARTS/HUM	Arts and Humanities Electives[1] [H]	3
CHM 103 **and** CHM 113	General Chemistry I [S] General Chemistry I Lab	3 1
CHM 104 **and** CHM 114	General Chemistry II [S] General Chemistry II Lab	3 1
EGL 101	Freshman Composition [E]	3
EGL 102	Composition and Literature [H]	3
MAT 201	Calculus I with Analytic Geometry [M]	4
MAT 202	Calculus II with Analytic Geometry [M]	3
MAT 203	Multivariable Calculus [M]	3
MAT 246	Introduction to Differential Equations [M]	3
PHE 201	Introduction to Engineering Design	3
PHE 211	Statics	3
PHE 212	Dynamics	3
PHE 213	Mechanics of Materials	3
PHE 221	Thermodynamics	3
PHY 207	General Physics I with Lab [SL]	5
PHY 208	General Physics II with Lab [SL]	5
PHY 209	General Physics III with Lab [SL]	5
SOC SCI	Social Science Electives[2] [SS]	6

[1] Selection may not include EGL designation.
[2] Courses must be from two different disciplines.

Recommended Sequence

The following is a recommended sequence of courses for completing this program as a full-time student. Developmental and prerequisite course requirements, credit load, and/or course availability may affect a student's individual progress. Students should consult their degree audit at MyCecil or an academic advisor for individual degree planning.

Fall I	(16-17 credits)
PHE 200	Introduction to Engineering Graphics*
MAT 201	Calculus I with Analytic Geometry
PHY 207	General Physics I with Lab
EGL 101	Freshman Composition
ACT	Activity Elective
Spring I	**(19 credits)**
MAT 202	Calculus II with Analytic Geometry
PHE 201	Introduction to Engineering Design
PHY 211	Statics
PHY 208	General Physics II with Lab
EGL 102	Composition and Literature
Summer I or II	**(5 credits)**
PHY 209	General Physics III with Lab
Fall II	**(16 credits)**
MAT 246	Introduction to Differential Equations
PHE 213	Mechanics of Materials
CHM 103 **and** CHM 113	General Chemistry I General Chemistry I Lab
PHE 221	Thermodynamics
SOC SCI	Social Science Elective
Spring II	**(18 credits)**
MAT 203	Multivariable Calculus
PHE 212	Dynamics
CHM 104 **and** CHM 114	General Chemistry I General Chemistry I Lab
SOC SCI	Social Science Elective
ARTS/HUM	Arts and Humanities Elective
ACT	Activity Elective(s)

*PHE 200 is a pre-requisite to PHE 201.

Program Outcomes

Upon successful completion of this program, students will be able to:

- Demonstrate an understanding of kinematics of a particle and a rigid body
- Demonstrate an understanding of kinetics concerning force and acceleration, work and energy, impulse and momentum for a particle and a rigid body
- Demonstrate an understanding of, and application for, force vectors
- Demonstrate an understanding of equilibrium of a particle and a rigid body
- Demonstrate an understanding of the basic concepts of thermodynamics
- Demonstrate an understanding of mass and energy balance analysis for closed and open systems
- Demonstrate an understanding of gas power cycles, vapor cycles, and combined power cycles
- Demonstrate an understanding of mechanical properties of materials
- Demonstrate an understanding of axial loading, torsion, bending and transverse shear
- Demonstrate an understanding of stress and strain transformations

Career Opportunities

Manufacturing engineer, production supervisor, field service engineer in the aerospace, pharmaceutical and consulting industries.

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Arts and Sciences Transfer – Environmental Science Option

Award: Associate of Science
Degree Code: ASES
Number of Credits: 65-68

Program Description

This program option offers a selection of biology, physical sciences and other related courses for students wishing to pursue a program of study in environmental science. This basic transfer program comprises the first two years of a baccalaureate degree in environmental science. This option will serve students entering the fields of: environmental earth sciences, environmental law, environmental chemistry, environmental policy, environmental engineering, environmental assessment, public affairs, waste management, environmental economics, environmental health, marine science, applied ecology, biodiversity, and conservation.

Transfer Information

Cecil College has articulation agreements with Maryland and regional institutions. Click on "Transfer Opportunities" in MyCecil under the Advising Tab for a list of transfer pathways. In addition, transfer information is available through ARTSYS (The Articulation System of Maryland). Contact your advisor for detailed information.

Required Courses

General Education and Program Requirements

Number	Title	Credits
ACT	Activity Electives	2
ARTS/HUM	Arts and Humanities Electives [H]	3
BIO 130 **and** BIO 131	Principles of Biology I [S] Principles of Biology I Lab	3 1
BIO 132 **and** BIO 133	Principles of Biology II [S] Principles of Biology II Lab	3 1
CHM 103 **and** CHM 113	General Chemistry I [S] General Chemistry I Lab	3 1
CHM 104 **and** CHM 114	General Chemistry II [S] General Chemistry II Lab	3 1
CIS 101	Introduction to Computer Concepts [I]	3
ECO 221 **or** ECO 222	Economics - Micro [SS] Economics - Macro [SS]	3
EGL 101	Freshman Composition [E]	3
EGL 102	Composition and Literature [H]	3
ENV 106 **and** ENV 116	Introduction to Environmental Science [S] Introduction to Environmental Science Lab	3 1
GEO 101	Physical Geography [SS]	3
MAT	Math Elective [M] (Select from MAT 121, 127, 128, 201 or 202)	8
MAT **or** SCI	Math Electives Science Electives[1]	6-8
PHY 181 **or** PHY 207	Introductory College Physics I with Lab [SL] General Physics I with Lab [SL]	4-5
PSC 120	Physical Geology [SL]	4
SPH 141	Public Speaking [H]	3

[1] Must be a 200 level course(s).

Recommended Sequence

The following is a recommended sequence of courses for completing this program as a full-time student. Developmental and prerequisite course requirements, credit load, and/or course availability may affect a student's individual progress. Students should consult their degree audit at MyCecil or an academic advisor for individual degree planning.

Fall I	(18 credits)
ENV 106 **and** ENV 116	Introduction to Environmental Science Introduction to Environmental Science Lab
EGL 101	Freshman Composition
BIO 130 **and** BIO 131	Principles of Biology I Principles of Biology I Lab
MAT	Math Elective (Select from MAT121, 127, 128, 201 or 202)
CIS 101	Introduction to Computer Concepts
Spring I	**(17 credits)**
EGL 102	Composition and Literature
MAT	Math Elective (Select from MAT121, 127, 128, 201 or 202)
BIO 132 **and** BIO 133	Principles of Biology II Principles of Biology II Lab
GEO 101	Physical Geography
SPH 141	Public Speaking
Fall II	**(16-18 credits)**
PHY 181 **or** PHY 207	Introductory College Physics I with Lab General Physics I with Lab
PSC 120	Physical Geology
ACT	Activity Elective(s)
ARTS/HUM	Arts and Humanities Elective
CHM 103 **and** CHM 113	General Chemistry I General Chemistry I Lab
Spring II	**(14-17 credits)**
ACT	Activity Elective(s)
MAT **or** SCI	Math Electives Science Electives
CHM 104 **and** CHM 114	General Chemistry II General Chemistry II Lab
ECO 221 **or** ECO 222	Economics - Micro Economics - Macro

Program Outcomes

Upon successful completion of this program, students will be able to:

- Apply principles and theories of Biology and Chemistry
- Collect, describe, and analyze data
- Communicate scientific information in a written and/or verbal format
- Utilize critical thinking whole problem solving
- Describe and utilize the techniques involved in conducting research
- Use basic laboratory instrumentation
- Demonstrate a general understanding of the breadth and interdisciplinary nature of environmental issues
- Understand the natural environment and its relationships with human activities
- Characterize and analyze human impacts on the environment
- Integrate facts, concepts, and methods from multiple disciplines and apply to environmental problems
- Acquire practical skills for scientific problem-solving, including familiarity with laboratory and field instrumentation, computer applications, statistical, and modeling techniques
- Understand and implement scientific research strategies, including collection, management, evaluation, and interpretation of environmental data

Career Opportunities

Field consultants, biologist, educator, research technician, communication outreach with government agencies, universities and non-profit organizations.

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Equine Studies

Award: Associate of Applied Science
Degree Code: AEQS
Number of Credits: 67-68

Program Description

This degree is designed for immediate employment or career mobility and recognizes a curricular focus in equine studies. Equine studies train you to become a professional in the horse industry with a firm foundation in stable management and health management with a hands-on, experience-based learning.

Transfer Information

Cecil College has articulation agreements with Maryland and regional institutions. Click on "Transfer Opportunities" in MyCecil under the Advising Tab for a list of transfer pathways. In addition, transfer information is available through ARTSYS (The Articulation System of Maryland). Contact your advisor for detailed information.

Required Courses

General Education and Program Requirements

Number	Title	Credits
ACT	Activity Electives	2
BIO	Biology Elective [S/SL]	4
BUS 103	Introduction to Business	3
CIS 101	Introduction to Computer Concepts [I]	3
EGL 101	Freshman Composition [E]	3
EGL 102 **or** EGL 211	Composition and Literature [H] Technical Writing	3
EQS	Equine Electives[1]	4
EQS 139	Introductory Basic Horse Handling	2
EQS 142	Introduction to Equine Care and Maintenance	3
EQS 144	Equine Nutrition and Feeding	3
EQS 145	Equine Health and Maintenance	3
EQS 146	Introductory Equine Field Study	2
EQS 148	Equine Anatomy and Physiology	3
EQS 241	Equine Facilities Management	3
EQS 242	Equine Reproduction, Evaluation and Selection	3
EQS 243	Business Management in the Horse Industry	3
EQS 245	Equine Pasture and Land Management	3
EQS 246	Advanced Equine Field Study	2
EQS 248	Equine Pathology	3
MAT	Math Elective [M]	3-4
PSY **or** SOC	Psychology Elective [SS] Sociology Elective [SS]	3
SPN 101	Beginning Spanish I [H]	3
SPH 121 **or** SPH 141	Interpersonal Communications [H] Public Speaking [H]	3

[1] Refer to the EQS courses listed under Course Descriptions, or contact an advisor for detailed information.

Recommended Sequence

The following is a recommended sequence of courses for completing this program as a full-time student. Developmental and prerequisite course requirements, credit load, and/or course availability may affect a student's individual progress. Students should consult their degree audit at MyCecil or an academic advisor for individual degree planning.

Fall I	(15-16 credits)
EGL 101	Freshman Composition
CIS 101	Introduction to Computer Concepts
BUS 103	Introduction to Business
EQS 139	Basic Horse Handling
EQS 142	Introduction to Equine Care and Maintenance
ACT	Activity Elective(s)
Spring I	**(18 credits)**
EGL 102 **or** EGL 211	Composition & Literature Technical Writing
BIO	Biology Elective
EQS 144	Equine Nutrition and Feeling
EQS 145	Equine Health Maintenance
EQS 146	Introductory Equine Field Study
EQS 148	Equine Anatomy and Physiology
Fall II	**(18-19 credits)**
ACT	Activity Elective
MAT	Math Elective
SPN 101	Beginning Spanish I
EQS 243	Business Management in the Horse Industry
EQS 246	Advanced Equine Field Study
EQS 248	Equine Pathology
PSY **or** SOC	Psychology Elective Sociology Elective
Spring II	**(17 credits)**
SPH 121 **or** SPH 141	Interpersonal Communications Public Speaking
EQS 241	Equine Facilities Management
EQS 242	Equine Reproduction, Evaluation and Selection
EQS 245	Equine Pasture and Land Management
EQS	Equine Electives

Program Outcomes

Upon successful completion of this program, students will be able to:

- Demonstrate competence, certainty, and self-assurance when working with horses
- Apply safe handling techniques, basic care and maintenance techniques, and basic first aid in working with horses
- Understand the skeletal, muscular, circulatory, respiratory, digestive, urinary, nervous, and endocrine systems of the horse
- Evaluate a horse's body condition, surroundings, work load, and other factors to develop a proper diet regimen for the best care of the horse
- Take equine vital signs and recognize symptoms of poor health, disease, and infection
- Demonstrate the skills necessary for basic horse care and the treatment and prevention of common horse ailments
- Understand conformation and selection of horses
- Apply pasture management techniques such as seeding, poisonous weed control, safe fertilization, and determining pasture rotation schedules
- Apply equine facilities management techniques for stable design, proper hay and grain storage, pasture and turn out options, and indoor/outdoor riding rings
- Apply skills learned regarding communication, regulation, marketing, staff management, and sales and service in running an equine business

Career Opportunities

Racing industry, veterinary technician, trainer, stable management, breeder, buyer, farrier, horse show manager.

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Exercise Sciences

Award: Associate of Science
Degree Code: ASET
Number of Credits: 60

Program Description

This program will prepare students to work in the exercise and rehabilitation fields. Students will complete introductory courses in the science of the human movement such as the physiological and functional adaptations to movement, exercise, fitness and wellness assessment, rehabilitation and nutrition. Successful completion prepares the student for their certification in personal training and to transfer to a bachelor's degree program in exercise science.

The computer literacy requirement will be met throughout the coursework in the degree program.

Transfer Information

Cecil College has articulation agreements with Maryland and regional institutions. Click on "Transfer Opportunities" in MyCecil under the Advising Tab for a list of transfer pathways. In addition, transfer information is available through ARTSYS (The Articulation System of Maryland). Contact your advisor for detailed information.

Required Courses

General Education Requirements

Number	Title	Credits
ARTS/HUM	Arts and Humanities[1] [H]	3
BIO 101 or BIO 130	General Biology [S] Principles of Biology [S]	3
BIO 111 or BIO 131	General Biology Lab Principles of Biology Lab	1
BIO 208	Human Anatomy and Physiology I [S]	3
BIO 218	Human Anatomy and Physiology I Lab	1
EGL 101	Freshman Composition [E]	3
EGL 102	Composition and Literature [H]	3
HEA 130	Healthful Living [I]	3
SOC 101	Introduction to Sociology [SS]	3
PSY 101	Introduction to Psychology [SS]	3
MAT 121 or MAT 127	Precalculus [M] Introduction to Statistics	4

Program Requirements

Number	Title	Credits
BUS 103	Introduction to Business	3
BIO 209	Human Anatomy and Physiology II [S]	3
BIO 219	Human Anatomy and Physiology II Lab	1
BIO 203	Nutrition	3
FWS 110	Fundamentals of Personal Training I	3
FWS 120	Fundamentals of Personal Training II	3
FWS 111	Fundamentals of Personal Training I Lab	1
FWS 121	Fundamentals of Personal Training II Lab	1
FWS 130	Essentials of Fitness Assessments	3
FWS 135	Physiology of Exercise	3
FWS 180	Special Populations Fitness Prescription	3
ELECT[2]	Program Elective	3

[1] Recommend SPH 141, Public Speaking; selection may not include EGL designation.
[2] Suggested program electives are PED 135, PED 180, PED 282, HEA 174, HCD 120 and HCD 170.

Recommended Sequence

The following is a recommended sequence of courses for completing this program as a full-time student. Developmental and prerequisite course requirements, credit load, and/or course availability may affect a student's individual progress. Students should consult their degree audit at MyCecil or an academic advisor for individual degree planning.

Fall I	(17 credits)
EGL 101	Freshman Composition
BIO 101 **and** BIO 111 **or** BIO 130 **and** BIO 131	General Biology General Biology Lab Principles of Biology I Principles of Biology I Lab
MAT 121 **or**	Precalculus
MAT 127	Introduction to Statistics
HEA 130	Healthful Living
SOC 101	Introduction to Sociology
Spring I	**(16 credits)**
EGL 102	Composition and Literature
PSY 101	Introduction to Psychology
BIO 208	Human Anatomy and Physiology I
BIO 218	Human Anatomy and Physiology I Lab
ARTS/HUM	Arts and Humanities Elective
ELECT	Program Elective
Fall II	**(14 credits)**
BIO 209	Human Anatomy and Physiology II
BIO 219	Human Anatomy and Physiology II Lab
BUS 103	Introduction to Business
FWS 110	Fundamentals of Personal Training I
FWS 111	Fundamentals of Personal Training I Lab
FWS 130	Essentials of Fitness Assessments
Spring II	**(13 credits)**
BIO 203	Nutrition
FWS 120	Fundamentals of Personal Training II
FWS 121	Fundamentals of Personal Training II Lab
FWS 135	Physiology of Exercise
FWS 180	Special Populations Fitness Prescription

Program Outcomes

Upon successful completion of this program, students will be able to:

- Identify risk factors associated with physical activity, contraindications to exercise testing and physical activity, and identify proper referral protocols and resources for various populations of varied prior medical histories
- Possess the knowledge and skills needed to successfully complete national industry leading certification exams (ACSM, ACE, NSCA, NASM)
- Display knowledge of the human body systems as well as understanding of the acute and chronic effects within the body resulting from physical activity, everyday repetitive motion and exercise
- Demonstrate professional demeanor and skills related to rapport building, interpersonal skills, professional integrity and responsibility, independent thinking and problem solving
- Assess, design, and implement safe and effective exercise prescriptions to improve health and performance
- Demonstrate an ability to modify exercise prescriptions for various populations and conditions

Career Opportunities

Coaching, assistant athletic director, community recreation specialist, sports marketing personal trainer, activities director, wellness specialist, exercise/fitness instructor, health and wellness educator.

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Fire Science Technology

Award: Associate of Applied Science
Degree Code: FSTR
Number of Credits: 60

Program Description

This program will prepare individuals for entry-level employment as fire fighters as well as provide the degree credential necessary for promotion and advancement of professionals currently employed with the fire service.

The computer literacy requirement will be met throughout the coursework in the degree program.

Transfer Information

Cecil College has articulation agreements with Maryland and regional institutions. Click on "Transfer Opportunities" in MyCecil under the Advising Tab for a list of transfer pathways. In addition, transfer information is available through ARTSYS (The Articulation System of Maryland). Contact your advisor for detailed information.

Required Courses

General Education and Program Requirements

Number	Title	Credits
BIO 101 **or** BIO 130	General Biology [S] Principles of Biology [S]	3
BIO 111 **or** BIO 131	General Biology Lab Principles of Biology Lab	1
BIO 208 **and** BIO 218	Human Anatomy and Physiology I [S] Human Anatomy and Physiology I Lab	3 1
BIO 209 **and** BIO 219	Human Anatomy and Physiology II [S] Human Anatomy and Physiology II Lab	3 1
EGL 101	Freshman Composition [E]	3
MAT 127	Introduction to Statistics [M]	4
PSY 101	Introduction to Psychology [SS]	3
SOC 101	Introduction to Sociology [SS]	3
SPH 121 **or**	Interpersonal Communications [H]	3
SPH 141	Public Speaking [H]	3

Required Occupational courses offered by Maryland Fire and Rescue Institute

Number	Title	Credits
ELECT	Elective	1
EMT 106	Emergency Medical Technician-Basics	7
FIR 101	Firefighter I	3
FIR 110	Fire Department Safety Officer	2
FIR 114	Aerial Operator	1
FIR 129	Incident Safety Officer	1
FIR 130	Emergency Vehicle Operator	2
FIR 200	Hazardous Materials Technician	2
FIR 201	Firefighter II	2
FIR 202	Truck Company Fireground Operations	1
FIR 203	Fire Officer I	2
FIR 204	Fire Inspector	4
FIR 206	Firefighter Safety and Survival	1
FIR 207	Fireground Operations	1
FIR 209	Rescue Technician Operations	1
FIR 210	Rescue Technician Extrication	1

Recommended Sequence

The following is a recommended sequence of courses for completing this program as a full-time student. Developmental and prerequisite course requirements, credit load, and/or course availability may affect a student's individual progress. Students should consult their degree audit at MyCecil or an academic advisor for individual degree planning.

Fall I	(14 credits)
EGL 101	Freshman Composition
BIO 101 **or** BIO 130	General Biology Principles of Biology
BIO 111 **or** BIO 131	General Biology Lab Principles of Biology Lab
PSY 101	Introduction to Psychology
MAT 127	Introduction to Statistics
Spring I	**(11 credits)**
BIO 208 **and** BIO 218	Human Anatomy and Physiology I Human Anatomy and Physiology I Lab
SPH 121 **or** SPH 141	Interpersonal Communications Public Speaking
SOC 101	Introduction to Sociology
ELECT	Elective
Fall II	**(4 credits)**
BIO 209 **and** BIO 219	Human Anatomy and Physiology II Human Anatomy and Physiology II Lab

Program Outcomes

Upon successful completion of this program, students will be able to:

- Demonstrate the entry level knowledge, communication skills, written and verbal, and the professional abilities associated with the field of fire science with the ability to incorporate field strategies and tactics associated with various fire situations and to effectively operate a fire pumper or aerial apparatus
- Demonstrate the ability to function as a fire officer within a fire service program, including the ability to perform effectively as a safety officer on the scene of an emergency, to recognize and mitigate various hazardous materials situations and to work with a team to perform fire suppression techniques specific to the incident while maintaining a full situational awareness to rescue, HAZMAT, investigation, and safety issues
- Work effectively within the organizational structure of a company and manage a company level training program
- Demonstrate an understanding and incorporate into their practice the laws and ordinances related to fire prevention
- Provide field management of a patient at the EMT level

Career Opportunities

Firefighting, disaster planning, emergency services, fire inspection, fire investigation, fire safety.

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General Studies

Award: Associate of Arts
Degree Code: GSAD
Number of Credits: 63-65

Program Description

This program is designed for students who want maximum flexibility in their choice of courses. The program provides a core background in the humanities, mathematics, computer science, science, and social sciences. Beyond meeting general education state requirements, the program offers students an opportunity to design, in cooperation with an academic advisor, a series of courses for exploring career opportunities, achieving personal goals, or meeting transfer requirements. By using the ARTSYS computerized transfer program, available in Student Enrollment and Support Services through an advisor or at www.artsys.usmd.edu, students can design a program of studies that will transfer seamlessly to an upper division college or university of choice.

The General Studies Associate of Arts degree may be earned through courses offered in an on-line format.

Transfer Information

Cecil College has articulation agreements with Maryland and regional institutions. Click on "Transfer Opportunities" in MyCecil under the Advising Tab for a list of transfer pathways. In addition, transfer information is available through ARTSYS (The Articulation System of Maryland). Contact your advisor for detailed information.

Required Courses

General Education and Program Requirements

Number	Title	Credits
ACT	Activity Electives	2
ARTS/HUM	Arts and Humanities Electives[1] [H]	6
CIS 101	Introduction to Computer Concepts [I]	3
EGL 101	Freshman Composition [E]	3
EGL 102	Composition and Literature [H]	3
ELECT	Electives[2]	21
HEA	Health Elective	3
HST	History Elective [H]	3
MAT	Math Elective [M]	3-4
SCI	Science Elective/Science Elective with Lab[3] [S/SL]	7-8
SOC SCI	Social Science Electives[4] [SS]	6
SPH 141	Public Speaking [H]	3

[1] One course must have an ART designation; the other course must be from a discipline other than ART.
[2] Refer to the list of courses under Course Descriptions, or contact an advisor for detailed information. Note: Physical activity credits earned beyond the two credits required may not be used as ELECT credits to satisfy graduation requirements.
[3] One course must have a BIO designation; the other course must have a designation of AST, CHM, ENV, PSC, or PHY. At least one of the courses must include a lab.
[4] Courses must be from two different disciplines.

Recommended Sequence

The following is a recommended sequence of courses for completing this program as a full-time student. Developmental and prerequisite course requirements, credit load, and/or course availability may affect a student's individual progress. Students should consult their degree audit at MyCecil or an academic advisor for individual degree planning.

Fall I	(16-18 credits)
EGL 101	Freshman Composition
CIS 101	Introduction to Computer Concepts
MAT	Math Elective
HEA	Health Elective
SOC SCI	Social Science Elective
ACT	Activity Elective(s)
Spring I	**(16-18 credits)**
EGL 102	Composition and Literature
SCI	Science Elective/Science Elective with Lab
ARTS/HUM	Arts and Humanities Elective
SPH 141	Public Speaking
SOC SCI	Social Science Elective
ACT	Activity Elective(s)
Fall II	**(16 credits)**
ELECT	Program Elective
ELECT	Program Elective
ELECT	Program Elective
SCI	Science Elective/Science Elective with Lab
ARTS/HUM	Arts and Humanities Elective
Spring II	**(15 credits)**
ELECT	Program Elective
ELECT	Program Elective
ELECT	Program Elective
ELECT	Program Elective
HST	History Elective

Program Outcomes

Upon successful completion of this program, students will be able to:

- Demonstrate college-level competency in critical and creative thinking skills and problem solving strategies
- Identify, categorize and distinguish among elements of ideas, concepts, theories and/or practical approaches to standard problems
- Identify, categorize, and evaluate multiple information resources
- Demonstrate accurate and effective explanatory writing skills
- Demonstrate the ability to make effective use of writing-related computer technology
- Locate, collect, and organize evidence on research topics
- Apply citation standards for multiple information resources
- Analyze, evaluate, and/or criticize various academic disciplines and/or regional/national/global issues
- Demonstrate effective public speaking skills and an ability to evaluate their own public speaking skills
- Demonstrate an understanding of mathematical principles and methods
- Demonstrate the ability to perform accurate calculations and symbolic operations
- Demonstrate the ability to determine or calculate the solution to a problem through the use of computer technology
- Demonstrate college-level competency in computer literacy and in the ability to work productively with information technology
- Demonstrate an awareness of ethical behavior
- Demonstrate an understanding of cultural diversity
- Demonstrate an understanding of, and appreciation for, artistic expression
- Demonstrate an understanding of, and appreciation for, health and wellness issues
- Demonstrate an understanding of, and appreciation for, the physical and social environment

Additional Outcomes – Area of Concentration in English
Upon successful completion of this concentration, students will also be able to:

- Analyze texts critically
- Place literary works in their historical and cultural contexts
- Approach texts with knowledge of various disciplines within and outside of the humanities
- Write informatively, analytically, and persuasively
- Conduct research in literature, composition, and related fields
- Effectively integrate source materials as evidence and context
- Use existing and emerging technologies effectively
- Present ideas coherently, in both writing and in speech

Additional Outcomes – Area of Concentration in Foreign Languages
Upon successful completion of this concentration, students will also be able to:

- Demonstrate proficiency in reading, writing, speaking and listening to the specific language studied
- Demonstrate comprehension based on authentic written materials
- Accurately explain the meanings of language terms
- Accurately and fluently present oral information, concepts, and ideas in a cohesive manner
- Interpret how political, social, economic, geographic, and/or linguistic factors influence components of the target culture
- Analyze the significance of artifacts created within the target culture as contributions made to the history of humanity
- Identify a diverse range of literature in their historical, social and political contexts
- Apply critical thinking to interpret literary texts

Additional Outcomes – Area of Concentration in History
Upon successful completion of this concentration, students will also be able to:

- Demonstrate a basic knowledge of the history of the United States, Europe, and one other geographic region (Africa, Asia, or Latin America)
- Demonstrate a detailed knowledge of the history of the specific chronological or thematic areas they choose to study
- Write a historical research paper and support it with historical evidence
- Evaluate historical evidence in a variety of primary and secondary sources
- Assess the significance of events, ideas, or artifacts in their historical context
- Distinguish cause and effect and recognize multiple causalities in history
- Recognize and evaluate different historical interpretations

Additional Outcomes – Area of Concentration in Philosophy
Upon successful completion of this concentration, students will also be able to:

- Demonstrate knowledge of major figures in Philosophy
- Demonstrate knowledge of major branches in Philosophy
- Demonstrate knowledge of terminology particular to a branch or tradition within philosophy
- Express philosophical ideas effectively
- Construct philosophical arguments
- Analyze arguments in philosophical discourse
- Identify underlying presuppositions of a philosopher's argumentative discourse
- Raise questions and frame philosophical problems introduced by texts

Additional Outcomes – Area of Concentration in Political Science
Upon successful completion of this concentration, students will also be able to:

- Demonstrate competency with the conceptual frameworks of political science generally
- Demonstrate competency with conceptual frameworks of American politics and Government
- Demonstrate competency with conceptual frameworks of comparative politics and government
- Demonstrate the ability to conduct research
- Demonstrate an understanding of leadership qualities
- Assess the ethical issues associated with decisions in public affairs

Additional Outcomes – Area of Concentration in Sociology
Upon successful completion of this concentration, students will also be able to:

- Apply scientific methodology to the study of sociology
- Evaluate the quality of quantitative and qualitative research in sociology
- Demonstrate familiarity with the major concepts, theories, and theorists in sociology
- Apply sociological theories and methods to real world situations
- Conceptualize the diversity of today's society and in our past
- Recognize the vastness of human diversity

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Arts and Sciences Transfer – Physical Science Option – Geology

Award: Associate of Science
Degree Code: ASGE
Number of Credits: 65

Program Description

This program option prepares students to transfer to a four-year institution for continued study in geology. Geologists apply techniques from many different scientific disciplines in search of new sources of energy-producing materials, additional reserves of mineral resources, and hidden quantities of ground water.

The computer literacy requirement will be met throughout the course work in the degree program.

Transfer Information

Cecil College has articulation agreements with Maryland and regional institutions. Click on "Transfer Opportunities" in MyCecil under the Advising Tab for a list of transfer pathways. In addition, transfer information is available through ARTSYS (The Articulation System of Maryland). Contact your advisor for detailed information.

Required Courses

General Education Requirements

Number	Title	Credits
ACT	Activity Electives	2
ARTS/HUM	Arts and Humanities Electives[1] [H]	3
CHM 103 **and** CHM 113	General Chemistry I [S] General Chemistry I with Lab	3 1
CHM 104 **and** CHM 114	General Chemistry II [S] General Chemistry II with Lab	3 1
PHY 207	General Physics I with Lab [SL]	5
EGL 101	Freshman Composition [E]	3
EGL 102	Composition and Literature [H]	3
MAT 127	Introduction to Statistics [M]	4
SOC SCI	Social Science Electives[2] [SS]	6

Program Requirements

Number	Title	Credits
GEN ED	General Education Electives	3
MAT 201	Calculus I with Analytic Geometry [M]	4
MAT 202	Calculus II with Analytic Geometry [M]	4
PHY 208	General Physics II with Lab [SL]	4
PSC 120	Physical Geology [SL]	4
PSC 135	Introduction to Climate Science with Lab [SL]	4
PSC 140 **or** ENV 106 **and** ENV 116	Introduction to Ocean Studies with Lab [SL] Introduction to Environmental Science [S] Environmental Science Lab	3 3 1
SPH 121 **or** SPH 141	Interpersonal Communications [H] Public Speaking [H]	3

[1] Selection may not include EGL designation.
[2] Courses must be from two different disciplines.

Recommended Sequence

The following is a recommended sequence of courses for completing this program as a full-time student. Developmental and prerequisite course requirements, credit load, and/or course availability may affect a student's individual progress. Students should consult their degree audit at MyCecil or an academic advisor for individual degree planning.

Fall I	(17 credits)
CHM 103 **and** CHM 113	General Chemistry I General Chemistry I Lab
PSC 135	Introduction to Climate Studies with Lab
EGL 101	Freshman Composition
SOC SCI	Social Science Elective
SPH 121 **or** SPH 141	Interpersonal Communications Public Speaking
Spring I	**(16-17 credits)**
MAT 201	Calculus I with Analytic Geometry
CHM 104 **and** CHM 114	General Chemistry II General Chemistry II Lab
PSC 140 **or** ENV 106 **and** ENV 116	Introduction to Ocean Studies with Lab Introduction to Environmental Science Introduction to Environmental Science Lab
EGL 102	Composition and Literature
ACT	Activity Elective(s)
Fall II	**(15-16 credits)**
MAT 202	Calculus II with Analytic Geometry
PHY 207	General Physics I with Lab
SOC SCI	Social Science Elective
GEN ED	General Education Elective
Spring II	**(17 credits)**
MAT 127	Introduction to Statistics
PHY 208	General Physics II with Lab
PSC 120	Physical Geology
ART/HUM	Arts and Humanities Elective
ACT	Activity Elective

Program Outcomes

Upon successful completion of this program, students will be able to:

- Demonstrate a general understanding of the breadth and interdisciplinary nature of the fields included in the physical sciences
- Understand the physical environment and its relationships with human activities
- Apply chemical, mathematical, and physical principles to the study of climate, oceans and meteorology
- Demonstrate an understanding of scientific method, data collection and analysis, use of laboratory and field instrumentation, computer applications, statistical and modeling techniques
- Apply principles and theories of geologic analysis to identify and categorize the earth's physical structures
- Utilize critical thinking to examine geologic phenomena
- Describe the development of the earth's formative processes
- Identify, collect, and analyze data
- Use basic field and laboratory instrumentation to perform calculations, tests, and techniques involved in conducting geological research
- Communicate scientific information in a written and/or verbal format

Career Opportunities

Mining industry, oil and natural gas industry, mapping sub-surfaces, water resource management, geographer, environmentalist, hydrographer, metallurgist, seismologist.

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Government Contracting

Award: Associate of Science
Degree Code: GOVR
Number of Credits: 60

Program Description

This program prepares individuals to work within the government procurement environment and/or transfer to a four year institution. This includes career opportunities with the federal government as well as the private sector.

Transfer Information

Cecil College has articulation agreements with Maryland and regional institutions. Click on "Transfer Opportunities" in MyCecil under the Advising Tab for a list of transfer pathways. In addition, transfer information is available through ARTSYS (The Articulation System of Maryland). Contact your advisor for detailed information.

Required Courses

General Education Requirements

Number	Title	Credits
EGL 101	Freshman Composition [E]	3
EGL 211	Technical Writing	3
MAT 125 **or**	Applied Calculus [M]	4
MAT 127	Introduction to Statistics [M]	4
CIS 101	Introduction to Computer Concepts [I]	3
ECO 221	Economics - Micro [SS]	3
ECO 222	Economics - Macro [SS]	3
HST 101	Western Civilization [H]	3
SCI	Science Electives [S/SL]	8
SPH 141	Public Speaking [H]	3

Program Requirements

Number	Title	Credits
BUS 108	Principles of Purchasing	3
BUS 131	Principles of Management	3
BUS 231	Management of Human Resources	3
PRO 110	Procurement and Acquisitions I	3
PRO 120	Principles of Pricing	3
PRO 121	Legal Issues in Government Procurement	3
PRO 210	Procurement and Acquisitions II	3
PRO 220	Pricing and Contract Integration	3
PRO 230	Procurement Contract Negotiations	3

Recommended Sequence

The following is a recommended sequence of courses for completing this program as a full-time student. Developmental and prerequisite course requirements, credit load, and/or course availability may affect a student's individual progress. Students should consult their degree audit at MyCecil or an academic advisor for individual degree planning.

Fall I	(16 credits)
BUS 108	Principles of Purchasing
CIS 101	Introduction to Computer Concepts
EGL 101	Freshman Composition
SCI	Lab Science
SPH 141	Public Speaking
Spring I	**(17 credits)**
BUS 131	Principles of Management
ECO 222	Economics - Macro
EGL 211	Technical Writing
MAT 125 **or**	Applied Calculus
MAT 127	Introduction to Statistics
SCI	Lab Science
Fall II	**(15 credits)**
ECO 221	Economics - Micro
HST 101	Western Civilization I
PRO 110	Procurement and Acquisition I
PRO 120	Principles of Pricing
PRO 121	Legal Issues in Government Contracting
Spring II	**(12 credits)**
BUS 231	Management of Human Resources
PRO 210	Procurement and Acquisitions II
PRO 220	Pricing and Contract Integration
PRO 230	Procurement Contract Negotiations

Program Outcomes

Upon successful completion of this program, students will be able to:

- Identify and explain the phases of the federal purchasing process including inventory control, price determination, vendor selection, negotiation techniques, and simplified acquisition procedures
- Identify and explain federal acquisition processes, practices, and management including regulations, policies, socioeconomic goals, contract types, contract solicitations, awards, and administration
- Apply industry standard personnel concepts from recruitment through termination consistent with labor laws and standards

Career Opportunities

Potential careers include, but are not limited to contract intern, procurement analyst, procurement assistant, contracts manager, subcontracts manager, contracting officer, contract administrator, contract negotiator, and contract price/cost analyst.

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Visual Communications – Graphic Design and Multimedia Option

Award: Associate of Applied Science
Degree Code: VGDZ
Number of Credits: 67-68

Program Description

The Visual Communications Graphic Design and Multimedia degree prepares students for initial employment and career advancement, or transfer to four-year colleges. Employment responsibilities in these areas include: graphic design with computer design software, Website design with animation abilities, development of layout and production design of advertising for newspapers and magazines, and the overall layout and production of signage, newspapers, magazines, corporate reports, and other publications. Increasingly, graphic designers develop material for Internet Web pages, interactive media, and multimedia projects.

The computer literacy requirement will be met throughout the course work in the degree program.

Transfer Information

Cecil College has articulation agreements with Maryland and regional institutions. Click on "Transfer Opportunities" in MyCecil under the Advising Tab for a list of transfer pathways. In addition, transfer information is available through ARTSYS (The Articulation System of Maryland). Contact your advisor for detailed information.

Required Courses

General Education Requirements

Number	Title	Credits
ACT	Activity Electives	2
ARTS/HUM	Arts and Humanities Elective[1] [H]	3
EGL 101	Freshman Composition [E]	3
EGL 102	Composition and Literature [H]	3
GEN ED	General Education Elective	3
MAT	Math Elective [M]	3-4
SCI	Lab Science Elective[2] [SL]	4
SOC SCI	Social Science Elective [SS]	3

Program Requirements

Number	Title	Credits
VCP	Visual Communications Elective	4
VCP 101	Photography I	4
VCP 111	Studio Photography I	4
VCP 116	Digital Imaging I	2
VCP 117	Digital Imaging II	2
VCP 118	Digital Imaging III	4
VCP 119	Digital Imaging IV	4
VCP 210	Video Production I	4
VCP 230	Graphic Design Studio	4
VCP 136	Multimedia Production I	4
VCP 144	Web Design I	3
VCP 279 or VCP 289	Professional Portfolio Production Internship I	4

[1] ART 101 recommended
[2] PHY 103 or PSC 105 recommended

Recommended Sequence

The following is a recommended sequence of courses for completing this program as a full-time student. Developmental and prerequisite course requirements, credit load, and/or course availability may affect a student's individual progress. Students should consult their degree audit at MyCecil or an academic advisor for individual degree planning.

Fall I	(17 credits)
EGL 101	Freshman Composition
VCP 144	Web Design I
SOC SCI	Social Science Elective
VCP 101	Photography I
VCP 116	Digital Imaging I
VCP 117	Digital Imaging II
Spring I	**(18-19 credits)**
VCP 111	Studio Photography I
VCP 118	Digital Imaging III
VCP 210	Video Production I
EGL 102	Composition and Literature
MAT	Math Elective
Fall II	**(16-17 credits)**
VCP 119	Digital Imaging IV
VCP	Visual Communications Elective
GEN ED	General Education Elective
SCI	Lab Science Elective
ACT	Activity Elective(s)
Spring II	**(16 credits)**
VCP 230	Graphic Design Studio
VCP 136	Multimedia Production I
VCP 279 or VCP 289	Professional Portfolio Production Internship I
ACT	Activity Elective
ARTS/HUM	Arts and Humanities Elective

Program Outcomes

Upon successful completion of this program, students will be able to:

- Use the basic tools and techniques of a visual communicator
- Communicate in an effective and professional manner both verbally and in writing with the ability to incorporate critique recommendations in revising their work
- Demonstrate the ability to meet deadlines
- Use computer and related technology in the execution of visual communications projects
- Demonstrate knowledge of the elements and principles of design
- Produce a body of work demonstrating the ability to solve visual communications problems
- Market themselves using their portfolio and visual communications skills
- Demonstrate an understanding of tools and technology, including their roles in the creation, reproduction, and distribution of graphic designs
- Use relevant tools and technologies including use of 2D and 3D software applications such as modeling, animation, illustration, video, sound, photography, print and web authoring programs
- Demonstrate knowledge of the elements and principles of design, color theory, and their application to graphic designs
- Produce a portfolio demonstrating the ability to solve graphic design problems

Career Opportunities

Graphic designer, graphic design assistant, graphic artist, layout and production technician.

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Health Information Technology

Award: Associate of Applied Science
Degree Code: HITD
Number of Credits: 60

Program Description

The Associate of Applied Science in Health Information Technology will offer students, who currently hold a national certification as a Medical Coder and/or have five years' experience as a coder, the opportunity to prepare for a career in the ever-changing world of health care information technology. Students will be prepared to work in various areas of health information technology such as: verifying accurate completion of medical records; data management; and use of computer applications to assess and analyze patient data and health care costs. Upon successful completion of this program, students are eligible to take the Registered Health Information Technician Certification offered through the American Health Information Management Association.

Transfer Information

Cecil College has articulation agreements with Maryland and regional institutions. Click on "Transfer Opportunities" in MyCecil under the Advising Tab for a list of transfer pathways. In addition, transfer information is available through ARTSYS (The Articulation System of Maryland). Contact your advisor for detailed information.

Required Courses

General Education Requirements

Number	Title	Credits
ARTS/HUM	Arts/Humanities Elective [H]	3
BIO 208 **and** BIO 218	Human Anatomy and Physiology I [S] Human Anatomy and Physiology I Lab	3 1
BIO 209 **and** BIO 219	Human Anatomy and Physiology II [S] Human Anatomy and Physiology II Lab	3 1
EGL 101	Freshman Composition [E]	3
MAT 127	Introduction to Statistics [M]	4
PSY 101 **or** SOC 101	Introduction to Psychology [SS] Introduction to Sociology [SS]	3 1

Program Requirements

Number	Title	Credits
EGL 211	Technical Writing	3
ELECT	Healthcare Portfolio/Credential Assessment	12
HCD 124	Health Information Technology	3
HCD 150	Social Media in Healthcare	3
HCD 161	Application: Electronic Medical Records	1
HCD 232	Introduction to Clinical Pharmacology	3
HCD 261	Application: Health Information Technology	2
HCD 270 **or** PHI 270	Ethical Issues in Healthcare Ethical Issues in Healthcare	3
VCP 144	Web Design I – Design Fundamentals	3
VCP 244	Web Design II – Advanced Design	3

Recommended Sequence

The following is a recommended sequence of courses for completing this program as a full-time student. Developmental and prerequisite course requirements, credit load, and/or course availability may affect a student's individual progress. Students should consult their degree audit at MyCecil or an academic advisor for individual degree planning.

Fall I	(14 credits)
EGL 101	Freshman Composition
BIO 208 **and** BIO 218	Human Anatomy and Physiology I Human Anatomy and Physiology I Lab
MAT 127	Introduction to Statistics
PSY 101 **or** SOC 101	Introduction to Psychology Introduction to Sociology
Spring I	**(14 credits)**
EGL 211	Technical Writing
BIO 209 **and** BIO 219	Human Anatomy and Physiology II Human Anatomy and Physiology II Lab
HCD 124	Health Information Technology
HCD 161	Application: Electronic Medical Records
HCD 150	Social Media in Healthcare
Fall II	**(14 credits)**
ARTS/HUM	Arts/Humanities Elective
CSC 163	Database Design Principles
HCD 232	Introduction to Clinical Pharmacology
HCD 261	Application: Health Information Technology
HCD 270 **or** PHI 270	Ethical Issues in Healthcare Ethical Issues in Healthcare
Spring II	**(18 credits)**
ELECT	Healthcare Portfolio/Credential Assessment
VCP 144	Web Design I – Design Fundamentals
VCP 244	Web Design II – Advanced Design

Program Outcomes

Upon successful completion of this program, students will be able to:

- Develop skills necessary to utilize health information technology for knowledge management and compliance with legal and regulatory requirements
- Identify issues related to the implementation of the electronic health record
- Describe key legal, regulatory, and ethical issues related to the utilization of health information technology
- Recognize the language, terminology, ontology, acronyms, coding, and classification systems of healthcare and health informatics
- Utilize databases and spreadsheets to consolidate, manipulate, integrate, and display health data
- Apply information technology to improve healthcare quality, safety, and effectiveness
- Upon successful completion of this program, students are eligible to take the Registered Health Information Technician Certification offered through the American Health Information Management Association

Career Opportunities

Individuals with a passion for information technology and health sciences can build on their experience and knowledge in Coding by completing an Associate of Science in Health Information Technology. According to the Bureau of Labor Statistics, the number of health information technician jobs is expected to increase 15% through 2024. Medical records and health information technicians, commonly referred to as health information technicians, organize and manage health information data. They ensure that the information maintains its quality, accuracy, accessibility, and security in both paper files and electronic systems. Various classification systems are used to code and categorize patient information for insurance reimbursement purposes, for databases and registries, and to maintain patients' medical and treatment histories.

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Healthcare Sciences

Award: Associate of Science
Degree Code: HCSR
Number of Credits: 60

Program Description

The Associate of Science in Healthcare Sciences may offer students, who currently hold a designated national certification in a field of Healthcare, a flexible degree program designed to provide a sound base of foundational credit coursework and additional career specific studies and/or competencies in a healthcare discipline. Through a combination of general education requirements, core electives, specific healthcare career education studies, credential assessment and/or portfolio review, graduates are prepared to enter the healthcare workforce in a selected discipline. Submission of credential assessment request is required. Credential assessment is approved by the Dean of Nursing and Health Professions.

Transfer Information

Cecil College has articulation agreements with Maryland and regional institutions. Click on "Transfer Opportunities" in MyCecil under the Advising Tab for a list of transfer pathways. In addition, transfer information is available through ARTSYS (The Articulation System of Maryland). Contact your advisor for detailed information.

Required Courses

General Education Requirements

Number	Title	Credits
BIO 101 **and**	General Biology [S]	3
BIO 111	General Biology Lab	1
BIO 208 **and**	Human Anatomy and Physiology I [S]	3
BIO 218	Human Anatomy and Physiology I Lab	1
BIO 209 **and**	Human Anatomy and Physiology II [S]	3
BIO 219	Human Anatomy and Physiology II Lab	1
EGL 101	Freshman Composition [E]	3
EGL 102	Composition and Literature [H]	3
MAT	Math Elective[1] [M]	3
SOC 101	Introcudtion of Sociology [SS]	3
SPH 121 **or**	Interpersonal Communications [H]	3
SPH 141	Public Speaking [H]	
PSY 101	Introduction to Psychology [SS]	3
PSY 201	Human Growth and Development [SS]	3

Program Requirements

Number	Title	Credits
CIS 101	Introduction to Computer Concepts [I]	3
HCD 120	Medical Terminology	3
HCD 150 **or**	Healthcare and Social Media	3
HCD 270	Ethical Issues in Healthcare	
HEA 130	Healthful Living [I]	3
ELECT	Math, Science, Healthcare or Business Elective[2]	3
ELECT	Credential Assessment	12

[1] Any general education Mathematics, level 121 or higher, will be accepted.

[2]Suggested Math, Science or Business Electives – MAT 127, ACC 101, ACC 102, BUS 108, ACC 103, ACC 104, ENV 106, ENV 116, BIO 200, BIO 210, BIO 203, BIO 206, BIO 216, CHM 102, CHM 103, CHM 113, PHY 103, PHY 181, PHY 207.

Recommended Sequence

The following is a recommended sequence of courses for completing this program as a full-time student. Developmental and prerequisite course requirements, credit load, and/or course availability may affect a student's individual progress. Students should consult their degree audit at MyCecil or an academic advisor for individual degree planning.

Fall I	(16 credits)
EGL 101	Freshman Composition
CIS 101	Introduction to Computer Concepts
HCD 120	Medical Terminology
BIO 101 **and** BIO 111	General Biology General Biology Lab
SPH 121 **or** SPH 141	Interpersonal Communications Public Speaking
Spring I	**(16 credits)**
EGL 102	Composition and Literature
BIO 208 **and** BIO 218	Human Anatomy and Physiology I Human Anatomy and Physiology I Lab
HEA 130	Healthful Living
MAT	Math Elective
PSY 101	Introduction to Psychology
Fall II	**(13 credits)**
PSY 201	Human Growth and Development
SOC 101	Introduction to Sociology
BIO 209 **and** BIO 219	Human Anatomy and Physiology II Human Anatomy and Physiology II Lab
HCD 150 **or** HCD 270	Healthcare and Social Media Ethical Issues in Healthcare
HCD 270	Ethical Issues in Healthcare
Spring II	**(15 credits)**
ELECT	Credential Assessment
ELECT	Math, Science, Healthcare or Business Elective

Program Outcomes

Upon successful completion of this program, students will be able to:

- Demonstrate the entry level knowledge, and written and verbal communication skills and abilities associated with many disciplines within the field of health care
- Apply a discipline specific skill set to a wider range of opportunities within the field of health care
- Transfer to a baccalaureate program of study in the field of health care

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Horticultural Science

Award: Associate of Applied Science
Degree Code: HTSS
Number of Credits: 60

Program Description

This program option offers a selection of science and horticultural courses for students wishing to pursue a career or transfer to programs in horticultural sciences and plant biology. This program will serve students interested in the fields of nursery production, greenhouses, landscape construction and contracting, and plant sciences. Consult your advisor or program director for specific course choices related to transfer options.

Transfer Information

Cecil College has articulation agreements with Maryland and regional institutions. Click on "Transfer Opportunities" in MyCecil under the Advising Tab for a list of transfer pathways. In addition, transfer information is available through ARTSYS (The Articulation System of Maryland). Contact your advisor for detailed information.

Required Courses

General Education Requirements

Number	Title	Credits
BIO 101 **and** BIO 111 **or** BIO 130 **and** BIO 131	General Biology [S] General Biology Lab Principles of Biology I [S] Principles of Biology I Lab	3 1 3 1
CIS 101	Introduction to Computer Concepts [I]	3
CHM 103 **and** CHM 113	General Chemistry I [S] General Chemistry I Lab	3 1
EGL 101	Freshman Composition [E]	3
MAT	Math Elective [M] (Select from MAT 121, 127, 128 or 201)	3-4
SOC SCI	Social Science Elective [SS]	3
SPH 121 **or** SPH 141	Interpersonal Communications [H] Public Speaking [H]	3

Program Requirements

Number	Title	Credits
BIO 104 **and** BIO 114	Botany: Introduction to Horticulture [S] Botany: Introduction to Horticulture Lab	3 1
BUS[1]	Elective	3
ELECT	Choose from BIO, ENV, VCP or PHE electives	5
HCS 152 **and** HCS 142	Soils and Fertilizers Soils and Fertilizers Lab	3 1
HCS 153	Landscape Construction and Maintenance	3
HCS 154	Botanical Garden Studies	3
HCS 155	Woody Plants Identification I	2
HCS 156	Herbaceous Plants Identification I	2
HCS 160	Woody Plants Identification II	2
HSC 253	Introduction to Landscape Design	3
HCS 161	Herbaceous Plants Identifiction II	2
SPN 101	Beginning Spanish I [H]	3

[1] Refer to the BUS courses listed under Course Descriptions, or contact an advisor for detailed information.

Recommended Sequence

The following is a recommended sequence of courses for completing this program as a full-time student. Developmental and prerequisite course requirements, credit load, and/or course availability may affect a student's individual progress. Students should consult their degree audit at MyCecil or an academic advisor for individual degree planning.

Fall I	(17 credits)
BIO 101 **and** BIO 111 **or**	General Biology General Biology Lab
BIO 130 **and** BIO 131	Principles of Biology Principles of Biology Lab
CIS 101	Introduction to Computer Concepts
EGL 101	Freshman Composition
MAT	Math Elective (Select from MAT 121, 127, 128 or 201)
SPH 121 **or**	Interpersonal Communications
SPH 141	Public Speaking
Spring I	**(15 credits)**
CHM 103 **and**	General Chemistry I
CHM 113	General Chemistry I Lab
HCS 152	Soils and Fertilizers
HSC 142	Soils and Fertilizers Lab
HCS 153	Landscape Construction and Maintenance
HCS 156	Herbaceous Plants Identification I
HCS 155	Woody Plants Identification I
Fall II	**(15 credits)**
BIO 104	Botany: Introduction to Horticulture
BIO 114	Botany: Introduction to Horticulture Lab
BUS	Business Elective
ELECT	Choose from BIO, ENV, VCP or PHE Electives
SPN 101	Beginning Spanish I
Spring II	**(13 credits)**
HCS 154	Botanical Garden Studies
HCS 160	Woody Plants Identification II
HCS 161	Herbaceous Plants II
HSC 253	Introduction to Landscape Design
SOC SCI	Social Science Elective

Note: Based on the results of the skills assessments, students will be allowed to register for college-level or developmental courses.

Program Outcomes

Upon successful completion of this program, students will be able to:

- Demonstrate an understanding of the classification, structure, reproduction, and propagation of plants
- Demonstrate an understanding of cultural conditions necessary to support plants and distinguish between appropriate plant choices for sun and shade and various landscape uses
- Identify plants which are native, non-native, and invasive in the Mid-Atlantic Region
- Demonstrate an understanding of the composition, fertility, and biology of soil
- Demonstrate an understanding of the classification of soils, plant nutrients and soil microorganisms
- Use tools and technology for evaluating the nutrient content of the soil and identify organic and inorganic supplements for amending soil structure
- Demonstrate an understanding of the diversity of materials, equipment, preparations, and methods of installation used in landscape construction
- Use basic skills for estimating and completing a landscape assignment, and identify the financial and legal business concerns involved in a landscaping assignment

Career Opportunities

Landscape technician, state extension specialist, sales representative, educator, business owner.

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Supply Chain Management

Award: Associate of Applied Science
Degree Code: TLSR
Number of Credits: 60

Program Description

The Supply Chain Management Program is designed for students interested in working for a federal, state, or local government agency. This program is customized to meet the critical workforce needs of these agencies. Beyond the classroom, students will be afforded the full range of support services by the College.

Transfer Information

Cecil College has an articulation agreement with the University of Delaware. Students satisfactorily completing the Associate of Applied Science – Supply Chain Management Option degree at Cecil College are guaranteed admission to the University of Delaware's Supply Chain Management program. Contact your advisor for detailed information.

Required Courses

General Education Requirements

Number	Title	Credits
BIO or ENV	Biology Science Elective with Lab [S] Environmental Science Elective with Lab [S]	4
CIS 101	Introduction to Computer Concepts [I]	3
ECO 222	Economics - Macro [SS]	3
EGL 101	Freshman Composition [E]	3
HUM	Humanities Elective [H]	3
SOC SCI	Social Science Elective [SS]	3
SPH 141	Interpersonal Communications [H]	3

Program Requirements

Number	Title	Credits
ACC 101	Accounting I	3
ACC 102	Accounting II	3
BUS 103	Introduction to Business	3
ECO 221	Economics - Micro [SS]	3
ELECT	Elective	2
MAT 127	Introduction to Statistics [M]	4
MAT 128	Introduction to Statistics II [M]	4
MAT 201	Calculus I with Analytic Geometry [M]	4
TRL 101	Introduction to Logistics	3
TRL 107	Supply Chain Management	3
TRL 130	Production and Operations Management	3
TRL 230	Product Lifecycle Management	3

Recommended Sequence

The following is a recommended sequence of courses for completing this program as a full-time student. Developmental and prerequisite course requirements, credit load, and/or course availability may affect a student's individual progress. Students should consult their degree audit at MyCecil or an academic advisor for individual degree planning.

Fall I	(16 credits)
BIO or ENV	Biology Science Elective with Lab Environmental Science Elective with Lab
ACC 101	Accounting I
BUS 103	Introduction to Business
CIS 101	Introduction to Computer Concepts
EGL 101	Freshman Composition
Spring I	**(16 credits)**
ACC 102	Accounting II
ECO 222	Economics - Macro
MAT 127	Introduction to Statistics
SPH 141	Public Speaking
TRL 101	Introduction to Logistics
Fall II	**(13 credits)**
ECO 221	Economics - Micro
ELECT	Elective
MAT 128	Introduction to Statistics II
SOC SCI	Social Science Elective
TRL 107	Supply Chain Management
Spring II	**(15 credits)**
HUM	Humanities Elective
MAT 201	Calculus I with Analytic Geometry
TRL 130	Production and Operations Management
TRL 230	Product Lifecycle Management

Program Outcomes

Upon successful completion of this program, students will be able to:

- Demonstrate an understanding of the concepts and practices used in financial accounting
- Demonstrate an understanding of the major functional areas of business and our economic systems including management, human resources, marketing, production, and operations and information
- Use multiple operating systems commonly found in the information technology field
- Apply skills learned in the planning and management of material flows and related information in both public and private sector organizations
- Apply a total systems approach to managing activities involved in physically moving raw materials, inventory, and finished goods from the point of origin to point of use or consumption
- Demonstrate an understanding of the translation of product and service requirements into facilities, procedures, and operating organizations
- Apply the processes of managing the entire lifecycle of a product from its conception, design and manufacture, to its service and disposal

Career Opportunities

Logistics management, supply management, transportation management, operations management and many other logistics related specialties.

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Transportation and Logistics – Transportation Management Option

Award: Associate of Applied Science
Degree Code: TLTZ
Number of Credits: 67

Program Description

This program option is specifically designed for those individuals who are working or who wish to pursue a career in transportation and management of transportation systems. When coupled with a degree from one of our four-year partners, students will have even greater opportunity and earning potential.

Transfer Information

Cecil College has articulation agreements with Maryland and regional institutions. Click on "Transfer Opportunities" in MyCecil under the Advising Tab for a list of transfer pathways. In addition, transfer information is available through ARTSYS (The Articulation System of Maryland). Contact your advisor for detailed information.

Required Courses

General Education Requirements

Number	Title	Credits
ACT	Activity Electives	2
CIS 101	Introduction to Computer Concepts [I]	3
ECO 222	Economics - Macro [SS]	3
EGL 101	Freshman Composition [E]	3
EGL 211	Technical Writing	3
MAT 127	Introduction to Statistics [M]	4
PSC 105	General Physical Science with Lab [SL]	4
SPH 121	Interpersonal Communications [H]	3

Program Requirements

Number	Title	Credits
BUS or GIS or TRL or	Business Elective[1] Geographic Information Systems Elective[1] Transportation and Logistics Elective[1]	3
BUS 103	Introduction to Business	3
BUS 108	Principles of Purchasing	3
BUS 131	Principles of Management	3
ACC 104	Managerial Accounting	3
BUS 187	Business Ethics	3
BUS 210	Business Law	3
BUS 212	Principles of Marketing	3
BUS 231	Management of Human Resources	3
CBWEP	BUS-College Based Work Experience Program[2]	3
TRL 101	Introduction to Logistics	3
TRL 110	Transportation and Warehousing	3
TRL 130	Production and Operations Management	3

[1] Refer to the BUS, GIS, and TRL courses listed under Course Descriptions, or contact an advisor for detailed information.
[2] Refer to BUS 273 for more information, or contact an advisor. The student must contact the CBWEP administrator one semester prior to enrolling for this course.

Recommended Sequence

The following is a recommended sequence of courses for completing this program as a full-time student. Developmental and prerequisite course requirements, credit load, and/or course availability may affect a student's individual progress. Students should consult their degree audit at MyCecil or an academic advisor for individual degree planning.

Fall I	(17-18 credits)
EGL 101	Freshman Composition
MAT 127	Introduction to Statistics
TRL 101	Introduction to Logistics
BUS 108	Principles of Purchasing
BUS 103	Introduction to Business
ACT	Activity Elective(s)
Spring I	**(18 credits)**
CIS 101	Introduction to Computer Concepts
TRL 130	Production and Operations Management
BUS 131	Principles of Management
EGL 211	Technical Writing
BUS 210	Business Law
TRL 110	Transportation and Warehousing
Fall II	**(17 credits)**
BUS or GIS or TRL	Business Elective Geographic Information Systems Elective Transportation and Logistics Elective
PSC 105	General Physical Science with Lab
ECO 222	Economics - Macro
ACT	Activity Elective
CBWEP	BUS-College Based Work Experience Program
Spring II	**(15 credits)**
BUS 212	Principles of Marketing
BUS 231	Management of Human Resources
BUS 187	Business Ethics
ACC 104	Managerial Accounting
SPH 121	Interpersonal Communications

Program Outcomes

Upon successful completion of this program, students will be able to:

- Analyze and discuss transportation management issues from a system-level perspective
- Compare and evaluate transportation systems
- Identify and discuss key elements of the public transportation policy environment
- Demonstrate a basic understanding of commonly used information technology applications used by the transportation industry
- Apply basic computational, statistical and quantitative reasoning skills in collecting, analyzing, and interpreting numerical information
- Utilize verbal communication skills to engage an audience
- Evaluate transportation problems and effectively develop and present actionable solutions

Career Opportunities

Transportation manager, route planner, physical distribution manager, distribution planning analyst, transportation marketer and operations manager.

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Mathematics

Award: Associate of Science
Degree Code: ASMR
Number of Credits: 60

Program Description

This program option prepares students to transfer to a four-year institution for continued study in mathematics, and/or mathematics education. As technology increases, the level of mathematics in the job market also increases.

A two-year degree in mathematics gives students analytical skills that are valued in industry. A four-year degree in mathematics opens doors in many areas not traditionally thought of as mathematical. Business, industry, and government hire people who earn a bachelor's degree in mathematics to provide support services involving analysis modeling or scientific computing. Some students with a bachelor's degree in mathematics continue their education in graduate school, while others enter the teaching profession. The computer literacy requirement will be met throughout the course work in the degree program.

Transfer Information

Cecil College has articulation agreements with Maryland and regional institutions. Click on "Transfer Opportunities" in MyCecil under the Advising Tab for a list of transfer pathways. In addition, transfer information is available through ARTSYS (The Articulation System of Maryland). Contact your advisor for detailed information.

Required Courses

General Education and Program Requirements

Number	Title	Credits
ARTS/HUM	Arts and Humanities Electives[1]	6
EGL 101	Freshman Composition [E]	3
EGL 102	Composition and Literature [H]	3
GEN	General Electives	5
MAT 127	Introduction to Statistics [M]	4
MAT 201	Calculus I with Analytic Geometry [M]	4
MAT 202	Calculus II with Analytic Geometry [M]	4
MAT 203	Multivariable Calculus [M]	4
MAT 240	Introduction to Linear Algebra [M]	4
MAT 246	Introduction to Differential Equations [M]	3
PHY 207	General Physics I with Lab [SL]	5
PHY 208	General Physics II with Lab [SL]	5
SCI	Science Elective with Lab [SL]	4
SOC SCI	Social Science Electives[2] [SS]	6

[1] Selection may not include EGL designation.
[2] Courses must be from two different disciplines.

Recommended Sequence

The following is a recommended sequence of courses for completing this program as a full-time student. Developmental and prerequisite course requirements, credit load, and/or course availability may affect a student's individual progress. Students should consult their degree audit at MyCecil or an academic advisor for individual degree planning.

Fall I	(14 credits)
EGL 101	Freshman Composition
MAT 201	Calculus I with Analytic Geometry
SOC SCI	Social Science Elective
SCI	Science Elective with Lab
Spring I	**(16 credits)**
EGL 102	Composition and Literature
PHY 207	General Physics I with Lab
MAT 127	Introduction to Statistics
MAT 202	Calculus II with Analytic Geometry
Fall II	**(17-18 credits)**
MAT 203	Multivariable Calculus
MAT 240	Introduction to Linear Algebra
PHY 208	General Physics II with Lab
ARTS/HUM	Arts and Humanities Elective
Spring II	**(15 credits)**
MAT 246	Introduction to Differential Equations
SOC SCI	Social Science Elective
GEN ED	General Education Electives
ARTS/HUM	Arts and Humanities Elective

Program Outcomes

Upon successful completion of this program, students will be able to:

- Effectively use technology, such as Maple and TI-Calculators, to assist in the solving of problems and presentation of results
- Communicate math effectively both orally and in writing
- Find limits, derivatives and integrals of algebraic and transcendental functions and use them to solve problems
- Use the techniques of integration to solve problems, express curves in parametric and polar form, and express functions as a Taylor series
- Use vectors in 2-, 3-, and higher dimensions in multiple settings, describe curves of surfaces in space, take the limits of functions of several variables, calculate partial derivatives, evaluate multiple integrals to calculate areas, volumes, masses and centers of mass for standard plane regions and solids, compute and apply line integrals, Green's Theorem, and Stokes Theorem
- Analyze and solve first and second order differential equations, both linear and nonlinear, and systems of differential equations using methods such as phase portraits, slope fields, separation of variables, substitution, Laplace transforms, series representations and eigenvalues, and apply these methods in mathematical modeling
- Perform matrix algebra, describe vectors and vector spaces, compute determinants, eigenvalues and eigenvectors, understand projections, utilize linear transformations, and solve systems of linear equations
- Solve problems involving measures of central tendency, measures of variation, graphical representations of data, least squares regression, correlation, probability, probability distributions, sampling techniques, parameter estimation, and hypothesis testing

Career Opportunities

Actuary, applied mathematician, educator, statistician, computer programming, financial analyst, economist.

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Arts and Sciences Transfer – Physical Science Option – Meteorology

Award: Associate of Science
Degree Code: ASMT
Number of Credits: 65

Program Description

This program option prepares students to transfer to a four-year institution for continued study in meteorology. Meteorologists work at deciphering and predicting the behavior of weather, climate change and improving models of weather prediction. The computer literacy requirement will be met throughout the course work in the degree program.

Transfer Information

Cecil College has articulation agreements with Maryland and regional institutions. Click on "Transfer Opportunities" in MyCecil under the Advising Tab for a list of transfer pathways. In addition, transfer information is available through ARTSYS (The Articulation System of Maryland). Contact your advisor for detailed information.

Required Courses

General Education and Program Requirements

Number	Title	Credits
ACT	Activity Electives	2
ARTS/HUM	Arts and Humanities Electives[1]	3
CHM 103 and CHM 113	General Chemistry I [S] General Chemistry I Lab	3 1
EGL 101	Freshman Composition [E]	3
EGL 102	Composition and Literature [H]	3
GEN ED	General Education Electives	3
MAT 127	Introduction to Statistics [M]	4
MAT 201	Calculus I with Analytic Geometry [M]	4
MAT 202	Calculus II with Analytic Geometry [M]	4
MAT 203	Multivariable Calculus [M]	4
MAT 246	Introduction to Differential Equations [M]	3
PHY 207	General Physics I with Lab [SL]	5
PHY 208	General Physics II with Lab [SL]	5
PSC 135	Introduction to Climate Science with Lab [SL]	4
PSC 140	Introduction to Ocean Studies with Lab [SL]	4
PSC 220	Meteorology [SL]	4
SOC SCI	Social Science Electives[2] [SS]	6

[1] Selection may not include EGL designation.
[2] Courses must be from two different disciplines.

Recommended Sequence

The following is a recommended sequence of courses for completing this program as a full-time student. Developmental and prerequisite course requirements, credit load, and/or course availability may affect a student's individual progress. Students should consult their degree audit at MyCecil or an academic advisor for individual degree planning.

Fall I	(15 credits)
CHM 103 and CHM 113	General Chemistry I General Chemistry I Lab
EGL 101	Freshman Composition
MAT 201	Calculus I with Analytic Geometry
PSC 140	Introduction to Ocean Studies with Lab
Spring I	**(15-16 credits)**
MAT 127	Introduction to Statistics
MAT 202	Calculus II with Analytic Geometry
GEN ED	General Education Elective
EGL 102	Composition and Literature
PSC 135	Introduction to Climate Science with Lab
Fall II	**(15 credits)**
MAT 203	Multivariable Calculus
PHY 207	General Physics I with Lab
ART/HUM	Arts and Humanities Elective
SOC SCI	Social Science Elective
ACT	Activity Elective(s)
Spring II	**(16 credits)**
MAT 246	Introduction to Differential Equations
PHY 208	General Physics II with Lab
PSC 220	Meteorology
SOC SCI	Social Science Elective
ACT	Activity Elective

Program Outcomes

Upon successful completion of this program, students will be able to:

- Demonstrate a general understanding of the breadth and interdisciplinary nature of the fields included in the physical sciences
- Understand the physical environment and its relationships with human activities
- Apply chemical, mathematical, and physical principles to the study of climate, oceans and meteorology
- Demonstrate an understanding of scientific method, data collection and analysis, use of laboratory and field instrumentation, computer applications, statistical and modeling techniques
- Apply principles and theories of math, physics, chemistry and environmental studies to the study of meteorology
- Integrate concepts of local and global climate as well as ocean studies to their relationship with weather phenomena
- Utilize critical thinking to identify, collect and analyze data
- Perform calculations, tests and techniques involved in the conduction of meteorological research
- Use basic field and laboratory instrumentation
- Communicate scientific information in a written and/or verbal format

Career Opportunities

Government agencies, military, education, broadcasting, consulting, NOAA, NASA, atmospheric research.

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Music

Award: Associate of Applied Science
Degree Code: APMM
Number of Credits: 60

Program Description

The performing arts program provides students with functional experience and practical career skills as a foundation for applied technique and performance in a specific discipline concentration. The music concentration provides solid training in classical and/or contemporary techniques with participation in music ensemble performances every semester. This program helps students to prepare for transfer to a four-year institution, internships, employment or career advancement in the areas of performance, education, administration and production. This is accomplished in an open access, optimal learning environment for students' educational, cultural, and economic development.

Transfer Information

Cecil College has articulation agreements with Maryland and regional institutions. Click on "Transfer Opportunities" in MyCecil under the Advising Tab for a list of transfer pathways. In addition, transfer information is available through ARTSYS (The Articulation System of Maryland). Contact your advisor for detailed information.

Required Courses

General Education Requirements

Number	Title	Credits
EGL 101	Freshman Composition [E]	3
MAT	Math Elective [M]	3-4
MUC 128	Introduction to Audio Technology [I]	3
SCI	Science Electives [S/SL]	7-8
SOC SCI	Social Science Electives [SS]	6

Choose two classes from the following options (6 credits):

Number	Title	Credits
MUC 122 or	Music Appreciation [H]	3
MUC 135 or	History of Rock [H]	3
MUC 136 or	Survey of World Music [H]	3
MUC 104 or	Guitar Fundamentals [H]	3
MUC 143 or	Music Fundamentals [H]	3
MUC 151	Film Music [H]	3

Program Requirements

Number	Title	Credits
MUC	Ensemble Electives[1]	8
MUC 102	Piano Class I	1
MUC 114	Piano Class II	1
MUC 110	Music Theory & Musicianship I	4
MUC 111	Music Theory & Musicianship II	4
MUC 210	Music Theory & Musicianship III	4
MUC 211	Music Theory & Musicianship IV	4
MUL	Music Lesson Electives[2]	8
ART /DAN /MUC /MUL /THE /VCP	Music, Theatre, Dance, Fine Arts, or VCP Electives[3]	8

[1] Electives include Chamber Choir, Chamber Ensemble, Band/Orchestra, or other approved elective. Please see current Cecil College course schedule for available courses or contact the music faculty for more information.

[2] Electives include individual lessons in Voice, Piano, String Instruments, Woodwind Instruments, Brass Instruments, Percussion/Drums, Guitar, Classical Guitar, Jazz Guitar, Songwriting/Composition or other approved elective. Please see current Cecil College course schedule for available courses or contact the music faculty for more information.

[3] Please see current Cecil College course schedule for available courses or contact the music faculty for more information.

Recommended Sequence

The following is a recommended sequence of courses for completing this program as a full-time student. Developmental and prerequisite course requirements, credit load, and/or course availability may affect a student's individual progress. Students should consult their degree audit at MyCecil or an academic advisor for individual degree planning.

Fall I	(14 credits)
EGL 101	Freshman Composition
MUC 122 or MUC 135 or MUC 136 or MUC 104 or MUC 143 or MUC 151 or	Music Appreciation History of Rock Survey of World Music Guitar Fundamentals Music Fundamentals Film Music
MUC 102	Piano Class I
MUC 110	Music Theory and Musicianship I
Spring I	**(15 credits)**
MAT	Math Elective
MUC 128	Introduction to Audio Technology
MUC 114	Piano Class II
MUC 111	Music Theory & Musicianship II
ART/DAN/ MUC/MUL/ THE/VCP	Music, Theatre, Dance, Fine Arts, or VCP Electives
Fall II	**(16 credits)**
MUC 210	Music Theory & Musicianship III
MUC	Ensemble Electives
MUL	Music Lesson Electives
SCI	Science Elective with Lab
Spring II	**(15 credits)**
SOC SCI	Social Science Elective
MUC 211	Music Theory & Musicianship IV
MUC	Ensemble Electives
MUL	Music Lesson Electives

Program Outcomes

Upon successful completion of this program, students will be able to:

- Demonstrate proficiency at the intermediate level on their main instrument or vocal part
- Demonstrate an understanding of the basic principles of tonal harmony
- Demonstrate functional proficiency in aural theory (ear training) and sight singing
- Demonstrate proper use of basic hardware and software tools of music technology

Career Opportunities

Education, performance, composing and arranging, conducting, music therapy, recording industry and communications.

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Arts and Sciences Transfer – Performing Arts Option – Music/Voice

Award: Associate of Arts
Degree Code: APAV
Number of Credits: 69

Program Description

The music program provides students with performing experience, practical career skills, and applied technique as a foundation for advancement in music. Solid training in classical and/or contemporary techniques is given in individual lessons with participation in music ensemble performances every semester. This program helps students to prepare for transfer to a four-year institution, internships, and employment or career advancement in the areas of performance, education, administration and production. This is accomplished in an open access, optimal learning environment for students' educational, cultural, and economic development.

Transfer Information

Cecil College has articulation agreements with Maryland and regional institutions. Click on "Transfer Opportunities" in MyCecil under the Advising Tab for a list of transfer pathways. In addition, transfer information is available through ARTSYS (The Articulation System of Maryland). Contact your advisor for detailed information.

Required Courses

General Education Requirements

Number	Title	Credits
ARTS/HUM	Arts & Humanities Elective [H] (Choose from ART or THE disciplines)[1]	3
EGL 101	Freshman Composition [E]	3
EGL 102	Composition and Literature [H]	3
MAT	Math Elective [M]	3
MUC 128	Introduction to Audio Technology [I]	3
MUC 122 or MUC 135 or MUC 136 or MUC 104 or MUC 143	Music Appreciation [H] History of Rock [H] Survey of World Music [H] Guitar Class [H] Music Fundamentals [H]	3
SCI	Science Electives [S/SL][2]	7
SOC SCI	Social Science Electives [SS][3]	6

Program Requirements

Number	Title	Credits
MUC 110	Music Theory & Musicianship I	4
MUC 111	Music Theory & Musicianship II	4
MUC 210	Music Theory & Musicianship III	4
MUC 211	Music Theory & Musicianship IV	4
MUC 102	Piano Class I	1
MUC 114	Piano Class II	1
MUC 263	Diction for Singers I (Eng./Ital.)	2
MUC 264	Diction for Singers II (Fr./Ger.)	2
MUL	Voice Individual Music Lessons	8
MUC	Chamber Choir	8

[1] See current Cecil College Catalog for approved General Education courses in this category or contact the music faculty for more information.
[2] Courses must be from two different disciplines. At least one course must include a corresponding lab.
[3] Courses must be from two different disciplines.

Recommended Sequence

The following is a recommended sequence of courses for completing this program as a full-time student. Developmental and prerequisite course requirements, credit load, and/or course availability may affect a student's individual progress. Students should consult their degree audit at MyCecil or an academic advisor for individual degree planning.

Fall I	(15 credits)
MUC 110	Music Theory and Musicianship I
MUC 102	Piano Class I
MUC 124	Chamber Choir I
MUC 160	Voice I Individual Lessons
MUC 161	Voice II Individual Lessons
EGL 101	Freshman Composition
ARTS/HUM	Arts and Humanities Elective (ART or THE disciplines)
Spring I	**(15 credits)**
MUC 111	Music Theory and Musicianship II
MUC 114	Piano Class II
MUC 125	Chamber Choir II
MUC 128	Introduction to Audio Technology
MUL 163	Voice III Individual Lessons
MUL 164	Voice IV Individual Lessons
EGL 102	Composition and Literature
Summer I	**(6 credits)**
MAT	Math Elective
SCI	Science Elective
Fall II	**(16 credits)**
MUC 210	Music Theory and Musicianship III
MUC 224	Chamber Choir III
MUC 263	Diction for Singers I (Eng./Ital.)
MUL 260	Voice V Individual Lessons
MUL 261	Voice VI Individual Lessons
SOC SCI	Social Science Elective
Spring II	**(17 credits)**
MUC 211	Music Theory and Musicianship IV
MUC 225	Chamber Choir IV
MUC 264	Diction for Singers II (Fr./Ger.)
MUL 263	Voice VII Individual Lessons
MUL 264	Voice VIII Individual Lessons
SCI	Science Elective
SOC SCI	Social Science Elective

Program Outcomes

Upon successful completion of this program, students will be able to:

- Demonstrate proficiency at the intermediate level on their main instrument or vocal part
- Demonstrate an understanding of the basic principles of tonal harmony
- Demonstrate functional proficiency in aural theory (ear training) and sight singing
- Demonstrate proper use of basic hardware and software tools of music technology
- Demonstrate knowledge of vocal repertoire

Career Opportunities

Education, performance, composing and arranging, conducting, music therapy, recording industry and communications.

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Nursing

Award: Associate of Science
Degree Code: NURS
Number of Credits: 68

Program Description

The Nursing program prepares graduates to function as entry-level nurses by emphasizing educational competencies within four core components of nursing education/practice: human flourishing; nursing judgment; professional identity; and spirit of inquiry. Graduates of the program are eligible to take the National Council Licensure Examination for Registered Nurse (NCLEX-RN). The program is directly articulated with a number of higher education nursing programs, thus providing an educational foundation for further study in nursing. The program is approved by the Maryland State Board of Nursing and is accredited by the Accreditation Commission for Education in Nursing, Inc. (ACEN), formerly the National League for Nursing Accrediting Commission, Inc. (NLNAC) (3343 Peachtree Road, NE, Suite 850, Atlanta, GA, 30326, www.acenursing.org). The nursing program has specific objectives that correlate with the College's educational goals. The specific objectives are described in the Nursing Student's Manual. Information on program admission, selection policies and procedures, and eligibility criteria are located here.

The computer literacy requirement will be met throughout the course work of the nursing program.

Transfer Information

Cecil College offers extensive transfer and articulation opportunities in the field of nursing. Listed below is a sampling of those opportunities. For more information about these and other institutions, contact your advisor.

- University of Delaware
- University of Maryland, Baltimore
- Wisconsin–Green Bay
- Wilmington University
- Widener University
- Drexel University
- Stevenson University

Click on "Transfer Opportunities" in MyCecil under the Advising Tab for a list of transfer pathways. In addition, transfer information is available through ARTSYS (The Articulation System of Maryland). Contact your advisor for detailed information.

Required Courses

General Education and Program Requirements

Number	Title	Credits
ARTS/HUM	Arts and Humanities Elective[1] [H]	3
BIO 200 and BIO 210	Microbiology [S] Microbiology Lab	3 1
BIO 208 and BIO 218	Human Anatomy and Physiology I [S] Human Anatomy and Physiology I Lab	3 1
BIO 209 and BIO 219	Human Anatomy and Physiology II [S] Human Anatomy and Physiology II Lab	3 1
EGL 101	Freshman Composition [E]	3
EGL 102	Composition and Literature [H]	3
MAT 123	Finite Math[2] [M]	3
NUR 101	Concepts and Processes in Nursing	2
NUR 104	Nursing Fundamentals Theory	5
NUR 105	Care of Adult and Aging Clients	4
NUR 114	Clinical Lab I: Nursing Fundamentals	2
NUR 115	Clinical Lab II: Medical/Surgical Settings	4
NUR 201	Care of Childbearing/Childrearing Families	4
NUR 204	Care of Clients Affected by Complex Stressors	4
NUR 206	Professional, Legal and Ethical Issues	2
NUR 211	Clinical Lab III: Care of Childbearing/Childrearing Families	4
NUR 214	Clinical Lab IV: Medical/Surgical/Psychiatric	4
PSY 101	Introduction to Psychology [SS]	3
PSY 201	Human Growth and Development [SS]	3
SOC 101	Introduction to Sociology [SS]	3

[1] Selection may not include EGL designation.
[2] Another general education mathematics elective will be accepted.

Recommended Sequence

The following is a recommended sequence of courses for completing this program as a full-time student. Developmental and prerequisite course requirements, credit load, and/or course availability may affect a student's individual progress. Students should consult their degree audit at MyCecil or an academic advisor for individual degree planning.

Full-time Status

Summer I	(7 credits)
EGL 101	Freshman Composition
BIO 208 and BIO 218	Human Anatomy and Physiology I Human Anatomy and Physiology I Lab
Fall I	**(16 credits)**
BIO 209 and BIO 219	Human Anatomy and Physiology II Human Anatomy and Physiology II Lab
PSY 101	Introduction to Psychology
NUR 101	Concepts and Processes in Nursing
NUR 104	Nursing Fundamentals Theory
NUR 114	Clinical Lab I: Nursing Fundamentals
Spring I	**(15 credits)**
BIO 200 and BIO 210	Microbiology Microbiology Lab
NUR 105	Care of Adult and Aging Clients
NUR 115	Clinical Lab II: Medical/Surgical Settings
MAT 123	Finite Math (another general education mathematics elective will be accepted)
Fall II	**(14 credits)**
NUR 201	Care of Childbearing/Childrearing Families
NUR 211	Clinical Lab III: Care of Childbearing/Childrearing
PSY 201	Human Growth and Development
EGL 102	Composition and Literature
Spring II	**(16 credits)**
ARTS/HUM	Arts and Humanities Elective
NUR 204	Care of Clients Affected by Complex Stressors
NUR 206	Professional, Legal and Ethical Issues
NUR 214	Clinical Lab IV: Medical/Surgical/Psychiatric
SOC 101	Introduction to Sociology

Part-time Status

Summer I	(3 credits)
EGL 101	Freshman Composition
Fall I	**(13 credits)**
BIO 208 and BIO 218	Human Anatomy and Physiology I Human Anatomy and Physiology I Lab
EGL 102	Composition and Literature
MAT 123	Finite Math (another general education mathematics elective will be accepted)
PSY 101	Introduction to Psychology
Spring I	**(14 credits)**
BIO 209 and BIO 219	Human Anatomy and Physiology II Human Anatomy and Physiology II Lab
BIO 200 and BIO 210	Microbiology Microbiology Lab
PSY 201	Human Growth and Development
SOC 101	Introduction to Psychology
Fall II	**(9 credits)**
NUR 101	Concepts and Processes in Nursing
NUR 104	Nursing Fundamentals Theory
NUR 114	Clinical Lab I: Nursing Fundamentals
Spring II	**(11 credits)**
NUR 105	Care of Adult and Aging Clients
NUR 115	Clinical Lab II: Medical/Surgical Settings
ARTS/HUM	Arts and Humanities Elective
Fall III	**(8 credits)**
NUR 201	Care of Childbearing/Childrearing Families
NUR 211	Clinical Lab III: Care of Childbearing/Childrearing
Spring III	**(10 credits)**
NUR 204	Care of Clients Affected by Complex Stressors
NUR 206	Professional, Legal and Ethical Issues
NUR 214	Clinical Lab IV: Medical/Surgical/Psychiatric

Program Outcomes

Upon successful completion of this program, students will be able to:

- Provide safe and competent nursing care that acknowledges and encompasses the uniqueness, dignity, diversity, freedom and holistic well-being of each individual within their community and within the context of the Neuman Systems Model
- Communicate professionally, effectively, and appropriately with clients, families, health care team members and peers, while promoting human dignity, patient advocacy and a spirit of inquiry
- Demonstrate the appropriate application and integration of evidence, critical thinking, nursing concepts, and clinical judgment, in the clinical decision making process, as they practice as a nurse within the conceptual framework of nursing practice
- Embrace the fundamental core values of nursing identified by NLN: caring; diversity; ethics; excellence; holism; integrity; and patient-centeredness
- Take the NCLEX-RN

Career Opportunities

Nursing care in doctors' offices, hospital settings, private nursing/home health care, administrative industries such as insurance companies, state agencies.

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Arts and Sciences Transfer – Physical Science Option – Ocean Studies

Award: Associate of Science
Degree Code: ASOS
Number of Credits: 64-66

Program Description

This program option prepares students to transfer to a four-year institution for continued study in ocean sciences and coastal studies. Ocean scientists use their knowledge and skills to answer questions about the ocean system and the atmosphere.

The computer literacy requirement will be met throughout the course work in the degree program.

Transfer Information

Cecil College has articulation agreements with Maryland and regional institutions. Click on "Transfer Opportunities" in MyCecil under the Advising Tab for a list of transfer pathways. In addition, transfer information is available through ARTSYS (The Articulation System of Maryland). Contact your advisor for detailed information.

Required Courses

General Education Requirements

Number	Title	Credits
ACT	Activity Electives	2
ARTS/HUM	Arts and Humanities Elective[1] [H]	3
BIO 130 and BIO 131	Principles of Biology I [S] Principles of Biology I Lab	3 1
CHM 103 and CHM 113	General Chemistry I [S] General Chemistry I Lab	3 1
PHY 181 or PHY 207	Introductory College Physics I with Lab [SL] General Physics I with Lab [SL]	4-5
EGL 101	Freshman Composition [E]	3
EGL 102	Composition and Literature [H]	3
MAT 127	Introduction to Statistics [M]	4
SOC SCI	Social Science Electives[2] [SS]	6

Program Requirements

Number	Title	Credits
BIO 132 and BIO 133	Principles of Biology II [S] Principles of Biology II Lab	3 1
CHM 104 and CHM 114	General Chemistry II [S] General Chemistry II Lab	3 1
MAT 201	Calculus I with Analytic Geometry [M]	4
PHY 182 or PHY 208	Introductory College Physics II with Lab [SL] General Physics II with Lab [SL]	4-5
PSC 135	Introduction to Climate Science with Lab [SL]	4
PSC 140	Introduction to Ocean Studies with Lab [SL]	4
PSC 220	Meteorology [SL]	4
SPH 121 or SPH 141	Interpersonal Communications [H] Public Speaking [H]	3

[1] Selection may not include EGL designation.
[2] Courses must be from two different disciplines.

Recommended Sequence

The following is a recommended sequence of courses for completing this program as a full-time student. Developmental and prerequisite course requirements, credit load, and/or course availability may affect a student's individual progress. Students should consult their degree audit at MyCecil or an academic advisor for individual degree planning.

Fall I	(15 credits)
CHM 103 and CHM 113	General Chemistry I General Chemistry I Lab
BIO 130 and BIO 131	Principles of Biology I Principles of Biology I Lab
PSC 135	Introduction to Climate Science with Lab
EGL 101	Freshman Composition
Spring I	**(15 credits)**
MAT 201	Calculus I with Analytic Geometry
CHM 104 and CHM 114	General Chemistry II General Chemistry II Lab
BIO 132 and BIO 133	Principles of Biology II Principles of Biology II Lab
EGL 102	Composition and Literature
Fall II	**(18-19 credits)**
PHY 181 or PHY 207	Introductory College Physics I with Lab General Physics I with Lab
PSC 140	Introduction to Ocean Studies with Lab
SOC SCI	Social Science Elective
ART/HUM	Arts and Humanities Elective
ACT	Activity Elective(s)
SPH 121 or SPH 141	Interpersonal Communications Public Speaking
Spring II	**(16 credits)**
MAT 127	Introduction to Statistics
PHY 182 or PHY 208	Introductory College Physics II with Lab General Physics II with Lab
PSC 220	Meteorology
SOC SCI	Social Science Elective
ACT	Activity Elective

Program Outcomes

Upon successful completion of this program, students will be able to:

- Demonstrate a general understanding of the breadth and interdisciplinary nature of the fields included in the physical sciences
- Understand the physical environment and its relationships with human activities
- Apply chemical, mathematical, and physical principles to the study of climate, oceans and meteorology
- Demonstrate an understanding of scientific method, data collection and analysis, use of laboratory and field instrumentation, computer applications, statistical and modeling techniques
- Apply principles and theories of biology, physics and chemistry to ocean and climate phenomena
- Utilize critical thinking to identify, collect and analyze data
- Describe and utilize the techniques involved in conducting research
- Use basic field and laboratory instrumentation
- Communicate scientific information in a written and/or verbal format

Career Opportunities

Geological, physical, chemical or biological oceanographer, marine biologist, fisheries scientist, marine archaeologist, marine policy expert.

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Arts and Sciences Transfer – Paralegal Studies Option

Award: Associate of Arts
Degree Code: ASPL
Number of Credits: 65-67

Program Description

The Paralegal Studies Associate degree provides the first two years of study for students preparing for a career as a paralegal. The program provides a general education background while focusing on developing an under- standing of the legal system. Students completing the degree will meet the requirements for admission to a Paralegal Certificate Program or to continue their studies toward a Bachelor's Degree in Paralegal Studies.

Transfer Information

Cecil College has an articulation agreement with Widener University. Students satisfactorily completing the Associate of Arts – Arts & Sciences Transfer – Paralegal Studies Option degree at Cecil College are guaranteed admission to Widener University Law Center Legal Education Institute. Contact your advisor for detailed information.

Required Courses

General Education and Program Requirements

Number	Title	Credits
ARTS/HUM	Arts/Humanities Elective [H]	3
CIS 101	Introduction to Computer Concepts [I]	3
EGL 101	Freshman Composition [E]	3
EGL 102	Composition and Literature [H]	3
HST	History Elective [H]	3
MAT	Math Elective [M]	3-4
MAT 127	Introduction to Statistics [M]	4
PHI 202	Clear Thinking to Inductive Logic [H]	3
POS 201	American Government [SS]	3
PSY 101	Introduction to Psychology [SS]	3
SCI	Science Elective [S]	3-4
SCI	Lab Science Elective [SL]	4
SOC 101	Introduction to Sociology [SS]	3
CSC 151	Computer Forensics Investigations	3
CRJ 101	Introduction to the Criminal Justice System	3
CRJ 133	Forensic Science I	3
CRJ 201	Criminal Investigation	3
CRJ 205	Criminal Law	3
CRJ 221	Criminology	3
POS 101	Introduction to Political Science [SS]	3
SOC 222	Juvenile Delinquency	3

Recommended Sequence

The following is a recommended sequence of courses for completing this program as a full-time student. Developmental and prerequisite course requirements, credit load, and/or course availability may affect a student's individual progress. Students should consult their degree audit at MyCecil or an academic advisor for individual degree planning.

Fall I	(18 credits)
ART/HUM	Arts/Humanities Elective
CIS 101	Introduction to Computer Concepts
EGL 101	Freshman Composition
CRJ 101	Introduction to the Criminal Justice System
PSY 101	Introduction to Psychology
HST	History Elective
Spring I	**(17 credits)**
EGL 102	Composition and Literature
MAT 127	Introduction to Statistics
POS 101	Introduction to Political Science
SCI	Lab Science Elective
SOC 101	Introduction to Sociology
Fall II	**(15-17 credits)**
CSC 151	Computer Forensics Investigations
CRJ 201	Criminal Investigation
MAT	Math Elective
PHI 202	Clear Thinking to Inductive Logic
SCI	Science Elective
Spring II	**(15 credits)**
CRJ 133	Forensic Science I
CRJ 205	Criminal Law
CRJ 221	Criminology
POS 201	American Government
SOC 222	Juvenile Delinquency

Program Outcomes

Upon successful completion of this program, students will be able to:

- Demonstrate a professional attitude toward work, learning, and responsibilities; be dependable in attendance, punctuality, and completion of tasks
- Communicate effectively orally and in writing
- Demonstrate legal knowledge
- Apply problem-solving and technical skills
- Produce an adequate amount of work product, accurately and timely with acceptable quality
- Utilize legal terminology competently
- Describe the American legal system including sources of American law, the judicial system, civil and criminal procedure, and substantive areas of law such as contracts, torts, constitutional law, employment, and other areas
- Identify the functions of law in American society, how they relate to corresponding legal research material, and the legislative process, judicial structure and system
- Utilize their academic success to effectively continue their studies toward a certificate or bachelor's degree
- Express an understanding of their ethical responsibility and role under the supervision of attorneys
- Demonstrate a professional attitude toward work, learning and the completion of tasks

Career Opportunities

Work in law offices, federal, state agencies, corporate entities as a law clerk, title examiner, claim adjuster, occupational health and safety specialist, appraiser, investigator.

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Paramedic

Award: Associate of Applied Science
Degree Code: EMTR
Number of Credits: 60

Program Description

The Paramedic is an allied health professional whose primary focus is to provide advanced emergency medical care for critical and emergent patients who access the emergency medical system. This individual possesses the complex knowledge and skills necessary to provide patient care and transportation. Paramedics function as part of a comprehensive EMS response, under medical oversight. The Paramedic program in Cecil County contains 720 contact hours of theoretical and clinical instruction, resulting in eligibility to sit for the paramedic exam. Students who wish to continue their education and work towards an Associate of Applied Science degree and who have current, unencumbered paramedic certification may be able to receive credits for the EMT courses through credential assessment.

Transfer Information

Cecil College has articulation agreements with Maryland and regional institutions. Click on "Transfer Opportunities" in MyCecil under the Advising Tab for a list of transfer pathways. In addition, transfer information is available through ARTSYS (The Articulation System of Maryland). Contact your advisor for detailed information.

Required Courses

General Education and Program Requirements

Number	Title	Credits
BIO 101 **or** BIO 130	General Biology [S] Principles of Biology [S]	3
BIO 111 **or** BIO 131	General Biology Lab Principles of Biology Lab	1
BIO 208 **and** BIO 218	Human Anatomy and Physiology I [S] Human Anatomy and Physiology I Lab	3 1
BIO 209 **and** BIO 219	Human Anatomy and Physiology II [S] Human Anatomy and Physiology II Lab	3 1
EGL 101	Freshman Composition [E]	3
EGL 211	Technical Writing	3
MAT 127	Introduction to Statistics [M]	4
PSY 101	Introduction to Psychology [SS]	3
PSY 201	Human Growth and Development [SS]	3
SPH 121	Interpersonal Communications [H]	3
ELECT	Elective	1

Required Occupational courses offered by Cecil County Department of Emergency Services (28 Credits)

Number	Title	Credits
EMT	Paramedic - Preparatory Knowledge	5
EMT	Paramedic - Patient Assessment	3
EMT	Paramedic - Traumatic Emergencies	5
EMT	Paramedic - Medical Emergencies	5
EMT	Paramedic - Special Considerations	4
EMT	Paramedic - Operations	3
EMT	Paramedic - Clinical /Field Requirements	3

Requirement of Major (28 Credits)

Number	Title	Semester	Credits
EMT	Paramedic - Preparatory Knowledge	Fall	1
EMT	Paramedic - Patient Assessment	Fall	1
EMT	Paramedic - Traumatic Emergencies	Spring	1
EMT	Paramedic - Medical Emergencies	Fall	1
EMT	Paramedic - Special Considerations	Spring	1
EMT	Paramedic - Operations	Spring	1
EMT	Paramedic - Clinical /Field Requirements	Summer	

Program Outcomes

Upon successful completion of this program, students will be able to:

- Demonstrate the ability to assign priority levels of emergency treatment to patients and effectively perform all basic and advanced interventions as part of a treatment plan intended to mitigate the emergency, provide symptom relief, and improve overall health of the patient and evaluate the plan and treatment and disposition of the patient accordingly
- To function as a team leader of a routine, single patient advanced life support call
- Perform in cooperation with medical direction, the need for emergency medical care including the recognition of life-threatening disorders such as airway and respiratory problems, cardiac dysrhythmias, traumatic injuries, and mental health emergencies, to an appropriate care facility by the most effective means of transportation
- Demonstrate with proficiency the management of cardiac arrest and peri-arrest states and apply comprehensive knowledge of the causes and pathophysiology into the management of shock, respiratory failure or arrest with an emphasis on early intervention to prevent cardiac arrest
- Communicate effectively, professionally and in a culturally sensitive manner, with patients, colleagues and other health care professionals, in all written and oral communications
- Perform with safety and efficiency all psychomotor skills in accordance with the National EMS Scope of Practice and the State of Maryland Scope of Practice at the paramedic level
- Perform and direct routine maintenance and preparation of emergency care equipment and supplies at the beginning and end of each shift and after every response

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Visual Communications – Professional Photography Option

Award: Associate of Applied Science
Degree Code: PPAZ
Number of Credits: 68-69

Program Description

This program option prepares students for initial employment, career advancement, and transfer to four-year colleges. Employment responsibilities in these areas include: photographing in a studio and/or location, digital processing and imaging, marketing, exhibiting, and video production.

The computer literacy requirement will be met throughout the course work in the degree program.

Transfer Information

Cecil College has articulation agreements with Maryland and regional institutions. Click on "Transfer Opportunities" in MyCecil under the Advising Tab for a list of transfer pathways. In addition, transfer information is available through ARTSYS (The Articulation System of Maryland). Contact your advisor for detailed information.

Required Courses

General Education

Number	Title	Credits
ACT	Activity Electives	2
ARTS/HUM	Arts and Humanities Elective [H]	3
EGL 101	Freshman Composition [E]	3
EGL 102	Composition and Literature [H]	3
GEN ED	General Education Elective	3
MAT	Math Elective [M]	3-4
SCI	Lab Science Elective[1] [SL]	4
SOC SCI	Social Science Elective [SS]	3

Program Requirements

Number	Title	Credits
VCP 101	Photography I	4
VCP 111	Studio Photography I	4
VCP 116	Digital Imaging I	2
VCP 117	Digital Imaging II	2
VCP 118	Digital Imaging III	4
VCP 119	Digital Imaging IV	4
VCP 210	Video Production I	4
VCP 279 or VCP 289	Professional Portfolio Production Internship I	4
VCP	Visual Communications Elective	4

Program Electives - Select 12 Credits

Number	Title	Credits
VCP 110	Portrait Photography	4
VCP 211	Studio Photography II	4
VCP 212	Video Production II	4
VCP 222	Photojournalism	4
VCP 233	Fictional Photography	4

[1] CHM 109 or PHY 120 recommended

Recommended Sequence

The following is a recommended sequence of courses for completing this program as a full-time student. Developmental and prerequisite course requirements, credit load, and/or course availability may affect a student's individual progress. Students should consult their degree audit at MyCecil or an academic advisor for individual degree planning.

Fall I	(18 credits)
EGL 101	Freshman Composition
SOC SCI	Social Science Elective
VCP 101	Photography I
VCP 116	Digital Imaging I
VCP 117	Digital Imaging II
VCP	Visual Communications Elective
Spring I	**(16-17 credits)**
VCP 111	Studio Photography I
VCP 118	Digital Imaging III
VCP	Visual Communications Elective
ACT	Activity Elective(s)
EGL 102	Composition and Literature
Fall II	**(16-18 credits)**
VCP 119	
VCP 210	Video Production I
VCP	Visual Communications Elective
ACT	Activity Elective(s)
MAT	Math Elective
Spring II	**(18 credits)**
VCP 279 or VCP 289	Professional Portfolio Production Internship I
VCP	Visual Communications Elective
ART/HUM	Arts/Humanities Elective
GEN ED	General Education Elective
SCI	Lab Science Elective

Program Outcomes

Upon successful completion of this program, students will be able to:

- Use the basic tools and techniques of a visual communicator
- Communicate in an effective and professional manner both verbally and in writing with the ability to incorporate critique recommendations in revising their work
- Demonstrate the ability to meet deadlines
- Use computer and related technology in the execution of visual communications projects
- Demonstrate knowledge of the elements and principles of design
- Produce a body of work demonstrating the ability to solve visual communications problems
- Market themselves using their portfolio and visual communications skills
- Demonstrate an understanding of industry standard equipment, techniques, and technologies specific to the practice of photography
- Demonstrate an understanding of the historical, political and social context in which photographic images are created and viewed
- Interpret contemporary theory and forms and the contextualization of photography within the larger world of the arts
- Critically analyze and evaluate examples of photographic art
- Execute efficient lighting techniques for both natural and constructed scenes on location or in a studio setting
- Demonstrate a thorough knowledge of industry standard equipment, techniques, and workflows specific to the practice of photography
- Achieve an understanding of the historical, political, and social context in which photographic images are created and viewed
- Communicate with a visual vocabulary to interpret photographic works, theory, and design principles appropriate to the practice of image-based media in both the fine art and commercial fields
- Develop a branding identity package and a professional photography portfolio that showcases technical skills and individual vision

Career Opportunities

Commercial photographer, portrait photographer, wedding photographer, photojournalist, industrial photographer, videographer, digital imager, and photography lab manager.

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Physical Therapist Assistant

Award: Associate of Applied Science
Degree Code: PTAP
Number of Credits: 70

Program Description

The Physical Therapist Assistant program provides a foundation for graduates to become highly skilled in providing patient services using physical therapy techniques under the supervision and direction of a licensed physical therapist in clinics, hospitals, and many other health care settings. Upon completion of the curriculum, the graduate will receive the A.A.S. and will be eligible to take the National Licensing Exam for Physical Therapist Assistants.

Graduation from a physical therapist assistant (PTA) education program accredited by the Commission on Accreditation in Physical Therapy Education (CAPTE), 1111 North Fairfax Street, Alexandria. VA 22314; phone 703-706-3245; accreditation@apta.org is necessary for eligibility to sit for the licensure examination, which is required in all states.

The Physical Therapist Assistant Program at Cecil College is accredited by the Commission on Accreditation in Physical Therapy Education (CAPTE), 1111 North Fairfax Street, Alexandria, Virginia 22314; telephone: 703-706-3245; email: accreditation@apta.org; website: http://www.capteonline.org.

Information on program admission, selection policies and procedures and eligibility criteria are available in the Program handbook, College catalog and in the program admission materials.

The computer literacy requirement will be met throughout the course work in the degree program.

Transfer Information

Cecil College has articulation agreements with Maryland and regional institutions. Contact your advisor for detailed information.

Required Courses

General Education Requirements

Number	Title	Credits
BIO 101	General Biology [S]	3
BIO 111	General Biology Lab	1
BIO 208	Human Anatomy and Physiology I [S]	3
BIO 218	Human Anatomy and Physiology I Lab	1
BIO 209	Human Anatomy and Physiology II [S]	3
BIO 219	Human Anatomy and Physiology II Lab	1
EGL 101	Freshman Composition [E]	3
EGL 102	Composition and Literature [H]	3
MAT 123	Finite Math [M][1]	3
PSY 101	Introduction to Psychology [SS]	3
PSY 201	Human Growth and Development [SS]	3

Program Requirements

Number	Title	Credits
PTA 101	Introduction to Physical Therapy	1
PTA 102	Clinical Kinesiology and Biomechanics	3
PTA 103	Clinical Skills for the PTA	3
PTA 204	Therapeutic Modalities	3
PTA 206	Therapeutic Exercise	3
PTA 210	PTA Seminar I	1
PTA 212	PTA Seminar II	2
PTA 220	Clinical Orthopedics	4
PTA 222	Clinical Neurosciences	3
PTA 224	Cardiopulmonary/Integumentary	3
PTA 226	Special Populations	2
PTA 230	PTA Clinical Practicum I	3
PTA 232	PTA Clinical Practicum II	6
PTA 234	PTA Clinical Practicum III	6

[1] Any General Education Mathematics, 121 or higher will be accepted.

Recommended Sequence

The following is the sequence of courses for PTA courses only (general education courses may be taken in any sequence; however, it is recommended that students complete as many general education courses as possible before being accepted into the program). Students should consult their degree audit at MyCecil or an academic advisor for individual degree planning.

Spring I	(7 credits)
PTA 101	Introduction to Physical Therapy
PTA 102	Clinical Kinesiology and Biomechanics
PTA 103	Clinical Skills for the PTA
Summer I	**(8 credits)**
PTA 204	Therapeutic Modalities
PTA 206	Therapeutic Exercise
PTA 210	PTA Seminar I
Fall II I	**(15 credits)**
PTA 220	Clinical Orthopedics
PTA 222	Clinical Neurosciences
PTA 224	Cardiopulmonary/Integumentary
PTA 226	Special Populations
PTA 230	PTA Clinical Practicum I
Spring II	**(13 credits)**
PTA 212	PTA Seminar II
PTA 232	PTA Clinical Practicum II
PTA 234	PTA Clinical Practicum III

Program Outcomes

Upon successful completion of this program, students will be able to:

- Demonstrate the entry level knowledge, clinical skills and professional abilities of a physical therapist assistant in the delivery of interventions, in all communications, during education activities, and during resource management activities
- Provide competent patient care under the direction and supervision of a licensed physical therapist, in an ethical, legal, safe and effective manner in a variety of healthcare settings
- Integrate the behavioral expectation of altruism, caring and compassion, cultural competence, duty, integrity, PT/PTA collaboration and social responsibility into professional practice
- Manage an effective transition from the educational program to a career as a licensed physical therapist assistant, including a plan for continuous professional competence and lifelong learning

Career Opportunities

Physical Therapist Assistants work in hospitals, privately owned physical therapy practices, home health, schools, and rehab units.

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Arts and Sciences Transfer – Physics Option

Award: Associate of Science
Degree Code: ASPS
Number of Credits: 65-66

Program Description

This program option prepares students to transfer to a four-year institution for continued study in physics. A physicist's work ranges from basic research into the subatomic realm to the dynamics of galaxies as well as the practical development of devices and instruments. Students with a bachelor's degree in physics may continue their education or enter industry.

The computer literacy requirement will be met throughout the course work in the degree program.

Transfer Information

Cecil College has articulation agreements with Maryland and regional institutions. Click on "Transfer Opportunities" in MyCecil under the Advising Tab for a list of transfer pathways. In addition, transfer information is available through ARTSYS (The Articulation System of Maryland). Contact your advisor for detailed information.

Required Courses

General Education and Program Requirements

Number	Title	Credits
ACT	Activity Electives	2
ARTS/HUM	Arts and Humanities Electives[1] [H]	3
CHM 103 **and** CHM 113 **and**	General Chemistry I [S] General Chemistry I Lab	3 1
CHM 104 **and** CHM 114 **and**	General Chemistry II [S] General Chemistry II Lab	3 1
EGL 101	Freshman Composition [E]	3
EGL 102	Composition and Literature [H]	3
GEN ED	General Education Elective	3
MAT 201	Calculus I with Analytic Geometry [M]	4
MAT 202	Calculus II with Analytic Geometry [M]	4
MAT 203	Multivariable Calculus [M]	4
MAT 240	Introduction to Linear Algebra [M]	4
MAT 246	Introduction to Differential Equations [M]	3
PHE 221 **or** PHE 225 **or** PHE 285	Thermodynamics Digital Electronics and Instrumentation Principles of Electric Circuits	3-4
PHY 207	General Physics I with Lab [SL]	5
PHY 208	General Physics II with Lab [SL]	5
PHY 209	General Physics III with Lab [SL]	5
SOC SCI	Social Science Electives[2] [SS]	6

[1] Selection may not include EGL designation.
[2] Courses must be from two different disciplines.

Recommended Sequence

The following is a recommended sequence of courses for completing this program as a full-time student. Developmental and prerequisite course requirements, credit load, and/or course availability may affect a student's individual progress. Students should consult their degree audit at MyCecil or an academic advisor for individual degree planning.

Fall I	(16 credits)
CHM 103 **and** CHM 113	General Chemistry I General Chemistry I Lab
MAT 201	Calculus I with Analytic Geometry
PHY 207	General Physics I with Lab
EGL 101	Freshman Composition
Spring I	**(17 credits)**
CHM 104 **and** CHM 114	General Chemistry II General Chemistry II Lab
MAT 202	Calculus II with Analytic Geometry
PHY 208	General Physics II with Lab
EGL 102	Composition and Literature
ACT	Activity Elective(s)
Summer I	**(5 credits)**
PHY 209	General Physics III with Lab
Fall II	**(15-16 credits)**
MAT 246	Introduction to Differential Equations
PHE 225	Digital Electronics and Instrumentation*
PHE 221	Thermodynamics*
GEN ED	General Education Elective
ARTS/HUM	Arts and Humanities Elective
SOC SCI	Social Science Elective
Spring II	**(12-16 credits)**
MAT 203	Multivariable Calculus
MAT 240	Introduction to Linear Algebra
PHE 285	Principles of Electronic Circuits*
SOC SCI	Social Science Elective
ACT	Activity Elective(s)

*Students must choose one course from PHE 221, 225 or 285.

Program Outcomes

Upon successful completion of this program, students will be able to:

- Demonstrate a firm understanding of the principles of physics and the ability to apply these principles to problems of both fundamental and practical interest
- Utilize knowledge of mathematics to solve applied problems
- Recognize basic connections of all of the scientific disciplines
- Design and conduct experiments
- Analyze and interpret data
- Identify, formulate, and solve technical problems

Career Opportunities

Astronomer, computer programmer, physicist, teaching, research and development, engineering.

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Arts and Sciences Transfer – Psychology Option

Award: Associate of Arts
Degree Code: ASPY
Number of Credits: 62

Program Description

The Psychology degree provides the first two years of college for students preparing for a career in psychology, counseling or a related field. The Psychology degree emphasizes the scientific study of behavioral and mental processes in animals and humans. The field of Psychology encompasses many areas including: research methods, social behavior, personality, human development, biological basis of behavior, consciousness, learning, memory, emotion, motivation and mental health and adjustment. This program is designed primarily for students desiring to transfer to a four-year college or university to earn a bachelor's degree in Psychology. Students selecting this program should consult with an academic advisor early in the program.

Transfer Information

Cecil College has articulation agreements with Maryland and regional four-year colleges and universities. Click on "Transfer Opportunities" in MyCecil under the Advising Tab for a list of transfer pathways. In addition, transfer information is available through ARTSYS (The Articulation System of Maryland). Contact your advisor for detailed information.

Required Courses

General Education Requirements

Number	Title	Credits
ACT	Activity Electives	2
ANT 101	Cultural Anthropology [SS]	3
ART[1]	Art General Education Elective [H]	3
BIO 130 and BIO 131 or CHM 103 and CHM 113	Principles of Biology I [S] Principles of Biology I Lab General Chemistry I [S] General Chemistry I Lab	3 1
BIO 132 and BIO 133 or CHM 104 and CHM 114	Principles of Biology II [S] Principles of Biology II Lab General Chemistry II [S] General Chemistry II Lab	3 1
CIS 101	Introduction to Computer Concepts [I]	3
EGL 101	Freshman Composition [E]	3
EGL 102	Composition and Literature [H]	3
EGL 209	Introduction to African-American Literature [H]	3
GEO 102	Cultural Geography [SS]	3
HST 201 or HST 202	History of the United States (to reconstruction) [H] History of the United States II (reconstruction to the present) [H]	3
MAT 127	Introduction to Statistics [M]	4
SPH 121	Interpersonal Communications [H]	3

Program Requirements

Number	Title	Credits
HEA 136	Stress Management	3
PSY 101	Introduction to Psychology [SS]	3
PSY 201	Human Growth and Development [SS]	3
PSY 227	Introduction to Abnormal Psychology	3

Program Electives - Select 9 Credits

Number	Title	Credits
PSY 203	Child Growth Development	3
PSY 207	Educational Psychology	3
PSY 222	Organizational Psychology [SS]	3
SOC 101	Introduction to Sociology [SS]	3
SOC 102	Social Problems [SS]	3
SOC 103	Marriage and the Family [SS]	3

[1] See transfer advisor.

Recommended Sequence

The following is a recommended sequence of courses for completing this program as a full-time student. Developmental and prerequisite course requirements, credit load, and/or course availability may affect a student's individual progress. Students should consult their degree audit at MyCecil or an academic advisor for individual degree planning.

Fall I	(17-18 credits)
ACT	Activity Elective(s)
ANT 101	Cultural Anthropology
CIS 101	Introduction to Computer Concepts
EGL 101	Freshman Composition
MAT 127	Introduction to Statistics
PSY 101	Introduction to Psychology
Spring I	**(17 credits)**
ACT	Activity
BIO 130 and BIO 131 or CHM 103 and CHM 113	Principles of Biology I Principles of Biology I Lab General Chemistry I General Chemistry I Lab
EGL 102	Composition and Literature
HEA 136	Stress Management
SPH 121	Interpersonal Communications
PSY 201	Human Growth and Development
Fall II	**(16 credits)**
ART	Art General Education Elective
BIO 132 and BIO 133 or CHM 104 and CHM 114	Principles of Biology II Principles of Biology II Lab General Chemistry II General Chemistry II Lab
EGL 209	Introduction to African American Literature
HST 201 or HST 202	History of the United States (to reconstruction) History of the United States II (reconstruction to the present)
PSY 227	Introduction to Abnormal Psychology
Spring II	**(12 credits)**
GEO 102	Cultural Geography
ELECT	Program Elective
ELECT	Program Elective
ELECT	Program Elective

Program Outcomes

Upon successful completion of this program, students will be able to:

- Demonstrate knowledge in learning theory, cognition, and memory
- Demonstrate knowledge of sensation and perception, as it relates to psychology
- Demonstrate knowledge in the areas of clinical and abnormal psychology as well as personality theory
- Demonstrate knowledge of social and developmental psychology
- Demonstrate knowledge of basic research methods
- Use basic statistics to test hypotheses and correctly interpret the results of their analyses
- Demonstrate knowledge of ethical guidelines within the context of academic and professional psychology

Career Opportunities

Social worker, human resources representatives, rehabilitation advisor, admissions recruiter in private corporations, social service agencies and education.

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Simulation Design and Gaming

Award: Associate of Applied Science
Degree Code: SOGR
Number of Credits: 60

Program Description

The Simulation Design and Gaming degree provides high quality, hands-on, career education in the areas of interactive and 3D design. Students will complete the process of developing 3D animation, visualization, simulation, and interactive experience. The program will prepare students for initial employment, career advancement, and transfer to four-year colleges and universities.

Transfer Information

Cecil College has articulation agreements with Maryland and regional four-year colleges and universities. Click on "Transfer Opportunities" in MyCecil under the Advising Tab for a list of transfer pathways. In addition, transfer information is available through ARTSYS (The Articulation System of Maryland). Contact your advisor for detailed information.

Required Courses

General Education Requirements

Number	Title	Credits
ARTS/HUM	Arts and Humanities Elective [H]	3
EGL 101	Freshman Composition [E]	3
EGL 102	Composition and Literature [H]	3
GEN ED	General Education Elective	3
MAT	Math Elective [M]	3-4
SCI	Lab Science Elective [S/SL]	4
SOC SCI	Social Science Elective [SS]	3

Program Requirements

Number	Title	Credits
EGL 112 or EGL 211	Script Writing Technical Writing	3
VCP 116	Digital Imaging I	2
VCP 117	Digital Imaging II	2
VCP 136	Multimedia Production I	4
VCP 151	Introduction to Game Design	4
VCP 218	Introduction to 3D Modeling and Animation	4
VCP 219 or VCP 225	3D Modeling for Real-Time Environments 3D Character Rigging & Animation	4
VCP 279 or VCP 289	Professional Portfolio Production Internship I	4

Program Electives - Select 11 Credits

Number	Title	Credits
ART 105	Illustration, Materials and Techniques	3
ART 130	Drawing I [H]	3
ART 180	Basic Photography [H]	3
ART 181	Introduction to Movie Making [H]	3
ART 183	Digital Illustration I	4
ART 230	Drawing II [H]	3
ART 231	Portrait Drawing	3
ART 232	Figure Drawing	3
VCP 101	Photography I	4
VCP 118	Digital Imaging III	4
VCP 119	Digital Imaging IV	4
VCP 162	Mobile Application Design	4
VCP 210	Video Production I	4

Recommended Sequence

The following is a recommended sequence of courses for completing this program as a full-time student. Developmental and prerequisite course requirements, credit load, and/or course availability may affect a student's individual progress. Students should consult their degree audit at MyCecil or an academic advisor for individual degree planning.

Fall I	(16 credits)
ART/VCP	Program Elective
EGL 101	Freshman Composition
GEN ED	General Education Elective
SOC SCI	Social Science Elective
VCP 116	Digital Imaging I
VSP 117	Digital Imaging II
Spring I	**(15 credits)**
ARTS/HUM	Arts and Humanities Elective
EGL 102	Composition and Literature
MAT	Math Elective
ART/VCP	Program Elective
ART/VCP	Program Elective
Fall II	**(15 credits)**
EGL 112 or EGL 211	Script Writing Technical Writing
SCI	Lab Science Elective
VCP 136	Multimedia Production I
VCP 218	Modeling and Animation I
Spring II	**(14 credits)**
ART/VCP	Program Elective
VCP 279 or VCP 289	Professional Portfolio Production Internship I
VCP 151	Introduction to Game Design

Program Outcomes

Upon successful completion of this program, students will be able to:

- Vocalize and document critical remarks in regards to a project's quality, aesthetics, and basic requirements
- Develop a production process to complete consistent quality designs in an appropriate amount of time
- Demonstrate the ability to utilize a variety of industry standard hardware and software to produce aesthetically pleasing designs
- Produce two-dimensional and three-dimensional content that is optimized for animation, film, or interactive media
- Develop basic to intermediate-level computer code that is appropriate for multimedia and interactive presentations
- Create a portfolio that demonstrates solid foundational art skills as well as intermediate-level technical knowledge

Career Opportunities

Software engineer, graphics programmer, 2D/3D artist, game developer, animator in government agencies, computer consulting firms, advertising firms, gaming/gambling industries.

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Arts and Sciences Transfer – Social Work Option

Award: Associate of Arts
Degree Code: ASWZ
Number of Credits: 70

Program Description

This program option is designed for the working adult seeking to earn an undergraduate degree in an accelerated format while continuing to work full or part-time. The degree provides skills required for an entry-level position as a social and human services assistant. The accelerated program combines theory and practice through classroom, on-line, and guided experiential experiences in a cohort learning model. The partnership agreement with Salisbury University provides access and convenience for students to complete their baccalaureate degree in social work. A bachelor's degree in social work is the minimum educational requirement for an entry-level social worker. The computer literacy requirement has been met throughout the coursework in the degree program. Students who plan to enroll in Social work Option must be college-ready at the time of admission. For accelerated studies, college-ready is defined as placing into English 101 (EGL 101) and Intermediate Algebra (MAT 093) on the skills assessments. Additional information on accelerated programs can be obtained from the Admissions Office (admissions@cecil.edu) or designated academic advisors.

Transfer Information

Cecil College has an articulation agreement with Salisbury University. Students satisfactorily completing the Associate of Arts – Social Work Option are guaranteed admission to Salisbury University. All the courses that are needed to complete the Salisbury University Baccalaureate degree will be offered at the Cecil College's Elkton Station location. Contact your advisor for detailed information.

Required Courses

General Education and Program Requirements

Number	Title	Credits
ACT	Activity Electives	2
ANT 101	Cultural Anthropology [SS]	3
BIO 101 and BIO 111	General Biology [S] General Biology Lab	3 1
BIO 123 or BIO 203	Foundations of Nutrition [S] Nutrition	3
EGL 101	Freshman Composition [E]	3
EGL 102	Composition and Literature [H]	3
EGL 209	Introduction to African-American Literature [H]	3
HEA 140	Alcoholism and Drug Addiction	3
HST 101	Western Civilization I [H]	3
HST 102	Western Civilization II [H]	3
MAT 127	Introduction to Statistics [M]	4
PHI 201	Ethics - Contemporary Moral Problems [H]	3
PSY 101	Introduction to Psychology [SS]	3
SCI	Lab Science Elective[1] [SL]	4
SOC 101	Introduction to Sociology [SS]	3
SOC 102	Social Problems [SS]	3
SOC 103	Family and Marriage [SS]	3
SPH 141	Public Speaking [H]	3
SWK 101	Introduction to Social Work [SS]	3
SWK 102	Basic Interviewing Skills	3
SWK 201	Social Welfare Policy Research and Experience	3
SWK 202	Elder Care Experiential Learning	2
SWK 203	Substance Abuse Experiential Learning	3

[1] Science elective must be a course designation other than BIO.

Recommended Sequence

The following is a recommended sequence of courses for completing this program as a full-time student. Developmental and prerequisite course requirements, credit load, and/or course availability may affect a student's individual progress. Students should consult their degree audit at MyCecil or an academic advisor for individual degree planning.

Session I	**(9 credits)**
EGL 101	Freshman Composition
PSY 101	Introduction to Psychology
SOC 101	Introduction to Sociology
Session II	**(9 credits)**
SPH 141	Public Speaking
SWK 101	Introduction to Social Work
ANT 101	Cultural Anthropology
Session III	**(9 credits)**
EGL 102	Composition and Literature
SOC 102	Social Problems
SWK 102	Basic Interviewing Skills
Session IV	**(10 credits)**
EGL 209	Introduction to African-American Literature
MAT 127	Introduction to Statistics
HEA 140	Alcoholism and Drug Addiction
Session V	**(9 credits)**
HST 101	Western Civilization I
SOC 103	Family and Marriage
SWK 201	Social Welfare Policy Research Experiential Learning
Session VI	**(10 credits)**
HST 102	Western Civilization II
BIO 101 and BIO 111	General Biology General Biology Lab
SWK 203	Substance Abuse Experiential Learning
Session VII	**(14 credits)**
PHI 201	Ethics - Contemporary Moral Problems
SCI	Lab Science Elective (designation other than BIO)
BIO 203 or BIO 123	Nutrition Foundations of Nutrition
SWK 202	Elder Care Experiential Learning
ACT	Activity Electives

Program Outcomes

Upon successful completion of this program, students will be able to:

- Utilize their academic success to effectively continue their studies toward a bachelor's degree
- Express an understanding of their ethical responsibility and role under the supervision of individuals in the profession
- Demonstrate a professional attitude toward work, learning and the completion of tasks
- Apply critical thinking skills within the context of professional social work practice
- Understand the value base of the profession and its ethical standards and principles, and practice accordingly
- Understand and interpret the history of the social work profession and its contemporary structures and issues
- Understand the importance of respect as it relates to a clients' age, class, race, culture, disability, ethnicity, family structure, gender, marital status, national origin, race, religion, sex, and sexual orientation
- Use communication skills differentially across client populations, colleagues, and communities

Career Opportunities

Public welfare, criminal justice and corrections, school social work, child welfare, gerontology, health care, community agencies, research and education.

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Arts and Sciences Transfer – Performing Arts Option – Theatre Performance / Acting

Award: Associate of Arts
Degree Code: APAT
Number of Credits: 63-65

Program Description

The Theatre Performance/Acting program provides students with training in classical and contemporary approaches to performance, scene study, voice techniques, and movement. Examination of various theatrical genres and the masters of acting techniques culminate in a live performance each semester. The program helps students to prepare for transfer to a four-year institution, internships, employment, or career advancement in the areas of performance and performance education. This is accomplished in an open access, optimal learning environment for students' educational, cultural, and economic development.

Transfer Information

Cecil College has articulation agreements with Maryland and regional institutions. Click on "Transfer Opportunities" in MyCecil under the Advising Tab for a list of transfer pathways. In addition, transfer information is available through ARTSYS (The Articulation System of Maryland). Contact your advisor for detailed information.

Required Courses

General Education Requirements

Number	Title	Credits
ARTS/HUM	Arts and Humanities Elective [H][1] (Choose from MUC or ART disciplines)	3
CIS 101	Introduction to Computer Concepts [I]	3
EGL 101	Freshman Composition [E]	3
EGL 102	Composition and Literature [H]	3
MAT	Math Elective [M]	3-4
SCI	Lab Science Electives [S/SL][2]	7-8
SOC SCI	Social Science Electives [SS][3]	6
THE 184	Introduction to Acting for Screen and Stage [H]	3

Program Requirements

Number	Title	Credits
THE 104	Script Analysis	3
THE 106	Voice for Actors I	3
THE 108	Movements for Actors	3
THE 121	Introduction to Theatre Design	3
THE 160	Acting I	3
THE 164	Applied Theatre I	1
THE 261	Acting II	3
THE 262	Theatre History I	3
THE 263	Directing I	3
THE 264	Applied Theatre II	1
THE 275	Theatre History II	3
THE 103 **or** THE 215 **or** THE 216 **or** MUC 128 **or** THE 220	Stagecraft I Scenic Design Lighting Design Intro to Audio Technology [I] Stage Management	3

[1] See the current approved general education courses in this category.
[2] Courses must be from two different disciplines. At least one course must include a corresponding lab.
[3] Courses must be from two different disciplines.

Recommended Sequence

The following is a recommended sequence of courses for completing this program as a full-time student. Developmental and prerequisite course requirements, credit load, and/or course availability may affect a student's individual progress. Students should consult their degree audit at MyCecil or an academic advisor for individual degree planning.

Fall I	(15 credits)
THE 106	Voice for Actors I
THE 160	Acting I
THE 121	Introduction to Theatre Design
EGL 101	Freshman Composition
ARTS/HUM	Arts and Humanities Elective (ART or MUC disciplines)
Spring I	**(15 credits)**
THE 104	Script Analysis
THE 262	Theatre History I
THE 164	Applied Theatre I
EGL 102	Composition and Literature
THE 184	Introduction to Acting for Screen and Stage
Summer I	**(6-7 credits)**
MAT	Math Elective
SCI	Lab Science Elective
Fall II	**(15 credits)**
CIS 101	Introduction to Computer Concepts
THE 261	Acting II
THE 275	Theatre History II
THE	Theatre Elective (THE 103, 215, 216, 220, or MUC 128)
SOC SCI	Social Science Elective
Spring II	**(13-14 credits)**
THE 108	Movement for Actors
THE 263	Directing I
THE 264	Applied Theatre II
SCI	Lab Science Elective
SOC SCI	Social Science Elective

Program Outcomes

Upon successful completion of this program, students will be able to:

- Demonstrate an understanding of the genres of theatre
- Demonstrate a knowledge of plays and playwrights throughout history
- Demonstrate an ability to portray various characters
- Demonstrate an ability to analyze and interpret major theatre works for the stage

Career Opportunities

Performing, directing and producing, set design and construction, sound and lighting, camera operation, stage management, writing (scripts, plays, journalism) and teaching.

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Visual Communications – Video Production Option

Award: Associate of Applied Science
Degree Code: VVPZ
Number of Credits: 66-67

Program Description

This program option provides high quality, hands-on, career education in television, film, documentary, industrial, and commercial video production. The program helps students prepare for initial employment, career advancement, and transfer to four-year colleges and universities.

Transfer Information

Cecil College has articulation agreements with Maryland and regional institutions. Click on "Transfer Opportunities" in MyCecil under the Advising Tab for a list of transfer pathways. In addition, transfer information is available through ARTSYS (The Articulation System of Maryland). Contact your advisor for detailed information.

Required Courses

General Education Requirements

Number	Title	Credits
ACT	Activity Electives	2
ARTS/HUM	Arts and Humanities Elective [H]	3
EGL 101	Freshman Composition [E]	3
EGL 102	Composition and Literature [H]	3
MAT	Math Elective [M]	3-4
PSY or SOC	Psychology Elective [SS] Sociology Elective [SS]	3
SCI	Lab Science Electives [S/SL]	4

Program Requirements

Number	Title	Credits
EGL 112	Scriptwriting I	3
EGL 213	Introduction to Film [H]	3
VCP 101	Photography I	4
VCP 111	Studio Photography I	4
VCP 116	Digital Imaging I	2
VCP 117	Digital Imaging II	2
VCP 210	Video Production I	4
VCP 212	Video Production II	4
VCP 214	Video Production II	4

Program Electives - Select 15 Credits

Number	Title	Credits
ART 141	Survey of Art History [H]	3
ART 181	Introduction to Movie Making [H]	3
ART 183	Digital Illustration I	4
BUS 212	Principles of Marketing	3
CIS 101	Introduction to Computer Concepts [I]	3
EGL 212	Scriptwriting II	3
HST 252	American Diversity Through Film	3
SPH 141	Public Speaking [H]	3
THE 184	Introduction to Acting for Screen and Stage [H]	3
VCP 118	Digital Imaging III	4
VCP 119	Digital Imaging IV	4
VCP 136	Multimedia Production I	4
VCP 211	Studio Photography II	4
VCP 215	Guerrilla Filmmaking	4
VCP 218	Modeling and Animation I	4
VCP 233	Fictional Photography	4

Recommended Sequence

The following is a recommended sequence of courses for completing this program as a full-time student. Developmental and prerequisite course requirements, credit load, and/or course availability may affect a student's individual progress. Students should consult their degree audit at MyCecil or an academic advisor for individual degree planning.

Fall I	(17 credits)
EGL 101	Freshman Composition
PSY or SOC	Psychology Elective Sociology Elective
VCP 101	Photography I
VCP 116	Digital Imaging I
VCP 117	Digital Imaging II
ARTS/HUM	Arts and Humanities Elective
Spring I	**(18-20 credits)**
VCP 111	Studio Photography I
VCP 210	Video Production
EGL 112	Scriptwriting I
ACT	Activity Elective(s)
EGL 102	Composition and Literature
MAT	Math Elective
Fall II	**(17-18 credits)**
VCP 212	Video Production II
SCI	Lab Science Elective
ELECT	Program Electives (Select from ART, BUS, CIS, EGL, HST, SPH, THE and VCP)
ACT	Activity Elective(s)
Spring II	**(14-15 credits)**
VCP 214	Video Production III
EGL 213	Introduction to Film
ELECT	Program Electives (Select from ART, BUS, CIS, EGL, HST, SPH, THE and VCP)

Program Outcomes

Upon successful completion of this program, students will be able to:

- Use the basic tools and techniques of a visual communicator
- Communicate in an effective and professional manner both verbally and in writing with the ability to incorporate critique recommendations in revising their work
- Demonstrate the ability to meet deadlines
- Use computer and related technology in the execution of visual communications projects
- Demonstrate knowledge of the elements and principles of design
- Produce a body of work demonstrating the ability to solve visual communications problems
- Market themselves using their portfolio and visual communications skills
- Demonstrate preproduction, direction, production, postproduction, and distribution of narrative, documentary and commercial videos
- Perform the duties of various technical crew positions in single and multi-camera production environments
- Explain and demonstrate knowledge of video preproduction techniques by preparing preproduction materials for video productions
- Operate video production lighting, cameras and sound equipment according to industry standards
- Utilize post-production video techniques to edit digital video projects with graphics, picture, sound and editing

Career Opportunities

Camera operator, television production assistant, TV, film or video producer, video editor.

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Visual Communications – Communication Arts and Technology Option - Web Design and Multimedia

Award: Associate of Applied Science
Degree Code: CAWM
Number of Credits: 63-65

Program Description

This program option provides professional quality, hands-on, creative and technical skills for applying principles of web design and multimedia production. Students will develop a strong foundation in web site planning and design, digital image manipulation, multimedia systems, current web technologies and standards, sound, video, and animation. The program helps students transfer to four-year colleges and universities, as well as, initial employment and career advancement. Students are also prepared to test for Network+ Certification, iNet+ Certification, WOW Certification, and CIW Designer Certification.

The computer literacy requirement will be met throughout the course work in the degree program.

Transfer Information

Cecil College has articulation agreements with Maryland and regional institutions. Click on "Transfer Opportunities" in MyCecil under the Advising Tab for a list of transfer pathways. In addition, transfer information is available through ARTSYS (The Articulation System of Maryland). Contact your advisor for detailed information.

Required Courses

General Education Requirements

Number	Title	Credits
ART 180	Basic Photography [H]	3
CSC 202	Creative Design [I]	3
EGL 101	Freshman Composition [E]	3
EGL 102	Composition and Literature [H]	3
GEN ED	General Education Elective	3
MAT	Math Elective [M]	3-4
SCI	Science Electives[1] [S/SL]	7-8
SOC SCI	Social Science Electives[2] [SS]	6

Program Requirements

Number	Title	Credits
CSC 109	Introduction to Programming	3
CSC 140	Introduction to Networking	3
VCP 116	Digital Imaging I	2
VCP 117	Digital Imaging II	2
VCP 118	Digital Imaging III	4
VCP 119	Digital Imaging IV	4
VCP 136	Multimedia Production I	4
VCP 144	Web Design I - Design Fundamentals	3
VCP 244	Web Design II - Advanced Design	3

Program Electives - Select 4 Credits

Number	Title	Credits
VCP 210	Video Production I	4
VCP 279 **or** VCP 289	Professional Portfolio Production Internship I	4

[1] At least one of the courses must include a lab.
[2] Courses must be from two different disciplines.

Recommended Sequence

The following is a recommended sequence of courses for completing this program as a full-time student. Developmental and prerequisite course requirements, credit load, and/or course availability may affect a student's individual progress. Students should consult their degree audit at MyCecil or an academic advisor for individual degree planning.

Fall I	(16 credits)
EGL 101	Freshman Composition
SOC SCI	Social Science Elective
ART 180	Basic Photography
VCP 144	Web Design I - Design Fundamentals
VCP 116	Digital Imaging I
VCP 117	Digital Imaging II
Spring I	**(16 credits)**
VCP 118	Digital Imaging III
VCP 244	Web Design II - Advanced Design
CSC 202	Creative Design
EGL 102	Composition and Literature
SOC SCI	Social Science Elective
Fall II	**(16-18 credits)**
CSC 109	Introduction to Programming
CSC 140	Introduction to Networking
VCP 119	Digital Imaging IV
MAT	Math Elective
SCI	Science Elective
Spring II	**(15 credits)**
VCP 279 **or** VCP 289 **or** VCP 210	Professional Portfolio Production Internship I Video Production I
VCP 136	Multimedia Production I
GEN ED	General Education Elective
SCI	Lab Science Elective

Program Outcomes

Upon successful completion of this program, students will be able to:

- Use the basic tools and techniques of a visual communicator
- Communicate in an effective and professional manner both verbally and in writing with the ability to incorporate critique recommendations in revising their work
- Demonstrate the ability to meet deadlines
- Use computer and related technology in the execution of visual communications projects
- Demonstrate knowledge of the elements and principles of design
- Produce a body of work demonstrating the ability to solve visual communications problems
- Market themselves using their portfolio and visual communications skills
- Produce an appealing visual product based on project goals and limitations of the web based medium
- Demonstrate and apply knowledge of the elements and principles of design to projects and during critical discussions
- Utilize industry standard hardware and software to produce content that is viewable on both past and current technology
- Develop intermediate-level code that is appropriate for web and multimedia presentations
- Problem-solve issues related to the visual and technical components of publishing web specific conten

Career Opportunities

Web graphic designer, instructional designer, media communications consultant, web graphic animator, web page designer.

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Art – Ceramics

Award: Certificate
Degree Code: CERC
Number of Credits: 13-15

Gainful Employment Disclosure

Program Description

This program provides a comprehensive foundation in ceramics for individuals seeking professional development or self-enrichment, or is for individuals planning continued study in the field of ceramics. Students will learn a variety of building, decorating and firing techniques and begin to develop their own creative vision.

Required Courses

Number	Title	Credits
ART 160	Beginning Ceramics	3
ART 161 or ART 167	Ceramics/Japanese Raku Ceramics/Japanese Raku	1 3
ART 169	Ceramics/Majolica Glaze Painting	3
ART 194 or ART 261	Wheel Thrown Ceramics Advanced Ceramics	3
ART 260	Intermediate Ceramics	3

Program Outcomes

Upon successful completion of this program, students will be able to:

- Demonstrate proficiency working with a wide range of materials, tools, techniques, and processes pertaining to ceramics and sculpture to create work from concept to finished product.
- Demonstrate an understanding of design principles with an emphasis on three-dimensional design, and the ability to apply these principles to a specific aesthetic intent.
- Demonstrate an understanding of the history of ceramics and sculpture. This includes the history of art, craft, the relationship of ceramics to other art disciplines, and its influence on culture.
- Professionally document and exhibit a body of work that demonstrates artistic voice, concept, and technical skills in ceramics or sculpture.

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Art – Drawing and Painting

Award: Certificate
Degree Code: DAPC
Number of Credits: 24

Gainful Employment Disclosure

Program Description

This program provides a strong foundation in the area of drawing. Emphasis is on the development of observational skills, technical ability and ultimate application to envisioned images. Students work with various techniques and materials to create convincing illusions of three-dimensional forms and spatial depth.

Required Courses

Certificate Requirements

Number	Title	Credits
ART 101 or ART 110	Fundamentals of Design I Color	3
ART 130	Drawing I	3
ART 140	Painting I	3
ART 230 or ART 240	Drawing II Painting II	3
ART 232	Figure Drawing	3

Certificate Electives – Select 9 Credits

Number	Title	Credits
ART 132	Landscape and Nature Drawing	3
ART 142	Landscape and Nature Drawing	3
ART 230	Drawing II	3
ART 231	Portrait Drawing	3
ART 240	Painting II	3
ART 241	Portrait Painting	3

Program Outcomes

Upon successful completion of this program, students will be able to:

- Demonstrate proficiency working with a wide range of materials and tools, techniques, and processes pertaining to drawing and painting to create work from concept to finished product. This includes knowledge of dry media, paint and surfaces.
- Demonstrate an understanding of the principles of design, color concepts, media and formats, and the ability to apply them to a specific aesthetic intent.
- Demonstrate comprehension of art with a historical and contemporary context.
- Professionally document and exhibit a body of work that demonstrates artistic voice, concept, and technical skills in drawing and painting.

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Visual Communications – Graphic Design

Award: Certificate
Degree Code: VGDC
Number of Credits: 22

Gainful Employment Disclosure

Program Description

This certificate prepares students for entry-level employment in print preparation and electronic publishing. Job titles include graphic designer, colorist, scanner operator, digital imager, pre-press technician. The certificate program courses can be used in satisfying degree requirements.

Required Courses

Number	Title	Credits
ART 101	Fundamentals of Design I	3
ART 130 **or** ART 140 **or** ART 180	Drawing I Painting I Basic Photography	3
VCP 116	Digital Imaging I	2
VCP 117	Digital Imaging II	2
VCP 118	Digital Imaging III	4
VCP 119	Digital Imaging IV	4
VCP 230	Graphic Design Studio	4

Program Outcomes

Upon successful completion of this program, students will be able to:

- Demonstrate an understanding of tools and technology, including their roles in the creation, reproduction, and distribution of visual messages. Relevant tools and technologies include drawing, printing, photography, and interactive media (film, video, computer multimedia).
- Demonstrate the use of 2D and 3D software programs including applications such as modeling, animation, illustration, video, sound, photography, print and web authoring.
- Demonstrate the ability to solve communication problems, including the skills of problem identification, research and information gathering, analysis, generation of alternative solutions, prototyping and user testing, and evaluation of outcomes.
- Demonstrate an understanding of design history, theory, and criticism.

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Business and Commerce Technology - Accounting

Award: Certificate
Degree Code: ACCL
Number of Credits: 18

Gainful Employment Disclosure

Program Description

The goal of this certificate is to provide a defined course of study for those working in the field who do not have the necessary college-level course work for their positions. This certificate is not recommended for beginning students who are not working in the specific fields addressed by this certificate.

Required Courses

Number	Title	Credits
ACC 101	Accounting I	3
ACC 102	Accounting II	3
ACC 203	Tax Accounting	3
ACC 201	Accounting III	3
ACC 202	Accounting IV	3
ACC 205	Business Spreadsheet Applications	3

Program Outcomes

Upon successful completion of this program, students will be able to:

- Demonstrate an understanding of industry standard equipment, techniques, and technologies specific to the practice of photography
- Demonstrate an understanding of the historical, political and social context in which photographic images are created and viewed
- Interpret contemporary theory and forms and the contextualization of photography within the larger world of the arts
- Critically analyze and evaluate examples of photographic art
- Execute efficient lighting techniques for both natural and constructed scenes on location or in a studio setting
- Demonstrate a thorough knowledge of industry standard equipment, techniques, and workflows specific to the practice of photography
- Achieve an understanding of the historical, political, and social context in which photographic images are created and viewed
- Communicate with a visual vocabulary to interpret photographic works, theory, and design principles appropriate to the practice of image-based media in both the fine art and commercial fields
- Develop a branding identity package and a professional photography portfolio that showcases technical skills and individual vision

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Business and Commerce Technology – Management

Award: Certificate
Degree Code: BCML
Number of Credits: 18

Gainful Employment Disclosure

Program Description

The goal of this certificate is to provide a defined course of study for those working in the field who do not have the necessary college-level course work for their positions. This certificate is not recommended for beginning students who are not working in the specific fields addressed by this certificate.

Required Courses

Number	Title	Credits
ACC 101	Accounting I	3
ACC 102	Accounting II	3
BUS 131	Principles of Management	3
BUS 212	Principles of Marketing	3
	Program Electives - Select 6 Credits	
BUS 216	Organizational Leadership	3
BUS 231	Management of Human Resources	3
BUS 244	Organizational Behavior	3

Program Outcomes

Upon successful completion of this program, students will be able to:

- Critically examine, analyze, and recommend logical actions based on a variety of business concepts, models, and principles
- Apply written and oral communication skills
- Apply basic computational, statistical, and quantitative reasoning skills in collecting, analyzing, and interpreting numerical information
- Utilize verbal communication skills to engage an audience
- Utilize and apply computer hardware, software, the Internet, and other technological tools to enhance reasoning skills in making business decisions
- Be able to work effectively in both leadership and support roles as part of diverse teams to achieve a variety of business-related tasks
- Apply a basic understanding of economic and accounting principles to complex business issues
- Consistently act in a professional, respectful, honest, and ethical manner and to apply ethical principles and logical reasoning to make business decisions
- Demonstrate an understanding of a global environment
- Recognize and understand trends in business (through successes and failures)
- Understand how to organize and start a business

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Computer Information Systems – Oracle Certified Associate

Award: Certificate
Degree Code: OCAC
Number of Credits: 15

Gainful Employment Disclosure

Program Description

This program will prepare students to work in entry level and mid-level career positions as database administrators and database designers installing, configuring, programming, and managing Oracle databases. Students will complete coursework and hands-on requirements Skills that are within industry standards to prepare the student for potential Oracle OCA certification.

Required Courses

Number	Title	Credits
CSC 104	Computer Science Fundamentals	3
CSC 163	Database Design Principles	3
CSC 161	Oracle I - Introduction to SQL	3
CSC 263	Oracle III - Database Fundamentals I	3
CSC 265	Oracle V - Database Security and Auditing	3

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Computer Information Systems – Oracle Certified Professional

Award: Certificate
Degree Code: OCPC
Number of Credits: 18

Gainful Employment Disclosure

Program Description

This program will prepare students to work in entry level and mid-level career positions as database administrators and database designers installing, configuring, programming, and managing Oracle databases. Students will complete coursework and hands-on requirements for skills that are within industry standards to prepare the student for potential Oracle OCP certification.

Required Courses

Number	Title	Credits
CSC 104	Computer Science Fundamentals	3
CSC 163	Database Design Principles	3
CSC 161	Oracle I - Introduction to SQL	3
CSC 260	Oracle II - Database Programming SQL	3
CSC 263	Oracle III - Database Fundamentals I	3
CSC 264	Oracle IV - Database Fundamentals II	3

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Computer Information Systems – Programming Certificate

Award: Certificate
Degree Code: CCPC
Number of Credits: 29

Gainful Employment Disclosure

Program Description

This certificate develops skills in programming and various languages as well as providing basic courses in operating systems, Web programming, business systems, networking and data communications.

Required Courses

Number	Title	Credits
CSC 103	Operating Systems I	3
CSC 104	Computer Science Fundamentals	3
CSC 109	Introduction to Programming	3
CSC 140	Introduction to Networking	3
CSC 160	Introduction to Data Communications	3
CSC 201	Business Systems Analysis and Design	4
CSC 203 **or** CSC 204	Seminar in Information Systems	1
CSC	Computer Science Electives (any CSC course)	6
VCP 144	Web Design I - Design Fundamentals	3

Program Outcomes

Upon successful completion of this program, students will be able to:

- Understand basic networking theory, network design, maintenance, security and troubleshooting
- Set up network resources through multiple versions of software
- Understand basic data communications technology
- Analyze and develop programs using object oriented programming and design
- Understand legal and ethical issues associated with computing

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Cyber Security

Award: Certificate
Degree Code: CECY
Number of Credits: 28

Program Description

The Cyber Security Certificate provides students with the skills, knowledge and credentials to successfully begin a career in the field of Cyber Security. Cyber Security specialists apply computer security techniques to work with industry, government, and academia to solve computer networking and security related challenges.

Required Courses

Number	Title	Credits
CSC 104	Computer Science Fundamentals	3
CSC 110	Ethics in Information Technology	3
CSC 140	Introduction to Networking[1]	3
CSC 141	Computer Network Security Fundamentals[1]	3
CSC 156	Introduction to Windows Server 2008[1]	3
CSC 151	Introduction to Computer Forensics and Investications[1]	3
CSC 225	Tactical Perimeter Defense	3
CSC 235	Strategic Infrastructure Security	3
CSC 258	Cisco Certified Network Associate[1]	4

[1] Certification option courses.

Program Outcomes

Upon successful completion of this program, students will be able to:

- Demonstrate proficiency in a programming language
- Configure and secure Windows and Unix/Linux server and clients, routers, firewalls, email, networks, and other network security appliances and software
- Demonstrate an understanding of networking standards, protocols, and the OSI model
- Identify and describe security measures for different types of network attacks, operating systems, software, databases, websites, social engineering and physical security
- Demonstrate an understanding of computer forensics, data acquisition, analysis, tools, and crime scene investigation and documentation requirements for corporate or legal testimony
- Explain the function of cryptography and encryption to secure data, public key infrastructure, hashing, and digital signatures along with other data protection techniques
- Create an effective security policy and disaster recovery plan, addressing business requirements related to confidentiality, integrity and availability

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Visual Communications – Digital Imaging

Gainful Employment Disclosure

Award: Certificate
Degree Code: VDIC
Number of Credits: 15-16

Program Description

This certificate prepares students for entry-level employment in digital imaging. Job titles include digital imager, imaging technician, graphic artist, and paginator. Employment responsibilities in these areas includes: scanning, image enhancement, image manipulation, and page layout. The certificate program courses may be used in satisfying degree requirements.

Required Courses

Certificate Requirements

Number	Title	Credits
VCP 116	Digital Imaging I	2
VCP 117	Digital Imaging II	2
VCP 118	Digital Imaging III	4

Program Electives – Select 7-8 Credits

Number	Title	Credits
ART 180	Basic Photography	3
VCP 101	Photography I	4
VCP 111	Studio Photography I	4
VCP 119	Digital Imaging IV	4
VCP 120	Digital Imaging V	4
VCP 136	Multimedia Production I	4
VCP 210	Video Production I	4
VCP 212	Video Production II	4
VCP 222	Photojournalism I	4
VCP 230	Graphic Design Studio	4

Program Outcomes

Upon successful completion of this program, students will be able to:

- Demonstrate planning and production of digital images
- Demonstrate the ability to meet deadlines
- Use industry standard technology in the execution of digital images
- Produce a portfolio of digital images

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Equine Studies

Award: Certificate
Degree Code: ESTC
Number of Credits: 25

Gainful Employment Disclosure

Program Description

This certificate is designed for students interested in developing skills and knowledge that will prepare them for a career in the equine industry. This option is designed for those students who may not be interested in obtaining a degree, or who may wish to set a more-attainable goal while completing a defined course of study.

Required Courses

Number	Title	Credits
BUS 103	Introduction to Business	3
EQS 139	Introductory Basic Horse Handling	2
EQS 142 **or** EQS 145 **or** EQS 148	Introduction to Equine Care and Maintenance Equine Health and Maintenance Equine Anatomy and Physiology	3
EQS 144	Equine Nutrition and Feeding	3
EQS 146	Introductory Equine Field Study	2
EQS 241 **or** EQS 243 **or** EQS 245	Equine Facilities Management Business Management in the Horse Industry Equine Pasture and Land Management	3
EQS 242	Equine Reproduction, Evaluation and Selection	3
EQS 248	Equine Pathology	3
SPN 101	Beginning Spanish I	3

Program Outcomes

Upon successful completion of this program, students will be able to:

- Demonstrate competence, certainty, and self-assurance when working with horses
- Apply safe handling techniques, basic care and maintenance techniques, and basic first aid in working with horses
- Understand the skeletal, muscular, circulatory, respiratory, digestive, urinary, nervous, and endocrine systems of the horse
- Evaluate a horse's body condition, surroundings, work load, and other factors to develop a proper diet regimen for the best care of the horse
- Take equine vital signs and recognize symptoms of poor health, disease, and infection
- Demonstrate the skills necessary for basic horse care and the treatment and prevention of common horse ailments
- Understand conformation and selection of horses
- Apply pasture management techniques such as seeding, poisonous weed control, safe fertilization, and determining pasture rotation schedules
- Apply equine facilities management techniques for stable design, proper hay and grain storage, pasture and turn out options, and indoor/outdoor riding rings
- Apply skills learned regarding communication, regulation, marketing, staff management, and sales and service in running an equine business

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Equine Studies – Management

Award: Certificate
Degree Code: ESMC
Number of Credits: 17

Gainful Employment Disclosure

Program Description

This certificate focuses on business concepts and issues in the operation of equine enterprises. It is designed for those students who may not be interested in obtaining a degree, or who may wish to set a more-attainable goal while completing a defined course of study that provides a broad-based perspective of the Equine industry.

Required Courses

Number	Title	Credits
BUS 103	Introduction to Business	3
EQS 139	Introductory Basic Horse Handling	2
EQS 142 **or** EQS 145 **or** EQS 148	Introduction to Equine Care and Maintenance Equine Health Maintenance Equine Anatomy and Physiology	3
EQS 241	Equine Facilities Management	3
EQS 243	Business Management in the Horse Industry	3
SPN 101	Introduction to Spanish	3

Program Outcomes

Upon successful completion of this program, students will be able to:

- Demonstrate competence, certainty, and self-assurance when working with horses
- Apply safe basic care and maintenance techniques, in working with horses and the selection of horses
- Demonstrate basic knowledge of business systems, management, human resources and marketing
- Apply equine facilities management techniques for stable design, proper hay and grain storage, pasture and turn out options, and indoor/outdoor riding rings
- Apply skills learned regarding communication, regulation, staff management, and sales and service in running an equine business

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Business and Commerce Technology – Government Contracting

Award: Certificate
Degree Code: GOVC
Number of Credits: 24

Gainful Employment Disclosure

Program Description

This program will prepare individuals to work within a procurement environment after meeting qualification standards for Contract Specialists as outlined in the U.S. Office of Personnel Management Operating Manual.

Required Courses

Number	Title	Credits
BUS 131	Principles of Management	3
BUS 108	Principles of Purchasing	3
PRO 110	Procurement of Acquisition I	3
PRO 120	Principles of Pricing	3
PRO 121	Legal Issues in Government Procurement	3
PRO 210	Procurement and Acquisition II	3
PRO 220	Pricing and Contract Integration	3
PRO 230	Procurement Contract Negotiation	3

Program Outcomes

Upon successful completion of this program, students will be able to:

- Identify and explain the phases of the federal purchasing process including inventory control, price determination, vendor selection, negotiation techniques, and simplified acquisition procedures
- Identify and explain federal acquisition processes, practices, and management including regulations, policies, socioeconomic goals, contract types, contract solicitations, awards, and administration
- Apply industry standard personnel concepts from recruitment through termination consistent with labor laws and standards
- Develop proposals that obtain fair and reasonable prices utilizing the techniques of cost and price analysis, life-cycle costing, return on investment, and cost-benefit analysis
- Explain the legal and ethical issues encountered during the procurement process and how they relate to federal acquisition reform
- Explain Department of Defense acquisition life cycle phases and earned value management
- Apply Defense acquisition planning, market research, competition requirements, and defense acquisition of commercial items
- Effectively handle contract protests, disputes, appeals, and terminations

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Transportation and Logistics – Government Logistics Option

Award: Certificate
Degree Code: TLLC
Number of Credits: 21

Gainful Employment Disclosure

Program Description

The Certificate in Government Logistics will prepare individuals to work within a Government Logistics environment after meeting the qualifications required to meet the standards for general schedule positions outlined in the U.S. Office of Personnel Management Operating Manual, to include: Government Service (GS) GS-346 Logistics Management, GS-2003 Supply Program Management, and GS-2010 Inventory.

Required Courses

Number	Title	Credits
TRL 101	Introduction to Logistics	3
TRL 107	Supply Chain Management	3
TRL 104	Defense Acquisitions Management Overview	3
TRL 110	Transportation and Warehousing	3
TRL 130	Production and Operations Management	3
TRL 230	Product Lifecycle Management	3
TRL 240	Integrated Logistics Management	3

Program Outcomes

Upon successful completion of this program, students will be able to:

- Identify and explain the phases of the federal purchasing process including inventory control, price determination, vendor selection, negotiation techniques, and simplified acquisition procedures
- Compare and evaluate transportation systems
- Identify and discuss key elements of the public transportation policy environment
- Apply skills learned in the planning and management of material flows and related information in both public and private sector organizations
- Apply a total systems approach to managing activities involved in physically moving raw materials, inventory, and finished goods from the point of origin to point of use or consumption
- Demonstrate an understanding of the translation of product and service requirements into facilities, procedures, and operating organizations
- Apply the processes of managing the entire lifecycle of a product from its conception, design and manufacture, to its service and disposal
- Apply basic computational, statistical and quantitative reasoning skills in collecting, analyzing, and interpreting numerical information
- Utilize verbal communication skills to engage an audience

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Horticultural Science

Award: Certificate
Degree Code: HTSC
Number of Credits: 16

Gainful Employment Disclosure

Program Description

The Horticultural Science Certificate provides a foundation in the knowledge, skills, and training required for occupations in the horticulture industry or further studies in the plant sciences. Students will identify plants and their cultural requirements, identify landscape uses for plant materials, soil nutrients and amendments, and gain an understanding of the materials, and methods used in landscape construction.

Required Courses

Certificate Requirements

Number	Title	Credits
BIO 104 and	Botany: Introduction to Horticulture	3
BIO 114	Botany: Introduction to Horticulture Lab	1
HCS 152	Soils and Fertilizers	3
HCS 153 or	Landscaping Construction and Maintenance	3
HCS 154	Botanical Garden Studies	

Program Electives - Select 6 Credits

Number	Title	Credits
HCS 155 or	Woody Plants Identification I	2
HCS 156 or	Herbaceous Plants I	2
HCS 160 or	Woody Plants Identification II	2
HCS 161	Herbaceous Plants II	2

Program Outcomes

Upon successful completion of this program, students will be able to:

- Demonstrate an understanding of the classification, structure, reproduction, and propagation of plants
- Demonstrate an understanding of cultural conditions necessary to support plants and distinguish between appropriate plant choices for sun and shade and various landscape uses
- Identify plants which are native, non-native, and invasive in the Mid-Atlantic Region
- Demonstrate an understanding of the composition, fertility, and biology of soil
- Demonstrate an understanding of the classification of soils, plant nutrients and soil microorganisms
- Use tools and technology for evaluating the nutrient content of the soil and identify organic and inorganic supplements for amending soil structure
- Demonstrate an understanding of the diversity of materials, equipment, preparations, and methods of installation used in landscape construction
- Use basic skills for estimating and completing a landscape assignment, and identify the financial and legal business concerns involved in a landscaping assignment

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Transportation and Logistics – Commercial Transportation

Award: Certificate
Degree Code: TLCC
Number of Credits: 30

Gainful Employment Disclosure

Program Description

This certificate is designed for the individual who is working in the movement of raw materials and freight to manufacturing, warehousing, and retail facilities. Careers include distribution manager, traffic manager, truck driver dispatcher, logistics salesman, and freight-forwarder. Students who currently possess a valid Commercials Driver's License (CDL) may petition to receive college credit for previous licensures and experience through the credential assessment process.

Required Courses

Number	Title	Credits
BUS 103	Introduction to Business	3
BUS 111	Business Communications	3
BUS 131	Principles of Management	3
CIS 101	Introduction to Computer Concepts	3
TRL 101	Introduction to Logistics	3
TRL 105	Professional Driver's Knowledge	3
TRL 106	Professional Commercial Driver's Skills	6
TRL 110	Transportation and Warehousing	3
TRL 130	Production and Operations Management	3

Program Outcomes

Upon successful completion of this program, students will be able to:

- Operate a commercial motor vehicle safely
- Control and safely maneuver the vehicle in various traffic situations
- Demonstrate knowledge of laws relating to the transportation industry
- Follow established procedures for pre-trip inspections
- Apply proper logbook procedures and rules
- Recognize, avoid, or solve potential hazardous situations related to truck driving

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Transportation and Logistics – Transportation Management

Award: Certificate
Degree Code: TLTC
Number of Credits: 21

Gainful Employment Disclosure

Program Description

This program option is specifically designed for those individuals who are working or who wish to pursue a career in transportation and management of transportation systems. Careers would include, but are not limited to transportation manager, route planner, physical distribution manager, distribution planning analyst, and transportation marketer and operations manager. When coupled with a degree from one of our four-year partners, students will have even greater opportunity and earning potential.

Required Courses

Number	Title	Credits
BUS 103	Introduction to Business	3
BUS 108	Principles of Purchasing	3
TRL 101	Introduction to Logistics	3
TRL 107	Supply Chain Management	3
TRL 110	Transportation and Warehousing	3
TRL 130	Production and Operations Management	3
TRL 210	Transportation Management	3

Program Outcomes

Upon successful completion of this program, students will be able to:

- Analyze and discuss transportation management issues from a system-level perspective
- Compare and evaluate transportation systems
- Identify and discuss key elements of the public transportation policy environment
- Demonstrate a basic understanding of commonly used information technology applications used by the transportation industry
- Apply basic computational, statistical and quantitative reasoning skills in collecting, analyzing, and interpreting numerical information
- Utilize verbal communication skills to engage an audience
- Evaluate transportation problems and effectively develop and present actionable solutions

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Business and Commerce Technology – Marketing

Award: Certificate
Degree Code: BCMA
Number of Credits: 22

Program Description

This certificate in marketing will prepare students for entry into the field of marketing. The Marketing Certificate addresses identification of customer needs as well as how to communicate information about the products and services to both actual and potential customers. Additionally, this certificate introduces pricing strategies, sales strategies, and specific advertising strategies to help organizations sell their products and services and thus satisfy customer needs and wants.

Transfer Information

Cecil College has articulation agreements with Maryland and regional institutions. Contact your advisor for detailed information.

Required Courses

Number	Title	Credits
BUS 103	Introduction to Business	3
BUS 212	Principles of Marketing	3
BUS 187	Business Ethics	3
BUS 207	Introduction to Public Relations	3
BUS 242	Advertising	3
BUS 243	Personal Selling	3
VCP 116	Digital Imaging I	2
VCP 117	Digital Imaging II	2

Program Outcomes

Upon successful completion of this program, students will be able to:

- Demonstrate understanding of how the elements of a marketing strategy work together and how the marketing concept fits into organizational planning and development
- Demonstrate understanding of markets and market behavior, external market forces, relationships to basic economic concepts, and globalism in satisfying needs and wants
- Demonstrate understanding of current and emerging trends in marketing, including direct and interactive marketing, technology-based personalization, one-to-one marketing, and e-commerce
- Demonstrate an understanding of consumer behaviors, social media trends, and implementation of marketing strategies

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Practical Nursing

Award: Certificate
Degree Code: LPNC
Number of Credits: 35

Gainful Employment Disclosure

Program Description

The certificate is designed to give the student who has successfully completed the first two semesters of the nursing program and the summer Practical Nursing option an opportunity to enter the profession of nursing at the Licensed Practical Nursing level. Successful completion of the summer Practical Nursing option prepares the student for the National Council Licensure Examination – Practical Nurse (NCLEX-PN). The certificate program has specific objectives that correlate with the College's educational goals. These specific objectives are described in the Nursing Student's Manual. Information on program admission, selection policies and procedures, and eligibility criteria is located on pages 5-7 of this catalog.

Required Courses

Number	Title	Credits
BIO 208 **and**	Human Anatomy and Physiology I	3
BIO 218	Human Anatomy and Physiology I Lab	1
BIO 209 **and**	Human Anatomy and Physiology II	3
BIO 219	Human Anatomy and Physiology II Lab	1
EGL 101	Freshman Composition	3
LPN 201	Care of Childbearing/Childrearing Families	2
LPN 205	Advanced Medical/Surgical and Psychiatric Theory	2
LPN 206	Professional, Legal and Ethical Issues	1
LPN 211	Clinical Lab III: Care of Childbearing/Childrearing Families	1
LPN 215	Clinical Lab IV: Medical/Surgical/Psychiatric	1
NUR 101	Concepts and Processes in Nursing	2
NUR 104	Nursing Fundamentals Theory	5
NUR 105	Care of Adult and Aging Clients	4
NUR 114	Clinical Lab I: Nursing Fundamentals	2
NUR 115	Clinical Lab II: Medical/Surgical Settings	4

Program Outcomes

Upon successful completion of this program, students will be able to:

- Provide safe and competent nursing care at the LPN level, while promoting human dignity, integrity, and self-determination
- Communicate effectively and appropriately with clients, families, health care team members and peers while promoting human dignity and patient advocacy
- Demonstrate the application of critical thinking and nursing concepts in the clinical decision making process, as they practice as a practical nurse within the conceptual framework of practical nursing practice
- Embrace the fundamental core values of nursing identified by NLN: caring; diversity; ethics; excellence; holism; integrity; and patient-centeredness

Take the NCLEX-PN

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Personal Trainer/Fitness Manager

Award: Certificate
Degree Code: PTFC
Number of Credits: 20

Gainful Employment Disclosure

Program Description

The Personal Trainer/Fitness Manager Certificate program prepares individuals for entry into careers that involve the assessment, motivation, education, and training of clients regarding their health and fitness needs. Successful completion of this certificate program prepares students for entry level certification as a Personal Trainer. Students have the option to continue their studies and earn their Associate of Science in Exercise Science.

Required Courses

Number	Title	Credits
BUS 103	Introduction to Business	3
HEA 130	Healthful Living	3
BIO 203	Nutrition	3
FWS 110	Fundamentals of Personal Training I	3
FWS 111	Fundamentals of Personal Training I Lab	3
FWS 120	Fundamentals of Personal Training II	3
FWS 121	Fundamentals of Personal Training II Lab	3
FWS 130	Essentials of Fitness Assessments	3

Program Outcomes

Upon successful completion of this program, students will be able to:

- Demonstrate the knowledge and skills necessary to practice as an entry level personal trainer, including a professional demeanor
- Assess, design, and implement safe and effective exercise prescriptions to improve health and performance
- Demonstrate the knowledge and skills needed to successfully complete national industry leading certification exams (ACSM, ACE, NSCA, NASM) as an entry level personal trainer

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Visual Communications – Basic Photography

Award: Certificate
Degree Code: BAPC
Number of Credits: 15-16

Gainful Employment Disclosure

Program Description

This Certificate prepares students for apprenticeship employment in photography or digital imaging. Job titles include assistant photographer, lab technician, digital imager, and photographic retail sales representative. Employment responsibilities in these areas include: photographing, digital imaging, and sales. The Certificate program courses can be used in satisfying degree program requirements.

Required Courses

Certificate Requirements

Number	Title	Credits
VCP 101	Photography I	4
VCP 111	Studio Photography I	4

Program Electives - 7-8 Credits

Number	Title	Credits
ART 180	Basic Photography	3
VCP 110	Portrait Photography	4
VCP 116	Digital Imaging I	2
VCP 117	Digital Imaging II	2
VCP 118	Digital Imaging III	4
VCP 210	Video Production I	4
VCP 211	Studio Photography II	4
VCP 222	Photojournalism I	4
VCP 223	Photojournalism II	4
VCP 224	Nature and Wildlife Photography	4
VCP 233	Fictional Photography	4
VCP 270	Portfolio Production I	4
VCP 271	Portfolio Production II	4

Program Outcomes

Upon successful completion of this program, students will be able to:

- Demonstrate a basic understanding of industry standard equipment, techniques, and technologies specific to the practice of photography
- Demonstrate the ability to create a portfolio of photographic images

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Visual Communications – Portfolio Production

Award: Certificate
Degree Code: POPC
Number of Credits: 27-28

Gainful Employment Disclosure

Program Description

This certificate prepares students for initial employment in photography and/or digital imaging. Job titles include commercial photographer, portrait photographer, photojournalist, industrial photographer, videographer, digital imager, and photographic lab manager. Employment responsibilities in these areas include photography, digital processing and printing, digital imaging and marketing. The certificate courses may be used in satisfying degree requirements.

Required Courses

Certificate Requirements

Number	Title	Credits
VCP 101	Photography I	4
VCP 111	Studio Photography I	4
VCP 116	Digital Imaging I	2
VCP 117	Digital Imaging II	2

Program Electives - 15-16 Credits

Number	Title	Credits
ART 180	Basic Photography	3
VCP 110	Portrait Photography	4
VCP 118	Digital Imaging III	4
VCP 119	Digital Imaging IV	4
VCP 136	Multimedia Production I	4
VCP 211	Studio Photography II	4
VCP 222	Photojournalism I	4
VCP 224	Nature and Wildlife Photography	4
VCP 230	Graphic Design Studio	4
VCP 233	Fictional Photography	4
VCP 270	Portfolio Production I	4
VCP 271	Portfolio Production II	4
VCP 279	Professional Portfolio Production	4

Program Outcomes

Upon successful completion of this program, students will be able to:

- Demonstrate an understanding of industry standard equipment, techniques, and technologies specific to the practice of photography
- Understand basic lighting techniques for both natural and constructed scenes on location or in a studio setting
- Achieve a basic understanding of the historical, political, and social context in which photographic images are created and viewed
- Communicate with a visual vocabulary to interpret photographic works and design principles appropriate to the practice of image-based media
- Demonstrate the ability to create a professional portfolio of photographic images

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Visual Communications – Professional Photography

Award: Certificate
Degree Code: PPHC
Number of Credits: 40

Gainful Employment Disclosure

Program Description

This certificate prepares students for initial employment in photography, digital imaging, and video production. Job titles include: commercial photographer, portrait photographer, industrial photographer, photojournalist, videographer, digital imager, and photography lab manager. Employment responsibilities in these areas include; photographing, digital imaging, and videography.

The certificate program courses can be used in satisfying degree requirements.

Required Courses

Certificate Requirements

Number	Title	Credits
VCP 101	Photography I	4
VCP 111	Studio Photography I	4
VCP 116	Digital Imaging I	2
VCP 117	Digital Imaging II	2
VCP 118	Digital Imaging III	4
VCP 210	Video Production I	4
VCP 211	Studio Photography II	4
VCP 212	Video Production II	4
VCP 279 or VCP 289	Professional Portfolio Production Internship I	4

Certificate Electives - Select 8 Credits

Number	Title	Credits
VCP 110	Portrait Photography	4
VCP 119	Digital Imaging IV	4
VCP 222	Photojournalism I	4
VCP 233	Fictional Photography	4
VCP 224	Nature and Wildlife Photography	4

Program Outcomes

Upon successful completion of this program, students will be able to:

- Demonstrate an understanding of industry standard equipment, techniques, and technologies specific to the practice of photography
- Demonstrate an understanding of the historical, political and social context in which photographic images are created and viewed
- Interpret contemporary theory and forms and the contextualization of photography within the larger world of the arts
- Critically analyze and evaluate examples of photographic art
- Execute efficient lighting techniques for both natural and constructed scenes on location or in a studio setting
- Demonstrate a thorough knowledge of industry standard equipment, techniques, and workflows specific to the practice of photography
- Achieve an understanding of the historical, political, and social context in which photographic images are created and viewed
- Communicate with a visual vocabulary to interpret photographic works, theory, and design principles appropriate to the practice of image-based media in both the fine art and commercial fields
- Develop a branding identity package and a professional photography portfolio that showcases technical skills and individual vision

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Visual Communications – Studio Photography

Award: Certificate
Degree Code: STPC
Number of Credits: 40

Gainful Employment Disclosure

Program Description

This certificate prepares students for initial employment in photography, digital imaging, and video production. Job titles include: commercial photographer, portrait photographer, industrial photographer, photojournalist, videographer, digital imager, and photography lab manager. Employment responsibilities in these areas include; photographing, digital imaging, and videography.

The certificate program courses can be used in satisfying degree requirements.

Required Courses

Number	Title	Credits
VCP 101	Photography I	4
VCP 111	Studio Photography I	4
VCP 116	Digital Imaging I	2
VCP 117	Digital Imaging II	2
VCP 118	Digital Imaging III	4
VCP 119	Digital Imaging IV	4
VCP 210	Video Production I	4
VCP 211	Studio Photography II	4
VCP 212	Video Production II	4
VCP 222	Photojournalism I	4
VCP 279 or VCP 289	Professional Portfolio Production Internship I	4

Program Outcomes

Upon successful completion of this program, students will be able to:

- Demonstrate an understanding of industry standard equipment, techniques, technologies specific to the practice of studio photography
- Demonstrate an understanding of the historical, political and social context in which photographic images are created and viewed
- Critically analyze and evaluate examples of photographic art
- Demonstrate the ability to create a professional portfolio of studio photography images

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Visual Communications – Photography Lab

Award: Certificate
Degree Code: PLTC
Number of Credits: 23-24

Gainful Employment Disclosure

Program Description

This certificate prepares students for entry-level employment in photography. Job titles include assistant photographer, color lab technician, digital imager, and photography sales representative. Employment responsibilities include photographing, digital processing and printing, and marketing. The certificate courses may be used in satisfying degree requirements.

Required Courses

Certificate Requirements

Number	Title	Credits
VCP 101	Photography I	4
VCP 111	Studio Photography I	4
VCP 116	Digital Imaging I	2
VCP 117	Digital Imaging II	2
VCP 118	Digital Imaging III	4

Certificate Electives - Select 7-8 Credits

Number	Title	Credits
ART 180	Basic Photography	3
VCP 189	Basic Internship	4
VCP 211	Studio Photography II	4
VCP 222	Photojournalism I	4

Program Outcomes

Upon successful completion of this program, students will be able to:

- Demonstrate an understanding of industry standard equipment, techniques, and technologies specific to the practice of photo editing
- Understand basic lighting techniques for both natural and constructed scenes on location or in a studio setting
- Communicate with a visual vocabulary to interpret photographic works and design principles appropriate to the practice of image-based media
- Demonstrate the ability to create a professional portfolio of photographic images

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Visual Communications – Simulation Design and Gaming

Award: Certificate
Degree Code: SOGC
Number of Credits: 18

Gainful Employment Disclosure

Program Description

This certificate provides high quality, hands-on, career education in designing computer and video games for learning, simulations, and gaming. The certificate helps students prepare for transfer to four-year colleges and universities in an open access, optimal learning environment for students' educational development.

Required Courses

Number	Title	Credits
VCP 218	Modeling and Animation I	4
EGL 101	Freshman Composition	3
EGL 211	Technical Writing	3
VCP 116	Digital Imaging I	2
VCP 117	Digital Imaging II	2
VCP 136	Multimedia Production I	4

Program Outcomes

Upon successful completion of this program, students will be able to:

- Vocalize and document critical remarks in regards to a project's quality, aesthetics, and basic requirements
- Develop a production process to complete consistent quality designs in an appropriate amount of time
- Demonstrate the ability to utilize a variety of industry standard hardware and software to produce aesthetically pleasing designs
- Produce two-dimensional and three-dimensional content that is optimized for animation, film, or interactive media
- Develop basic to intermediate-level computer code that is appropriate for multimedia and interactive presentations
- Create a portfolio that demonstrates solid foundational art skills as well as intermediate-level technical knowledge

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Visual Communications – Video Production

Award: Certificate
Degree Code: VIPC
Number of Credits: 20

Gainful Employment Disclosure

Program Description

This certificate provides high quality, hands-on, career education in television, film, documentary, industrial, and commercial video production. The program helps students prepare for initial employment and career advancement. This is accomplished in an open access, optimal learning environment for students' educational, cultural, and economic development.

Required Courses

Number	Title	Credits
VCP 101	Photography I	4
VCP 111	Studio Photography I	4
VCP 210	Video Production I	4
VCP 212	Video Production II	4
VCP 214	Video Production II	4

Program Outcomes

Upon successful completion of this program, students will be able to:

- Demonstrate preproduction, direction, production, postproduction, and distribution of narrative, documentary, and commercial videos
- Perform the duties of various technical crew positions in single and multi-camera production environments
- Explain and demonstrate knowledge of video preproduction techniques by preparing preproduction materials for video productions
- Operate video production lighting, cameras and sound equipment according to industry standards
- Utilize post-production video techniques to edit digital video projects with graphics, picture, sound, and editing

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Visual Communications – Video Technology

Award: Certificate
Degree Code: VITC
Number of Credits: 12

Gainful Employment Disclosure

Program Description

This certificate provides high quality, hands-on, career education in commercial video production. The program helps students prepare for initial employment and career advancement. This is accomplished in an open access, optimal learning environment for students' educational, cultural, and economic development.

Required Courses

Number	Title	Credits
VCP 101	Photography I	4
VCP 210	Video Production I	4
VCP 212	Video Production II	4

Program Outcomes

Upon successful completion of this program, students will be able to:

- Demonstrate basic preproduction, direction, production, postproduction, and distribution of narrative, documentary and commercial videos
- Perform the basic duties of various technical crew positions in single and multi-camera production environments
- Operate video production lighting, cameras, and sound equipment according to industry standards
- Utilize basic post-production video techniques to edit digital video projects with graphics, picture, sound, and editing

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Visual Communications – Communication Arts and Technology – Web Design and Multimedia

Award: Certificate
Degree Code: CDMC
Number of Credits: 25

Gainful Employment Disclosure

Program Description

The web design and multimedia certificate provides high quality, hands-on, creative and technical skills for applying principles of web design using HTML, scripting languages, web management tools and digital multimedia. The program helps students prepare for initial employment and career advancement. Students are also prepared to test for WOW Certification and CIW Designer Certification.

Required Courses

Number	Title	Credits
CSC 202	Creative Design	3
VCP 116	Digital Imaging I	2
VCP 117	Digital Imaging II	2
VCP 118	Digital Imaging III	4
VCP 119	Digital Imaging IV	4
VCP 136	Multimedia Production I	4
VCP 144	Web Design I - Design Fundamentals	3
VCP 244	Web Design II - Advanced Design	3

Program Outcomes

Upon successful completion of this program, students will be able to:

- Produce an appealing visual product based on project goals and limitations of the web based medium
- Demonstrate and apply knowledge of the elements and principles of design to projects and during critical discussions
- Utilize industry standard hardware and software to produce content that is viewable on both past and current technology
- Develop intermediate-level code that is appropriate for web and multimedia presentations
- Problem-solve issues related to the visual and technical components of publishing web specific content
- Produce a portfolio of work that makes them marketable in the job market

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Course Descriptions

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Computer Information Systems
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Political Science
Procurement
Psychology
Public Health
Russian
Social Work
Sociology
Spanish
Speech
Theatre
Transportation and Logistics
Visual Communications

This section includes a list of the credit courses offered at the College. Not all courses are offered each term. Credit Course Schedules for the spring, summer and fall show which courses are offered during those terms. Three letters followed by three digits and two digits or letters label each course offered by the College. The three letters designate the discipline area of the course. For instance, EGL = English and MAT = mathematics. The three digits indicate the title of the course. The last two digits designate the section or delivery method of the course. Courses are listed according to subject area, which are listed alphabetically. Courses with numbers of 100 or less carry credits but may not be used to satisfy degree or certificate requirements. Their primary purpose is to prepare students for subsequent college level courses.

- Pre-requisites are courses, certifications, assessment test scores, qualifications for enrollment in other courses, such as eligibility for EGL101, or other measurable activities which must be successfully completed prior to enrollment in the course. Pre-requisites are courses which must be completed with a grade of "C" or higher prior to enrollment in the course.
- Co-requisites are courses that must be taken simultaneously or prior to enrollment in the specific course.

Notes: Students are expected to read and write at a college level for all courses except the developmental courses.

English and Mathematics Requirement
It is strongly recommended that all students complete both mathematics and an English course within their first 12 credit hours. To ensure maximum success, mathematics and English courses should be taken during consecutive terms until the sequence is completed. All students must have begun their English and mathematics sequences by completion of their first 30 credit hours or registration will be blocked until the student meets with an academic advisor to see if an exemption is in order.

Activity Elective Courses
Courses that fulfill the activity elective requirement for graduation are coded "ACT" in the course description under PED.

Programming Electives

CIS 143	Excel Applications and Programming
CSC 148	Server Side Scripting w/ASP
CSC 161	Oracle Introduction to SQL
CSC 261	Oracle II - Database Programming with SQL
CSC 182	Scripting Languages
CSC 106	Introduction to Programming Logic
CSC 109	Introduction to Programming
CSC 131	Visual Basic Programming
CIS 133	Access Applications and Programming
CSC 170	JAVA
CSC 205	Computer Science I
CSC 218	Computer Science II
CSC 224	Autolisp Programming

Graphic Design Electives

ART 101	Fundamentals of Design I
ART 105	Illustration, Materials and Techniques
ART 130	Drawing I
VCP 116	Digital Imaging I
VCP 117	Digital Imaging II
VCP 118	Digital Imaging III
VCP 119	Digital Imaging IV
VCP 230	Graphic Design Studio

General Education Course Codes
The following codes are used in the course descriptions to identify elective courses that satisfy the General Education Core Requirements:

E	English Composition
H	Arts and Humanities
I	Interdisciplinary and Emerging Issues
M	Mathematics
SL	Science with Lab
S	Science
SS	Behavioral and Social Sciences

Accounting

ACC101 **Accounting I** introduces the concepts and practices used in financial accounting. Topics studied include the use of journals and ledgers as well as the preparation of financial statements. Additional topics studies include cash, accounts and notes receivable, merchandise inventory, depreciation, current liabilities, and principles. Procedures for maintaining the records for service and merchandise firms are emphasized.
3 credits

ACC102 **Accounting II** develops financial and managerial accounting concepts related to generally accepted accounting principles, the conceptual framework of accounting and the objectives of financial reporting, long term liabilities, the statement of cash flows, financial statement analysis, introductory management accounting, manufacturing accounting, and job order and process accounting are studied. 3 credits
Pre-requisite: ACC101 (grade of C or higher).

ACC103 **QuickBooks®** will teach students the concepts and techniques of recording various business transactions, including sales, receivables, payables, and payroll. Various accounting reports and end of period accounting procedures for both a service and merchandising accounting system are covered. Procedures for converting a manual accounting system to a computerized system are covered. Only data information needed to complete assignments is provided on a CD. The QuickBooks® software is not provided to the student. Additional lab time may be needed to complete assignments. 3 credits
Pre-requisites: ACC101, CIS101 or consent of instructor.

ACC105 **Accounting with Peachtree Software** teaches the concepts of the comprehensive computerized accounting software program Peachtree. Students will learn to apply accounting concepts to the computerized records for a sole proprietorship. In addition, students will learn to maintain complete payroll records for a small business. 3 credits
Pre-requisites: BUS101 (ACC101), CIS101.

ACC201 **Accounting III** is designed to provide the student with a thorough knowledge of the components of financial statements. Using Financial Accounting Standards Board (FASB) pronouncements and guidelines, the complex relationship between reporting methods and statements is examined. Other topics studied include asset valuations, revenue recognition, inventory valuation, acquisition and disposal of property, plant and equipment, depreciation and depletion, and intangibles. 3 credits
Pre-requisite: ACC102.

ACC202 **Accounting IV** covers investments in debt and equity securities, debt and equity financing activities, pensions and other compensation issues, contingencies, earnings per share, accounting changes and error corrections, cash flow statement, and analysis of financial statements. Excel is used to solve a number of assigned problems. 3 credits
Pre-requisite: Grade of C or better in ACC102 or ACC201.

ACC203 **Tax Accounting** is an in-depth study of the procedures for filing federal income tax forms at the personal level. Topics include forms, schedules and statements that support the return. In addition to theory lectures, students are given opportunity to apply the concepts and principles through preparation of simulated tax returns. Students are also given an opportunity to prepare individual returns using a tax software package. Related state income tax concepts are studied. 4 credits
Pre-requisite: BUS101 (ACC101).

ACC204 **Payroll Accounting** is a basic course in computerized payroll fundamentals, including computing and paying wages and salaries as well as analyzing and journalizing payroll transactions. In addition, the legal aspects of social security, incom tax withholding and unemployment compensation taxes will be covered. The course includes the completion of a payroll project. 3 credits
Pre-requisite: EGL093.

ACC205 **Business Spreadsheet Applications** students perform accounting data analysis using EXCEL spread sheeting. Templates provided in the software package are used in some of the applications while students will need to prepare their own templates for other applications. Applications include, but are not limited to, comparative financial statements, comparing of ratios and other analytical data, preparation of budgets and miscellaneous spread sheeting applications. 3 credits
Pre-requisite: BUS101 (ACC101).

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Anthropology

ANT101 **Cultural Anthropology (SS)** is an introduction to the basic concepts involved in analyzing human experience in religion, kinship, and political systems, as well as mating, marriage, and other cultural characteristics. Anthropological methods which relate to the study of small-scale and large-scale societies will be examined and discussed. 3 credits
Pre-requisite: EGL093.

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Art

ART101 **Fundamentals of Design I (H)** provides an introductory study of two-dimensional design. It deals with the organization of the graphic elements in effective, unified designs, whether in photography, fine arts, commercial art or everyday life. Included is a brief introduction to color theory. This course is valuable for persons anticipating a career in art, photography, media technology, or education. 3 credits

ART105 **Illustration, Materials, and Techniques** is a studio course which introduces students to a variety of materials and techniques appropriate for use in the field of illustration. Topics may include: charcoal, graphite pencil, color pencil, pastel, inks, markers, scratchboard, various paints, printmaking techniques, collage and airbrush. Previous experience in drawing is highly recommended before enrolling for this course.
3 credits
Pre-requisite: Previous drawing experience.

ART110 **Color (H)** is a studio course which serves as an introduction to the varied relationships and qualities of color in regard to the visual world. Assignments explore both physical and psychological aspects of color theory. This course is valuable for anyone interested in the fine/commercial arts, or in understanding how color can affect our behavior and observations. 3 credits

ART130 **Beginning Drawing [H]** introduces students to basic drawing concepts, techniques, materials and the development of observational skills. The course focuses on descriptive value, composition, visual and spatial relationships, linear and aerial perspective, volumetric forms, subject and content using a variety of black and white media. Course includes vocabulary development, critical analysis activities, and reference to historic and contemporary models of drawing. Emphasis is on observational drawing. 3 credits

ART140 **Painting I (H)** introduces students to various approaches to painting in oils in the studio. It is intended for the beginning painter with little or no background in painting. Technical skills are developed through demonstrations, structured assignments, lectures, and critiques. 3 credits

ART141 **Survey of Art History (H)** is a survey course which explores art forms and aesthetic intentions from prehistory to the present. The course of study parallels the development of Western Civilization and emphasizes the relationship of art forms to that development. Major emphasis is on painting, sculpture, and architecture. The course may include museum trips. 3 credits
Pre-requisite: EGL093.

ART150 **Art Appreciation and Museum Studies (H)** is a discussion/lecture course with topics that include the historical context of artworks, specific artists, styles and movements. This course also examines the personal, historical and societal influences on artists as well as aesthetic intent and methods. This is an introductory course designed to acquaint students with the achievements and relevance of the fine arts. 3 credits
Pre-requisite: EGL093.

ART152 **Sculpture I (H)** introduces students to the basic materials and techniques used in creating sculptural forms. Emphasis is on the development of form recognition and comprehension in the third dimension. Basic shapes encountered in daily activities are used as the building blocks in the development and construction of more complex sculptural forms. Starting with projects using both additive and subtractive methods, the basic human structure will be explored. Projects using both realistic and free-form concepts will be considered.
3 credits

ART160 **Beginning Ceramics (H)** introduces the student to processes, tools, and aesthetics of ceramic forms, both functional and sculptural. Students explore various hand-building, wheel-throwing, decorating, glazing, and firing techniques. Studio performance concerning technical, aesthetic, and skill development is stressed.

3 credits

ART161 **Ceramics/Japanese/Raku** is a short course which introduces students to contemporary approaches and the historical background of raku. Students will learn basic techniques used to construct, glaze, and fire raku pottery. Previous experience in clay is recommended. 1 credit

ART162 **Ceramic/Color Clay** is a studio course which introduces the student to a wide potential for the use of color clay bodies. The course will cover the creation of various color clay bodies, forming techniques, and its use in jewelry, sculpture, and functional ware. 1 credit

ART163 **Ceramics/Masks and Self-Portraits** is a studio course on the design and creation of clay masks and self-portraits. The course explores the development of the mask in relationship to its historical use in rituals and ceremonies of various cultures. The course also focuses on the creation of the self-portrait as a symbolic and psychological statement. 1 credit

ART165 **Ceramics/Polymer Clay Jewelry** is a studio course dealing with the newest form of clay. Polymer clay, which is hardened in a simple toaster oven, is best known under the trademark names of Sculpty and Fimo. Emphasis is on learning basic jewelry-making techniques such as caning, marbleizing, millefiori, surface design texturing, and bead formation. Sculpture applications will also be discussed. 1 credit

ART166 **Ceramics/Egyptian Paste** is a studio course dealing with the self-glazing Egyptian paste clay body, best known by the scarabs and small turquoise sculpture of ancient Egypt. The course covers the preparation of clay bodies and various forming techniques, such as press molding and hand building that are most appropriate to the material. The course also covers the development of personal symbols and images to be used in designs. 1 credit

ART167 **Ceramics/Japanese Raku** introduces students to contemporary approaches to the art of Raku as well as the historical relationship to Japanese ritual tea ceremonies and the philosophy of Zen. Students will learn appropriate construction, decorating, firing and post-firing techniques as well as glaze formulation and kiln construction. Previous experience in clay is recommended. 3 credits

ART179 **Surface Design for Ceramics** explores a variety of surface techniques for ceramics. The elements and principles of design will be discussed and utilized to create surface designs for ceramic forms. Students will explore techniques to manipulate form and surface throughout the stages of the ceramic process. This course includes techniques for greenware and bisqueware as well as post-firing techniques. Students will mix glazes and experiment with materials for low and mid-fire temperatures. The relationship between form and surface will be emphasized. 3 credits
Pre-requisite: ART160.

ART180 **Basic Photography (H)** introduces students to the fundamental aesthetics and techniques of photography, to the practice of creative thinking, and to communication through visual imagery. Digital cameras and digital imaging work stations are available for student use in class. 3 credits

ART181 **Introduction to Movie Making (H)** is an introduction to the theory and practice of movie making with electronic video technology. Topics include creative concept development, production planning, capturing, and editing for artistic expression. Students work in a hands-on environment to develop and produce short movies. 3 credits

ART182 **Sculpture II** is a continuation of ART152 Sculpture I, which explores various materials and techniques used in creating sculpture. Emphasis is placed on the further development of technical skills, aesthetic understanding, solutions to sculptural problems, and a personal approach to sculpture. Students will explore their ideas from the initial sketch, through model development, to project completion. This course will integrate techniques learned in other art disciplines. 3 credits
Pre-requisite: ART152.

ART183 **Digital Illustration I** teaches traditional illustration methods combined with computer illustration techniques to enable students to learn contemporary professional illustration practices. Emphasis is placed on creative concept development, composition, design, research, workflow, drawing techniques for hand and computer, and portfolio production. Topics include fine art illustration, still life illustration, product illustration, book illustration, and editorial illustration. Previous drawing experience is preferred. 4 credits

ART194 **Wheel-Thrown Ceramics (H)** introduces students to the pottery wheel with emphasis on the skill development of throwing techniques. The course will focus on the development of personal style, perfection of thrown forms and craftsmanship. A wide range of pottery forms and surface treatments will be studied and applied to the work made. Students will be given a foundation in the history, aesthetic, and technical aspects of working with clay on the potter's wheel. Students will explore the pottery wheel as a tool for construction in conjunction with other building techniques. 3 credits

ART195 **Integrated Arts** introduces students to the areas of dance, literary arts, music, theatre, and the visual arts. Students will learn the knowledge and skills of each art form and how these disciplines can be integrated into classroom instruction. Consideration is given to the current research and influences of arts education. This experience will enhance self-expression and foster a better understanding of the role that the arts play in teaching and learning. This course meets the integrated arts requirements of the Maryland State Associate of Arts in Teaching (AAT). 3 credits
Pre-requisite: EDU101 or EDU131.

ART196 **Wheel-Thrown Ceramics II** expands on the skills introduced in Wheel-Thrown Ceramics. Emphasis is placed on advanced techniques for throwing and decorating surfaces. The course encourages developing a personal style as well as refining craftsmanship and thrown forms. Students will utilize the pottery wheel as a tool for construction in conjunction with other building techniques. Students are expected to explore the creative potential of the medium in relationship to concepts, aesthetics and function. 3 credits
Pre-requisite: ART194.

ART201 **Three-Dimensional Design (H)** is a studio course that introduces students to various aspects of three-dimensional design. Students deal with the application of design concepts to three-dimensional problems. Individual creative approaches to materials and techniques are encouraged. 3 credits
Pre-requisite: ART101.

ART230 **Drawing II (H)** builds on Drawing I by concentrating on long-term assignments in the studio. It is intended for those students with previous experience in drawing. Emphasis is on experimentation with materials and individual expression. Students will study approaches taken by various artists to develop a series of related works. 3 credits
Pre-requisite: ART130.

ART231 **Portrait Drawing** is an introductory class exploring basic mechanical and expressive components of portraiture. Emphasis is on solid structure and disciplined characterization. Instruction deals with form and structure in the first half of the course, and expression and characterization in the second half. Previous drawing experience is highly recommended before enrolling in this course. 3 credits

ART232 **Figure Drawing** is an introductory course in drawing the human figure. The first half of the course emphasizes accuracy in proportion and achieving solid form and structure; the second half deals with characterization. Projects will deal with the form and structure of the body, as well as subjective aspects of the pose. Previous drawing experience is highly recommended before enrolling in this course. 3 credits

ART240 **Painting II (H)** is a studio course concerned with the further development of compositional organization, technical skills, and color usage. Emphasis is on individualized approaches to painting and personal exploration with reference to past and contemporary artists. Students are encouraged to experiment with combinations of media and techniques for exploration in representational, abstract, and non-objective work. This course is intended for the student with previous painting experience. 3 credits
Pre-requisite: ART140.

ART242 **Survey of Modern Art History (H)** explores the development of the art of Western Civilization, specifically painting, sculpture, and architecture. Emphasis is placed on 19th and 20th century art and aesthetic intentions, as well as their roots in the late 18th century. The course examines works of art that are most characteristic of each period and discusses questions such as: Why do we create art? What influences our choice of imagery? How does knowledge of the past help us to understand the art of the present?
3 credits
Pre-requisite: EGL093.

ART260 **Intermediate Ceramics (H)** examines personal approaches to clay building and decorating and the creative potential of the medium in relationship to concept, function, and aesthetics. Major emphasis is on the development of skills, ideas, personal style, areas of special interest, and on the refinement of forms and craftsmanship. This course includes an introduction to glaze mixing and firing theory. 3 credits
Pre-requisite: ART160.

ART261 **Advanced Ceramics** expands on personal approaches to clay building and decorating from Intermediate Ceramics. This course focuses on the further development of skills, ideas, style, areas of special interest, and on the refinement of forms and craftsmanship. Experimentation with form development, surface decoration, and personal symbolism is emphasized. 3 credits
Pre-requisite: ART260.

ART291 **Portfolio Production I** provides an opportunity for advanced art students to concentrate on building portfolios in individual areas of interest to further their educational, career and personal goals. Students will create a focused body of artwork to produce a portfolio. 1 credit
Pre-requisite: EGL101.

ART292 **Portfolio Production II** provides an opportunity for advanced art students to concentrate on building an in-depth portfolio in individual areas of interest to further their educational, career and personal goals. Students will create a focused body of artwork to produce a portfolio. 2 credits
Pre-requisite: EGL101.

ART293 **Professional Portfolio Production** enables art majors who have completed 18 credit hours of art courses to concentrate on creating a Capstone Portfolio of artwork, images, and written documentation to prepare for application to a transfer institution and/or for personal or career goals. With guidance from an instructor, students create a cohesive body of work to produce a professional portfolio and a capstone art exhibit that is presented to the community. 3 credits
Pre-requisite: EGL101.

ART296 **Wheel-Thrown Ceramics III** expands on the skills introduced in Wheel-Thrown Ceramics II. Emphasis is on the further development of thrown forms and surface decoration techniques. Students will create a body of work demonstrating refinement of thrown forms, craftsmanship, advanced throwing techniques. 3 credits
Pre-requisite: ART196.

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Assessment of Prior Learning

APL270 **Assessment of Prior Learning: Portfolio Construction** provides the opportunity for the student to develop a portfolio for prior learning to be assessed for college credit. The student will be shown how to articulate, evaluate, and document this learning, organize it into courses, establish interconnections between theory and practice, and present it for evaluation by faculty experts. 1 credit.
Pre-requisite and Co-requisite: Documented employment in career area for which assessment is being done and overall GPA of at least 2.0.

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Astronomy

AST103 **Principles of Astronomy (SL)** provides the basic concepts of the astronomical study of the universe and involves the development of astronomical ideas from ancient times to the present. The course emphasizes the relationship of Earth to the universe. The scientific principles needed to understand the concepts in astronomy are presented and include Newton's laws of motion and of universal gravitation, the nature of light, spectroscopy, atomic structure, special relativity, thermonuclear reactions, and general relativity. Topics include the solar system, the sun and other stars, galaxies, and modern ideas in cosmology. Appropriate laboratory exercises and at-home activities are integrated into the course. 4 credits
Pre-requisites: EGL093, MAT092 or MAT097.

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Biology/Biotechnology

BIO101 **General Biology (S)** introduces the student to the basic biological principles common to all living things, with emphasis on evolution, molecular biology, diversity, ecology, physiology and genetics. 3 credits
Prerequisite: MAT092 or MAT097.
Co-requisites: BIO111, EGL101.

BIO103 **Introduction to Zoology** will study the animal kingdom, methods of classification, evolution, genetics, comparative anatomy, physiology and behavior of various animal groups. 3 credits
Pre-requisite: MAT093 or MAT097.
Co-requisites: BIO113, EGL101.

BIO104 **Botany: An Intro to Horticulture (S)** will study the structure, function, reproduction and propagation of plants. Topics will include anatomy, classification, physiological processes and requirements for life. The course will include studies designed to understand currently relevant topics such as biodiversity, the health of the Chesapeake Bay vegetation, and biotechnology. 3 credits
Pre-requisites: MAT093 or MAT095, EGL093 or placement into college level Math and English.
Co-requisites: BIO114, EGL101.

BIO111 **General Biology Lab** is a laboratory course designed to actively involve the student in the process of science. The student will perform experimental activities in the field or lab that study ecology, molecular biology, and genetics using team work and scientific instrumentation. 1 credit
Pre-requisite: MAT092 or MAT097.
Co-requisite: BIO101.

BIO113 **Introduction to Zoology Lab** will reinforce and expand on topics covered in the co-requisite course of Introduction to Zoology. This course will include laboratory and field work, including dissections and observations of animal behavior. 1 credit
Co-requisite: BIO103.

BIO114 **Botany: Intro to Horticulture Lab** provides a hands-on and field experience to complement the studies of Botany: Introduction to Horticulture. The emphasis will be on the anatomy and identification of plants and familiarity with their growth habits, accompanied by exposure to native plants and invasive species. Weather permitting, educational walks and tours of native plant arboretums, greenhouses and botanical gardens will be undertaken. 1 credit
Co-requisite: BIO104.

BIO123 **Foundations of Nutrition (S)** introduces the non-science major to the basic nutritional principles used to prepare a sound diet and live a healthy nutrition lifestyle. Particular emphasis is placed on: food origins/ethnic foods, general food groups, fuel nutrients, diet analysis and energy expenditure, food safety, societal and fad eating trends and their relationship to health. 3 credits
Pre-requisite: MAT093 or MAT096.
Co-requisites: EGL093, MAT097.

BIO130 **Principles of Biology I (S)** is the first semester of a two semester general biology sequence designed for students majoring in areas of science or health science. Basic principles of biology will be studied with emphasis on cellular and molecular biology. 3 credits
Co-requisites: BIO131, EGL101, MAT121

BIO131 **Principles of Biology I Lab** is the first semester of a two-semester general biology laboratory sequence designed for students majoring in areas of science or health science. Students will develop and perform experiments involving molecular biology, biochemistry, genetics, and cell biology. 1 credit
Co-requisite: BIO130.

BIO132 **Principles of Biology II (S)** is the second semester of a two-semester general biology sequence designed for students majoring in areas of science or health science. Basic principles of biology will be studied with emphasis on evolution, classification of life forms and their environments, ethology, and ecology of populations and communities. 3 credits
Pre-requisites: BIO130, BIO131, MAT121.
Co-requisite: BIO133.

BIO133 **Principles of Biology II Lab** is the second semester of a two-semester general biology laboratory sequence designed for students majoring in areas of science or health science. Students will perform experimental activities in the lab and field that include the study of evolution, organismal diversity and their environments, ethology, and ecology of populations and communities. 1 credit
Co-requisite: BIO132.

BIO200 **Microbiology (S)** surveys the roles of microorganisms in today's environment. We examine the history and development of microbiology, survey the diversity of microbes, and compare the structures of prokaryotic and eukaryotic organisms. Metabolic processes such as fermentation, photosynthesis, aerobic and anaerobic respiration are studied. Beneficial microbes and epidemiology are discussed. We will examine the growing role of microbes, through bioengineering and immunology, in maintaining our environmental and personal health. 3 credits
Pre-requisite: MAT093 or MAT095 or MAT097.
Co-requisites: BIO210, EGL101.

BIO203 **Nutrition** studies the principles of nutrition and their application in both health and disease and throughout the life cycle. The course is intended primarily for students going into nursing or related fields.
3 credits
Pre-requisite: BIO101 or BIO130 or BIO208.

BIO206 **Introduction to Biotechnology** will provide the student with a survey of biotechnology applications in plant and animal sciences, industrial and medical fields, and forensics. The legal, ethical and biological ramifications of these applications will be discussed. 3 credits
Pre-requisites: BIO101, BIO111 or BIO130, BIO131.

BIO208 **Human Anatomy and Physiology I (S)** studies the structural and functional organization of the human organism with initial emphasis on the concepts of homeostasis and levels of organization. This is followed by a brief survey of histology and then the study of four organ systems: integumentary, skeletal, muscular and nervous. It is strongly recommended that students take an introductory Biology course before enrolling in an Anatomy and Physiology course. 3 credits
Pre-requisite: MAT093 or MAT097.
Co-requisites: BIO218, EGL101.

BIO209 **Human Anatomy and Physiology II (S)** completes the sequence of study of the human body by studying the following organ systems: endocrine, cardiovascular, respiratory, digestive, urinary and reproductive. Relevant topics of metabolism, electrolyte balance and human genetics and development are included. 3 credits
Pre-requisites: BIO208, BIO218, MAT093 or MAT097.
Co-requisite: BIO219.

BIO210 **Microbiology Lab** introduces the student to methods for studying microbes including various types of microscopy, staining techniques, transformation and culture methods. Students will participate in lab experiments that stress the importance of microbe diversity, their unique physical and chemical growth requirements, and appropriate identification processes. Students are required to spend additional time in the lab to monitor lab results on non-lab days. 1 credit
Co-requisite: BIO200.

BIO216 **Intro to Biotechnology Lab** allows students to use the techniques discussed in BIO lecture. Students will have hands-on experience with the equipment and procedures currently in use in biotechnology such as immunological testing, bioengineered organisms, proteomics, and informatics. This course prepares students with the skills to perform in an industrial setting as well as a higher level biology laboratory. 1 credit
Co-requisite: BIO206.

BIO218 **Human Anatomy and Physiology I Lab** reinforces the topics covered in the lecture course BIO208 with hands-on activities. Students will use models, wall charts, microscopes, dissections and experimental observations. Students will study basic histology as well as the structure and function of the skin, skeletal, muscular, and nervous systems. It is strongly recommended that students take an introductory Biology course before enrolling in an Anatomy and Physiology course. 1 credit
Co-requisite: BIO208.

BIO219 **Human Anatomy and Physiology II Lab** uses models, microscopes, dissections and experimental observations to reinforce topics in the endocrine, cardiovascular, digestive, respiratory, urinary and reproductive systems. 1 credit
Pre-Requisite: BIO218.
Co-Requisite: BIO209.

BIO222 **Genetics** encompasses transmission genetics, molecular genetics, population genetics, genomics, and proteomics with a focus on understanding concepts and their applications. This course should be of interest to students pursuing careers in advanced studies in biology, molecular biology, biochemistry, science teaching, and health sciences. 3 credits
Pre-requisite: BIO130 or BIO101.
Co-requisite: BIO232.

BIO226 **Biotechnology II with Lab** investigates components of biomanufacturing, such as upstream and downstream processing, protein structure, and laboratory regulations. This laboratory-oriented course is designed to give students hands-on skills and techniques utilized in the biotechnology field, including scaling up cell cultures and protein expression, purification and characterization. This course is designed to prepare students for entry-level positions in biotech and pharmaceutical companies or transfers to four year institutions. 5 credits
Pre-requisites: BIO206, BIO216.

BIO232 **Genetics Lab** uses an experimental approach to illustrate and explain the basic concepts of genetics, including recombinant DNA techniques and classical, molecular, and population genetics. Students will have hands-on experience with DNA analysis, PCR, Western blots, protein analysis, and simulations to reinforce the topics covered in the lecture. This course will prepare students to employ the techniques used in genomics, proteomics, and bioinformatics. 1 credit
Pre-requisites: BIO101, BIO111 or BIO130, BIO131.
Co-requisite: BIO222.

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Business

BUS103 **Introduction to Business** provides an overview of the major functional areas of business and our economic systems. Organizational areas include business systems, management, human resources, marketing, production, and operations and information. Blended throughout the course are business-world trends of the growth of international business, the significance of small business, the continuing growth of the service sector, the need to manage information and communication technology and the role of ethics and social responsibility. This course should be taken early in the student's program. 3 credits

BUS108 **Principles of Purchasing** examines the purchasing process including inventory control, price determination, vendor selection, negotiation techniques, and ethical issues. This course will also provide an overview of the Defense Federal Acquisition Regulation Supplement, which covers simplified acquisition procedures (SAP). 3 credits
Pre-requisite: EGL093.

BUS131 **Principles of Management** introduces the various principles and theories associated with management. Ethical and practical considerations are integrated through the use of lectures and the studying of management cases. 3 credits

BUS187 **Business Ethics** focuses on an examination of typical ethical dilemmas encountered in the business environment. Ethical theories and principles are studied as a foundation for resolving ethical challenges. Through selected readings and classic and contemporary case studies, students will develop skills to identify pertinent aspects of various ethical dilemmas, identify stakeholders, apply a model for decision making, and evaluate the consequences of actions or inaction. 3 credits
Pre-requisite: EGL101.

BUS191 **Introduction to Finance** addresses fundamental concepts in financial management such as security markets, interest rates, taxes, risk analysis, time value of money, valuation models and related global issues. This course explains how financial managers help maximize the value of a firm by making capital budgeting, cost of capital and capital structure decisions. 3 credits
Pre-requisite: MAT093 or MAT097.

BUS207 **Introduction to Public Relations** introduces the student to the study of public relations, a distinctive management function which establishes and maintains mutual lines of communication between an organization and its public. 3 credits
Pre-requisite: EGL093.

BUS210 **Business Law** covers topics including the sources of law, the regulatory environment, and the growing legal considerations involved with commercial activity. Emphasis is placed on contract law, personal property law, sales, and the use of the uniform commercial code. Case analysis and outside reading assignments are also used throughout the course. 3 credits
Pre-requisite: EGL093.

BUS212 **Principles of Marketing** emphasizes the growing field of marketing. Topics studied include product service planning, marketing information management, purchasing, pricing, promotion, selling, risk management, finance, and distribution. Applicable ethics to this field are studied and discussed. In addition to the class lectures, videos and films are used to emphasize the principles. Students participate in case analysis and various marketing projects. Familiarity with computer applications, including Internet operations and some word processing, is essential for success in this course. 3 credits

BUS216 **Organizational Leadership** is a study of the characteristics and traits constituting effective leadership and its impact on organizations. Students will review the history of leadership, the various theories of leadership, and topics on organizational behavior, personality, and attitudes related to work. Additional topics studied include work motivation, interpersonal communication, use of teams and groups in organizations, and group dynamics. Also included is a review and discussion of past and current writings of various leaders.
3 credits
Pre-requisite: BUS131.

BUS231 **Management of Human Resources** provides the student an opportunity to learn the fundamental concepts of human resource management and to apply those concepts to current management practices through appropriate management problem solving situations, projects, and case studies. Topics studied include, but are not limited to, equal employment opportunity, job requirements, human resources planning and recruitment, selection of personnel, career development, appraising and improving performance, compensation, incentives and employee benefits, safety and health concerns, labor relations and collective bargaining, and creating high performance work systems. 3 credits

BUS235 **Applied Technology Experiential** Learning focuses on analyzing, designing, implementing, and evaluating data through the use of technology. The scope of the experiential learning course includes a review of the fundamentals of computer applications and the development of reports, charts, and graphs applicable to the student's work environment. 3 credits
Pre-requisites: EGL101, BUS103.
Co-requisite: CIS101.

BUS237 **International Finance Experiential** Learning will guide students through an applied learning experience within the workplace to understand the basics of international trade and finance and the effects of various international economic policies on domestic and global welfare. The course will highlight sources of comparative advantage, gains, and losses from trade, the impact of trade on economic growth, and effects of trade policy interventions. Students will evaluate decisions, policies, and behaviors from an international perspective. 3 credits
Pre-requisites: EGL101, BUS103.
Co-requisite: ECO222.

BUS241 **Effective Teams and Work Groups** guides students through a learning experience involving direction, motivation, and goal achievement of a work-team. Students will develop and practice the skills needed to develop and guide a high-performing team which achieves organizational objectives, which is an important skill-set in today's global environment. The team leader will also analyze the strengths and weaknesses of the team in relation to organizational goals. 3 credits
Pre-requisite: EGL093.
Co-requisite: BUS103.

BUS242 **Advertising** examines the fundamentals of advertising as it relates to marketing promotions. This course addresses planning, creating, executing, and monitoring integrated advertising campaigns. Specific topics include print media, broadcast media, copywriting, and international advertising. 3 credits
Pre-requisite: BUS212.

BUS243 **Personal Selling** is an integral part of the promotional mix. In today's highly competitive market, an effective sales approach which focuses on defining customer's needs, explaining product value, and ultimately having the customer's joint agreement in said value is essential to a successful business. 3 credits
Pre-requisite: BUS212.

BUS244 **Organizational Behavior** will provide the student the opportunity to explore and develop the basic principles of human behavior that effective managers use when managing individuals and groups in organizations. Topics include various aspects of behavioral concepts and practices that impact an organization. 3 credits

BUS280 **Strategic Planning Concepts** focuses on the processes involved in the development and implementation of a strategic plan. Topics include the variety of perspectives, models, and approaches used in strategic planning. Topics related to the planning process include organizational leadership, organizational culture, organizational environment, size of the organization, and expertise of planners. Students should complete 75% of their degree coursework prior to enrolling in this course. 3 credits
Pre-requisites: BUS103, MAT127.

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Chemistry

CHM103 **General Chemistry I** studies the fundamental principles of chemistry including measurement, atomic structure, stoichiometry, energy relationships, chemical bonding, molecular structure, and gases. 3 credits
Pre-requisite: MAT093 or MAT098.
Co-requisites: CHM113, EGL101

CHM104 **General Chemistry II (S)** is a continuation of General Chemistry I. Topics include solutions, chemical kinetics, chemical equilibrium, acids and bases, equilibria in aqueous solution, chemical thermodynamics, electrochemistry, nuclear chemistry, and coordination chemistry. 3 credits
Pre-requisites: CHM103, CHM113.
Co-requisites: CHM114, MAT121.

CHM109 **Chemistry and Art (SL)** studies the application of chemical principles to various aspects of the visual arts. Topics include elements, compounds, atomic structure, the periodic table, chemical bonding, chemical reactions, acids and bases, oxidation-reduction reactions, and polymers. These concepts are introduced where appropriate in the exploration of the chemistry of art media such as paints, dyes metals, glass, ceramics, plastics, paper, fibers, and photographic materials. Laboratory activities have been designed to complement and enhance the lecture topics. The instructional approach used in CHM109 is a combination of lecture, demonstrations, small group work, experiential exercises, and discussion. CHM109 fulfills the physical science requirement in the majority of programs and curricula. 4 credits
Pre-requisite: MAT092 or MAT097.
Co-requisite: EGL101.

CHM113 **General Chemistry I Lab** will expose students to basic chemistry laboratory techniques and procedures such as sample preparation, data collection, gravimetric analysis and titration. Because this course is designed to complement the General Chemistry I lecture course, conceptual topics include physical properties, determination of molecular weights, stoichiometry, energy, and gas laws. 1 credit
Co-requisite: CHM103.

CHM114 **General Chemistry II Lab** will build upon the basic chemistry laboratory techniques and procedures learned in CHM103. This course covers conceptual topics including qualitative analysis, chemical reactions in aqueous solution, acid-base reaction, reaction rates, chemical equilibrium, electrochemistry, and oxidation-reduction reactions. 1 credit
Pre-requisites: CHM103, CHM113.
Co-requisite: CHM104.

CHM203 **Organic Chemistry I with Lab** studies the structure, properties, major reactions, and nomenclature of organic compounds. Also included in the course are stereochemistry and spectroscopic methods of analysis. Major classes of organic compounds discussed are aliphatic hydrocarbons, alkyl halides, aromatic hydrocarbons, and alcohols. The laboratory portion of CHM 203 includes essential organic chemistry laboratory techniques and experiments designed to reinforce concepts discussed in lecture. 4 credits
Pre-requisites: CHM104, CHM114.

CHM204 **Organic Chemistry II with Lab** is the continuation of CHM203. Topics include organometallic compounds, carbonyl compounds, carboxylic acids and their derivatives, condensation reactions, amines, aryl halides, and phenols. Special topics include carbohydrates, proteins, and nucleic acids. The laboratory portion is designed to reinforce concepts discussed in lecture and to teach organic chemistry laboratory techniques.
4 credits
Pre-requisite: CHM203.

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Chinese

CHI101 **Chinese I** is an introductory course in Mandarin Chinese for students with no prior knowledge of Chinese. Students will learn to write Chinese characters and use essential vocabulary and elementary grammar for oral and written communication. Students will also explore aspects of Chinese culture and society. 4 credits

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College Success

COL081 **College Success Seminar I** is an entry-level course that presents study skills for courses in all disciplines. Course content from various disciplines, guest lecturers, and orientation assignments combine to provide each student with learning strategies to build student success. Assignments require students to apply academic strategies to other courses. 1 credit

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Computer Information Systems

CIS101 **Introduction to Computer Concepts (I)** is a non-technical course covering the use of word processing, spreadsheets, databases, and presentation software. Emphasis is placed on computer literacy and the use of personal computers. Students with limited keyboarding skills should take CIS105, Keyboarding, at the same time, or prior to, enrolling in this course. 3 credits.

CIS105 **Keyboarding** is the foundation skill required for effective computer usage in virtually every profession. The keyboard is now a tool used extensively by educators, managers, scientists, engineers, attorneys, physicians, factory workers, and employees in a vast array of positions. This course is designed to help you achieve the goal of using proper techniques and meaningful practice to key accurately and rapidly.
1 credit

CIS111 **Microsoft Applications** reviews the basics of Microsoft Office Professional and continues to cover advanced functions of word processing, spreadsheeting, databasing, presentation software, and data sharing and integration. 3 credits
Pre-requisite: CIS101.

CIS151 **Introduction to Windows Server** is designed to prepare students for Microsoft Windows Server networking technology certification 70-290 MCSE exam, Managing and Maintaining a Microsoft Windows Server Environment. Students will receive extensive hands-on projects, exercises, and review questions which are designed to reinforce Microsoft Windows Server certification skills. Case projects will allow students to take on the role of a Windows Network administrator; making decisions and troubleshooting real-situation problems. 3 credits
Co-requisite: DAP140.

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Counseling

COU101 **Career Development** is designed to provide assistance to the student in making appropriate career selections. Students will engage in an assessment of personal interests, values and skills. Students will also focus on goal setting, job hunting techniques, and the world of work and workplace issues. 3 credits

COU102 **Dynamics of Human Interaction (SS)** utilizes a group counseling approach to the study of personal growth and healthy personality. Needs of the group determine the topics to be emphasized from among the following: influence of self-concept and self-esteem upon college achievement, self-disclosure as a means of building friendships, coping with stress and anxiety, patterns of sexual behavior, ideas for improving marriage relationships, and development of the ability to relate to other individuals in productive and meaningful ways. This course provides an opportunity to increase interpersonal effectiveness via lectures, discussions, and direct student involvement in an on-going group experience. 3 credits

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Computer Science

CSC103 **Operating Systems** introduces the basic concepts of operating systems such as Windows and UNIX. This course provides a comprehensive overview of multiple operating systems commonly found in the Information Technology field today to include the theory behind operating systems. Accordingly, this course will cover the basic functions and design of file systems found in Windows and UNIX operating systems as well as basic network theory and setting up network resources through the multiple versions of software. Special attention will be given to hardware requirements, installation, and file management. 3 credits

CSC104 **Computer Science Fundamentals (I)** is specifically designed as an introductory course for computer, engineering, math and science students to prepare them for the digital world. Readings, research, and activities in this course are designed to help students develop a framework for technology concepts that are applicable to academic research, career preparation, and today's digital lifestyle in these specific fields.
3 credits

CSC106 **Introduction to Programming Logic** will take an in depth look at programming concepts and techniques. It will examine theoretical concepts that make the world of programming unique. Also, this course will adopt a practical hands-on approach when examining programming styles. Along with examining different coding, this course will explore the advancement of programming, as well as, timeless problem solving strategies. 3 credits

CSC109 **Introduction to Programming** covers the core concepts and techniques of Programming using C++ and Visual Basic that are needed to logically plan and develop programs using object oriented programming and design. 3 credits

CSC110 **Ethics in Information Technology** explores the ethical dilemmas that exist where human beings, information objects, and information systems interact. The course introduces students to a variety of ethical situations from historical and cross-cultural perspectives and then explores the relevance to a variety of new and emerging technologies that are inherently social in their construction and use. 3 credits

CSC111 **Introduction to CAD** will enable students to create a basic 2D drawing in AutoCAD. Upon completion of the course, the student will be able to create and edit a simple AutoCAD drawing. This course will help the student understand the AutoCAD user interface and workspace, use basic drawing, editing, and viewing tools, organize a drawing using layers, understand and insert blocks (symbols), prepare a layout to be plotted, and add text, hatching, and dimensions. 3 credits

CSC112 **Intermediate CAD** is the second in the series of courses in AutoCAD. Emphasis is on tools available to gain information from the CAD drawings and export information to other programs, fundamental to the design process. The course provides some customization of the user interface, template settings, advanced plotting techniques, use of fields, blocks, block attributes and tables which will make the student more proficient in his/her use of AutoCAD. 3 credits
Pre-requisite: CSC111.

CSC130 **Introduction to Linux+** prepares students to take and to pass the Linux+ certification exam. The course provides comprehensive coverage of topics related to Linux + certification, including Linux + distributions, installation, administration, X-Windows, networking, and security. 3 credits
Co-requisite: CSC102 or CSC140.

CSC131 **Visual Basic Programming** will further explore the event-driven Visual Basic language using the .Net Environment and object oriented programming techniques. It will examine the advanced concepts of arrays, single and two-dimensional arrays, sequential files utilizing the System IO classes, additional controls and objects, database management, and object-oriented programming. Emphasis will be placed on developing object-oriented programs utilizing classes and objects and the concepts of inheritance, polymorphism, overriding and encapsulation. 3 credits
Pre-requisite: CSC109.

CSC135 **A+ Certification** provides an introduction to the basic concepts of managing and maintaining your computer. The course maps directly to CompTIA's A+ Certification exam A+ 220-701 Essentials exam and the A+ 220-702 Practical Applications exam. The course involves two parts which comprise a PC Repair Essentials component followed by a PC Repair Practical Applications component. Both components include balanced content on hardware and software. 4 credits

CSC140 **Introduction to Networking** provides an introduction to the basic concepts of computer networks and preparation for CompTIA's Network + certification exam. The course covers a broad range of networking-related topics, including protocols, topologies, transmission media, and network operating systems as well as the practical skills of network design, maintenance, security, and troubleshooting. 3 credits

CSC141 **Computer Network Security Fundamentals** provides the student with network security principles and implementation. The technologies used and principles involved in creating a secure computer networking environment will be included, as will authentication, the types of attacks and malicious code that may be used against networks, the threats and countermeasures for e-mail, Web applications, remote access, and file and print services. A variety of security topologies will be discussed, as well as technologies and concepts used for providing secure communications channels, secure internetworking devices, and network medium. 3 credits
Co-requisite: DAP140 or CSC140.

CSC147 **Introduction to Wireless Networking** is designed to provide the skills needed to install, configure, manage, monitor, and troubleshoot a wireless LAN. The topics covered include wireless fundamentals, standards, and working with wireless devices. 3 credits
Co-requisite: CSC140.

CSC148 **Server-Side Scripting with ASP** covers the concepts and techniques of generating dynamic web pages using Active Server Pages (ASP). Students will learn how to process and store data submitted through HTML forms, personalize web pages, and access, update, and store data from a database. This course also introduces object-based programming through the use of built-in functional objects of ASP. This course includes a large component of hands-on dynamic web page production and computer work. 3 credits
Prerequisites: CSC109, CSC133.

CSC150 **Microsoft Windows Server 2008** prepares students to administer networks and to pass the MCITP 70-646 certification exam. This course includes topics such as installing, configuring, managing and troubleshooting. 3 credits
Co-requisite: CSC140 or permission of the instructor.

CSC151 **Introduction to Computer Forensics and Investigations** provides students with the tools and techniques of computer forensics and investigation including personal computer operating system architectures and disk structures. Students will learn the investigative process, examine the profession, set up an investigator's office and laboratory, and learn forensic hardware and software tools. Learning the importance of digital evidence controls and how to process crime and incident scenes will also be presented and discussed. Students will learn the details of data acquisition, computer forensic analysis, e-mail investigations, image file recovery, investigative report writing, and expert witness requirements. This course maps to the CompTIA Security+ certification. 3 credits

CSC154 **Introduction to Microsoft Windows 10** prepares students to develop the skills needed to administer, deploy, and manage the Windows 10 operating system, desktop/metro, and to prepare for the MCTS certification exam. Students will learn how to migrate to Windows 10. The course also covers new features and how those features compare to earlier versions of Windows. Installing, troubleshooting, and problem solving will also be reviewed. 3 credits

CSC156 **Microsoft Windows Server 2012** prepares students to administer networks and to pass the MCITP 70-646 certification exam. This course includes topics such as installing, configuring, managing and troubleshooting Windows Server 2012. 3 credits
Co-requisite: CSC140 or permission of the instructor.

CSC160 **Introduction to Data Communications** is designed to introduce data processing students to the world of data communications and networking concepts. The course will include an introduction to networks, analog/digital communications, data channels, modems, interfaces, transmission problems, control codes, protocols, multiplexers, distributed processing, performance, simulations, satellite, packet switching, LANs, system design, technical control, case studies, and the future outlook for data communications technology and potential available positions for employment opportunities. 3 credits

CSC161 **Oracle I - Introduction to SQL** prepares students for Oracle certificate IZO-007. Students learn to analyze complex business scenarios and create a data model, a conceptual representation of an organization's information. Students are introduced to database concepts, basic SQL SELECT statements, table creation and management, constraints, data manipulation and transaction control, and exploring SQL topics in application development. 3 credits
Pre-requisite: CIS101 or permission of instructor.

CSC163 **Database Design Principles** builds upon the fundamental concepts of database systems to apply the principles of database implementation and database design. Topics include conceptual and logical data modeling, strongly-typed and weakly-typed data, entity-relationship modeling, and the implications of database design as related to user requirements. 3 credits
Pre-requisite: CIS101 or consent of instructor.

CSC170 **Introduction to JAVA Programming** covers fundamental programming, including selection and repetition, as well as fundamental concepts of object-oriented programming and design. Advanced topics include inheritance, polymorphism, exceptions, recursion, and searching/sorting. Select compilers are used, such as Net Beans and/or Eclipse. 3 credits
Pre-requisite: CSC109 or permission of the instructor.

CSC182 **Scripting Languages** covers the core concepts of Internet programming, using VBScript and JavaScript, that are needed to bridge the gap between Web programming languages and Web architecture from both the client and server side. 3 credits
Pre-requisite: CIS124.

CSC201 **Business Systems Analysis and Design** prepares students to do system analysis and design through practical cases and examples. Students will work on actual systems projects and solve problems similar to those occurring in the workplace. This course covers a blend of traditional and current development techniques, such as client-server and object-oriented development, graphical user interfaces, and electronic data interchange. 4 credits

CSC202 **Creative Design (I)** introduces theories of creative thinking and their application to concept development and problem-solving. Historic principles and emerging brain research related to creative thinking are examined and applied to creative projects that engage students in the use of interdisciplinary tools and techniques drawn from art, design, science, and technology. Topics include individual creative processes, creative team dynamics, problem identification, solution design, and analysis of process, resulting in innovative, successful resolutions shared with others. 3 credits
Co-requisite: EGL101.

CSC203 **Seminar in Information Systems** is designed to make the student aware of the need to stay current in the field of new technologies by identifying and evaluating new technologies, reading technical journals and literature for current and future trends, and continuing their formal education in the latest technology and trends available. 1 credit

CSC204 **Seminar in Information Systems** is designed to make the student aware of the need to stay current in the field of new technologies by identifying and evaluating new technologies, reading technical journals and literature for current and future trends, and continuing their formal education in the latest technology and trends available. 1 credit

CSC205 **Computer Science I** is an introduction to the basic concepts of an object-oriented programming language such as Java or C++. This course introduces such programming concepts as data types, structures, decision making, looping, functions, arrays, files, and objects. 3 credits
Pre-requisites: CSC106 and/or CSC109 or permission of instructor.

CSC218 **Computer Science II** continues the development of object-oriented programming and problem-solving skills by using an object-oriented language such as Java or C++. The student will obtain a solid foundation in advanced object-oriented topics such as abstract data types, overload operators, dynamic memory, exception handling, inheritance, and polymorphism. The student will also examine data structures such as stacks, queues, and trees, as well as perform efficiency analysis on searching and sorting algorithms.
4 credits
Pre-requisites: CSC205, MAT201 or consent of instructor.

CSC225 **Tactical Perimeter Defense** is a course in the principles and practices of advanced network security fundamentals and technologies involved in securing the network perimeter. The student will obtain a solid foundation in security practices such as TCP/IP addressing, routing, packet filtering, and the installation of proxy servers, firewalls, and virtual private networks (VPNs). This course prepares the student to take the current Security Certified Network Specialist (SCNS) exam. 3 credits
Pre-requisite: CSC141 or permission of instructor.

CSC229 **Computer Animation III** is a continuation of Computer Animation I and II. Students will apply the functions of various 3DMAX plugins such as Hypermatter, Clay Studio, Sand Blaster, Splash, and Trees to develop a portfolio. 3 credits
Pre-requisite: DAP219 or CSC219.

CSC230 **Advanced Programming in Python** builds upon the basic Python programming skills learned in CSC109. Students focus on object-oriented programming while learning advanced concepts. The course will progress into a series of real-world development projects using third party modules in the areas of scientific computing, web development and data analysis. 3 credits
Pre-requisite: CSC109.

CSC235 **Strategic Infrastructure Security** is a course in the principles and practices of hardening strategic systems and pathways in the network infrastructure. The student will be exposed to a solid foundation in security topics such as penetration testing, capturing and analyzing packets, signature analysis, operating system hardening, risk analysis, router security, wireless security, and cryptography. This course prepares the student to take the current Security Certified Network Professional (SCNP) exam. 3 credits
Pre-requisite: CSC225 or permission of instructor.

CSC258 **Cisco Certified Network Associate** prepares students for the Cisco Certified Network Associate (CCNA) certification exam 640-802. It focuses on implementing, managing, protecting, and troubleshooting small to medium-size enterprise branch networks. 4 credits
Pre-requisite: CSC140 or permission of the instructor.

CSC260 **Oracle II – Database Programming with SQL** prepares students for Oracle certificate IZO-047. Students will implement database design by creating a physical database using SQL, the industry-standard database programming language. Upon completion of this course, students have the opportunity to sit for the exam/s required to qualify as an Oracle Certified Associate Developer. 3 credits
Pre-requisite: CSC161 or consent of instructor.

CSC263 **Oracle III Database Fundamentals I** will provide students with a conceptual understanding of the Oracle database architecture and how its components work and interact with one another. Students will learn how to create an operational database and properly manage the various structures in an effective and efficient manner. This course is designed to prepare students to take the Oracle Certified Associate exam: Exam #1Z0-031, which is the first of three certificates needed to be certified as an Oracle Database Administrator (DBA).
3 credits
Pre-requisite: CSC260 or consent of instructor

CSC264 **Oracle IV: Database Fundamentals II** provides an introduction to the topics concerning data backup and disaster recovery procedures using Oracle Recovery Manager (RMAN), SQL, and Enterprise Manager. Advanced Oracle 10g options such as Scheduler, Automatic Storage Management (ASM), and Database Resource Manager are discussed. Oracle 10g also performs a number of operations automatically. 3 credits
Pre-requisites: CIS263, CSC263 or consent of instructor.

CSC265 **Oracle V: Database Security and Auditing** addresses the implementation of database security on modern business databases. Hands-on projects and case studies are used to reinforce and apply skills and knowledge to real-world scenarios on database security and auditing. 3 credits
Pre-requisites: CIS264, CSC264 or consent of instructor.

CSC273 **CBWEP - CSC College-Based Work Experience** provides the opportunity for a student to obtain work experience that is productive in nature and an essential part of the overall educative process. The work assignment is related to the student's field of study and/or career interests. The work assignment serves as an extended laboratory and training station supervised by a faculty member from the field of study and an on-site representative of the employer, and coordinated by the CBWEP coordinator. 1-3 credits
Pre-requisites: GPA of 2.0 and completion of all relevant courses as listed in the program option.

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Criminal Justice

CRJ101 **Introduction to the Criminal Justice System** is an introduction to the social and historical background of law enforcement and corrections. This course includes an orientation to the United States criminal justice system while examining the roles of the modern federal, state, and local law enforcement and correctional agencies. 3 credits
Pre-requisite: EGL093.

CRJ105 **Introduction to Corrections** provides a comprehensive overview of corrections, dealing with jails and prisons as well as the historical development of corrections and the legal processing from the incident to the prison. 3 credits
Pre-requisite: CRJ101.

CRJ108 **Police Supervision Personnel Management** will introduce students to methods and techniques involved in becoming an effective police supervisor. The course focuses on police leadership issues regarding the responsibilities toward administrative, legal, and personnel problems. 3 credits
Pre-requisite: CRJ101.

CRJ110 **Police Community Relations** will introduce students to the influences of culture, race, and ethnicity and emphasize building relationships between law enforcement and the community they serve. This course focuses on the contact police officers have with the community and stresses the importance of cultural awareness, understanding, and respect. 3 credits
Pre-requisite: CRJ101.

CRJ133 **Forensic Science I** will introduce students to the theory and methods of the collection, preservation, and identification of physical evidence. Emphasis is on the history and development of forensic science, processing the crime scene, and the introduction to various items of physical evidence, including firearms, identification of ballistics, document examination, fingerprints, properties of glass and soil, and dangerous drugs. 3 credits
Pre-requisite: CRJ101.

CRJ201 **Criminal Investigation** is a study of the basic principles of investigation. This course will introduce students to the theory of investigation, search of the crime scene, questioning of witnesses and suspects, collection and preservation of evidence, sources of information, interviews and interrogations, techniques in surveillance, stakeouts, and raids for their implications in proper criminal investigative reports and court proceedings. 3 credits
Pre-requisite: CRJ101.

CRJ205 **Principles of Criminal Law** will introduce students to the general legal principles of American criminal law. This course will survey the historical development of criminal law, the elements of crime under the common law, and the fundamental theories of criminal responsibility. 3 credits
Pre-requisite: CRJ101.

CRJ211 **Probation Parole and Community Corrections** will introduce students to the development, organization, and functions of probation, parole, and community-based correctional programs in the United States criminal justice system. Particular attention is paid to the legal, functional, and administrative aspects of these sanctions, as well as the impact on sentencing practices and offender reintegration. 3 credits
Co-requisite: CRJ105.

CRJ214 **Delinquency and Juvenile Justice** will introduce students to all aspects of juvenile justice from arrest, intake, adjudicatory hearings, dispositions, and aftercare. This course is an orientation to the divergent theories, philosophies, values, attitudes, and historical events that have contributed to the operation of the modern juvenile justice system. It will examine the legal rights of juveniles and landmark U.S. Supreme Court cases.
3 credits
Pre-requisite: CRJ101.

CRJ221 **Criminology** will introduce students to the general theories of crime causation and the impact crime has on society. This course will provide a general survey of the nature and causes of crime and efforts of the criminal justice system to predict, prevent, modify and correct this behavior. 3 credits
Pre-requisite: CRJ101.

CRJ225 **Police Organization and Administration** will introduce students to the organizational structure and administrative procedure for the implementation of police functions, recruitment, career advancement,

leadership, staffing, supervision and morale. 3 credits
Pre-requisite: CRJ101.

CRJ233 **Forensic Science II** expands upon the methods of collection, preservation, and identification of physical evidence. This course emphasizes methods of examination such as fires, explosions, computer forensics, bite marks, hairs and fibers, and blood splatter patterns. The responsibilities and duties of the forensic pathologist will also be covered. 3 credits
Pre-requisites: CRJ101, CRJ133.

CRJ275 **Criminal Justice Physical Fitness Lab** is a specialized physical education course for criminal justice majors that emphasizes an understanding of physical fitness and its direct application to the criminal justice profession. Topics include wellness, physical fitness, and self-evaluation. The general requirements for the police physical agility portion of the civil service examination are explained and incorporated into this course.

1 credit

CRJ299 **Cooperative Education Experience in Criminal Justice** will enable students to connect academic course work to the knowledge, skills, and emotional challenges that are found in the professional world. The course focuses on the many issues involved in the total externship experience, especially those related to student's personal and professional development during his/her externship education. 3 credits
Pre-requisite: CRJ101.

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Economics

ECO221 **Economics-Micro (SS)** is the study of economic behavior of individual households and firms and the determination of the market prices of individual goods and services. The basics of demand, supply, elasticity, price theory, and factor markets is stressed and students are shown how to graph and explain basic economic relationships. 3 credits
Pre-requisite: MAT092 or MAT097.

ECO222 **Economics-Macro (SS)** is the study of large-scale economic phenomena. Emphasis is placed on the impact of government, inflation, unemployment, and fiscal and monetary policies. International trade and currency considerations as comparative economic systems are included. 3 credits
Pre-requisite: MAT092 or MAT097.

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Education

EDU101 **Foundations of Education** is a survey course designed to introduce students to the American educational system. Students will examine the history of education, educational philosophies, student diversity, learning styles, school organization, school law, and current issues in education. 3 credits
Co-requisites: EDU102, EGL101.

EDU102 **Foundations of Education - Field Experience** is the school-based companion course to Foundations of Education. Students will work with classroom teachers (minimum of 15 hours) to develop an understanding of the teaching profession, students and schools. 1 credit
Co-requisite: EDU101.

EDU131 **Principles of Early Childhood Education** is a foundations course, which examines early childhood education from a variety of perspectives including historical and developmental. Students will examine typical and atypical child development, learning theories, diversity, developmentally appropriate practice, teaching models, and critical issues related to teaching and child growth and development. Approved by the Maryland State Department of Education. 3 credits
Co-requisite: EDU202.

EDU132 **Early Childhood Curriculum and Methods** introduces the student to the curriculum, materials, and methods that support the creation of developmentally appropriate environments, developing curriculum based on Early Childhood Standards (NAEYC, Headstart), and differentiated instruction to meet the needs of children birth to eight years of age. 3 credits
Pre-requisite: EDU131.
Co-requisite: EDU203.

EDU150 **Classroom Management** is designed to assist future and current teachers in the development of systematic strategies and techniques for organizing and managing classroom activities and students. Research and practitioner-based models for classroom management will be introduced and explored. Emphasis will be based on real-world solutions for creating supportive and respectful environments that encourage all students to view themselves and learning in a positive light. 3 credits

EDU202 **Principles of Early Childhood-Field Experience** is the child care center/school-based companion course to Principles of Early Childhood I. Students will work with classroom teachers (minimum of 15 hours) to develop an understanding of the teaching profession, students, schools, and child care centers. 1 credit
Co-requisite: EDU131.

EDU203 **Early Childhood Curriculum and Methods-Field Experience** is the childcare center/school-based companion course to Early Childhood Curriculum and Methods. Students will work with classroom teachers (minimum of 15 hours) to develop an understanding of the teaching profession, students, schools, and childcare centers. 1 credit
Co-requisite: EDU132.

EDU207 **Educational Psychology- Field Experience** is the school-based companion course to Educational Psychology (PSY207). Students will work with classroom teachers (minimum of 15 hours) to develop an understanding of the teaching profession, students, and schools. 1 credit
Co-requisite: PSY207.

EDU210 **Processes and Acquisition of Reading** focuses on the concepts of how children learn to read, cognitive processing, and the development of language, including the structure of language and the cognitive precursors to reading acquisition. This course will also investigate the role of prior knowledge, motivation, reading difficulties, and personal significance to developing readers. 3 credits
Pre-requisite: EDU101 or permission of instructor.

EDU211 **Instruction of Reading** provides an introduction to the stages of reading development and the role of word recognition, vocabulary, and comprehension in literacy development. The course will also analyze a variety of approaches to teaching reading in order to meet the needs of a diverse student population. 3 credits
Pre-requisite: EDU210.

EDU212 **Assessment for Reading Instruction** presents important concepts for the development of a diagnostic reading and improvement program. Students will explore a variety of formal and informal assessment tools and techniques for use in the classroom. For each assessment tool, students will develop administrative procedures, explore strengths and limitations of the instruments and techniques, and develop instructional implications from the assessment results. 3 credits
Pre-requisite: EDU101.

EDU251 **Introduction to Exceptional Children and Youth** is an introductory survey of the field of special education in which the psychological, sociological, behavioral, and physical characteristics of exceptional children and youth are explored. Emphasis is placed on characteristics, issues, laws, and educational approaches to teaching the exceptional child. 3 credits
Pre-requisite: EDU101.
Co-requisite: EDU253.

EDU253 **Introduction to Exceptional Children and Youth-Field Experience** is the school-based companion course to Introduction to Exceptional Children and Youth. Students will work with classroom teachers (minimum of 15 hours) to develop an understanding of the teaching profession, exceptional students, and schools. 1 credit
Co-requisite: EDU251.

EDU260 **Children's Literature** provides opportunities to select, read, evaluate, and utilize a wide variety of children's literature from preschool through middle school. It is expected that students become familiar with various authors, poets, and illustrators of these books, as well as explore the role of children's literature across the curriculum. Resources that support the use of children's literature will also be explored. 3 credits
Pre-requisite: EGL102.

EDU263 **Teaching Reading in the Secondary Content Area I** is the first of two courses designed to meet the Maryland State Department of Education (MSDE) requirements for reading coursework for current and prospective teachers in the secondary content areas. The course introduces teachers to the assessment of student reading, cognitive strategies in reading, incorporating reading skills through student-centered instruction, and intrinsic and extrinsic motivation for reading. 3 credits
Pre-requisite: EDU101 or permission of instructor.

EDU264 **Teaching Reading in the Secondary Content Area II** is the second of two courses designed to meet the Maryland State Department of Education (MSDE) requirements for reading coursework for current and prospective teachers in the secondary content areas. This second course expands on Part I, focusing on types of reading, skills in reading, and instruction. 3 credits
Pre-requisite: EDU101 or permission of instructor.

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Engineering

PHE100 **Introduction to Autodesk Inventor** will prepare students to use the 3D solid modeling software, Autodesk Inventor, for Computer Aided Engineering. The course will cover the development of 3D parametric, solid models; assembly modeling and checking; and production of engineering drawings. Also covered are introductions to sheet metal modeling, motion analysis, and stress analysis using Finite Element Analysis (FEA). Upon completion of the course, students will be prepared to take the Autodesk Inventor Certified Associate Exam. Students will be required to complete projects, write reports, and make presentations.
3 credits
Prerequisites: EGL101, MAT121.

PHE101 **Introduction to Engineering Design** is a project-based course that introduces the product development process. Working in teams and using modern computer tools, students complete the design of a complex system requiring problem specification, product research, product design, product modeling and analysis, fabrication, testing, redesign and product presentation. Engineering fundamentals such as units and dimensions, CAD modeling and analysis, creation of engineering drawings, data analysis with spreadsheets, properties of materials, mechanics, heat transfer, circuits, computer programming and other engineering topics are studied. 3 credits
Co-requisite: MAT201.

PHE110 **Microstation Fundamentals** will enable students to create a basic 2D drawing using Bentley's Microstation. The student will create and edit elements and add text and dimensions to a Microstation design file. This course will help the student understand the Microstation user interface, its unique drawing technique and input settings, view windows, and mouse operation. The student will prepare a drawing for print to multiple formats including paper, image, and portable document format (pdf). 3 credits
Pre-requisites: EGL101, MAT121.

PHE120 **Auto Cadd Fundamental/for/Engineers** will introduce students to the use of the 2D CAD capabilities of AutoCAD to produce engineering graphics. The course will review the principles and practices of engineering drawing while covering the use of AutoCAD to produce conceptual and working engineering drawings. Upon completion of the course students will be prepared to take the AutoCAD Certified Associate exam. 3 credits
Pre-requisites: EGL101, MAT121.

PHE128 **Introduction to Revit Architecture** will lead students through the process of creating a building model using the 3D building information modeling software, Revit. The course will cover the use of building information modeling (BIM) in the building industry, development of 3D model elements, views, dimensions and annotations, schedules, basic structural items, drawing sheets and printing, site and topography, and rendering. 3 credits
Pre-requisites: EGL101, MAT121.

PHE130 **Solidworks Fundamentals** will introduce students to the use of the 3D solid modeling software, Solidworks. Students will cover the development of 3D models, analysis of the solid models using Finite Element Analysis (FEA), assembly modeling and checking, kinematic simulation, rapid prototyping, and production of engineering drawings. Upon completion of the course students will be prepared to take the CSWA (Certified Solidworks Associate) exam. 3 credits
Pre-requisites: EGL101, MAT121.

PHE180 **MATLAB Fundamentals for Engineers** guides students from basic computations through engineering applications of symbolic mathematics, numerical techniques, and graphical analysis. Students will focus on problem-solving and the basics of programming, M-files, functions, plotting, matrix algebra, and numerical and graphical techniques. 3 credits
Pre-requisites: EGL101, MAT201.

PHE211 **Statics** will introduce students to the study of the equilibrium of bodies (both solids and fluids) under the influence of various kinds of loads. Forces, moments, couples, equilibrium of a particle, equilibrium of a rigid body, analysis of trusses, frames and machines, internal forces in structural members, friction, center of gravity, centroids, composite bodies, and fluid pressure are topics which will be considered. Vector and scalar methods are used to solve problems. Conceptual understanding will be integrated with problem-solving.
3 credits
Pre-requisites: MAT202, PHY217.

PHE212 **Dynamics** will introduce students to the study of systems of heavy particles and rigid bodies at rest and in motion. Force, acceleration, work-energy, and impulse-momentum relationships, and motion of one body relative to another in a plane and in space are topics which will be considered. Vector and scalar methods are used to solve problems. Conceptual understanding will be integrated with problem-solving. 3 credits
Pre-requisite: PHE211.

PHE213 **Mechanics of Materials** will introduce students to the study of stress and deformation of beams, shafts, columns, tanks, and other structural, machine, and vehicle members. Topics include stress transformation using Mohr's circle, centroids and moments of inertia, shear and bending moment diagrams, derivation of elastic curves, and Euler's buckling formula. Conceptual understanding will be integrated with problem-solving. 3 credits
Pre-requisite: PHE211.

PHE221 **Thermodynamics** will introduce students to the interaction between heat and mechanical energy in materials and machines and its application to mechanical systems. Topics covered include first and second laws of thermodynamics, cycles, reactions, and mixtures, fluid mechanics, heat transfer, fluid-energetics laboratory, and the application of these engineering sciences to energy systems design. Conceptual understanding will be integrated with problem-solving. 3 credits
Pre-requisites: PHE211, PHY218.

PHE225 **Digital Electronics and Instrumentation** will introduce students to the science of digital design. The topics covered include: Boolean algebra, logic theorems, logic circuits and methods for their simplification (Karnaugh maps), gates, timing, arithmetic circuits, flip flops, programmable logic arrays (PLAs), sequential circuits and similar devices. The student will gain an understanding of digital design principles and will simulate, construct and analyze digital circuits using industry standard circuit design software along with a digital breadboard. Problem-solving and electrical laboratory skills will be emphasized in this course. 4 credits
Pre-requisites: PHE185, PHY208 or PHY218.

PHE285 **Principles of Electric Circuits** with Lab will introduce students to the analysis, simulation, construction, and evaluation of analog electrical circuits. The topics covered include: Kirchhoff's laws, Thévenin's and Norton's theorems, node and mesh analysis, DC and AC steady state and transient analysis for first and second order circuits, operational amplifiers and diode elements, as well as Laplace transform analysis. Problem-solving, software simulation, and electrical laboratory skills will be emphasized in this course. 4 credits
Pre-requisite: PHY208 or PHY218.
Co-requisite: MAT246.

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English

EGL090 **Fundamental Reading, Writing, and Study Skills** is an entry-level literacy course that presents study, reading, and writing skills to prepare students for college coursework in all disciplines. The course presents strategies for time management, metacognition, note-taking, test preparation, and test taking. It focuses on the reciprocal skills of reading and writing and emphasizes skill building in the areas of critical reading, vocabulary development, distinguishing main ideas from details, patterns of organization, and the use of supporting details in writing. 4 credits
Co-requisite: EGL092 dependent upon assessment score.

EGL092 **Integrated Reading and Writing Level I** students will acquire basic skills including fundamentals of grammar, critical reading, paragraph and summary writing, an introduction to essay writing, and an introduction to documentation. All aspects of this course will incorporate reading and writing as reciprocal skills. 4 credits
Pre-requisites: COL081, EGL090.

EGL093 **Integrated Reading and Writing Level II** offers the writing, reading, and critical thinking skills necessary for success in college-level English. Students will read and write paragraphs, essays, and summaries, as well as practice documentation and grammar. This course covers the objectives of EGL092 at a more sophisticated level and requires, in addition, persuasive writing and intermediate documentation. All aspects of this course will incorporate reading and writing as reciprocal skills. 4 credits
Pre-requisites: Appropriate placement scores or a C or better in EGL090 and EGL092.
Co-requisite: COL081 unless the student has previously earned a C or higher in EGL090.

EGL101 **Freshman Composition (E)** teaches students the skills necessary to read college-level texts critically and to write effective, persuasive, thesis-driven essays for various audiences. The majority of writing assignments require students to respond to and synthesize texts (written and visual) through analysis and/or evaluation. Students also learn how to conduct academic research, navigate the library's resources, and cite sources properly. The course emphasizes the revision process by integrating self-evaluation, peer response, small-group collaboration, and individual conferences. Additionally, students are offered guided practice in appropriate style, diction, grammar, and mechanics. Beyond completing multiple readings, students produce a minimum of 7,500 words, approximately 5,000 words of which are finished formal writing in four-five assignments, including a 2,000-word persuasive research essay. 3 credits
Pre-requisites: C or better in COL081 and EGL093 or equivalent skills assessment.

EGL102 **Composition & Literature (H)** introduces students to the genres of fiction, poetry, and drama in order to gain a fuller understanding and appreciation of these literary forms. Several brief compositions and an analytical research paper are assigned. 3 credits
Pre-requisite: EGL101.

EGL112 **Scriptwriting I** introduces the concepts and practices used in writing fictional and commercial scripts for film and television. Topics studied include the use of literary sources (finding, adapting, and writing), storyboards, shot composition, editing, camera angles, lighting, and sound. Additional topics studied include framing the story and evaluating the methods and strategies of successful film directors. Procedures for developing the creative process are emphasized, including personal introspection, broad inquiry, group collaboration, and maximizing the impact of a film upon its audience. 3 credits
Pre-requisite: EGL101.

EGL202 **Introduction to Folklore (H)** introduces students to the academic study of folklore and traditional vernacular culture, including the broad genres of folk narrative, performance, and material culture. Students will have opportunities to read, evaluate, and analyze the representations of these genres in a variety of texts. Students will also learn the basic principles of ethnographic interviewing, and will conduct, catalogue, and analyze primary research that they generate. 3 credits
Pre-requisite: Grade of C or higher in EGL102.

EGL203 **British Lit. to 18th c. (H)** covers the development of English literature from the Anglo-Saxon period to the 18th century. Through readings, class discussions, and lectures, the student should develop a critical awareness of and an appreciation for English literature and will be given at least one opportunity to express that knowledge in a brief research paper. 3 credits
Pre-requisite: Satisfactory completion of EGL102.

EGL204 **British Lit. 18th c. to Present (H)** covers the development of English literature from the 18th century to the present. Through readings, class discussions, and lectures, the student should develop a critical awareness of and an appreciation for English literature and will be given at least one opportunity to express that knowledge in a brief research paper. 3 credits
Pre-requisite: Satisfactory completion of EGL102.

EGL205 **American Lit. to 1865 (H)** surveys American literature from its beginnings to the Civil War. Through readings, class discussions, and lectures, the students should discover the ways in which writers projected their sense of the meaning of the developing American experience. Social and intellectual background will receive special emphasis. 3 credits
Pre-requisite: Satisfactory completion of EGL102.

EGL206 **American Lit. 1865 to Present (H)** covers the development of American literature from the Civil War through the present. Through readings, class discussions, and lectures, the student should discover the ways in which writers projected the meaning of the developing American experience. Social and intellectual background will receive special emphasis. 3 credits
Pre-requisite: Satisfactory completion of EGL102.

EGL209 **Introduction to African-American Literature (H)** explores the writers and themes fundamental to the African-American literary tradition from the 18th century to the present. The course introduces critical questions and paradigms that are central to the study of African-American letters and to the nation's multicultural heritage. Students should gain a greater understanding of and appreciation for African-American literature's contributions to the rich diversity that is American culture, history, and literature. Course materials include fiction, poetry, drama, literary theory, essay, autobiography, film, folktale, sermon, spirituals, blues, and contemporary music. 3 credits
Pre-requisite: EGL102.

EGL210 **Topics in World Literature (I)** places Western and non-Western works of literature in dialogue, focusing on a particular theme, time period, or genre. By featuring works of literature from five continents, the course will analyze the ways culture does and does not inform aesthetic decisions and historical interpretations. The class will address questions about how dominant narratives are created, challenged, and revised, as well as address meaningful commonalities in the literature of disparate cultures. 3 credits
Pre-requisite: EGL102.

EGL211 **Technical Writing** entails the study and practice of written communications in professional settings. In an ongoing workshop, students will be asked to think critically about rhetorical situations; analyze and address case studies; collaborate with team members; research, design, and write effective, ethical texts; develop multiple literacies for multiple audiences; respond constructively to peer writers; present texts through a variety of electronic media; and improve oral presentation and discussion skills. 3 credits
Pre-requisites: CIS101, EGL101.

EGL213 **Introduction to Film (H)** introduces students to cinematic theory, practice, and criticism. Through readings, class discussions, and lectures, the student should discover the ways in which directors communicate through the art form of film. Special emphasis will be placed on developing "cineliteracy," the literacy of the cinema. 3 credits
Pre-requisite: EGL102.

EGL214 **Introduction to Journalism** introduces students to the basics of reporting and news writing. Students will learn about researching articles, reporting, and conducting interviews, then use those skills to write several articles. Students learn the history of news coverage, news judgment, the importance of the First Amendment, and basic libel law. The course emphasizes the reporting and writing skills necessary for newswriting work. 3 credits
Pre-requisite: EGL101.

EGL215 **Introduction to Creative Writing (H)** introduces students to the techniques and practice of writing and reading the genres of poetry, fiction, and literary nonfiction with the goal of understanding the creative process of writers, the state of contemporary culture as seen in current literature, and the students' own writing process, passions, and limitations. 3 credits
Pre-requisite: EGL101.

EGL260 **Children's Literature (H)** provides opportunities to select, read, evaluate, and utilize a wide variety of children's literature from preschool through middle school. It is expected that students become familiar with various authors, poets, and illustrators of these books as well as explore the role of children's literature across the curriculum. Resources that support the use of children's literature will also be explored. 3 credits
Pre-requisite: EGL102.

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Environmental Science

ENV106 **Introduction to Environmental Science (S)** is an introduction to major changes in the local, regional and global environment and to the use of the scientific process in protecting and restoring the environment. This course includes such topics as climate change, groundwater contamination, and the reduction of the human carbon footprint. 3 credits
Co-requisites: EGL101, ENV116, MAT093 or MAT095 or MAT097.

ENV116 **Introduction to Environmental Science Lab** is designed to actively involve the student in the process of science. The student will perform experimental activities that include direct experience with real phenomena, use of technology, and the collection, analysis, interpretation, and presentation of data. 1 credit
Co-requisite: ENV106.

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Equine

EQS137 **Horseback Riding (ACT)** will allow students, through self-scheduled lessons, to earn activity credits while learning how to ride a horse or improving current riding skills. Students are required to arrange their own weekly riding lessons in consultation with a College approved instructor, at a College approved facility. Lessons are the student's expense and may be taken in any discipline: English, Western or other. 1 credit
Co-requisite: EQS139.

EQS139 **Basic Horse Handling** provides an introduction to safe handling procedures for working with a variety of horses and situations. This course will model ways a student may develop competence and self-assurance around horses. 2 credits

EQS142 **Introduction to Equine Care** is designed to provide a basic foundation for working with horses. Using hands-on activities, the lessons teach elements of horse ownership: general terminology, horse selection, stabling requirements, and basic care of the healthy horse. Students gain a greater understanding of conformation and selection of the horse, costs of ownership, nutrition, grooming, anatomy and care of the hoof, health care, breeds, and colors. 3 credits
Co-requisite: EQS139.

EQS144 **Equine Nutrition and Feeding** focuses on the basic concepts of nutrition and feed evaluation for horses. Students will learn to evaluate the horse's body condition, surroundings, work load, and other factors to develop a proper diet regimen for the best care of the horse. Students will also become familiar with forage analysis procedures and learn to interpret feed analysis reports. 3 credits

EQS145 **Equine Health Maintenance** will provide students with knowledge and opportunities to recognize equine health parameters. Topics include general care, routine health care, equine emergencies, digestive disorders, respiratory disorders, parasites, equine dentistry, hoof care, and diagnosis, treatment, and prevention of equine lameness. Students will be exposed to the skills necessary for basic horse care as well as the treatment and prevention of common horse ailments. 3 credits
Co-requisite: EQS139.

EQS146 **Introductory Equine Field Study** is a total immersion into the equine industry focusing on the basic tasks in caring for horses. Students will work on farms throughout the area to gain hands-on practical experience in the everyday workings of running a horse business. 2 credits
Pre-requisite: EQS145.

EQS148 **Equine Anatomy and Physiology** will enable students to understand the horse's systems, growth and development. This course will cover the skeletal, muscular, circulatory, respiratory, digestive, urinary, nervous, and endocrine systems. Through this course students will acquire the knowledge and training to understand the structure and function of the horse's body. 3 credits
Co-requisite: EQS139.

EQS155 **Equine Community Service Experiential** Learning will allow students to experience many community events, practices, and stables in the equine industry. Students will be required to complete volunteer service at several different community oriented, instructor-approved equine establishments to gain valuable hands-on training. 2 credits
Pre-requisite: EQS146.

EQS241 **Equine Facilities Management** is designed to prepare students for employment in the horse industry. Hands-on activities will cover elements of farm management: stabling requirements, event management, and safe horse handling techniques. Students will be shown skills necessary for running a successful horse facility. 3 credits
Pre-requisite: EQS139.

EQS242 **Equine Reproduction, Evaluation, and Selection** focuses on the genetic improvement of horses. Students will actively apply lecture material in the lab each week. Topics will include mare and stallion reproductive physiology, live cover, artificial insemination, semen collection and evaluation, synthetic hormone regulation, foaling and newborn care. Course is offered during the spring semester only. 3 credits
Pre-requisite: EQS148.

EQS243 **Business Management in the Horse Industry** is designed to prepare students for running their own equine business. Lessons will demonstrate elements of farm management: communication, regulation, marketing, staff management, sales & service, and skills necessary for running a successful horse business.
3 credits

EQS245 **Equine Pasture and Land Management** topics include zoning and permit requirements, paddock design and maintenance, water and electric needs, erosion problems, poisonous plants, soil conditions, and seeding methods. 3 credits
Pre-requisite: EQS142.

EQS246 **Advanced Equine Field Study** builds upon the Introductory Equine Field Study course by presenting more advanced tasks in the care of horses such as hoof care, first aid techniques, and treating colic. Students will work on farms throughout the area to gain hands-on practical experience in the everyday workings of running a horse business. 2 credits
Pre-requisite: EQS146.

EQS248 **Equine Pathology** focuses on training students to recognize symptoms, diseases, and infections. Students will learn to properly identify system functions and determine areas of concern, and develop treatment options once a condition is diagnosed and confirmed. 3 credits
Pre-requisite: EQS148.

EQS253 **Judging and Course Design** will allow students to experience, understand and practice judging different levels of equine conformation based on breed and show riding in both English and Western Styles. The course will focus on the dynamics of designing and setting up jump courses for both stadium jumping and cross country jumping events as well as set up for Western trail classes, speed classes and other Western events. Students will be required to attend both local English and Western shows throughout the semester.
3 credits
Pre-requisite: EQS139.

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Fitness and Wellness

FWS110 **Fundamentals of Personal Training I** will begin to prepare students for employment in the fitness industry. Students will be introduced to the functions of the musculoskeletal and cardio-respiratory systems and their roles in exercise conditioning. Additional topics will include business building and marketing, ethical standards and practices, energy metabolism, nutrition, and weight management. 3 credits
Pre-requisite: EGL093.
Co-requisite: FWS111.

FWS111 **Fundamentals of Personal Training I Lab** is the college/clinical lab for students to practice and demonstrate beginning skills associated with the personal trainer role. Emphasis will be placed on basic fitness center operations and include customer service, cleanliness, and standard operating procedures. 1 credit
Co-requisite: FWS110.

FWS120 **Fundamentals of Personal Training II** builds and expands upon the knowledge base established in Fundamentals of Personal Training I. Topics will include biomechanics, exercise physiology, advanced program design, and program design for special populations. At the conclusion of this course and its corresponding lab, the student will be eligible to take the national certification exam in personal training. 3 credits
Pre-requisites: FWS110, FWS111.
Co-requisite: FWS121.

FWS121 **Fundamentals of Personal Training II Lab** is the college/clinical lab for students to continue to practice and demonstrate skills associated with the personal trainer role. Emphasis will be placed on fitness center services which include conducting orientations and assessments, health promotion programming, and writing basic exercise prescriptions. 1 credit
Pre-requisites: FWS110, FWS111.
Co-requisite: FWS120.

FWS130 **Essentials of Fitness Assessments** introduces the student to a variety of laboratory and field assessments/tests utilized in the fitness and wellness industry. Emphasis will be placed on conducting and administering exercise tests and prescriptions; administering health screening assessments and interpreting data; and providing results counseling. Associated health benefits and risks will also be addressed. Physical fitness assessments included are tests of cardiorespiratory fitness, muscular strength and endurance, joint flexibility, body composition, and pulmonary capacity. 3 credits
Co-requisite: FWS110.

FWS135 **Physiology of Exercise** provides a basis for understanding the body's physiological responses to exercise and sport. Emphasis will be placed upon the practical application of exercise physiology principles to physical training practices. 3 credits
Pre-requisites: BIO208, BIO209, EGL101.

FWS180 **Fitness Prescription for Special Populations** emphasizes the skills and knowledge necessary to work with populations beyond the "apparently healthy." Coursework includes basic exercise prescriptions for various populations such as: youth, sports-specific, obese, pre/post-natal, senior, and clientele experiencing an illness affecting health and wellness. 3 credits
Pre-requisites: BIO208, BIO218, FWS110, FWS111.
Co-requisite: BIO203.

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Geography

GEO101 **Physical Geography (SS)** is an introduction to geography as a discipline: its concepts, scope, and tools as well as the physical elements such as climate, land forms, natural resources, processes, and their relationships. 3 credits
Pre-requisite: EGL093.

GEO102 **Cultural Geography (SS)** examines the distribution of humanity over the globe. Human settlement, culture, and land use patterns, as well as complex factors which interact to create cultural diversity, cultural conflicts, and differences in levels of economic development, are studied. Basic map reading and interpretation skills are included. 3 credits
Pre-requisite: EGL093.

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Health

HEA130 **Healthful Living I (I)** investigates the concept of total wellness and the consequences of behavior. By defining wellness techniques and identifying risk factors, students will be able to attain their optimal level of health. The course will explore pertinent aspects of the composition of health, stress management, human sexuality, disease prevention, addictive substances, nutrition, weight control, contraception and the life cycle. 3 credits
Pre-requisite: EGL090.

HEA136 **Stress Management** is designed to assist the student in understanding the concept of stress. Students will learn to identify and assess their stressors and be able to implement techniques to assuage and eliminate stress. 3 credits
Pre-requisite: EGL090.

HEA140 **Alcoholism & Drug Addiction** focuses on the various theoretical models related to addiction and their implications in our society. Multiple aspects of the alcohol, tobacco, and other drug addiction services continuum of prevention, intervention, treatment, and aftercare will be examined. Cultural influences as well as the issues related to family, gender and disabilities will be examined. Co-occurring disorders as well as the debate regarding addiction vs. compulsive behaviors for areas such as gambling and food issues is also addressed. This course is appropriate for all students and especially for those entering any aspect of the health care professions. 3 credits

HEA173 **Human Sexuality** provides the student with the opportunity to view this topic from a variety of perspectives: cultural, social, political, physical, and psychological. Issues are examined from viewpoints such as gender, individual, family, and professional roles. 3 credits
Pre-requisite: EGL090.

HEA174 **Women's Health Issues** provides an introduction to women's health concerns over the adult life span, with a primary focus on health promotion and proactive care. Common health issues affecting women from biological, medical, economic, historical, socio-cultural and political perspectives will be explored. 3 credits
Pre-requisite: EGL090.

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Health Care

HCD120 **Medical Terminology** is designed to improve the students' professional medical vocabulary. Students will build medical vocabulary, while recognizing the prefixes, suffixes, root words, combining forms and abbreviations. Topics include how to spell, define and pronounce medical terms associated with the major body systems as well as label basic anatomy and recognize common pathology terms. 3 credits
Co-requisite: EGL090.

HCD124 **Health Information Technology (HIT)** will examine approaches to planning, selecting, implementing, and evaluating health information technology, focusing primarily on the use of electronic medical records (EMR), clinical decision support (CDS), data management, and computerized physician order entry (CPOE). Health Information Technology is the comprehensive management of health information across computerized systems and its secure exchange between consumers, providers, government, quality-assurance entities, and insurers. This course includes concepts of clinical and regulatory environments, as well as changes in consumer behavior. Previous experience as a medical coder is highly recommended before enrolling in this course. 3 credits
Pre-requisite: EGL093.

HCD150 **Social Media in the Health Care Setting** introduces the healthcare student to beginning concepts in social media channels available today as they apply to communications in the field of health care. The course will explore basic concepts in sociology and online privacy, investigate and use specific social media channels, as well as review HIPAA and the legal aspects of social media. Using specific examples, students will be exposed to how businesses in health care adopt social media strategies and develop policies for responsible social media use by staff and patients. 3 credits
Pre-requisites: EGL101.

HCD161 **Application: Electronic Medical Records** will provide an overview of the concepts and processes surrounding electronic medical records. Initiating, maintaining and managing electronic medical records (EMRs) in various health care settings will be addressed. Students will apply EMR management concepts in a practice setting. Previous experience as a medical coder is highly recommended before enrolling in this course. 1 credit
Pre-requisite: EGL093.
Co-requisite: HCD124.

HCD232 **Introduction to Clinical Pharmacology** will introduce the student to pharmacological concepts, medication uses, classification systems, administration, safety precautions, side effects, contraindications, and adverse reactions. Appropriate patient monitoring and teaching related to prototype drugs from each major classification will also be addressed. This course will benefit those students enrolled in health professions programs. 3 credits
Pre-requisites: EGL101, MAT092 or MAT097.

HCD261 **Application: Health Information Technology (HIT)** will provide an overview of the concepts and processes surrounding health information technology. HIT as it relates to legislative and regulatory standards, meaningful use, and electronic communication will be addressed related to application in the practice setting. 2 credits
Pre-requisites: HCD124, HCD161.
Co-requisite: HCD150.

HCD270 **Ethical Issues in Healthcare** will introduce students to ethical issues in today's healthcare environment. Students will be exposed to a comprehensive view of ethical issues including how to identify ethical issues and how to address a wide variety of ethical situations. 3 credits
Pre-requisite: EGL101.

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History

HST101 **Western Civilization I (to 1715) (H)** is an overview of western Civilization from prehistory to the early 18th century. Topics include Ancient Near East, Minoan Civilization, Greek Civilization, Rome, the Middle Ages, the Renaissance, the Reformation, and the Scientific Revolution. 3 credits
Co-requisite: EGL101.

HST102 **Western Civilization II (H)** covers the development of Western Civilization from the early 18th century to the present. Topics include the Old Regime, the Enlightenment, the French Revolution, socialism, imperialism, nationalism, World War I, totalitarianism, World War II, and the Post War Era. 3 credits
Co-requisite: EGL101.

HST103 **History of Criminal Justice** examines the evolution of crime, punishment, and police work from the colonial era to the present. It examines old county jails, headline-grabbing criminal escapades of long ago, methods of discontinued punishment, and unheralded peace officers. Topics include the whipping post, hangings, and lynchings. The goal of the course is to look at how crime has changed and how law enforcement and policing methods have evolved. 3 credits
Pre-requisite: EGL093.

HST110 **World History I (H)** considers the evolution and interaction of world-class civilizations across the Eurasian land mass with consideration also given to Africa and the Western Hemisphere. The variety and common denominators of the human experience are emphasized. 3 credits
Co-requisite: EGL101.

HST111 **World History II (H)** begins with the Age of Discovery and addresses the unfolding of the Modern Era and the evolution of the global village. The impact of such forces as the Scientific Revolution, democratic revolutions, Industrial Revolution, nationalism, Marxism, colonial independence, the world wars, and technology are explored in a world context. 3 credits
Co-requisite: EGL101.

HST135 **History of Rock (I)** is a survey of the development of popular music in the 20th and 21st centuries. The origins of rock music, significant artists, influences from different genres, and influence on cultural society will be discussed. Selected representative pieces will be absorbed through directed listening. Topical research papers are required. No music reading skills necessary. 3 credits

HST141 **Survey of Art History (I)** is a survey course which explores art forms and aesthetic intentions from prehistory to the present. The course of study parallels the development of Western Civilization and emphasizes the relationship of art forms to that development. Major emphasis is on painting, sculpture, and architecture. The course may include museum trips. 3 credits
Pre-requisite: EGL093.

HST201 **United States History I** addresses the history of the United States from the Age of Discovery through the Civil War era. Topics include Old World Background, Colonial America, the War for Independence, the Early Nation, Jeffersonian Democracy, the Jacksonian Age, Ante Bellum South, Manifest Destiny, and the Civil War. 3 credits
Co-requisite: EGL101.

HST202 **United States History II** follows the internal development of the United States and the nation's rise as a world power from the post Civil War period to the present. Topics include Western Movement, Immigration, Urbanization, Industrialization, Populism, Progressivism, Imperialism, World War I, the Great Depression, World War II, and Post War America. 3 credits
Co-requisite: EGL101.

HST251 **Introduction to African American Studies** is designed to expose students of all races to the rich heritage of the African-American. This survey course will incorporate oral as well as written projects, and will cover almost 400 years of African-American involvement in the making of America. 3 credits
Co-requisite: EGL101.

HST253 **Civil War and Reconstruction** covers the time period 1845 to 1877 and includes the study of the origins, development, and outcomes of the greatest struggle this nation has known between the North and South: the American Civil War and the Reconstruction. Emphasis will be placed on political, economic, and social issues leading to the war and the effort to reunite the nation after the war. 3 credits
Co-requisite: EGL101.

HST298 **Western Military History** stresses change in military operations from the period of Ancient History to the present. Those changes have been influenced by political, social, economic, moral and geographical factors. How these factors have shaped the battles, tools, and outcomes of war will be a major emphasis of this course. 3 credits
Co-requisite: EGL101.

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Horticulture

HSC142 **Soils and Fertilizers Lab** will familiarize students with methods and equipment used in soil science. Soil morphology, physical properties, pH, cation exchange capacity (CEC) and testing for nutrients will be covered. Students will use and interpret the US Soil Survey. 1 credit
Co-requisite: HCS152.

HSC152 **Soils and Fertilizers** will provide the student with an understanding of the composition, fertility, and biology of soil. This course will include structure and classification of soils, soil biology, plant nutrients, and soil amendments. Reduction of excess nutrients in streams, rivers, and the Chesapeake Bay will be emphasized.
3 credits

HSC153 **Landscaping Construction and Maintenance** will provide the student with an understanding of the materials, equipment, preparations, and methods of installation used in landscape construction. 3 credits

HSC154 **Botanical Garden Studies** investigates regional public gardens. Topics may include landscaping for conservation, native plants, warm season meadows, rain gardens, formal gardens, wildflowers and woodland gardens, conservatories, topiary, green roofs, woody plants in the landscape, children's gardens, historical gardens, seasonal gardens, Japanese gardens, butterfly gardens, community gardens, and garden design. As there are numerous public gardens, topics and gardens visited will change from session to session.
3 credits

HSC155 **Woody Plants Identification I** is one of two courses within the Horticultural Science Program that will familiarize students with a significant number of woody trees and shrubs commonly found in our local environment. Evergreen and deciduous species will be covered. For each plant, students will discuss nativity, landscape use and establishment, cultural requirements, seasonal interest, and environmental considerations. Species for study will be selected based upon the season in which the course is offered and will include plants specified for the Maryland Certified Professional Horticulturist (CPH) basic exam. 2 credits

HSC156 **Herbaceous Plants I** is one of two courses within the Horticultural Science Program that will focus on the identification of herbaceous plants found in our local environment. Perennials, annuals, and houseplants will be covered and will include grasses, groundcovers, vines, and ferns. For each species, students will discuss use, culture, native habitat, pest and disease considerations, and seasonal interest. Species for study will be selected based upon the season in which the course is offered and will include plants specified for the Maryland Certified Professional Horticulturist (CPH) basic exam. 2 credits

HSC160 **Woody Plants Identification II** is one of two courses within the Horticultural Science Program that will familiarize students with a significant number of woody trees and shrubs commonly found in our local environment. Evergreen and deciduous species will be covered. For each plant, students will discuss nativity, landscape use and establishment, cultural requirements, seasonal interest, and environmental considerations. Species for study will be selected based upon the season in which the course is offered and will include plants specified for the Maryland Certified Professional Horticulturist (CPH) basic exam. 2 credits

HSC161 **Herbaceous Plants II** is one of two courses within the Horticultural Science Program that will focus on the identification of herbaceous plants found in our local environment. Perennials, annuals, and house plants will be covered and will include grasses, groundcovers, vines, and ferns. For each species, students will discuss use, culture, native habitat, pest and disease considerations, and seasonal interest. Species for study will be selected based upon the season in which the course is offered and will include plants specified for the Maryland Certified Professional Horticulturist (CPH) basic exam. 2 credits

HSC253 **Introduction to Landscape Design** will provide the student with an exposure to the landscape design process with an emphasis on residential landscaping. Students will draw and read landscape plans, discuss appropriate plant selection and sustainability as well basic landscape design principles and landscape design styles. 3 credits
Pre-requisites: HCS156 or HCS161, HCS155 or HCS160.

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Licensed Practical Nurse

LPN201 **Care of Childrearing/Childbearing Families** introduces family systems theory in the study of childrearing/childbearing families. Study will include growth and development, normal pediatric and obstetric concepts, and stressors affecting individuals and family systems, with emphasis on the role of the practical nurse in patient care. 2 credits
Pre-requisites: BIO209, NUR105, NUR115.
Co-requisites: LPN206, LPN211.

LPN205 **Advanced Medical-Surgical and Psychiatric Theory, LPN** emphasizes the care of adults and aged clients in various health care settings. The focus is on the study of clients with complex alterations in wellness related to pathophysiological and psychological stressors with emphasis on the role of the licensed practical nurse in patient care. 2 credits
Pre-requisites: LPN201, LPN211, BIO209, BIO219.
Co-requisites: LPN206, LPN215.

LPN206 **Professional, Legal, and Ethical Issues in Nursing, LPN** introduces the students to complex, political, and ethical matters that have an impact on professional nursing. The role and responsibilities of the licensed practical nurse and the importance of problem solving are emphasized. 1 credit
Pre-requisites: NUR105, NUR115, BIO209, BIO219.
Co-requisites: LPN201, LPN205.

LPN211 **Clinical Lab III: Care of Childrearing/Childbearing Families** is the clinical companion to LPN201. Clinical experiences are conducted in the inpatient and outpatient settings with observational experiences of maternal, newborn, and pediatric clients. The inpatient setting involves caring for clients with medical and surgical stressors, with a focus on the issues of childrearing/childbearing families. The student is expected to integrate theoretical knowledge and the nursing process into the practice of nursing while utilizing effective communication skills when caring for clients in both the acute and chronic health care setting as the LPN member of the healthcare team. 1 credit
Pre-requisites: BIO209, NUR105, NUR115.
Co-requisite: LPN201.

LPN215 **Clinical Lab IV: Medical/Surgical/Psychiatric** is the clinical companion to LPN205. Clinical experience focuses on clients experiencing emotional and/or psychiatric stressors concurrent with medical and surgical stressors. Students increase proficiency in practical nursing procedures, while integrating theoretical knowledge, effective communication skills, and the nursing process, into the practice of nursing when caring for medical, surgical, and psychiatric clients in both the acute and chronic health care setting as the LPN member of the healthcare team. 1 credit
Pre-requisites: BIO209, NUR105, NUR115.
Co-requisite: LPN205.

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Mathematics

MAT096 **Math Fundamentals** prepares students with essential arithmetic skills in whole numbers, fractions, decimals, ratios, proportions, percentages and measurement. 2 credits
Co-requisites: COL081, EGL090.

MAT097 **Introductory and Intermediate Algebra** introduces the fundamental study of signed numbers, exponents, radicals, polynomials, rational expressions, variation, first and second-degree equations, and graphing of linear equations and formulas, function notation, quadratic functions, exponential functions, logarithmic functions and composition of functions. 4 credits
Pre-requisite: Grade of C or better in MAT091 or MAT096.
Co-requisite: EGL093.

MAT098 **Advanced Intermediate Algebra (STEM)** provides higher-level pre-requisite mathematical knowledge that is needed in a variety of college level courses. Solutions to absolute value, radical, rational, exponential, logarithmic, and other higher-order equations are found using both graphical and analytical methods. Additional topics include the solving of inequalities and systems of linear and nonlinear equations.
2 credits
Pre-requisite: Grade of C or better in MAT092 or MAT095 or MAT097.
Co-requisite: EGL093.

MAT121 **Precalculus (M)** prepares the student for the study of calculus, discrete mathematics, and other mathematics intensive disciplines through the study of algebraic, exponential, logarithmic, and trigonometric functions. Topics include functions, laws of logarithms, trigonometric and inverse trigonometric functions, trigonometric identities, solutions of trigonometric equations, the Laws of Sines and Cosines, and vectors. A problem solving approach utilizes applications and a graphing calculator throughout the course. 4 credits
Pre-requisites: EGL093, grade of C or better in MAT093 or MAT098,

MAT123 **Finite Math (M)** uses problem solving to develop critical thinking skills and illustrate mathematics in daily life. Each student will be exposed to a variety of problem solving methods including but not limited to the following: systems of linear equations, matrices, the Gauss-Jordan method, inequalities and linear programming, sets and counting techniques, probability, difference equations, Markov processes and game theory. 3 credits
Pre-requisites: EGL093, MAT093 or MAT095 or MAT097, Grade of C or higher in MAT093 or MAT095.

MAT125 **Applied Calculus (M)** is an introductory study of differential and integral calculus with emphasis on techniques and applications. This course introduces students to the mathematical techniques for limits, differentiation, and integration of algebraic, logarithmic, and exponential functions. Applications of differentiation and integration are studied. This course is not intended for STEM majors. 4 credits.
Pre-requisites: EGL093 and MAT092 or MAT095 or MAT097.

MAT127 **Introduction to Statistics (M)** introduces students to the study of measures of central tendency, measures of variation, graphical representation of data, least squares regression, correlation, probability, probability distributions, sampling techniques, parameter estimation, and hypothesis testing. The emphasis is on applications from a variety of sources including newspapers, periodicals, journals, and many of the disciplines that students may encounter in their college education. Students shall be expected to gather and analyze data, and formally report the results of their research. The use of technology and statistical software is integrated throughout the course. 4 credits
Pre-requisites: EGL093, MAT093 or MAT095 or MAT097, a Grade of C or better in MAT093 or MAT095.

MAT128 **Introduction to Statistics II (M)** addresses the design of experiments and analysis of variance, nonparametric statistics, categorical data analysis, simple linear regression, multiple regression and model building, quality control charts, and time series analysis. The emphasis is on applications using data sets from a variety of sources and disciplines including newspapers, periodicals, journals, the Web and many of the disciplines that students may encounter in their college education. Students will gather and analyze data, and formally report the results of their research. The use of technology and statistical software is integrated throughout the course. 4 credits
Pre-requisite: MAT127.

MAT133 **Mathematical Concepts and Structures I** is a course for elementary education majors. It focuses on solving word problems, operations on sets and their properties, functions and their notation, logic, development of numeration systems through rational numbers, arithmetic operations and algorithms, the real numbers using exponents and decimals, and algebraic thinking and notation. 4 credits
Pre-requisites: EGL093, grade of C or better in MAT093 or MAT097.

MAT134 **Mathematical Concepts and Structures II** is a course for elementary education majors. It focuses on applications of ratios and proportions, percents, simulations in probability, counting theory, graph theory, statistical concepts and their applications, basic notation in geometry, polygonal curves, linear measures, basic shapes and relationships in two- and three-dimensions, geometric networks, congruence and similarity, geometric constructions, areas and volumes of geometric shapes, and the Cartesian coordinate system with reflections and translations. 4 credits
Pre-requisites: EGL093, grade of C or better in MAT093 or MAT097.

MAT201 **Calculus I with Analytic Geometry (M)** introduces students to the mathematical techniques for limits (including L'Hospital's Rule), differentiation, and integration of algebraic, trigonometric, inverse trigonometric, logarithmic, exponential, hyperbolic, and inverse hyperbolic functions. Applications of differentiation and integration are studied. 4 credits
Pre-requisites: EGL093 and grade of C or better in MAT121.

MAT202 **Calculus II with Analytic Geometry (M)** introduces integration techniques, improper integrals, sequences, infinite series, conic sections and polar coordinates. Students will solve applied problems related to limits, differentiation, integration, and infinite series. A computer algebra system, such as Maple, is introduced and used. 4 credits
Pre-requisite: Grade of C or better in MAT201.

MAT203 **Multivariable Calculus (M)** provides the student with a study of three-dimensional space, introduction to hyperspace, partial differentiation, multiple integration, vectors in a plane, and topics in vector calculus to include Green's Theorem, Stokes' Theorem, and the divergence theorem. Knowledge of a computer algebra system, MAPLE, is expanded. 4 credits
Pre-requisite: MAT202 Capstone Project: There will be a capstone project required in this course. The capstone project will give students the opportunity to choose from a list of projects or one that a student suggests with the approval of the instructor. The project must include elements of all previous math classes, especially Calculus II, Miltivariable Calculus, and Introductory Statistics.

MAT236 **Discrete Structures (M)** introduces the fundamental tools, topics, and concepts of discrete mathematics. This course emphasizes counting methods, proof techniques, and problem-solving strategies. Topics include Boolean algebra, set theory, symbolic logic, predicate calculus, number theory, the methods of proofs (direct, indirect, and inductive), objective functions, equivalence relations, graphs, set partitions, combinatorics, modular arithmetic, summations, and recurrences. 3 credits
Pre-requisite: MAT201.

MAT240 **Introduction to Linear Algebra (M)** introduces the basic concepts of linear algebra: vector spaces, applications to line and plane geometry, linear equations and matrices, similar matrices, linear transformations, eigenvalues, determinants, and quadratic forms. A computer algebra system will be used.
4 credits
Pre-requisite: Grade of C or better in MAT202 or permission of the Math Department Chair.

MAT246 **Introduction to Differential Equations (M)** introduces the basic techniques for solving and/or analyzing first and second order differential equations, both linear and nonlinear, and systems of differential equations. The use of a mathematical software system is an integral part of the course. 3 credits
Pre-requisite: Grade of C or better in MAT202.

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Music

MUC102 **Piano Class I** is the study of basic music skills as they apply to piano playing. Music theory, sound production, pedal techniques, posture, hand position and knowledge of beginning repertoire are developed through weekly reinforcement in a group setting. 1 credit

MUC104 **Guitar Class (H)** is the study of basic music skills as they apply to playing guitar and musical knowledge as it relates to the guitar. Emphasis is placed on practical application of music and technique as well as music theory, music literature, music history, guitar history, and musical genres. No prior music reading skills or experience necessary. 3 credits

MUC110 **Music Theory and Musicianship I** is an in-depth study of the fundamental rudiments of music that are essential for all musicians. Concepts and elements of musical design and theory, including a study of timbre, rhythm, pitch, texture, and principles of form are studied concurrently with musicianship elements, including mastery of pitch and rhythm and the development of aural skills through sight singing, dictation, improvisation, and keyboarding applications. 4 credits
Co-requisites: MUC102 and either MUC120 or MUC124.

MUC111 **Music Theory and Musicianship II** will focus on further skill mastery of the fundamental rudiments of music that are essential for all musicians. Concepts and elements of musical design and theory, including a study of triads, cadences, dominants, and suspensions are studied concurrently with musicianship elements, including mastery of pitch and rhythm and the development of aural skills through sight singing, dictation, improvisation, and keyboarding applications. 4 credits
Pre-requisite: MUC110.
Co-requisites: MUC114 and either MUC121 or MUC125 or MUC15.

MUC114 **Piano Class II** is the study of early intermediate music skills as they apply to piano playing. Music theory, sound production, pedal techniques, posture, hand position, and knowledge of early intermediate solo and ensemble repertoire are developed through weekly reinforcement in a group setting. 1 credit
Pre-requisite: MUC102 or permission of instructor.

MUC120 **Chamber Ensemble I** will focus on the performance of a range of musical styles in a chamber ensemble setting. Students will learn repertoire and participate in rehearsals culminating in a public performance while working with other students and a music director. Musical elements such as technique, musicality, ensemble cooperation, vocabulary, and performance practice will be incorporated throughout the class. 2 credits

MUC121 **Chamber Ensemble II** will focus on the performance of a range of musical styles in a chamber ensemble setting. Students will learn repertoire and participate in rehearsals culminating in a public performance while working with other students and a music director. Musical elements such as technique, musicality, ensemble cooperation, vocabulary, and performance practice will be incorporated throughout the class. 2 credits

MUC122 **Music Appreciation (H)** is a survey of the development of music from ancient civilizations to the present day. Emphasis is placed on major genres, composers, and repertoire from the Middle Ages through the Contemporary eras. Listening skills and music terminology are discussed. No music reading skills necessary.
3 credits
Co-requisite: EGL093.

MUC124 **Chamber Choir I** will focus on the performance of a range of musical styles in a vocal ensemble setting. Students will learn repertoire and participate in rehearsals culminating in a public performance while working with other students and a music director. Musical elements such as technique, musicality, ensemble cooperation, vocabulary, harmonizing, and performance practice will be incorporated throughout the class.
2 credits

MUC125 **Chamber Choir II** will focus on the performance of a range of musical styles in a vocal ensemble setting. Students will learn repertoire and participate in rehearsals culminating in a public performance while working with other students and a music director. Musical elements such as technique, musicality, ensemble cooperation, vocabulary, harmonizing, and performance practice will be incorporated throughout the class.
2 credits

MUC128 **Introduction to Audio Technology (I)** provides instruction and hands-on experience with a variety of audio equipment. Students learn the principles of electricity, electronics, acoustical theory, and the operation of audio equipment. 3 credits

MUC135 **History of Rock (I)** is a survey of the development of popular music in the 20th and 21st centuries. The origins of rock music, significant artists, influences from different genres, and influence on cultural society will be discussed. Selected representative pieces will be absorbed through directed listening. Topical research papers are required. No music reading skills necessary. 3 credits

MUC143 **Music Fundamentals (H)** introduces students to beginning musical concepts. Note reading, intervals, scales, triads, and structures are discussed along with music history, instruments, and repertoire. No prior music experience necessary. 3 credits

MUC154 **Large Ensemble I** will focus on the performance of a range of musical styles in a large ensemble setting. Students will learn repertoire and participate in rehearsals culminating in a public performance while working with an established ensemble in the region. Students should contact the music department faculty to find an appropriate ensemble to participate in, and an audition may be required. In addition to the scheduled class time, students must be available for rehearsals off campus. 2 credits
Pre-requisite: MUC120.

MUC210 **Music Theory and Musicianship III** is an in-depth study of analysis of form and chromatic harmony. Tonicization, modulation, and Neapolitan chords are studied concurrently with musicianship elements, including mastery of pitch and rhythm, and the development of aural skills through sight singing, dictation, improvisation, and keyboarding applications. 4 credits
Pre-requisite: MUC111.
Co-requisite: MUC220 or MUC224.

MUC211 **Music Theory and Musicianship IV** completes the music major's study of chromatic harmony and large-scale traditional forms, which are studied concurrently with musicianship elements such as mastery of pitch and rhythm and the development of aural skills through sight singing, dictation, improvisation, and keyboarding applications. 4 credits
Pre-requisite: MUC210.
Co-requisite: MUC221 or MUC225.

MUC220 **Chamber Ensemble III** will focus on the performance of a range of musical styles in a chamber ensemble setting. Students will learn repertoire and participate in rehearsals culminating in a public performance while working with other students and a music director. Musical elements such as technique, musicality, ensemble cooperation, vocabulary, and performance practice will be incorporated throughout the class. 2 credits

MUC221 **Chamber Ensemble IV** will focus on the performance of a range of musical styles in a chamber ensemble setting. Students will learn repertoire and participate in rehearsals culminating in a public performance while working with other students and a music director. Musical elements such as technique, musicality, ensemble cooperation, vocabulary, and performance practice will be incorporated throughout the class. 2 credits

MUC224 **Chamber Choir III** will focus on the performance of a range of musical styles in a vocal ensemble setting. Students will learn repertoire and participate in rehearsals culminating in a public performance while working with other students and a music director. Musical elements such as technique, musicality, ensemble cooperation, vocabulary, harmonizing, and performance practice will be incorporated throughout the class.
2 credits

MUC225 **Chamber Choir IV** will focus on the performance of a range of musical styles in a vocal ensemble setting. Students will learn repertoire and participate in rehearsals culminating in a public performance while working with other students and a music director. Musical elements such as technique, musicality, ensemble cooperation, vocabulary, harmonizing, and performance practice will be incorporated throughout the class.
2 credits

MUC228 **Recording Techniques** provides instruction in engineering and studio techniques as well as hands-on experience with audio equipment. Audio theory such as signal flow, microphone theory, and the physics of sound will be discussed alongside practical experience and demonstrations. 3 credits
Pre-requisite: MUC128.

MUC229 **Introduction to Digital Audio Workstations** in an introduction to recording, mixing, and production with software. Vocab, techniques, and terminology will be discussed alongside practical experience and demonstrations. 3 credits
Pre-requisite: MUC128.

MUC254 **Large Ensemble II** will focus on the performance of a range of musical styles in a large ensemble setting. Students will learn repertoire and participate in rehearsals culminating in a public performance while working with an established ensemble in the region. Students should contact the music department faculty to find an appropriate ensemble to participate in, and an audition may be required. In addition to the scheduled class time, students must be available for rehearsals off campus. 2 credits
Pre-requisite: MUC120.

MUC263 **Diction for Singers I (Eng./Ital.)** is the study of English and Italian diction as it applies to vocal arts. Students will have the opportunity to learn the International Phonetic Alphabet (IPA), learn to pronounce English as it applies to singing, learn pronunciation, and demonstrate a basic understanding of Italian words. Throughout the semester students will learn repertoire to apply the techniques learned in class. 2 credits

MUC264 **Diction for Singers II (Fr./Ger.)** is the study of French and German diction as it applies to vocal arts. Students will have the opportunity to learn the International Phonetic Alphabet (IPA), learn pronunciation, and demonstrate a basic understanding of French and German words. Throughout the semester, students will learn repertoire to apply the techniques learned in class. 2 credits
Pre-requisite: MUC263.

MUL101 – MUL104 **Guitar/Bass Lessons I-IV** are the study of music skills as they apply to playing guitar or bass guitar. Students choose acoustic guitar, electric guitar, or bass guitar and learn technique and music of pop and rock musicians. Music theory, sound production techniques, posture, and knowledge of repertoire are developed through weekly reinforcement. Students meet once a week in a private lesson. Practice time outside of class is required. 1 credit

MUL105 - MUL108 **Classical Guitar Lessons I-IV** are the study of music skills as they apply to playing classical guitar. Students study fingerstyle technique and learn the music of Renaissance, Baroque, Classical, Romantic, and Contemporary composers. Music theory, sound production techniques, posture, and knowledge of repertoire are developed through weekly reinforcement. Students meet once a week in a private lesson. Practice time outside of class is required. 1 credit

MUL109 – MUL112 **Jazz Guitar Lessons I – IV** are the study of music skills as they apply to playing jazz guitar. Students study technique, improvisation, and the music of various jazz genres. Music theory, sound production techniques, posture, and knowledge of repertoire are developed through weekly reinforcement. Students meet once a week in a private lesson. Practice time outside of class is required. 1 credit

MUL113 – MUL116 **Voice Lessons I – IV** are the study of music skills as they apply to vocal arts. Music theory, sound production techniques, breathing, posture, and knowledge of repertoire are developed through weekly reinforcement. Students meet once a week in a private lesson. Practice time outside of class is required.
1 credit

MUL117 - MUL120 **Woodwind Lessons I - IV** are the study of music skills as they apply to playing woodwind instruments. Music theory, sound production techniques, breathing, posture, and knowledge of repertoire are developed through weekly reinforcement. Students choose an instrument from the woodwind family (clarinet, saxophone, flute, etc.) and meet once a week in a private lesson. Practice time outside of class is required.
1 credit

MUL121 –MUL124 **Piano Lessons I - IV** are the study of music skills as they apply to playing piano. Music theory, sound production techniques, breathing, posture, and knowledge of repertoire are developed through weekly reinforcement. Students meet once a week in a private lesson. Practice time outside of class is required. 1 credit

MUL125 – MUL128 **String Lessons I - IV** are the study of music skills as they apply to playing a string instrument. Music theory, sound production techniques, breathing, posture, and knowledge of repertoire are developed through weekly reinforcement. Students choose an instrument from the string family (violin, cello, etc.) and meet once a week in a private lesson. Practice time outside of class is required. 1 credit

MUL129 – MUL132 **Drum/Percussion Lessons I - IV** are the study of music skills as they apply to playing drums and/or percussion instruments. Music theory, sound production techniques, breathing, posture, and knowledge of repertoire are developed through weekly reinforcement. Students meet once a week in a private lesson. Practice time outside of class is required. 1 credit

MUL133 –MUL136 **Brass Lessons I- IV** is the study of music skills as they apply to playing brass instruments. Music theory, sound production techniques, breathing, posture, and knowledge of repertoire are developed through weekly reinforcement. Students choose an instrument from the brass family (trumpet, trombone, horn, etc.) and meet once a week in a private lesson. Practice time outside of class is required. 1 credit

MUL201 – MUL204 **Guitar/Bass Lessons V - VIII** are the study of music skills as they apply to playing guitar or bass guitar. Students choose acoustic guitar, electric guitar, or bass guitar and learn technique and music of pop and rock musicians. Music theory, sound production techniques, posture, and knowledge of repertoire are developed through weekly reinforcement. Students meet once a week in a private lesson. Practice time outside of class is required. 1 credit

MUL205 – MUL208 **Classical Guitar Lessons V - VIII** are the study of music skills as they apply to playing classical guitar. Students study fingerstyle technique and learn the music of Renaissance, Baroque, Classical, Romantic, and Contemporary composers. Music theory, sound production techniques, posture, and knowledge of repertoire are developed through weekly reinforcement. Students meet once a week in a private lesson. Practice time outside of class is required. 1 credit

MUL209 – MUL212 **Jazz Guitar Lessons V - VIII** are the study of music skills as they apply to playing jazz guitar. Students study technique, improvisation, and the music of various jazz genres. Music theory, sound production techniques, posture, and knowledge of repertoire are developed through weekly reinforcement. Students meet once a week in a private lesson. Practice time outside of class is required. 1 credit

MUL213 – MUL216 **Voice Lessons V - VIII** are the study of music skills as they apply to vocal arts. Music theory, sound production techniques, breathing, posture, and knowledge of repertoire are developed through weekly reinforcement. Students meet once a week in a private lesson. Practice time outside of class is required.
1 credit

MUL217 – MUL220 **Woodwind Lessons V - VIII** are the study of music skills as they apply to playing woodwind instruments. Music theory, sound production techniques, breathing, posture, and knowledge of repertoire are developed through weekly reinforcement. Students choose an instrument from the woodwind family (clarinet, saxophone, flute, etc.) and meet once a week in a private lesson. Practice time outside of class is required. 1 credit

MUL221 – MUL224 **Piano Lessons V - VIII** are the study of music skills as they apply to playing piano. Music theory, sound production techniques, breathing, posture, and knowledge of repertoire are developed through weekly reinforcement. Students meet once a week in a private lesson. Practice time outside of class is required. 1 credit

MUL225 – MUL228 **String Lessons V - VIII** are the study of music skills as they apply to playing a string instrument. Music theory, sound production techniques, breathing, posture, and knowledge of repertoire are developed through weekly reinforcement. Students choose an instrument from the string family (violin, cello, etc.) and meet once a week in a private lesson. Practice time outside of class is required. 1 credit

MUL229 – MUL232 **Drum Percussion Lessons V - VIII** are the study of music skills as they apply to playing drums and/or percussion instruments. Music theory, sound production techniques, breathing, posture, and knowledge of repertoire are developed through weekly reinforcement. Students meet once a week in a private lesson. Practice time outside of class is required. 1 credit

MUL233 – MUL236 **Brass Lessons V - VIII** is the study of music skills as they apply to playing brass instruments. Music theory, sound production techniques, breathing, posture, and knowledge of repertoire are developed through weekly reinforcement. Students choose an instrument from the brass family (trumpet, trombone, horn, etc.) and meet once a week in a private lesson. Practice time outside of class is required.
1 credit

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Nursing

NUR101 **Concepts and Processes in Nursing** introduces the student to the profession of nursing, the Neuman Systems Model (NSM), nursing as a discipline, nursing concepts, and the nursing process. Special emphasis is on utilizing the Neuman Systems Model and the nursing process in planning nursing care of elderly clients.
2 credits
Prerequisites: BIO208, BIO218, EGL101, MAT093 or MAT097.
Co-requisites: NUR104, NUR114.

NUR104 **Nursing Fundamentals Theory** will introduce basic nursing concepts and processes with emphasis on assisting the aged adult to adapt in illness to achieve an optimum level of wellness. The student will be introduced to the nursing process and to the Neuman Systems Model - the conceptual framework used throughout the nursing program. 5 credits
Pre-requisites: BIO208, BIO218, EGL101, MAT093 or MAT097.
Co-requisites: NUR101, NUR114.

NUR105 **Care of Adult and Aging Clients** emphasizes the nursing care of adult and aging clients experiencing medical-surgical problems. Course work includes the study of clients undergoing alterations in levels of wellness related to physiological stressors. Study involves application of the Neuman Systems Model and the nursing process to promote attainment/maintenance of optimal levels of wellness. 4 credits
Pre-requisites: NUR101, NUR104, NUR114.
Co-requisite: NUR115.

NUR114 **Clinical Lab I: Nursing Fundamentals** is the college/clinical laboratory that provides an opportunity for students to demonstrate safe and competent psychomotor and communication skills necessary for client care. The student will be expected to use the nursing process and the Neuman Systems Model when demonstrating their nursing skills. The demonstration of client care is based upon theoretical knowledge acquired from the co-requisite courses. 2 credits
Pre-requisites: BIO208, BIO218, EGL101, MAT093 or MAT097.
Co-requisites: NUR101, NUR104.

NUR115 **Clinical Lab II: Medical/Surgical Settings** provides clinical laboratory learning experience in medical/surgical settings. Emphasis is on the utilization of the nursing process and the Neuman Systems Model in the care of adults and aging clients experiencing physiological stressors. 4 credits
Pre-requisites: NUR101, NUR104, NUR114.
Co-requisite: NUR105.

NUR130 **LPN to ADN Transition** is designed to introduce the Licensed Practical Nurse (LPN) to the role of the Associate Degree Registered Nurse (ADN). Course content includes college success strategies, various roles of the nurse, role transition from LPN to RN, nursing concepts including the Neuman Systems Model (NSM), nursing process, pharmacology, and care of adult and aging clients. 3 credits
Pre-requisite: EGL101.
Co-requisites: BIO200, BIO209, BIO210, BIO219, NUR131.

NUR131 **LPN to ADN Clinical Lab** is the clinical companion to NUR130. Clinical experience focuses on the care of adult and aging clients experiencing medical and surgical stressors. Students will demonstrate proficiency in technical nursing procedures, caring for multiple clients, and will begin to utilize the nursing process at the level of a Registered Nurse. The student is expected to integrate theoretical knowledge into the practice of nursing and utilize effective communication skills. 1 credit
Pre-requisite: EGL101.
Co-requisites: BIO200, BIO209, BIO210, BIO219, NUR130.

NUR181 **Military Transition to ADN Clinical Lab** is the clinical course prior to enrolling in the senior year of the Associate degree nursing program and is designed to prepare navy corpsmen, army medics (91wm6 or higher) and/or air force medical technicians (Usaf4no) to transition into the role of the Registered Nurse. Clinical experiences focus on the care of adult and aging clients experiencing medical and surgical stressors. Students will be expected to demonstrate proficiency in technical nursing procedures, care for multiple clients, and utilize the nursing process at the level of a Registered Nurse. The student is expected to integrate theoretical knowledge into the practice of nursing and utilize effective communication skills. Enrollment requires dual enrollment with American Public University System and permission of the Dean of Nursing and Health Professions.
Pre-requisite: EGL101.
Co-requisites: BIO200, BIO209, BIO210, BIO219.

NUR201 **Care of Childbearing/Childrearing Families** focuses on the introduction and use of Family Systems Theory in addition to the nursing process and the Neuman Systems Model in the study of childbearing/childrearing families. Study will include developmental/normal and complex stressors affecting individual, family, and community systems, coupled with the nursing implications for assisting these clients to attain, maintain, or regain optimal level of wellness. 4 credits
Pre-requisites: BIO200, BIO209, BIO210, BIO219, NUR105, NUR115.
Co-requisites: NUR211, PSY201.

NUR204 **Care of Clients with Complex Stressors** utilizes the Neuman Systems Model (NSM) and the nursing process to emphasize care of adult and aged clients in various healthcare settings and includes study of clients experiencing complex alterations in level of wellness related to pathophysiological and/or psychological stressors. The concept of synthesis and integration of nursing knowledge in the care of multiple clients is included. 4 credits
Pre-requisites: NUR201, NUR211, PSY201.
Co-requisites: NUR206, NUR214.

NUR206 **Professional, Legal, and Ethical Issues in Nursing** stresses the professional, legal, political, and ethical issues which influence the nurse's role and responsibilities in today's health care environment. Concerns and issues which confront nurses, particularly the new nursing graduate, are discussed and problem-solving techniques are utilized. Evidence-based nursing practice, professional activities and continued education in the field of nursing are emphasized. 2 credits
Co-requisite: NUR204.

NUR208 **Professional Issues in Nursing** stresses the professional, social, legal, political, and ethical issues which influence the nurse's role and responsibilities in today's health care environment. Concerns and issues which confront nurses, particularly the new nursing graduate, are discussed and problem-solving techniques are utilized. Evidence-based nursing practice, professional activities and continued education in the field of nursing are emphasized. 3 credits.
Co-requisite: NUR204.

NUR211 **Clinical Lab III-Care of Childbearing/Childrearing Families** stresses the utilization of the nursing process and the Neuman Systems Model in the care of reproductive health clients and childbearing/childrearing families and their members in a variety of inpatient, outpatient, and other settings.

4 credits
Pre-requisites: BIO200, BIO210, BIO209, BIO219, NUR105, NUR115.
Co-requisites: NUR201, PSY201.

NUR214 **Clinical Lab IV: Medical/Surgical/Psychiatric** stresses the assessment, planning, implementation, and evaluation of clients in the medical/surgical and psychiatric settings using the Neuman Systems Model and the nursing process. In the medical/surgical clinical settings, the students are provided opportunities to develop their leadership and organizational skills through supervision of peers and other nursing personnel and multiple patient assignments. In the psychiatric clinical setting, the therapeutic skills necessary for providing nursing care for psychiatrically hospitalized clients are utilized. 4 credits
Pre-requisites: NUR201, NUR211, PSY201.
Co-requisite: NUR204.

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Philosophy

PHI101 **Introduction to Philosophy (H)** introduces students to traditional philosophical problems. The course objectives are to learn to think critically about philosophical topics and to apply basic philosophical concepts to everyday life. 3 credits
Pre-requisite: EGL093.

PHI201 **Ethics – Contemporary Moral Issues (H)** introduces students to philosophical thinking about morality, moral problems, and moral judgments. 3 credits
Pre-requisite: EGL093.

PHI205 **Philosophy of Religion (H)** introduces students to the vast array of religious beliefs and possible explanations for them, the arguments for God's existence and criticisms of those arguments, and the philosophical/psychological foundations of faith. Emphasis is placed on what people believe. 3 credits
Pre-requisite: EGL093.

PHI270 **Ethical Issues in Healthcare** will introduce students to ethical issues in today's healthcare environment. Students will be exposed to a comprehensive view of ethical issues including how to identify ethical issues and how to address a wide variety of ethical situations. 3 credits
Pre-requisite: EGL101.

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Physical Education

PED104 **Walking for Fun and Fitness I (ACT)** This introductory course is designed to provide students with the skills and knowledge necessary to continue participation in fitness and wellness activities as a lifelong commitment to maintaining physical fitness. Emphasis is placed on general walking terminology, logging and/or journaling, health-related components, and injury prevention and care. Students will be given the opportunity to design a walking program, and modify it to meet his or her individual short- and long-term goals. 1 credit

PED106 **Running for Fun and Fitness** is designed to provide students with the theoretical and practical knowledge and experience to enhance their cardiovascular fitness, primarily through running. The course will explore basic concepts in running mechanics, safety considerations, and setting up a training program. Students will complete a pre- and –post assessment of their fitness, with the opportunity to create goals and attain them within the course. 1 credit

PED107 **Hiking (ACT)** is an introductory course on hiking basics with an emphasis on setting up an exercise program, reading and planning routes, personal safety, and health benefits. All Cecil College Physical Education courses are designed to provide educational opportunities that empower students to practice lifelong positive health behaviors. In particular, this course will prepare students to experience several local hikes where they can apply basic hiking skills. Additional topics to be covered include: basic compass and/or map use, food and water guidelines, Leave No Trace principles, treatment of common hiking injuries, clothing/equipment considerations and daypack essentials. Students will be required to complete hikes at trail locations regionally. Students must provide their own transportation to trail locations. While previous hiking experience is not required, the physical ability to navigate moderately difficult terrains is strongly advised.
2 credits

PED109 **Cardiovascular Fitness (ACT)** is an introductory course designed to provide opportunities for students to practice and improve their cardiovascular fitness, muscular endurance and strength, body composition and flexibility. All Cecil College Physical Education courses are designed to provide educational opportunities that empower students to practice lifelong positive health behaviors. In particular, this course will prepare students to learn about the proper use of equipment such as treadmills, ellipticals, versa climbers and rowing machines, in addition to using outdoor facilities such as the walking track and nature trail as a part of their exercise program. An individual workout routine, developed by the student and instructor, will be followed throughout the course. 2 credits

PED135 **First Aid and CPR** will provide students with the opportunity to learn the skills needed to act quickly and effectively in the case of an accident or emergency situation. Students participate in various simulated injury and emergency situations. Students may achieve American Red Cross certification in Adult, Child and Infant CPR and First Aid. 3 credits

PED161 **Introduction to Martial Arts (ACT)** is an introductory course designed to provide students with basic self-defense skills through the practice of several disciplines of martial arts including, but not limited to, Brazilian Jiu Jitsu (BJJ) and Muay Thai. Areas of emphasis beyond the physical practice will include focus, awareness, respect, humility and general enhancement of ones' everyday life. All Cecil College Physical Education courses are designed to provide educational opportunities that empower students to practice lifelong positive health behaviors. In particular, this course will teach students basic stances, blocks, punches, kicks and techniques. Upon successful completion of the course, students will be able to defend themselves using a multitude of martial art techniques in a mock one on one scenario. 2 credits

PED162 **Karate I (ACT)** introduces the Isshinryu form of karate. Through systematic training, self-defense skills are developed and basic stances, blocks, strikes, and quick escapes are practiced. Emphasis is placed on character building and attitude. 2 credits

PED164 **Brazilian Jiu Jitsu (ACT)** is a course designed to build students' confidence, physical fitness and self-defense skills through the practice of the martial art form, Brazilian Jui Jitsu (BJJ). Students will learn about the history and traditions of BJJ, in addition to the physical practice. All Cecil College Physical Education courses are designed to provide educational opportunities that empower students to practice lifelong positive health behaviors. In particular, this course will teach students BJJ skills and techniques such as getting to and from the ground safely, using leverage against the opponent, take downs and submissions. Upon successful completion of the course, students will be able to defend themselves using skills learned in class in a mock one on one scenario. 2 credits

PED166 **Co-ed Self-Defense** introduces the maneuvers of self-defense. Students will be given the opportunity to learn the vital areas of the body which could be used as a target in the event of being attacked, how to use one's own body as a weapon, how to use ordinary objects as a weapon, and how to subdue an attacker. Emphasis is placed on how to recognize and avoid dangers; and if avoidance is not possible, how to use self-defense techniques. 1 credit

PED169 **T'ai Chi Ch'uan (ACT)** introduces the student to the Yang style of this ancient Chinese martial art, which promotes a highly sophisticated mode of body coordination and more acute mental processes. It has been used for centuries as both a method of relaxation and fitness. Students will be given the opportunity to learn the basic principles, characteristics, history, and performance of the Yang style of T'ai Chi Ch'uan. 1 credit

PED173 **Step Aerobics I (ACT)** will introduce the fundamental skills of aerobics. This activity-based course will provide students with the opportunity to demonstrate beginner skill level for low impact aerobics along with principles of body toning. Each student will create individual fitness goals. 1 credit

PED174 **Weight Training I (ACT)** is a physical activity-based course designed to incorporate aspects of resistance training. Students will be given guidelines for a workout routine during the first phase of the course including recommended nutritional practices. During the second phase of the course, students will design their own weight training program geared to reaching their personal goals. The emphasis of the course is the development of muscular strength and endurance. 2 credits

PED175 **Hatha Yoga I (ACT)** introduces students to the principles of postural alignment, breathing techniques for increased energy, and body/mind relaxation techniques for stress reduction. It is an activity-based class that encourages the students to enhance their health and skill-related fitness. 2 credits

PED177 **Physical Conditioning (ACT)** facilitates students developing a fitness routine geared to their individual needs for lifetime fitness. All Cecil College Physical Education courses are designed to provide educational opportunities that empower students to practice lifelong positive health behaviors. In particular, this course will prepare students to participate in a wide variety of health and skill related activities. Additional topics to be covered include: assessing physical fitness and nutrition status, goal setting, and FITT principles. An individual workout routine, developed by the student and instructor, will be followed throughout the course. 2 credits

PED180 **Introduction to Physical Education** introduces students to the foundations of physical education and career opportunities. Emphasis is placed on the physiological, socio-cultural, and psychological foundations of the profession. This course also explores career opportunities within areas of exercise science, coaching, health, fitness, and sport. This course does not satisfy activity requirements in any degree or certificate program. 3 credits
Co-requisite: EGL101.

PED183 **Basketball Theory and Officiating** introduces the student to coaching techniques and the knowledge and mechanics of officiating. Emphasis is placed on developing a sound philosophy, organizing an effective program, implementing coaching strategies, and officiating skills. This course does not satisfy the physical education activity requirements in any degree or certificate program. 3 credits
Co-requisite: EGL090.

PED184 **Baseball/Softball Theory and Officiating** introduces the student to coaching techniques and the knowledge and mechanics of officiating. Emphasis is placed on developing a sound philosophy, organizing an effective program, implementing coaching strategies, and officiating skills. This course does not satisfy the physical education activity requirements in any degree or certificate program. 3 credits

PED196 **Tennis I (ACT)** is a physical activity-based introduction to tennis. Emphasis will be on the fundamentals of the basic strokes and strategies in singles and doubles play. Topics will also include selection of equipment, scoring the game, and proper etiquette. 1 credit

PED204 **Walking for Fun and Fitness II (ACT)** is a continuation of PED104 and provides the student with advanced techniques for the serious walker. Emphasis is placed on improving distance and time, race walking, prevention of injuries, and motivation techniques. 1 credit
Pre-requisite: PED104.

PED206 **Running for Fun and Fitness II (ACT)** is a continuation of PED106 and is designed to provide students with expanded theoretical and practical knowledge and experience to enhance their cardiovascular fitness, primarily through running. All Cecil College Physical Education courses are designed to provide educational opportunities that empower students to practice lifelong positive health behaviors. The course will further explore concepts in running mechanics, safety considerations, and setting up an advanced training program. Students will complete a pre- and –post assessment of their fitness, with the opportunity to create goals and attain them within the course. 1 credit
Pre-requisite: PED106.

PED263 **Karate II (ACT)** expands upon the techniques and philosophies of Karate I. It further develops the art of self-defense. 2 credits
Pre-requisite: PED162.

PED264 **Karate III (ACT)** expands upon the techniques and philosophies of Karate II. Students will have the opportunity to advance in rank. 2 credits
Pre-requisite: PED263.

PED265 **Karate IV (ACT)** is the advanced phase of karate. It will allow the student to demonstrate the techniques of sparring. 2 credits
Pre-requisite: PED264.

PED273 **Step Aerobics II (ACT)** will build on the fundamentals of aerobics. This activity-based course will provide students the opportunity to demonstrate moderate skill level for low impact and high impact aerobics along with principles of body toning. Each student will create an individual fitness plan. 1 credit
Pre-requisite: PED173.

PED274 **Weight Training II (ACT)** provides students the opportunity to further develop their Weight Training I programs. The course places an emphasis on increasing exercise intensity, using split routines and fixed and variable progressive systems. 2 credits
Pre-requisite: PED174.

PED277 **Hatha Yoga II (ACT)** will expand on students' current skill level. Students are encouraged to hold poses for longer periods of time, practice new poses and construct routines. Students will demonstrate moderate to advanced yoga poses with acquired flexibility and strength, breath awareness, nutrition awareness, and balance and have opportunities for leadership roles in class. 2 credits
Pre-requisite: PED175.

PED278 **Olympic Lifting I (ACT)** is a physical activity-based course designed to incorporate aspects of Olympic style lifting and the performance of two main Olympic lifts: the Clean and Jerk and the Snatch. The first phase of the class will focus on learning to perform the fundamental movements of each lift to ensure proper technique. During the second phase of the course, students will combine the individual techniques to perform each Olympic lift. Topics that will be covered during the semester are principles of Olympic lifting, proper lifting techniques, training guidelines, and safety. The focus will be on the knowledge and application of techniques to develop muscular strength for total body conditioning. 2 credits
Prerequisite: PED174 or permission of faculty member.

PED282 **Fundamentals of Sports Medicine** introduces the theory, practice, and career options in sports medicine. Topics covered will include common athletic injuries, evaluations of major joints (ankle, knee, and shoulder), prevention techniques, rehabilitation, taping and other related injuries (heat/cold, illness, concussions, etc). This course will benefit individuals who plan to continue their studies in a sports medicine field, athletic training, and physical therapy. 3 credits
Pre-requisites: BIO208, BIO218.

PED296 **Tennis II (ACT)** is a physical activity-based course designed to develop intermediate tennis skills with particular emphasis on advanced stroking techniques, physical aspects of playing tennis, practice routines, and the mental aspects of tennis competition. 1 credit
Pre-requisite: PED196.

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Physical Science

PSC105 **General Physical Science with Lab (SL)** is a survey of systems of measurement, motion, heat, light, sound, the physical states of matter, mechanics, electricity, magnetism, simple chemistry, geology, climate, meteorology, and astronomy. The labs reinforce the principles introduced in lecture and provide an opportunity for personal study of physical phenomena. 4 credits
Pre-requisites: EGL093, MAT092 or MAT097.

PSC120 **Physical Geology (SL)** is the study of the structure, composition, and surface of the Earth. The geologic history of the Earth's evolution is also covered. Topics include earthquakes, volcanoes, mountain building, the major types of rocks and minerals, rock strata, weathering, glaciers, plate tectonics, geologic time scales, fossils and dating, and the processes that combine to create the Earth's surface that we see every day. 4 credits
Pre-requisites: EGL093, MAT092 or MAT097.

PSC125 **Essentials of Weather (SL)** provides students with a background in fundamental weather and climatology, with an eye towards dealing with hazardous conditions. Students will learn the concepts necessary to understand the atmosphere, atmospheric circulation, storms, icing, wind shear, turbulence, and other weather hazards. Weather forecast and weather information sources will be utilized. Real time weather data along with archived data will be analyzed weekly in the lab. PSC 125 may be used to fulfill the general education requirement in science. 4 credits
Pre-requisites: EGL093, MAT092 or MAT097.

PSC135 **Introduction to Climate Science with Lab** investigates the seasonal and long-term environmental patterns of the earth. The processes that influence the climate can be different from those that determine the weather. Climate, climate variability, climatic change, the influence of human activities, along with the ecological, economic, and societal impacts of climate will be explored and analyzed. Climatic connections with the atmosphere, lithosphere, hydrosphere, cryosphere, and biosphere will be examined. Experiments, model simulations and real-world, climatic data will be used to study the Earth's climate system. 4 credits
Pre-requisites: EGL093, MAT092 or MAT097.

PSC140 **Introduction to Ocean Studies with Lab (SL)** is a study of the world's oceans focusing on properties and circulation of the ocean, and some interactions between the ocean and components of the Earth system. The human/societal impacts on, and responses to, those interactions will be examined. Physical, chemical, geological, and biological aspects of the oceans will be explored. The laboratory exercises are designed to reinforce concepts presented in lecture by having students access and interpret a variety of environmental information, including recent observational data. 4 credits
Pre-requisites: EGL093, MAT092 or MAT097.

PSC220 **Meteorology (SL) with Lab** is the study of the atmosphere, weather elements, air masses, cloud development, atmospheric motion, fronts and storms, thunderstorms, tornadoes and hurricanes. Principles of weather forecasting will be discussed. The labs reinforce lecture principles and provide opportunity for personal study of these phenomena. This class may be used to fulfill the general education requirement in science. 4 credits
Pre-requisites: EGL093, MAT093 or MAT098.

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Physical Therapist Assistant

PTA101 **Introduction to Physical Therapy** provides an introduction and orientation to the field of physical therapy. Course includes historical background, scope of Physical Therapist Assistant (PTA) practice, medical-professional ethics and conduct, the role of the physical therapist assistant as part of the health care team, Physical Therapist/Physical Therapist Assistant (PT/PTA) collaboration, documentation, and orientation to psychological and social needs of the ill and disabled. 1 credit
Co-requisites: PTA102, PTA103.

PTA102 **Clinical Kinesiology and Biomechanics** will present advanced anatomy of the musculoskeletal system with emphasis on joint mechanics, human movement, and palpation of anatomical landmarks. The student will learn the principles of normal and abnormal posture and gait. In lab, students will practice the identification and palpation of musculoskeletal structures and identify their related function. 3 credits
Pre-requisites: BIO208, BIO218.
Co-requisites: BIO209, BIO219, PTA101, PTA103.

PTA103 **Clinical Skills for the PTA** is an introduction to the technical and professional skills needed to care for patients in varied settings. This course introduces documentation and examination of physiological measures, range of motion, strength, and balance. In addition, it covers positioning and draping, body mechanics, and functional activity training. Common diseases and conditions encountered in the field of physical therapy are introduced. In lab, students will practice goniometry, manual muscle testing, vital sign measurement, posture, balance and exertion scales, pain scales, functional mobility training, and documentation. 3 credits
Pre-requisites: BIO208, BIO218.
Co-requisites: BIO209, BIO219, PTA101, PTA102.

PTA204 **Therapeutic Modalities** provides instruction in the theory and application of therapeutic modalities used by physical therapist assistants. Modalities covered include the therapeutic use of heat and cold, massage, hydrotherapy, traction, intermittent pressure pumps, and use of electrical currents. Common conditions requiring the use of these treatment modalities will be presented, and contraindications and special precautions for their use will be discussed. In addition, this course will include the appropriate test and measures necessary for the safe application of the modalities utilized by the physical therapist assistant.

3 credits
Pre-requisites: BIO209, BIO219, PTA102, PTA103.
Co-requisites: PTA206, PTA210.

PTA206 **Therapeutic Exercise** presents the principles of exercise physiology, the concepts and purposes of therapeutic exercise, a variety of exercise treatment strategies, injury prevention and the appropriate tests and measures necessary for the safe application of therapeutic exercise. Common equipment and exercise interventions to improve flexibility, strength, and motor control will be covered. In addition, physiological responses to exercise for specific populations will include patients with chronic illness, children, geriatrics, and pregnancy. 3 credits
Pre-requisites: BIO209, BIO219, PTA102, PTA103.
Co-requisites: PTA204, PTA210.

PTA210 **PTA Seminar I** is the first of two seminars addressing the themes of professional issues, core values and the development of an entry level professional candidate. These seminars will challenge the student to apply professional theme content during patient scenarios as introduced through a variety of case studies. This first seminar will focus on interpersonal and professional communication, duty, and integrity (ethical, legal, and safe clinical practice), cultural competence, and professional and legal standards for clinical documentation. 2 credits
Pre-requisites: PTA101, PTA102, PTA103.
Co-requisites: PTA204, PTA206.

PTA212 **PTA Seminar II** is the second of two seminars addressing the themes of professional issues, core values, and the development of an entry level professional candidate. Seminar II will be taken between PTA 232 and PTA 234 and will challenge students to apply professional theme content during patient scenarios as introduced through a variety of case studies. This seminar will cover career development, communication, and continuing professional competence. Activities will include national board exam review preparation, job search strategies, resume development, and professional interview skills. 1 credit
Pre-requisites: PTA210, PTA230, PTA232.
Co-requisites: PTA234.

PTA220 **Clinical Orthopedics** entails the study of structural anatomy, orthopedic conditions and their underlying pathologies. The student will learn to assess the musculoskeletal and nervous systems as they relate to the orthopedic clinical setting. Course content will focus on common cervical spine, thoracolumbar spine, upper extremity and lower extremity non-operative diagnoses and post-operative conditions, physical therapy interventions, post-operative and injury care protocols and treatment techniques. 4 credits
Pre-requisites: PTA204, PTA206.
Co-requisites: PTA222, PTA224, PTA226, PTA230.

PTA222 **Clinical Neurosciences** focuses on the study of neurological physiology, anatomy, and pathology and an introduction to motor control and motor learning throughout the lifespan. Course content will focus on developing foundational knowledge to work with the neurological pathologies most commonly encountered in the practice of physical therapy. 3 credits
Pre-requisites: PTA204, PTA206.
Co-requisites: PTA220, PTA224, PTA226.

PTA224 **Clinical Cardiopulmonary and Integumentary Issues** covers the pathologies associated with peripheral vascular disease, cardiovascular disease, pulmonary disease and integumentary disorders. Wound care treatments and techniques will be covered in lab. 3 credits
Pre-requisites: PTA204, PTA206.
Co-requisites: PTA220, PTA222, PTA226.

PTA226 **Physical Therapy Special Populations** will be presented in 3 distinct units covering the physical therapy interventions and strategies for the following special populations: pediatrics, amputees and women's health clients. 2 credits
Pre-requisites: PTA204, PTA206.
Co-requisites: PTA220, PTA222, PTA224.

PTA230 **Clinical Practice I** provides students with supervised application of newly learned skills and reinforcement for previously learned skills in a selected physical therapy setting. A journal will be required documenting course experience and clinical objectives assigned. 3 credits
Pre-requisites: PTA204, PTA206, PTA210.
Co-requisites: PTA220, PTA222, PTA224, PTA226.

PTA232 **Clinical Practice II** provides students with supervised application of newly learned skills and reinforcement for previously learned skills in a selected physical therapy setting. A verbal presentation will be presented to the staff of the host facility as approved by the clinical instructor. 6 credits
Pre-requisites: PTA220, PTA222, PTA224, PTA226, PTA230.
Co-requisites: PTA212, PTA234.

PTA234 **Clinical Practice III** provides students with supervised application of newly learned skills and reinforcement for previously learned skills in a selected physical therapy setting. A capstone oral presentation will be presented to the staff of the host facility that differs from that of the Clinical Practice II presentation as approved by the clinical instructor and program ACCE. 6 credits
Pre-requisites: PTA220, PTA222, PTA224, PTA226, PTA230.
Co-requisites: PTA212, PTA232.

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Physics

PHY103 **Physics Today with Lab (SL)** helps curious Liberal Arts students to become aware of, and to appreciate, their physical environment. The basics concepts of classical mechanics, thermodynamics, wave motion, electricity, magnetism, optics, and modern physics are covered. The emphasis is on the relationship between physics and everyday life. 4 credits
Pre-requisites: EGL093, MAT092 or MAT097.

PHY181 **Introductory College Physics I with Lab (SL)** is the first part of a two-semester, algebra-based, physics course. It provides a comprehensive introduction to physics for students interested in physical, biological, health and environmental sciences. Topics include kinematics, dynamics, energy and momentum conservation, collisions, gravitation, fluids, thermodynamics, oscillations, waves, and sound. Conceptual understanding will be integrated with problem solving and lab experience. Previous exposure to physics principles and strong math skills are highly recommended. 4 credits
Pre-requisite: MAT121.

PHY182 **Introductory College Physics II with Lab (SL)** is the second part of a two-semester, algebra-based, physics course. Topics include electricity, magnetism, light, optics, and modern physics. Conceptual understanding will be integrated with problem-solving and lab experience. Previous exposure to physics principles and strong math skills are highly recommended. 4 credits
Pre-requisite: PHY181.

PHY217 **General Calculus Physics I with Lab (SL)** is the first course of a three semester calculus-based general physics course sequence. This course provides a comprehensive introduction for students interested in physics and engineering. Topics related to mechanics include linear and rotational kinematics and dynamics, energy and momentum conservation, collisions, equilibrium of rigid bodies, and oscillations. Problem-solving and laboratory skills will be emphasized in this course. Previous exposure to physics principles and strong mathematics skills are highly recommended. 4 credits
Pre-requisite: MAT121.
Co-requisite: MAT201.

PHY218 **General Calculus Physics II with Lab (SL)** is the second course of a three semester calculus-based general physics course sequence. This course provides a comprehensive introduction to students interested in physics and engineering. Topics include: thermodynamics, electricity, magnetism, and radioactivity. Problem-solving and laboratory skills will be emphasized in this course. 4 credits
Pre-requisite: PHY217 with a C or better.
Co-requisite: MAT202.

PHY219 **General Calculus Physics III with Lab (SL)** is the third course of a three semester calculus-based general physics sequence. Topics from modern physics that will be emphasized: vibrations, waves, sound, geometrical and physical optics, special relativity, black body radiation, the photoelectric effect, Compton scattering, the Bohr model and atomic structure, quantum mechanics, nuclear structure and semiconductors. Problem-solving and laboratory skills will be emphasized in this course. 4 credits
Pre-requisite: PHY218 with grade of C or better.
Co-requisite: MAT203.

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Political Science

POS101 **Introduction to Political Science (SS)** offers an understanding of how our political system works and the role of citizens in the decision making process which is so vital to a strong democracy. The course will review the structure and function of our political system, debate and analyze current political issues, and provide an overview of politics in setting economic, social, and foreign policy. 3 credits

POS201 **American Government (SS)** offers an understanding of how our political system works and how active involvement of the citizenry can make a difference in the responsiveness of our government to the needs of its people. This course provides an overview of the basic government institutions and the processes of American government. The course also examines the relationships between governmental institutions and how the public influences the process. 3 credits
Pre-requisite: EGL093.

POS202 **State and Local Government** is a basic course in functions and problems of state and local government in the United States. Emphasis is placed on Maryland jurisdiction with special attention given to Cecil County. 3 credits
Pre-requisite: EGL093.

POS290 **Constitutional Law** examines the role of the Supreme Court in defining fundamental rights and liberties with a particular focus on case law. This course will examine the topics of incorporation, the Establishment Clause, freedom of speech, freedom of the press, and criminal procedure. Constitutional law will also examine the struggle for equality and civil rights in the context of race, gender, sexual orientation, age, and income by examining the Equal Protections Clause and Due Process Clause of the Fourteenth Amendment. The inherent tension in supporting individual rights when such individual rights conflict with the will of the democratic society will also be examined. 3 credits
Pre-requisite: EGL101.

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Procurement

PRO110 **Procurement and Acquisition I** is a broad overview of the federal acquisition processes, practices and management. Topics include the federal marketplace, regulations, policies, roles and responsibilities, the federal acquisition process, socioeconomic goals, contract types, fundamentals of contract solicitation, award and administration. 3 credits
Pre-requisite: BUS108.

PRO120 **Principles of Pricing** covers skills in developing proposals that obtain fair and reasonable prices. Students will examine the competitive and financial environment related to price proposals utilizing the techniques of cost and price analysis, life-cycle costing, return on investment, and cost-benefit analysis.
3 credits
Pre-requisites: MAT093 or MAT097, PRO110.

PRO121 **Legal Issues in Government Procurement** provides an overview of the procurement process with specific concern for ethical practices and decision making throughout the lifecycle of the procurement process. Legal issues encountered during the procurement process will be discussed as they relate to federal acquisition reform. 3 credits
Pre-requisites: PRO110.

PRO210 **Procurement and Acquisition II** will provide an overview of the Department of Defense (DoD) marketplace. Topics will include defense acquisition planning, market research, competition requirements, defense acquisition of commercial items, proposal preparation and submission, protests, disputes and appeals, terminations, special categories of contracting, and subcontracting. 3 credits
Pre-requisite: PRO110.

PRO215 **Advanced Procurement and Acquisition** builds on the knowledge acquired in previous procurement and acquisition courses. Topics include the Department of Defense's acquisition life cycle phases, milestones and the key activities associated with each, as well as earned value management and acquisition strategies.
3 credits
Pre-requisites: PRO110, PRO210.

PRO220 **Pricing and Contract Integration** develops skills in pricing, cost analysis, and managing contract issues. Students will develop a proactive, strategic approach to satisfy the customer's evolving requirements.

3 credits
Pre-requisite: PRO120.

PRO230 **Procurement Contract Negotiations** introduces terminology, methods and techniques necessary to analyze a contractor's cost proposal and to develop a government negotiation objective. 3 credits
Pre-requisites: BUS108, PRO110.
Notes: Students may enroll for this course with permission of instructor. After registering, students are to contact the instructor.

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Psychology

PSY101 **Introduction to Psychology (SS)** is both the scientific and philosophical study of behavior and thought. Topics covered include methods used to study behavior, perspectives on personality, biological basis of behavior, states of consciousness, human development, learning, memory, motivation, emotion, social psychology, and mental health and adjustment. 3 credits
Pre-requisite: EGL093.

PSY201 **Human Growth and Development (SS)** studies the developing person through the lifespan, from conception to death. Current research and theories are studied in order to describe and explain physical, cognitive, social, emotional, and personality development in infancy, childhood, adolescence, young adulthood, middle age, and late adulthood. The importance of specific environmental contexts in development, and applications of research and theory are emphasized. 3 credits
Pre-requisite: PSY101.

PSY203 **Child Growth and Development** studies the developing person from conception through adolescence. Current research and applications are used to describe and explain physical, cognitive, personality, social, and emotional development. The importance of specific environmental contexts in development is emphasized. Some of the major topics explored in the course include: prenatal development, birth, attachment, language development, abuse and neglect, parenting, moral development, gender role development, and problems and challenges of adolescence. 3 credits
Pre-requisite: PSY101.

PSY207 **Educational Psychology** involves an examination of psychological principles and practices as they apply to educational settings. Several topics related to teaching and learning are addressed, including developmental theory and processes, student characteristics, learning, instruction, diversity, motivation, exceptionalities, effective learning environments, evaluation, and measurement of learning outcomes.
3 credits
Pre-requisite: PSY101.
Co-requisite: EDU207.

PSY222 **Organizational Psychology (SS)** applies the methods, facts, principles, and research of psychology to organizations and people at work. Work is an important role in the daily lives of people everywhere and represents a unique domain of psychological experience. This course will introduce major areas relevant to the behavior of people at work. Focus is on work behavior and organizational practices that contribute to overall performance and quality of life, as well as the effectiveness and efficiency of organizations. 3 credits.
Pre-requisite: Grade of C or better in EGL101.

PSY227 **Introduction to Abnormal Psychology** introduces students to theoretical concepts that underlie psychological disorders. The course focuses on presenting the etiology, symptoms, patterns, assessment, treatment, and prevention of abnormal behavior. 3 credits
Pre-requisite: PSY101.

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Public Health

PBH104 **Introduction to Public Health** provides a general introduction to the study of health in populations, including the fundamentals of epidemiology, biostatistics, environmental health, health administration, and health education. Students will receive an overview of the profession of public health, including the history of public health, ethical issues in public health, and the public health workforce. Students will explore emerging issues in public health, such as the impact of infectious diseases on global populations, bioterrorism, and public health preparedness. Students will explore the role of government in public health and public health policy issues, such as access to healthcare. 3 credits
Pre-requisite: EGL093.

PBH110 **Introduction to Epidemiology** provides an introduction to principles and methods of epidemiological investigation and introduces the application of different types of research design for investigating the etiology of disease. The course will focus on describing the patterns of illness in populations for both infectious and noninfectious diseases. 3 credits
Pre-requisites: BIO101, BIO111, MAT093 or MAT097.
Co-requisite: PBH104.

PBH120 **The US Healthcare System** focuses on the organization, financing, and delivery of healthcare in the US through exploration of the private and public sectors of healthcare. Students will learn about the interaction of payers, providers, and patients within the US healthcare system in order to understand the issues related to the allocation of healthcare resources among the population. Students will learn about the factors that influence healthcare spending, quality of care, and access to care. Students will also explore the function of health advocacy. 3 credits
Pre-requisites: EGL093, MAT127, PBH104.

PBH208 **Health Education** will explore health education and promotion as a profession. Students will explore relevant theories and models that provide the framework for the practice of health education and promotion. Emphasis is placed on the responsibilities and competencies of health education specialists as well as the historical, ethical and philosophical foundations of the profession. 3 credits.
Pre-requisite: PBH120.

PBH218 **Health Administration** provides an introduction to the principles of health administration, including concepts of management and leadership theory as applied to health care and the organizational structure of the health care delivery system. Students will gain an understanding of the core competencies of a health service administrator, including planning, problem solving, decision making, the importance of continuous quality improvement, and managing organizational change. Students will also explore challenges facing health service administrators. 3 credits
Pre-requisites: BIO101, BIO111.
Co-requisite: PBH104.

PBH220 **Environmental Health** examines the relationship of people to their environment and how it affects their physical and mental well-being. Students will explore health issues, with an emphasis on the specific components of the environment which influence health. Students will explore the environmental factors involved in transmission of communicable diseases and hazards due to exposure to chemical, physical, and biological agents in our environment. Emerging global environmental health issues will be explored, including global warming and food insecurity. 3 credits
Pre-requisite: PBH110.

PBH270 **Public Health Capstone** requires the application of knowledge, skills, and competencies students have acquired throughout the public health curriculum in an experiential learning opportunity. An analysis of the area of public health, as well as a summary of experiential learning and a written component are required. 3 credits
Co-requisites: PBH218, PBH220.

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Russian

RUS101 **Introductory Russian I (H)** is an introduction to the Russian language. It presents the fundamentals necessary for understanding, speaking, reading and writing basic Russian. Topics include basic pronunciation and vocabulary, greetings, and other social conventions. Students will also be introduced to Russian culture, history, and geography. 3 credits

RUS102 **Russian II (H)** is the second semester of novice-level Russian. The course continues the development of listening, speaking, reading, and writing skills begun in RUS101. Students will build upon basic pronunciation, vocabulary, and comprehension skills. 3 credits
Pre-requisite: RUS101.

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Social Work

SWK101 **Introduction to Social Work (SS)** focuses on social work as a profession. The fundamental values, ethics, skills, and knowledge relevant to social work practice will be discussed. Students examine the history, principles, and nature of social welfare, including the relationship of social welfare institutions to society and the delivery systems for social services. Students explore concepts such as human diversity, social and economic justice, the needs of oppressed and disenfranchised populations, and policy in the context of social welfare. The course requires community service activities. 3 credits
Pre-requisite: EGL093.

SWK102 **Basic Interviewing Skills** is an introduction to the principles and practices of social work interviewing and counseling. Through the use of role-play and simulated interview sessions, students will develop basic interviewing skills for assessment, planning, and intervention. Throughout the exercises, students will evaluate the outcome of the interactions and the progress of the client. Students review personal ethics while developing a counseling orientation appropriate to working with people of various social and economic backgrounds. 3 credits

SWK201 **Social Welfare Policy Research and Experience** is an introductory course in social work policy research that includes an experiential learning component. The course emphasizes understanding and applying scientific knowledge and research methodologies in providing and evaluating social services. 3 credits
Pre-requisite: SWK101.

SWK202 **Elder Care Experiential Learning** focuses on student participation in an elder care, agency-based setting under the supervision of an agency designed professional. Students will apply fundamental knowledge, skills, values, and ethics to practice. Students will examine the biological, psychological, and social changes that occur with age and how these changes influence the interactions between the elder person and his or her social environment. 2 credits
Pre-requisite: SWK101.

SWK203 **Substance Abuse Experiential Learning** focuses on the study of alcohol and drug abuse. Students will participate in a substance abuse facility under the supervision of an agency professional. Students will apply fundamental knowledge, skills, values, and ethics to practice. Students will examine the theoretical perspectives on abuse, pharmacological characteristics of commonly abused substances, and stages of dependence and addiction. 3 credits
Pre-requisite: SWK101.

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Sociology

SOC101 **Introduction to Sociology (SS)** is the study of human society and social interaction. The course objectives are to understand the basic concepts, origins and theories of sociology; to evaluate the impact of gender and sexual orientation in family life, the workplace and education; to analyze the cultural and social forces which govern human behavior in a diverse society; to describe the positive and negative functions of group conformity; and to apply sociological concepts to everyday life. 3 credits
Co-requisite: EGL093.

SOC102 **Social Problems (SS)** is a study of the problems faced by today's society to include causes, ramifications to individuals, and how they might be solved. 3 credits
Pre-requisite: EGL093.

SOC103 **Marriage and the Family (SS)** is a study of the relationships within the marriage and family experience, including non-traditional relationships. The differences among families and marriages, family structures and functions, changes throughout the family life cycle, and the history of marriage and family will be examined. 3 credits
Co-requisite: EGL101.

SOC105 **Perspectives in Human Diversity (SS)** introduces the concepts of diversity consciousness, recognizing and overcoming diversity barriers, and identifying and appreciating cultural differences. Ethical and practical considerations are integrated through the use of case studies, projects, and reaction papers. 3 credits
Pre-requisite: EGL093.

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Spanish

SPN101 **Introductory Spanish I (H)** is an introduction to the Spanish language. It presents the fundamentals necessary for understanding, speaking, reading and writing basic Spanish. Topics include basic pronunciation and vocabulary, greetings, and other social conventions. Students will also be introduced to Spanish and Latin American culture, history, and geography. 3 credits

SPN102 **Introductory Spanish II (H)** is the second semester of novice-level Spanish. The course continues the development of listening, speaking, reading, and writing skills begun in SPN 101. Students will build upon basic pronunciation, vocabulary, and comprehension skills. 3 credits
Pre-requisite: SPN101.

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Speech

SPH121 **Interpersonal Communications (H)** is a survey course covering all facets of human communication. The course emphasizes basic communication skills and awareness of what contributes to effective communicating, as well as what contributes to messages miscommunicated. It also provides students with practice in verbal and listening skills. Students relate communication learning to all areas of life and career skills. Classroom discussions, activities, and experiments on a variety of topics are used as a basis for students' growing awareness of perception and skills in communication. 3 credits
Co-requisite: EGL093.

SPH141 **Public Speaking (H)** is the study of the principles and models of communication in conjunction with hands-on experience in the planning, structuring, and delivery of speeches. Students study and deliver several kinds of public address. The course also provides students with a model for constructive criticism to teach the students what contributes to effective public speaking. 3 credits
Co-requisite: EGL093.

SPH201 **Social Media Communications** examines strategic use of digital and social media platforms and tools for professional communication purposes, with an emphasis on hands-on experience and skill. Students learn to analyze social media for public relations and communication industries. 3 credits

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Theatre

THE104 **Script Analysis** focuses on the analysis and interpretation of play scripts as the foundation for theatrical production. Students will read varied genres of dramatic literature, compile research materials for selected plays, and attend live theatrical performances. Discussion, analysis, and written critique are essential components of this course. 3 credits
Pre-requisite: THE160.
Co-requisites: THE108, THE164.

THE106 **Voice for Actors** provides students with a theoretical and practical foundation in vocal techniques related to speaking on stage as they specifically apply to acting. Students will perform in class and onstage, applying a range of vocal techniques to character studies. 3 credits
Pre-requisite: THE160.

THE108 **Movement for Actors** is a course which analyzes the basic elements that shape the physical life of a character and how to use them effectively in building a role. Students will develop a heightened awareness of posture and physical patterns; learn basic breathing and movement techniques to support character development; analyze the impact of emotion, sociology and relationships on a character's physicality; and deepen their understanding of working on stage. 3 credits
Pre-requisite: THE160.
Co-requisites: THE104, THE164.

THE121 **Introduction to Theatre Design** is a course that will explore the creative process and history behind theatrical design. Emphasis will be placed on the major historical schools of theatrical staging. Assigned playscripts will provide touchstones for explorations of theatrical design, and students will critically evaluate realized theatrical productions. An additional objective of this course is to foster a broader understanding of theatre as a visual art. 3 credits

THE160 **Acting I** provides students with the essential physical, vocal, and acting techniques that serve as the foundation for performance. Students will be required to perform in class, applying a range of acting techniques, and will participate in oral and written critique and evaluation to demonstrate an understanding of the key concepts presented. 3 credits
Co-requisite: THE106.

THE161 **Introduction to Theatre (H)** is a survey course of all facets of theatre. Students will be introduced to various theatre professions and experience different aspects of theatre production. An overview of the history of theatre from primitive to modern times, will coincide with play readings/viewings from different genres. Students will work on current Covered Bridge Theatre Company Productions and will attend a professional production. 3 credits
Pre-requisite: EGL093 or permission of instructor.

THE164 **Applied Theatre** is a study of the skills necessary to create a successful theatre production. Students will employ the skills learned in theatre classes and apply them to a full-length play. Students may contribute to the production as either a performer or as part of the stage crew. This credit may be fulfilled by participating in a theatre department production or, if approved by the theatre faculty, by working with an established company in the region. Students should contact the theatre department to find an appropriate company to work with, and an audition may be required. In addition to scheduled class time, students must be available for rehearsals off campus and are expected to prepare material outside of class. 1 credit
Pre-requisite: THE160.

THE171 **Acting Fundamentals (H)** introduces students to the history, theory and practice of acting. Students will discover differences in acting styles and theories as they have evolved through the centuries. Students will also participate in actor training and assessment activities designed to enhance verbal and non-verbal communication, creativity, critical thinking and presentation skills. 3 credits

THE184 **Introduction to Acting for Screen and Stage (H)** introduces the art and craft of acting in a variety of contemporary entertainment genres. Auditioning skills, acting for the stage and on-camera, how to write copy, interviewing skills, timing for voiceover, the business of acting are all introduced. Emphasis is placed on creativity, performing for an audience, auditioning and interacting with scene partners. 3 credits
Co-requisite: EGL093.

THE261 **Acting II** continues the development of the traditional skills and techniques introduced in Acting I. Class work will consist primarily of scenes and monologues from various Modern theatrical genres including Realism, Anti-realism, Comedy and Absurdism. The use of the vocal techniques, physicality and beginning script analysis will be incorporated to further the student's understanding of the playwrights of Modern Theater, their master works and their use of language in character development. 3 credits
Pre-requisite: THE160.

THE262 **Theatre History I (H)** is an in-depth study of the beginnings of theater in ancient Greece through the Elizabethan era. This course focuses on culture and the development of theatre exploring how each affected the other. Students will read various plays from the Greek, Roman, Medieval, Indian, Chinese, Renaissance, and Elizabethan theatres. Discussion, analysis, group presentation, and written critique are essential components of this course. 3 credits
Pre-requisite: EGL093.

THE263 **Directing** explores the varied techniques necessary to transform written drama into a stage performance with a specific point of view. Students will learn the fundamentals of play directing through exercises, projects, and directing short scenes to synthesize the efforts of the actors, designers, and the text into one unified production. 3 credits
Pre-requisite: THE104.
Co-requisite: THE264.

THE264 **Applied Theatre** is a study of the skills necessary to create a successful theatre production. Students will employ the skills learned in theatre classes and apply them to a full-length play. Students may contribute to the production as either a performer or as part of the stage crew. This credit may be fulfilled by participating in a theatre department production or, if approved by the theatre faculty, by working with an established company in the region. Students should contact the theatre department to find an appropriate company to work with, and an audition may be required. In addition to scheduled class time, students must be available for rehearsals off campus and are expected to prepare material outside of class. 1 credit
Pre-requisite: THE160.

THE275 **Theatre History II (H)** is an in-depth study of theatre in the Spanish Golden Age, French Neo-Classisism, the Restoration, and theatre in the 18th and 19th centuries. Students explore the major social, political and economic conditions as well as the milestones of theatre in each era. 3 credits
Pre-requisite: EGL093.

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Transportation and Logistics

TRL101 **Introduction to Logistics** will introduce students to the planning and management of material flows and related information in both public and private sector organizations. This course provides a general overview of the functional areas of supply, maintenance, transportation, and services at each of the tactical, operational, and strategic levels. 3 credits

TRL104 **Defense Acquisition Management Overview** provides students with an in-depth overview of the federal acquisition process and introduction to the basic concepts, policies and procedures incident to government contracting through the FAR and supplementing directives. This course engages the participant in the entire contracting process. Additionally, this course provides a broad overview of the Department of Defense systems acquisition process, covering all phases of acquisition. This course also introduces the planning, programming, budgeting, and execution process. 3 credits

TRL105 **Professional Driver's Knowledge** provides theory and instruction for operating commercial vehicles within the USA, Canada and Mexico. After successful completion of this course, a student is eligible to take the Commercial Driver's License Permit Test through the Motor Vehicle Administration. 3 credits
Co-requisite: TRL106.

TRL106 **Professional Commercial Driver's Skills** provides the on-the-road training and instruction required to operate commercial vehicles within the USA, Canada and Mexico. Students will practice skills necessary for safe and efficient operation of the vehicle on public streets and highways. 6 credits
Co-requisite: TRL105.

TRL107 **Supply Chain Management** will introduce students to a total systems approach to managing activities involved in physically moving raw materials, inventory and finished goods from the point of origin to point of use or consumption. Topics include product development, manufacturing flow management, procurement, distribution networks, distribution strategies, performance measurement, customer relationship management, customer service management, demand management, order fulfillment, supplier relationship management, and returns management. 3 credits
Pre-requisite: TRL101.

TRL110 **Transportation and Warehousing** will address the role of the transportation and warehousing functions in the economy and their relationship to the logistics process. Topics will include transportation, public policy, costing, warehouse operations, and materials handling. 3 credits
Pre-requisite: TRL101.

TRL130 **Production and Operations Management** will provide students with an overview of the translation of product and service requirements into facilities, procedures and operating organizations. Topics include product design, process design, production alternatives, facilities location and layout, resource requirements planning, customer loyalty, and quality control. 3 credits
Pre-requisite: TRL101.

TRL201 **Introduction to Materials Handling** introduces the concepts and principles of materials including inventory control and forecasting activities. 3 credits
Pre-requisites: TRL101, TRL110, TRL130.

TRL210 **Transportation Management** explores the current practices used in the management of commercial transportation departments and their financial and operational impact on manufacturing, marketing, and the other departments in the firm. 3 credits
Pre-requisites: TRL101, TRL110.

TRL220 **Materials Requirement Planning** is a study of materials requirement planning that includes a net change versus regenerative systems, lot-sizing, and time-sharing of dependent demand. 3 credits
Pre-requisites: BUS108, TRL210.

TRL230 **Product Lifecycle Management (PLM)** will introduce students to the processes of managing the entire lifecycle of a product from its conception, design and manufacture, to its service and disposal; the people, data, and business systems involved; and historical aspects of PLM in Logistics. 3 credits
Pre-requisite: TRL101.

TRL240 **Integrated Logistics Management** is designed to explore logistics as a cross-functional business process. It cuts across functional boundaries, yet has contributions from each. The principal objective of this course is to take a detailed look at organizations linked within a given supply network and evaluate the role of logistics as an integrator of information flow with material flow. This is the capstone course for the Government Logistics Certificate. 3 credits
Pre-requisites: TRL103, TRL104, TRL210.

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Visual Communications

VCP101 **Photography I** introduces the art and craft of photography. Students learn digital camera operation, digital scanning, and print production. Emphasis is placed on visual thinking and visual communication. Students complete weekly lab assignments in addition to class activities, to produce a portfolio of fine black and white and color photographs. 4 credits

VCP110 **Portrait Photography** introduces light techniques for studio and location portraiture along with posing techniques for individual and group shots. Professional software application techniques for post processing and retouching are covered. Business principles and practices for running a portrait studio are introduced. The class includes demonstrations and hands-on activities. In addition to classroom instruction, students reserve three to four hours weekly in the VCP studios and lab to complete the course. 4 credits
Pre-requisite: VCP101.

VCP111 **Studio Photography I** introduces the art and craft of studio photography. Students will use digital cameras for commercial applications. Studio lighting is emphasized for portrait, fashion, and advertising product photography. Students complete weekly studio and lab assignments, in addition to class activities, to produce a studio photography portfolio. Photography business practices are introduced. 4 credits
Pre-requisite: VCP101.

VCP114 **Special Project Studio Lab** enables advanced visual communications students to initiate or continue a special project. It can also provide additional studio and lab time for students currently enrolled in classes who wish to use the facility beyond the times allocated for the courses they are enrolled in. for this course does not fulfill graduation requirements. 1 credit
Pre-requisite: VCP101 or VCP117 or VCP210.

VCP115 **Special Projects Studio Lab** enables advanced visual communications students to initiate or continue a special project. It can also provide additional studio and lab time for students currently enrolled in classes who wish to use the facility beyond the times allocated for the courses they are enrolled in. for this course do not fulfill graduation requirements. 2 credits
Pre-requisite: VCP101 or VCP117 or VCP210.

VCP116 **Digital Imaging I** introduces the student to the creation and manipulation of electronic imagery. Students learn to import digital images; scan film, prints, and artwork; create and manipulate images; prepare images for print, and use in many other applications. 2 credits

VCP117 **Digital Imaging II** introduces students to basic graphic design concepts and intermediate digital imaging techniques. Students produce a portfolio of work including: a retouched image, a special effects image, a magazine cover, business cards, letterhead, high dynamic range (HDR), panoramic and personal project prints. 2 credits
Pre-requisite: VCP116.

VCP118 **Digital Imaging III** advances the student's graphic design capabilities by using Adobe Illustrator and InDesign, two advanced professional graphic design programs, to combine words and images on the printed page in order to provide real-world skills essential for graphic design careers. Students will create and manipulate images, and combine graphics such as text into page layouts. Students will learn the process of creating professional business cards, brochures, and logos from concept to print. 4 credits
Pre-requisite: VCP117.

VCP119 **Digital Imaging IV** introduces the student to Web page design. Students use Adobe Photoshop, Dreamweaver, and Flash to conceive and create effective Web sites that are easy to use and that meet the demands of the target market. 4 credits
Pre-requisite: VCP118.

VCP120 **Digital Imaging V** is an independent study course where students develop and implement a design project. Students meet weekly with the instructor to review progress and receive instruction. In addition to improving existing graphic design skills, students will learn to develop a project proposal and implement that proposal in a successful design project. 4 credits
Pre-requisite: VCP118.

VCP136 **Multimedia Production I** introduces students to the development of interactive and new media design. Utilizing industry-standard software students learn how to produce responsive designs that interact with the viewer. The principles of object oriented programming are taught using ActionScript 3 and JavaScript in the Adobe Flash and Edge Animate environments. Usability, typography, composition, user interface design, color, and overall visual communication and aesthetics are emphasized. Students will produce a final interactive portfolio that demonstrates their understanding of usability design. 4 credits
Pre-requisite: VCP117.

VCP140 **Wedding Photography Portfolio Production** introduces the wedding photography business and engages students in the production of wedding photographs and marketing materials for a professional portfolio. Topics include available light portraiture, location lighting using studio lights, on-camera flash and slave lighting and posing individuals, couples, and large groups. 2 credits
Pre-requisite: VCP101 or consent of instructor.

VCP144 **Web Design I – Design Fundamentals** provides an overview of the major design considerations for well-balanced website construction to include the planning cycle, web technologies, usability, site structure, and navigation styles. Emphasis is placed on design issues as each category is explored using HTML, CSS and basic JavaScript. Students will plan, design, and publish one fixed-width and one responsive website. 3 credits
Pre-requisite: EGL093.

VCP151 **Introduction To Game Design** provides an introduction to computer game development, starting from concept development to implementation of a playable game prototype. Aesthetic and technical aspects of computer game development are covered, including game mechanics, story development, content creation, and game programming. 4 credits
Pre-requisites: VCP136, VCP218.

VCP162 **Introduction to Mobile Application Development** will introduce mobile application development from concept development to implementation of a mobile application. Visual and programmatic aspects of mobile development, including computer programming, mobile design, and user interaction are covered. 4 credits
Pre-requisite: VCP117.

VCP170 **Photography Seminar-Equine** is a one-day seminar for learning what elements make a good horse photograph and how to achieve them. Instructor will show photos from the Olympics and other equestrian events as examples. Conditions permitting, students will participate in photographing horses at an equestrian event or on a farm. Students should bring cameras. Students may bring previous horse photos for constructive discussion. 1/2 credit

VCP180 **Applied Printing Techniques** is the study of the fundamentals of black and white and color photography and digital printing. 1 credit
Co-requisite: ART180.

VCP189 **Basic Internship I** is a supervised experience with a visual communications employer for 15 days/120 hours. In addition, the student has weekly conferences with the visual communications coordinator. The student should apply for the internship with the visual communications coordinator before the semester begins, and complete an internship proposal before registering for the course. The student will complete an internship notebook and portfolio. 4 credits
Pre-requisite: VCP101 or VCP117.

VCP210 **Video Production I** introduces students to the techniques of video production. Emphasis is placed on problem-solving scenarios and hands-on experience. Several short video programs are directed and produced. Students have the opportunity to work on an individual basis as well as in teams. 4 credits

VCP211 **Studio Photography II** continues the study of the art and craft of commercial photography. Students use digital cameras, digital processing, and electronic and print output for commercial applications. Studio lighting is emphasized for portrait, fashion, and advertising product photography. Students complete weekly studio and lab assignments, in addition to class activities, to produce a commercial photography portfolio.
4 credits
Pre-requisite: VCP111.

VCP212 **Video Production II** expands upon the techniques covered in Video Production I. Emphasis is placed on problem solving scenarios and hands-on experience. Several short video programs are directed and produced. Students work on an individual basis as well as in teams. 4 credits
Pre-requisite: VCP210.

VCP214 **Video Production III** provides the opportunity for the advanced visual communications student to concentrate on building a demo reel in an individual area of interest to further career and course goals.
4 credits
Pre-requisite: VCP210.

VCP215 **Guerilla Filmmaking** introduces the techniques of HD digital short filmmaking with in-depth attention to traditional film lighting and sophisticated location shooting. Emphasis is placed on "hands-on" experiences and the coordination of all production elements including concept development, scriptwriting, production, and post-production. 4 credits
Pre-requisite: VCP210.

VCP216 **Guerilla Filmmaking II** advances the techniques of HD digital filmmaking with in-depth attention to traditional film lighting and sophisticated location shooting. Emphasis is placed on artistic short films, "hands-on" activities, and the coordination of all production elements including concept development, scriptwriting, production, and post-production. 4 credits
Pre-requisite: VCP215.

VCP218 **Introduction to 3D Modeling and Animation** introduces students to the basics of 3D content creation. Practical and theory based concepts relating to three-dimensional design is discussed. Students produce models, apply motion, light, and render image sequences. 4 credits

VCP219 **3D Modeling for Real-Time Environments** covers polygon modeling techniques relevant to producing high quality textured meshes viewable in live-video situations. Anatomical structure and hard-surface forms are studied. Emphasis is placed on converting high-poly geometric details into low-poly geometry utilizing a variety of alternative modeling methods. 4 credits

VCP222 **Photojournalism I** studies the approaches and techniques of photographic reportage. Topics include news, features, issue reporting, journalistic portraits, sports, photo essay, documentary photography, and ethics and law. Emphasis is placed on visual interpretation and communication, composition, and photo editing. Students complete weekly shooting and lab assignments, participate in class discussions and critiques, create a picture story layout, plan and photograph a group project, and produce a strong photojournalism portfolio. 4 credits
Pre-requisite: VCP101.

VCP223 **Photojournalism II** develops advanced technical proficiency, personal approach, and a strong photojournalism portfolio. Topics include general news coverage, journalistic portraits, a food feature, an architecture/interior feature, nature, sports, photo essays, editing, layout, and selling work to publications. Writing captions and short text is also emphasized. Students complete weekly shooting and lab work and participate in class critiques. 4 credits
Pre-requisite: VCP222.

VCP224 **Nature and Wildlife Photography** introduces the student to the fundamentals of professional nature and wildlife photography: equipment, processes, aesthetics, portfolio preparation, and marketing. The course includes extensive field trips to photograph with the instructor. 4 credits
Pre-requisite: VCP101.

VCP225 **3D Character Rigging and Animation** covers the rigging and animation process of developing 3D character performances. Students will produce animate-able puppets utilizing industry standard techniques by hand and automated through coding. Utilizing pre-rigged models and models rigged by them, students will animate natural, realistic, hyper-realistic, and exaggerated motion. Producing believable character performances and accurate physical action is emphasized. 4 credits

VCP227 **Advanced Digital Imaging Production II** prepares students to create custom solutions for real commercial world production assignments using Photoshop. Advanced editing and image capture techniques are covered. Students work in teams with art directors and production staff to simulate real-world commercial environments. 2 credits
Pre-requisite: VCP226.

VCP230 **Graphic Design Studio** implements design and production skills learned in prerequisite courses to create an integrated, singular portfolio of product design, page layout, and marketing collateral. This class prepares students for the workplace by teaching practical application and focusing on a real-world project that requires real-world solutions. Students will design, and produce all materials based on an overview of real-world marketplace expectations. 4 credits
Pre-requisite: VCP119.

VCP233 **Fictional Photography** introduces and advances students through the convergence of visual, cinematic storytelling, combined with the impact of still photography. This course is centered on location-based strobe lighting, conceptual thinking, pre-visualization, location scouting, directing actors and assistants, and advanced post-production techniques. 4 credits
Pre-requisites: VCP111, VCP116.

VCP234 **Nature and Wildlife Photography II** advances the student's understanding of the fundamentals of professional nature and wildlife photography: equipment, processes, aesthetics, portfolio preparation and marketing. The course includes extensive, instructor-led photography field trips. 4 credits
Pre-requisite: VCP224.

VCP244 **Web Development** builds on the design process covered in VCP144 Web Design I – Design Fundamentals. This course covers advanced web technologies that make websites responsive, interactive and dynamic: multimedia, forms, HTML5, CSS, and client-side and server-side programming technologies. Other advanced design considerations include design for multiple devices, disability access, maintenance, navigational aids, and search engine optimization. Students will build a complex website using client and server-side technologies, including XHTML, CSS, JavaScript, forms, application programming, and database programming. 3 credits
Pre-requisite: VCP144.

VCP270 **Portfolio Production** provides an opportunity for advanced visual communications students to concentrate on building portfolios in individual areas of interest to further their career and personal goals. Students complete weekly lab assignments, in addition to class activities, to produce a portfolio. 4 credits
Pre-requisite: VCP101.

VCP279 **Professional Portfolio Production** enables the visual communications major to prepare a capstone portfolio of imagery and written documentation suitable for presentation to meet graduation portfolio requirements, and for application to a transfer institution and/or for career advancement. Emphasis is placed on visual thinking and visual communication. Students complete weekly lab assignments, in addition to class activities, to produce a professional portfolio and a capstone presentation to the college community. 4 credits
Pre-requisites: 19 VCP credits.

VCP289 **Internship I** is a supervised experience with a visual communications employer for 15 days/120 hours. In addition, the student has weekly conferences with the visual communications director. The student should apply for the internship with the visual communications director at least six weeks before the semester begins, and complete an internship proposal before registering for the course. Students complete an internship notebook and present a capstone portfolio. 4 credits
Pre-requisite: EGL101.

VCP296 **Photography Seminar** provides the opportunity for experienced photographers to advance their skills in digital image making and manipulation under the guidance of an expert in the field. Creativity and problem-solving are stressed. Students complete weekly studio and lab assignments, in addition to class activities, to produce a commercial photography portfolio. 4 credits

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Career and Community Education

Career Education and Training

- Business Resources:
  Cecil Leadership Institute, Customized Training, Employee Development, Small Business, Cecil Business and Resource Partners
- Career Training and Certifications:
  Automotive Technician, Business and Office, Computer Technology, Construction, Forklift Operator, Green, HAZMAT and Safety, Health Care, Hospitality, Human Resources, HVAC/R, Logistics, Non-Profit Administration, Veterinary Studies, Welding
- Personal and Commercial Driver Training:
  Commercial Driver's License, Bus Driver Endorsement, Driver Education, Motorcycle and Boat, Mid-Atlantic Transportation and Logistics Institute

Community Education

- Academic Preparation:
  ABE, College Prep, English for Speakers of Other Languages (ESOL), Foreign Languages and GED
- Adult and Seniors Programs:
  60 and Better Classes, Creative Leisure, Personal Growth, Fitness, Health Living
- Youth Programs:
  Summer Camps, Homeschool, Young People's Theatre, Enrichment, Parent and Child Classes, Family Education Center

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Cold Forge Presses and Accessories

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Technical Specifications and Tests

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Earnest Money Deposit (EMD)

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Price Variation

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Quality Control

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Maintenance Contract

Force Majeure

Buyer's Purchase Rights

Right to Reject Defective Goods

Limiting of Liability

Confidentiality Clause

Intellectual Property Rights

Indemnity

Non-Transferable

Force Majeure

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and medical markers and records in accordance with the Charge of Records Retention Schedule.

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Consent Form Policy

Purpose

Medical Imaging is dedicated to providing a healthy, convenient and environment for patients, friends, staff, students and visitors. Medical Imaging is committed to the protection of the rights and dignity of patients, friends, staff, students and visitors. Medical Imaging is also committed to the protection of its property and the property of its staff, students and visitors. Medical Imaging is also committed to the protection of its staff, students and visitors from violence, abuse, verbal abuse, aggressive behaviour, harassment, and other unacceptable behaviour.

Medical Imaging is committed to providing a healthy, convenient and environment for students, friends, staff, patients and visitors. Medical Imaging is also committed to the protection of its property and the property of its students, staff and visitors. Medical Imaging is also committed to the protection of its students, staff and visitors from violence, abuse, verbal abuse, aggressive behaviour, harassment, and other unacceptable behaviour.

Procedure

Medical Imaging will provide a copy of the Consent Form, Medical Imaging's policy on the confidentiality and management of the information provided on the Consent Form, and Medical Imaging's policy on the management of aggressive behaviour to all patients, friends, students, staff and visitors.

Engagement and mediation will be utilised by Medical Imaging's staff to address unacceptable behaviour in accordance with Medical Imaging's policy on the management of aggressive behaviour. Medical Imaging's staff will be supported by their managers in the application of this policy.

Medical Imaging Consent Form Health Statement

Purpose

Medical Imaging's patient care policy is the guidance upon which the clinical staff are trained to provide care to patients. Medical Imaging's patient care policy is based on the principles of patient centered care, patient safety, and the provision of care in accordance with the patient's clinical condition. Medical Imaging's patient care policy is based on the principles of patient centered care, patient safety, and the provision of care in accordance with the patient's clinical condition.

Medical Imaging's staff will be trained in the application of the Medical Imaging's policy on the management of the information provided on the Consent Form, Medical Imaging's policy on the management of aggressive behaviour, and Medical Imaging's policy on the management of the information provided on the Medical Imaging Consent Form Health Statement.

Medical Imaging's staff will be supported by their managers in the application of the Medical Imaging's policy on the management of the information provided on the Medical Imaging Consent Form Health Statement.

Procedure

Medical Imaging's patient care policy is the guidance upon which the clinical staff are trained to provide care to patients. Medical Imaging's patient care policy is based on the principles of patient centered care, patient safety, and the provision of care in accordance with the patient's clinical condition. Medical Imaging's patient care policy is based on the principles of patient centered care, patient safety, and the provision of care in accordance with the patient's clinical condition.

Medical Imaging's staff will be trained in the application of the Medical Imaging's policy on the management of the information provided on the Medical Imaging Consent Form Health Statement.

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Medical Imaging's staff will be trained in the application of the

Cecil College Leadership, Faculty and Administrative Staff

Board of Trustees
College President
Trustees Emeriti
Presidents Emeriti
Professors Emeriti
Full-time Faculty and Administrative Staff

Cecil College Board of Trustees

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Cydney T. Teal, M.D., Vice Chair
Raymond W. Hamm, Jr.
Donna L. Horgan
Mark G. Mortenson
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Mary Way Bolt, Secretary/Treasurer

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Cecil College President

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B.S.N., University of Maryland Baltimore County
M.S., University of Maryland at Baltimore
Ed.D., Widener University

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Mary A. Maloney (1980–2004)
Attended University of Delaware,
Johns Hopkins University,
Cecil Community College

S. Dell Foxx (1990–2015)
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Virginia-Maryland Banking School

Daniel A. Hall (1975–2007) Deceased
B.A., Washington College
M.A., George Washington University

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Robert L. Nash (1968–1975) Deceased
B.A., Muskingum College
M.A., Ohio State University
Ed.D., Northern Colorado University

Robert L. Gell (1978–2000)
B.A., University of Nebraska Kearney
M.Ed., The American University
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Th.D., The Iliff School of Theology

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Sarah Snyder
Academic Advisor

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Controller
B.S., Pfeiffer University

Jacqueline Wilson
Assistant Professor of Computer Science

Lynda Woodside
Family Services Coordinator, Family Education Center
B.S., University of Delaware
M.S.W., Widener University

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Programs Approved after July 1, 2016

Degrees

Business, Management
Chemistry
Education, Early Childhood (AAT)
Education, Elementary (AAT)
Engineering (with Areas of Concentration)
Engineering, Civil
Engineering, Electrical
General Studies (with Areas of Concentration)
Physical Therapist Assistant
Psychology
Public Health (with Areas of Concentration)
Social Work
Transportation and Logistics, Transportation Management
Visual Communications (with Areas of Concentration)

Certificates

Transportation and Logistics, Commercial Transportation
Transportation and Logistics, Supply Chain Management

New Policies Approved After July 1, 2016

(None)

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Management

Award: Associate of Applied Science
Degree Code: BCMN
Number of Credits: 60

Program Description

The Associate of Applied Science Management is designed to prepare student for entry and career advancement in various management areas including finance, wholesaling, and manufacturing, as well as non-profit and government offices.

Transfer Information

Cecil College has articulation agreements with Maryland and regional institutions. Click on "Transfer Opportunities" in MyCecil under the Advising Tab for a list of transfer pathways. In addition, transfer information is available through ARTSYS (The Articulation System of Maryland). Contact your advisor for detailed information.

Required Courses

General Education Requirements

Number	Title	Credits
ECO 221	Economics – Micro [SS]	3
EGL 101	Freshman Composition [E]	3
EGL 102	Composition and Literature [E]	3
MAT 125 **or** MAT 127	Applied Calculus [M] **or** Introduction to Statistics [M]	4
PSY **or** SOC	Psychology or Sociology Elective [SS]	3
SCI	Science Elective/Science Elective with Lab [SL]	4
SPH 121 **or** SPH 141	Interpersonal Communications [H] **or** Public Speaking [H]	3

Program Requirements

Number	Title	Credits
ACC 101	Accounting I	3
ACC 102	Accounting II	3
BUS 103	Introduction to Business	3
BUS 131	Principles of Management	3
BUS 187	Business Ethics	3
BUS 210	Business Law	3
BUS 212	Principles of Marketing	3
BUS 216	Organizational Leadership	3
CIS 101	Introduction to Computer Concepts [I]	3
ECO 222	Economics - Macro [SS]	3
EGL 211	Technical Writing	3
ELECT	Elective	1

Program Electives

Number	Title	Credits
BUS 191	Introduction to Finance	3
BUS 231	Management of Human Resources	3
BUS 241	Effective Teams and Work Groups	3
BUS 280	Strategic Planning Concepts	3

Program Outcomes

Upon successful completion of this program, students will be able to:

- Critically examine, analyze, and recommend logical actions based on a variety of business concepts, models, and principles
- Apply written and oral communication skills
- Apply basic computational, statistical, and quantitative reasoning skills in collecting, analyzing, and interpreting numerical information
- Utilize verbal communication skills to engage an audience
- Utilize and apply computer hardware, software, the Internet, and other technological tools to enhance reasoning skills in making business decisions
- Be able to work effectively in both leadership and support roles as part of diverse teams to achieve a variety of business-related tasks
- Apply a basic understanding of economic and accounting principles to complex business issues
- Consistently act in a professional, respectful, honest, and ethical manner and to apply ethical principles and logical reasoning to make business decisions
- Demonstrate an understanding of a global environment
- Recognize and understand trends in business (through successes and failures)
- Understand how to organize and start a business
- Demonstrate understanding of how the elements of a marketing strategy work together and how the marketing concept fits into organizational planning and development
- Demonstrate understanding of markets and market behavior, external market forces, relationships to basic economic concepts, and globalism in satisfying needs and wants
- Demonstrate understanding of current and emerging trends in marketing, including direct and interactive marketing, technology-based personalization, one-to-one marketing, and e-commerce
- Demonstrate an understanding of consumer behaviors, social media trends, and implementation of marketing strategies

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Chemistry

Award: Associate of Science
Degree Code: ASCH
Number of Credits: 60

Program Description

This program offers a selection of courses in chemistry and related sciences. It comprises the first two years of a baccalaureate degree in science. The computer literacy requirement will be met throughout the course work in the degree program.

Transfer Information

Cecil College has articulation agreements with Maryland and regional institutions. Click on "Transfer Opportunities" in MyCecil under the Advising Tab for a list of transfer pathways. In addition, transfer information is available through ARTSYS (The Articulation System of Maryland). Contact your advisor for detailed information.

Required Courses

General Education and Program Requirements

Number	Title	Credits
ARTS/HUM	Arts and Humanities Electives [H]	6
CHM 103 **and** CHM 113	General Chemistry I [S] General Chemistry I Lab	3 1
CHM 104 **and** CHM 114	General Chemistry II [S] General Chemistry II Lab	3 1
EGL 101	Freshman Composition [E]	3
EGL 102	Composition and Literature [H]	3
MAT 121	Precalculus[1] [M]	4
SOC SCI	Social Science Electives[2] [SS]	6
SPH 121 **or** SPH 141	Interpersonal Communications [H] Public Speaking [H]	3

Program Requirements

Number	Title	Credits
CHM 203	Organic Chemistry I with Lab	4
CHM 204	Organic Chemistry II with Lab	4
CSC 109 **or** PHE 180	Introduction to Programming Matlab Fundamentals	3
ELECT	Electives	3
MAT 201	Calculus I with Analytic Geometry [M]	4
MAT 202	Calculus II with Analytic Geometry [M]	4
PHY 217	General Physics I with Lab [SL]	5
PHY 218	General Physics II with Lab [SL]	5

Program Outcomes

Upon successful completion of this program, students will be able to:

- Apply principles and theories in the basic areas of chemistry
- Collect and perform qualitative/quantitative chemical analyses of data
- Communicate scientific information through written and /or verbal formats
- Utilize critical thinking to identify and solve problems
- Describe and utilize the techniques applicable to chemistry research projects
- Use basic laboratory instrumentation for both basic and organic chemistry processes

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[1] Students placed in MAT 201 or higher Math may replace MAT 121 with MAT, PHY, PHE, CSC or CHM elective(s); **students must satisfy the four credit requirement.**

[2] Courses must be from two different disciplines.

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Early Childhood Education

Award: Associate of Arts in Teaching
Degree Code: ENAT
Number of Credits: 60

Program Description

This degree provides the first two years of college for students preparing to become Early Childhood Education Teachers. It is designed for students desiring to transfer to a four-year college or university to earn a bachelor's degree in Early Childhood Teacher Education. This degree has been articulated with all of the transfer programs in Early Childhood Education in the State of Maryland. To earn the AAT degree, students must graduate with a 2.75 GPA and pass the Praxis Core Academic Skills for Educators (CORE)[1] test.

Transfer Information

Cecil College has articulation agreements with Maryland and regional institutions. Click on "Transfer Opportunities" in MyCecil under the Advising Tab for a list of transfer pathways. In addition, transfer information is available through ARTSYS (The Articulation System of Maryland). Contact your advisor for detailed information.

Required Courses

General Education Requirements

Number	Title	Credits
BIO 101 **and** BIO 111	General Biology [S] General Biology Lab	3 1
EGL 101	Freshman Composition [E]	3
EGL 102	Composition and Literature [H]	3
HST 201 **or** HST 202	United States History I [H] United States History II [H]	3
MAT 127	Introduction to Statistics [M]	4
PSC 105	General Physical Science with Lab [SL]	4
PSY 101	Introduction to Psychology [SS]	3
PSY 203	Child Growth and Development [SS]	3
SPH 141	Public Speaking [H]	3

Program Requirements

Number	Title	Credits
ART 195	Integrated Arts	3
EDU 131	Principles of Early Childhood Education	3
EDU 132	Early Childhood Curriculum and Methods	3
EDU 202	Principles of Early Childhood - Field Experience	1
EDU 210	Processes and Acquisitions of Reading	3
EDU 250	Classroom Management	3
EDU 251	Introduction to Exceptional Children and Youth[2]	3
MAT 133	Mathematical Concepts and Structures I	4
MAT 134	Mathematical Concepts and Structures II	4
PSY 207	Educational Psychology	3

Program Outcomes

Upon successful completion of this program, students will be able to:

- Identify the policies, issues, trends, and historical events in the field of early childhood education
- Describe the theories and principles of child development and learning and apply the theories and principles to their classroom teaching
- Identify the psychological, cognitive, emotional, and physical characteristics of typically developing children and adolescents, with specific consideration to children with disabilities
- Identify the current and inclusive philosophies for differentiating instruction to analyze, improve, and facilitate instruction for diverse learners
- Demonstrate understanding of content areas and apply developmentally appropriate approaches to enhance children's learning and development
- Identify and explain the models of classroom and behavior management
- Demonstrate progress toward mastering the Interstate Teacher Assessment and Support Consortium (InTASC) Standards
- Identify and conduct themselves as early childhood professionals who use ethical guidelines and National Association for the Education of Young Children standards
- Demonstrate excellent written, verbal, critical thinking, and problem-solving skills
- Demonstrate progress toward mastery of the Maryland Technology Standards

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[1] For more information about the CORE test and qualifying SAT, GRE, or ACT scores, students should contact the Education Department Chair or go to www.ets.org/praxis.

[2] The Introduction to Exceptional Children and Youth course required by Cecil College is a necessary requirement of the Teacher Education Program but may not be sufficient to meet all special education or inclusion course requirements for four-year teacher education programs. Students may be required to take additional special education or inclusion courses as a part of the requirements for a baccalaureate degree and teacher education certification at four-year institutions.

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Elementary Education

Award: Associate of Arts in Teaching
Degree Code: ERAT
Number of Credits: 60

Program Description

This degree provides the first two years of college for students preparing to become Elementary Education Teachers. It is designed for students desiring to transfer to a four-year college or university to earn a bachelor's degree in Elementary Teacher Education. This degree has been articulated with all of the transfer programs in Elementary Education in the State of Maryland. To earn the AAT degree, students must graduate with a 2.75 GPA and pass the Praxis Core Academic Skills for Educators (CORE)[1] test.

Transfer Information

Cecil College has articulation agreements with Maryland and regional institutions. Click on "Transfer Opportunities" in MyCecil under the Advising Tab for a list of transfer pathways. In addition, transfer information is available through ARTSYS (The Articulation System of Maryland). Contact your advisor for detailed information.

Required Courses

General Education Requirements

Number	Title	Credits
BIO 101 and BIO 111	General Biology [S] General Biology Lab	3 1
EGL 101	Freshman Composition [E]	3
EGL 102	Composition and Literature [H]	3
GEO 101	Physical Geography [SS]	3
HST 201 or HST 202	United States History I [H] United States History II [H]	3
MAT 127	Introduction to Statistics [M]	4
PSC 105	General Physical Science with Lab [SL]	4
PSY 101	Introduction to Psychology [SS]	3
PSY 203	Child Growth and Development	3
SPH 141	Public Speaking [H]	3

Program Requirements

Number	Title	Credits
ART 195	Integrated Arts	3
EDU 101	Foundations of Education	3
EDU 102	Foundations of Education – Field Experience	1
EDU 210	Processes and Acquisitions of Reading	3
EDU 250	Classroom Management	3
EDU 251	Introduction to Exceptional Children and Youth[1]	3
MAT 133	Mathematical Concepts and Structures I	4
MAT 134	Mathematical Concepts and Structures II	4
PSY 207	Educational Psychology	3

Program Outcomes

Upon successful completion of this program, students will be able to:

- Identify the policies, issues, trends, and historical events in the field of early childhood education
- Describe the theories and principles of child development and learning and apply the theories and principles to their classroom teaching
- Identify the psychological, cognitive, emotional, and physical characteristics of typically developing children and adolescents, with specific consideration to children with disabilities
- Identify the current and inclusive philosophies for differentiating instruction to analyze, improve, and facilitate instruction for diverse learners
- Demonstrate understanding of content areas and apply developmentally appropriate approaches to enhance children's learning and development
- Identify and explain the models of classroom and behavior management
- Demonstrate progress toward mastering the Interstate Teacher Assessment and Support Consortium (InTASC) Standards
- Identify and conduct themselves as early childhood professionals who use ethical guidelines and National Association for the Education of Young Children standards
- Demonstrate excellent written, verbal, critical thinking, and problem-solving skills
- Demonstrate progress toward mastery of the Maryland Technology Standards

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[1] For more information about the CORE test and qualifying SAT, GRE, or ACT scores, students should contact the Education Department Chair or go to www.ets.org/praxis.

[2] The Introduction to Exceptional Children and Youth course required by Cecil College is a necessary requirement of the Teacher Education Program but may not be sufficient to meet all special education or inclusion course requirements for four-year teacher education programs. Students may be required to take additional special education or inclusion courses as a part of the requirements for a baccalaureate degree and teacher education certification at four-year institutions.

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Engineering with Areas of Concentration

Award: Associate of Science
Degree Code: CNEA (Aerospace Engineering Concentration) - 65 Credits
Degree Code: CNEC (Chemical Engineering Concentration) - 64 Credits
Degree Code: CNEO (Computer Engineering Concentration) - 63 Credits
Degree Code: CNES (Engineering Science Concentration) - 64-65 Credits

Program Description

The Associate of Science Engineering Program offers a selection of engineering and other natural and physical science courses for students wishing to pursue a program of study in engineering with concentrations in aerospace, chemical, computer, and engineering science. The curriculum is designed to meet the needs of students who plan to transfer to a college or a university that grants a baccalaureate degree in engineering.

Transfer Information

Cecil College has articulation agreements with Maryland and regional institutions. Click on "Transfer Opportunities" in MyCecil under the Advising Tab for a list of transfer pathways. In addition, transfer information is available through ARTSYS (The Articulation System of Maryland). Contact your advisor for detailed information.

Required Courses

General Education and Program Requirements

Number	Title	Credits
ARTS/HUM	Arts and Humanities Electives[1] [H]	3
EGL 101	Freshman Composition [E]	3
EGL 102	Composition and Literature [H]	3
MAT 121	Precalculus[2] [M]	4
MAT 201	Calculus I with Analytic Geometry [M]	4
PHY 217	General Physics I with Lab [SL]	4
PHY 218	General Physics II with Lab [SL]	4
SOC SCI	Social Science Electives[3] [SS]	6
MAT 202	Calculus II with Analytic Geometry [M]	4
MAT 203	Multivariable Calculus [M]	4
MAT 246	Introduction to Differential Equations [M]	3
PHE 101	Introduction to Engineering Design	3

Aerospace Engineering Concentration Requirements (20 Credits)

Number	Title	Credits
CHM 103 and CHM 113	General Chemistry I [S] General Chemistry I Lab	3 1
CHM 104 and CHM 114	General Chemistry II [S] General Chemistry II Lab	3 1
PHE 211	Statics	3
PHE 212	Dynamics	3
PHE 213	Mechanics of Materials	3
PHE 221	Thermodynamics	3

Chemical Engineering Concentration Requirements (19 Credits)

Number	Title	Credits
CHM 103 and CHM 113	General Chemistry I [S] General Chemistry I Lab	3 1
CHM 104 and CHM 114	General Chemistry II [S] General Chemistry II Lab	3 1
CHM 203	Organic Chemistry I with Lab	4
CHM 204	Organic Chemistry II with Lab	4
PHE 211	Statics	3

Computer Engineering Concentration Requirements (18 Credits)

Number	Title	Credits
CSC 205	Computer Science I	3
MAT 236	Discrete Structures [M]	3
MAT 240	Introduction to Linear Algebra [M]	4
PHE 225	Electronics and Instrumentation	4
PHE 285	Principles of Electric Circuits	4

Engineering Science Concentration Requirements[4] (19-20 Credits)

Number	Title	Credits
CHM 103 and CHM 113 or PHE 225	General Chemistry I [S] General Chemistry I Lab Digital Electronics and Instrumentation	4
CSC 205 or PHE 211	Computer Science I Statics	3
ELECT	Engineering/Computer Science/Math/Science/Business Electives	12-13

Program Outcomes

Upon successful completion of this program, students will be able to:

- Apply knowledge of mathematics, science, and engineering
- Design and conduct experiments
- Conduct tests for chemical components or strength of materials
- Determine forces acting on a body
- Analyze and interpret data
- Apply the engineering design process
- Function on multidisciplinary teams
- Identify the professional and ethical responsibilities of engineers
- Identify, formulate, and solve engineering problems
- Use the techniques, skills, and modern engineering tools necessary for engineering practice
- Communicate in an effective and professional manner both verbally and in writing

Additional Outcomes – Area of Concentration in Aerospace Engineering
Upon successful completion of this concentration, students will also be able to:

- Demonstrate an understanding of kinematics of a particle and a rigid body
- Demonstrate an understanding of kinetics concerning force and acceleration, work and energy, impulse and momentum for a particle and a rigid body
- Demonstrate an understanding and application of force vectors
- Demonstrate an understanding of equilibrium of a particle and a rigid body
- Demonstrate an understanding of the basic concepts of thermodynamics
- Demonstrate an understanding of mass and energy balance analysis for closed and open systems
- Demonstrate an understanding of gas power cycles, vapor cycles, and combined power cycles
- Demonstrate an understanding of stress and strain
- Demonstrate an understanding of mechanical properties of materials
- Demonstrate an understanding of axial loading, torsion, bending and transverse shear
- Demonstrate an understanding of stress and strain transformations

Additional Outcomes – Area of Concentration in Chemical Engineering
Upon successful completion of this concentration, students will also be able to:

- Demonstrate an understanding of modern atomic theory, atomic structure, and the mole concept
- Write balanced chemical equations and solve equation stoichiometry problems
- Explain the trends of various atomic properties in the periodic table
- Demonstrate an understanding of the principles of chemical kinetics
- Demonstrate an understanding of the principles of chemical equilibrium
- Demonstrate an understanding of the bonding, structure, preparations, and reactions of organic compounds

Additional Outcomes – Area of Concentration in Computer Engineering
Upon successful completion of this concentration, students will also be able to:

- Demonstrate an understanding of units, engineering notations, and circuit terminology
- Demonstrate an understanding of Ohm's law, Kirchhoff's laws, and the Wye-Delta transformations
- Demonstrate an understanding of AC and DC circuit analysis
- Demonstrate an understanding of Laplace transform analysis technique
- Demonstrate an understanding of Boolean algebra and discrete combinational gates
- Analyze and design synchronous sequential circuits
- Demonstrate a basic understanding of computer programming

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[1] Selection may not include EGL designation.

[2] Students placed in MAT 201 or higher math may replace MAT 121 with MAT, PHY, PHE, CSC, or CHM elective(s) - **students must satisfy the four credit requirement.**

[3] Courses must be from two different disciplines.

[4] Should include at least one (1) course with PHE designation.

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Civil Engineering

Award: Associate of Science
Degree Code: ASCV
Number of Credits: 65

Program Description

This program prepares students to transfer to a four-year institution for civil engineering. Civil engineers design and supervise the construction of roads, buildings, airports, tunnels, dams, bridges, and water supply and sewage systems. They must consider many factors in the design process, from the construction costs and expected lifetime of a project to government regulations and potential environmental hazards such as earthquakes. Students with a bachelor's degree in civil engineering may continue their education in graduate school, while others may enter industry. The computer literacy requirement will be met throughout the coursework in the degree program.

Transfer Information

Cecil College has articulation agreements with Maryland and regional institutions. Click on "Transfer Opportunities" in MyCecil under the Advising Tab for a list of transfer pathways. In addition, transfer information is available through ARTSYS (The Articulation System of Maryland). Contact your advisor for detailed information.

Required Courses

General Education Requirements

Number	Title	Credits
ARTS/HUM	Arts and Humanities Electives[1] [H]	3
EGL 101	Freshman Composition [E]	3
EGL 102	Composition and Literature [H]	3
MAT 121	Precalculus[2] [M]	4
MAT 201	Calculus I with Analytic Geometry [M]	4
PHY 217	General Calculus Physics I with Lab [SL]	4
PHY 218	General Calculus Physics II with Lab [SL]	4
SOC SCI	Social Science Electives[3] [SS]	6

Program Requirements

Number	Title	Credits
CHM 103 and CHM 113	General Chemistry I [S] General Chemistry I Lab	3 1
CHM 104 and CHM 114	General Chemistry II [S] General Chemistry II Lab	3 1
MAT 202	Calculus II with Analytic Geometry [M]	4
MAT 203	Multivariable Calculus [M]	4
MAT 246	Introduction to Differential Equations [M]	3
PHE 101	Introduction to Engineering Design	3
PHE 211	Statics	3
PHE 212	Dynamics	3
PHE 213	Mechanics of Materials	3
PHE 221	Thermodynamics	3

Program Outcomes

Upon successful completion of this program, students will be able to:

- Demonstrate an understanding of kinematics of a particle and a rigid body
- Demonstrate an understanding of kinetics concerning force and acceleration, work and energy, impulse and momentum for a particle and a rigid body
- Demonstrate an understanding of, and application for, force vectors
- Demonstrate an understanding of equilibrium of a particle and a rigid body
- Demonstrate an understanding of the basic concepts of thermodynamics
- Demonstrate an understanding of mass and energy balance analysis for closed and open systems
- Demonstrate an understanding of gas power cycles, vapor cycles, and combined power cycles
- Demonstrate an understanding of stress and strain
- Demonstrate an understanding of mechanical properties of materials
- Demonstrate an understanding of axial loading, torsion, bending and transverse shear
- Demonstrate an understanding of stress and strain transformations
- Design and conduct experiments, as well as analyze and interpret data
- Apply the engineering design process
- Function on multidisciplinary teams
- Communicate in an effective and professional manner both verbally and in writing

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[1] Selection may not include EGL designation.

[2] Students placed in MAT 201 or higher Math may replace MAT 121 with MAT, PHY, PHE, CSC or CHM elective(s) students must satisfy the four credit requirement.

[3] Courses must be from two different disciplines.

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Electrical Engineering

Award: Associate of Science in Engineering
Degree Code: ASEN
Number of Credits: 64

Program Description

This program option prepares students to transfer to a four-year institution for continued study in electrical engineering. Electrical Engineering is the branch of engineering that focuses on designing and analyzing components and systems that utilize electrons and photons. Electrical engineers also work in information technology and software development and function on multidisciplinary teams. Students with a bachelor's degree in electrical engineering continue their education in graduate school or enter industry. The computer literacy requirement will be met throughout the course work in the degree program.

The computer literacy requirement will be met throughout the course work in the degree program.

Transfer Information

Cecil College has articulation agreements with Maryland and regional institutions. Click on "Transfer Opportunities" in MyCecil under the Advising Tab for a list of transfer pathways. In addition, transfer information is available through ARTSYS (The Articulation System of Maryland). Contact your advisor for detailed information.

Required Courses

General Education Requirements

Number	Title	Credits
ARTS/HUM	Arts and Humanities Elective[1] [H]	3
EGL 101	Freshman Composition [E]	3
EGL 102	Composition and Literature [H]	3
MAT 121	Precalculus[2] [M]	4
MAT 201	Calculus I with Analytic Geometry [M]	4
PHY 217	General Calculus Physics I with Lab [SL]	4
PHY 218	General Calculus Physics II with Lab [SL]	4
SOC SCI	Social Science Elective[3] [SS]	6

Program Requirements

Number	Title	Credits
CSC 205	Computer Science I	3
MAT 202	Calculus II with Analytic Geometry [M]	3
MAT 203	Multivariable Calculus [M]	3
MAT 240	Introduction to Linear Algebra [M]	4
MAT 246	Introduction to Differential Equations [M]	3
PHE 101	Introduction to Engineering Design	3
PHE 225	Digital Electronics and Instrumentation	4
PHE 285	Principles of Electric Circuits	4
PHY 219	General Calculus Physics III with Lab [SL]	4

[1] Selection may not include EGL designation
[2] Students placed in MAT 201 or higher Math may replace MAT 121 with MAT, PHY, PHE, CSC or CHM elective(s); **students must satisfy the four credit requirement**
[3] Courses must be from two different disciplines

Program Outcomes

Upon successful completion of this program, students will be able to:

- Design and conduct experiments, as well as analyze and interpret data
- Understand and apply the engineering design process
- Function on multidisciplinary teams
- Demonstrate an understanding of units, engineering notations, and circuit terminology
- Demonstrate an understanding of Ohm's law, Kirchhoff's laws, and the Wye-Delta transformations
- Demonstrate an understanding of AC and DC circuit analysis
- Demonstrate an understanding of Laplace transform analysis technique
- Demonstrate an understanding of Boolean algebra and discrete combinational gates
- Analyze and design synchronous sequential circuits
- Communicate in an effective and professional manner both verbally and in writing

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General Studies with Areas of Concentration

Award: Associate of Arts
Degree Code: CNGG (General Studies Concentration) - 60 Credits
Degree Code: CNGE (English Concentration) - 60 Credits
Degree Code: CNGH (History Concentration) - 60 Credits
Degree Code: CNGP (Philosophy Concentration) - 60 Credits
Degree Code: CNGS (Sociology Concentration) - 60 Credits

Program Description

The General Studies Program is designed for students who want maximum flexibility in their choice of courses. The program provides a core foundation in the humanities, mathematics, computer science, science, and social sciences. Beyond meeting general education state requirements, the program offers students numerous selections for areas of concentration as well as the opportunity to design, in cooperation with an academic advisor, a series of courses for exploring career opportunities, achieving personal goals, or meeting transfer requirements.

Transfer Information

Cecil College has articulation agreements with Maryland and regional institutions. Click on "Transfer Opportunities" in MyCecil under the Advising Tab for a list of transfer pathways. In addition, transfer information is available through ARTSYS (The Articulation System of Maryland). Contact your advisor for detailed information.

Required Courses

General Education and Program Requirements

Number	Title	Credits
ARTS/HUM	Arts and Humanities Electives[1] [H]	6
EGL 101	Freshman Composition [E]	3
EGL 102	Composition and Literature [H]	3
HST	History Elective [H]	3
MAT	Math Elective [M]	3
SCI	Science Electives with Lab[2] [S/SL]	7
SOC SCI	Social Science Electives[3] [SS]	6
CIS 101	Introduction to Computer Concepts [I]	3
ELECT	Electives	2
HEA	Health Elective	3
SPH 121 or SPH 141	Interpersonal Communications [H] Public Speaking [H]	3

General Studies Concentration Requirements (18 Credits)

Number	Title	Credits
	(Courses Selected in Consultation with Advisor)	18

English Concentration Requirements (Select 18 Credits)

Number	Title	Credits
EGL 203	British Lit. to 18th c. [H]	3
EGL 204	British Lit. 18th c. to Present [H]	3
EGL 205	American Lit. to 1865 [H]	3
EGL 206	American Lit 1865 to Present [H]	3
EGL 210	Topics in World Literature [H]	3
EGL 209 or EGL 213 or EGL 214 or EGL 215 or EGL 260	African-American Literature [H] Introduction to Film [H] Introduction to Journalism [H] Introduction to Creative Writing [H] Children's Literature [H]	3

History Concentration Requirements (Select 18 Credits)

Number	Title	Credits
ANT 101	Cultural Anthropology [SS]	3
HST 101	Western Civilization I [H]	3
HST 102	Western Civilization II [H]	3
HST 110	World History I [H]	3
HST 111	World History II [H]	3
HST 201	United States History I [H]	3
HST 202	United States History II [H]	3
HST 251	Introduction to African American Studies	3
HST 298	Western Military History	3
POS 101	Introduction to Political Science [SS]	3

Philosophy Concentration Requirements (Select 18 Credits)

Number	Title	Credits
ANT 101	Cultural Anthropology [SS]	3
CRJ 101	Introduction to the Criminal Justice System	3
HST 110	World History I [H]	3
HST 111	World History II [H]	3
PHI 101	Introduction to Philosophy [H]	3
PHI 201	Ethics – Contemporary Moral Issues [H]	3
PHI 205	Philosophy of Religion [H]	3
SOC 101	Introduction to Sociology [SS]	3
SOC 102	Social Problems [SS]	3
SOC 105	Perspectives in Human Diversity [SS]	3

Sociology Concentration Requirements (Select 18 Credits)

Number	Title	Credits
ANT 101	Cultural Anthropology [SS]	3
CRJ 221	Criminology	3
HST 110	World History I [H]	3
HST 111	World History II [H]	3
PHI 101	Introduction to Philosophy [H]	3
PSY 101	Human Growth and Development [SS]	3
PSY 201	Introduction to Psychology [SS]	3
SOC 101	Introduction to Sociology [SS]	3
SOC 102	Social Problems [SS]	3
SOC 103	Marriage and the Family [SS]	3
SOC 105	Perspectives in Human Diversity [SS]	3
SPN 101	Spanish I [H]	3
SPN 102	Spanish II [H]	3
SWK 101	Introduction to Social Work [SS]	3

Program Outcomes

Upon successful completion of this program, students will be able to:

- Demonstrate college-level competency in critical and creative thinking skills and problem solving strategies
- Identify, categorize and distinguish among elements of ideas, concepts, theories and/or practical approaches to standard problems
- Identify, categorize, and evaluate multiple information resources
- Demonstrate accurate and effective explanatory writing skills
- Demonstrate the ability to make effective use of writing-related computer technology
- Locate, collect, and organize evidence on research topics
- Apply citation standards for multiple information resources
- Analyze, evaluate, and/or criticize various academic disciplines and/or regional/national/global issues
- Demonstrate effective public speaking skills and an ability to evaluate their own public speaking skills
- Demonstrate an understanding of mathematical principles and methods
- Demonstrate the ability to perform accurate calculations and symbolic operations
- Demonstrate the ability to determine or calculate the solution to a problem through the use of computer technology
- Demonstrate college-level competency in computer literacy and in the ability to work productively with information technology
- Demonstrate an awareness of ethical behavior
- Demonstrate an understanding of cultural diversity
- Demonstrate an understanding of, and appreciation for, artistic expression
- Demonstrate an understanding of, and appreciation for, health and wellness issues
- Demonstrate an understanding of, and appreciation for, the physical and social environment

Additional Outcomes – Area of Concentration in English
Upon successful completion of this concentration, students will also be able to:

- Analyze texts critically
- Place literary works in their historical and cultural contexts
- Approach texts with knowledge of various disciplines within and outside of the humanities
- Write informatively, analytically, and persuasively
- Conduct research in literature, composition, and related fields
- Effectively integrate source materials as evidence and context
- Use existing and emerging technologies effectively
- Present ideas coherently, in both writing and in speech

Additional Outcomes – Area of Concentration in History
Upon successful completion of this concentration, students will also be able to:

- Demonstrate a basic knowledge of the history of the United States, Europe, and one other geographic region (Africa, Asia, or Latin America)
- Demonstrate a detailed knowledge of the history of the specific chronological or thematic areas they choose to study
- Write a historical research paper and support it with historical evidence
- Evaluate historical evidence in a variety of primary and secondary sources
- Assess the significance of events, ideas, or artifacts in their historical context
- Distinguish cause and effect and recognize multiple causalities in history
- Recognize and evaluate different historical interpretations

Additional Outcomes – Area of Concentration in Philosophy
Upon successful completion of this concentration, students will also be able to:

- Demonstrate knowledge of major figures in Philosophy
- Demonstrate knowledge of major branches in Philosophy
- Demonstrate knowledge of terminology particular to a branch or tradition within philosophy
- Express philosophical ideas effectively
- Construct philosophical arguments
- Analyze arguments in philosophical discourse
- Identify underlying presuppositions of a philosopher's argumentative discourse
- Raise questions and frame philosophical problems introduced by texts

Additional Outcomes – Area of Concentration in Sociology
Upon successful completion of this concentration, students will also be able to:

- Apply scientific methodology to the study of sociology
- Evaluate the quality of quantitative and qualitative research in sociology
- Demonstrate familiarity with the major concepts, theories, and theorists in sociology
- Apply sociological theories and methods to real world situations
- Conceptualize the diversity of today's society and in our past
- Recognize the vastness of human diversity

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[1] One course must have an ART designation; the other course must be from a discipline other than ART.

[2] One course must have a BIO designation; the other course must have a designation of AST, CHM, ENV, PSC, or PHY. At least one of the courses must include a lab.

[3] Courses must be from two different disciplines.

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Transportation and Logistics – Transportation Management

Award: Associate of Applied Science
Degree Code: TLTM
Number of Credits: 60

Program Description

This program is specifically designed for those ¬individuals who are working or who wish to pursue a career in transportation and management of ¬transportation systems. Careers would include, but are not limited to transportation manager, route ¬planner, physical distribution manager, distribution planning analyst, and transportation marketer and ¬operations manager. When coupled with a degree from one of our four-year partners, students will have even greater opportunity and earning potential.

Transfer Information

Cecil College has articulation agreements with Maryland and regional institutions. Click on "Transfer Opportunities" in MyCecil under the Advising Tab for a list of transfer pathways. In addition, transfer information is available through ARTSYS (The Articulation System of Maryland). Contact your advisor for detailed information.

Required Courses

General Education Requirements

Number	Title	Credits
CIS 101	Introduction to Computer Concepts [I]	3
ECO 222	Economics - Macro [SS]	3
EGL 101	Freshman Composition [E]	3
MAT 125 **or** MAT 127	Applied Calculus [M] **or** Introduction to Statistics [M]	4
SCI	Science Elective with Lab [S/SL]	4
SPH 121 **or** SPH 141	Interpersonal Communications [H] **or** Public Speaking [H]	3

Program Requirements

Number	Title	Credits
ACC 101	Accounting I	3
BUS 103	Introduction to Business	3
BUS 108	Principles of Purchasing	3
BUS 187	Business Ethics	3
BUS 212	Principles of Marketing	3
BUS 231	Management of Human Resources	3
EGL 211	Technical Writing	3
ELECT	Elective	1
TRL 101	Introduction to Logistics	3
TRL 107	Supply Chain Management	3
TRL 110	Transportation and Warehousing	3
TRL 130	Production and Operations Management	3
TRL 210	Transportation Management	3
TRL 230	Product Lifecycle Management	3

Program Outcomes

Upon successful completion of this program, students will be able to:

- Analyze and discuss transportation management issues from a system-level perspective
- Compare and evaluate transportation systems
- Identify and discuss key elements of the public transportation policy environment
- Demonstrate a basic understanding of commonly used information technology applications used by the transportation industry
- Apply basic computational, statistical and quantitative reasoning skills in collecting, analyzing, and interpreting numerical information
- Utilize verbal communication skills to engage an audience
- Evaluate transportation problems and effectively develop and present actionable solutions

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Physical Therapist Assistant

Award: Associate of Applied Science
Degree Code: PTAR
Number of Credits: 70

Program Description

The Physical Therapist Assistant program provides a foundation for graduates to become highly skilled in providing patient services using physical therapy techniques under the supervision and direction of a licensed physical therapist in clinics, hospitals, and many other health care settings. Upon completion of the curriculum, the graduate will receive the A.A.S. and will be eligible to take the National Licensing Exam for Physical Therapist Assistants. The Physical Therapist Assistant Program at Cecil College is accredited by the Commission on Accreditation in Physical Therapy Education (CAPTE), 1111 North Fairfax Street, Alexandria, Virginia 22314; telephone: 703-706-3245; email: accreditation@apta.org; website: http://www.capteonline.org. Information on program admission, selection policies and procedures and eligibility criteria are available in the Program handbook, College catalog and in the program admission materials.

Transfer Information

Cecil College has articulation agreements with Maryland and regional institutions. Click on "Transfer Opportunities" in MyCecil under the Advising Tab for a list of transfer pathways. In addition, transfer information is available through ARTSYS (The Articulation System of Maryland). Contact your advisor for detailed information.

Required Courses

General Education Requirements

Number	Title	Credits
BIO 208	Human Anatomy and Physiology I [S]	3
BIO 218	Human Anatomy and Physiology I Lab	1
BIO 209	Human Anatomy and Physiology II [S]	3
BIO 219	Human Anatomy and Physiology II Lab	1
EGL 101	Freshman Composition [E]	3
MAT 127	Introduction to Statistics[1] [M]	4
PSY 101	Introduction to Psychology [SS]	3
PSY 201	Human Growth and Development [SS]	3
SPH 141	Public Speaking [H]	3

Program Requirements

Number	Title	Credits
PTA 102	Clinical Kinesiology and Biomechanics	3
PTA 103	Clinical Skills for the PTA	3
PTA 104	Fundamentals of PT Practice I	2
PTA 204	Therapeutic Modalities	3
PTA 206	Therapeutic Exercise	3
PTA 211	Fundamentals of PT Practice II	2
PTA 213	Fundamentals of PT Practice III	2
PTA 220	Clinical Orthopedics	4
PTA 222	Clinical Neurosciences	3
PTA 224	Clinical Cardiopulmonary and Integumentary Issues	3
PTA 228	Special Topics in Physical Therapy	3
PTA 230	PTA Clinical Practice I	3
PTA 232	PTA Clinical Practice II	6
PTA 234	PTA Clinical Practice III	6

Program Outcomes

Upon successful completion of this program, students will be able to:

- Demonstrate the entry level knowledge, clinical skills and professional abilities of a physical therapist assistant in the delivery of interventions, in all communications, during education activities, and during resource management activities
- Provide competent patient care under the direction and supervision of a licensed physical therapist, in an ethical, legal, safe and effective manner in a variety of healthcare settings
- Integrate the behavioral expectation of altruism, caring and compassion, cultural competence, duty, integrity, PT/PTA collaboration and social responsibility into professional practice
- Manage an effective transition from the educational program to a career as a licensed physical therapist assistant, including a plan for continuous professional competence and lifelong learning

[1] Any 4 credit General Education Mathematics will be accepted.

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Psychology

Award: Associate of Arts
Degree Code: ASPR
Number of Credits: 60

Program Description

The Psychology degree provides the first two years of college for students preparing for a career in psychology, counseling or a related field. The Psychology degree emphasizes the scientific study of behavioral and mental processes in animals and humans. The field of Psychology encompasses many areas including: research methods, social behavior, personality, human development, biological basis of behavior, consciousness, learning, memory, emotion, motivation and mental health and adjustment. This program is designed primarily for students desiring to transfer to a four-year college or university to earn a bachelor's degree in Psychology. Students selecting this program should consult with an academic advisor early in the program.

Transfer Information

Cecil College has articulation agreements with Maryland and regional institutions. Click on "Transfer Opportunities" in MyCecil under the Advising Tab for a list of transfer pathways. In addition, transfer information is available through ARTSYS (The Articulation System of Maryland). Contact your advisor for detailed information.

Required Courses

General Education Requirements

Number	Title	Credits
BIO 130 and BIO 131 or CHM 103 and CHM 113	Principles of Biology I [S] Principles of Biology I Lab General Chemistry I [S] General Chemistry I Lab	3 1
BIO 132 and BIO 133 or CHM 104 and CHM 114	Principles of Biology II [S] Principles of Biology II Lab General Chemistry II [S] General Chemistry II Lab	3 1
CIS 101	Introduction to Computer Concepts [I]	3
EGL 101	Freshman Composition [E]	3
EGL 102	Composition and Literature [H]	3
EGL 209	Introduction to African-American Literature [H]	3
GEO 102	Cultural Geography [SS]	3
HST 201 or HST 202	History of the United States (to reconstruction) [H] History of the United States II (reconstruction to the present) [H]	3
MAT 127	Introduction to Statistics [M]	4
SPH 121	Interpersonal Communications [H]	3

Program Requirements

Number	Title	Credits
ELECT	Elective	3
HEA 136	Stress Management	3
PSY 101	Introduction to Psychology [SS]	3
PSY 201	Human Growth and Development [SS]	3
PSY 227	Introduction to Abnormal Psychology	3

Program Electives (Select 9 Credits)

Number	Title	Credits
PSY 203	Child Growth Development	3
PSY 207	Educational Psychology	3
PSY 222	Organizational Psychology [SS]	3
SOC 101	Introduction to Sociology [SS]	3
SOC 102	Social Problems [SS]	3
SOC 103	Marriage and the Family [SS]	3

Program Outcomes

Upon successful completion of this program, students will be able to:

- Demonstrate knowledge in learning theory, cognition, and memory
- Demonstrate knowledge of sensation and perception, as it relates to psychology
- Demonstrate knowledge in the areas of clinical and abnormal psychology as well as personality theory
- Demonstrate knowledge of social and developmental psychology
- Demonstrate knowledge of basic research methods
- Use basic statistics to test hypotheses and correctly interpret the results of their analyses
- Demonstrate knowledge of ethical guidelines within the context of academic and professional psychology

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Public Health with Areas of Concentration

Award: Associate of Science
Degree Code: CNEP (Environmental Public Health Concentration - 60 Credits)
Degree Code: CNHN (Health Navigator Concentration - 60 Credits)
Degree Code: CNPH (Public Health Generalist Concentration - 60 Credits)

Program Description

The Associate of Science in Public Health offers students a flexible degree program designed to provide a sound base of foundational credit coursework and additional career specific studies and/or competencies in the discipline of public health. Through a combination of general education requirements, core electives, specific public health studies, and a final capstone assignment, graduates are prepared to enter the workforce and/or pursue further education in the field of public health.

Transfer Information

Cecil College has articulation agreements with Maryland and regional institutions. Click on "Transfer Opportunities" in MyCecil under the Advising Tab for a list of transfer pathways. In addition, transfer information is available through ARTSYS (The Articulation System of Maryland). Contact your advisor for detailed information.

Required Courses

General Education and Program Requirements

Number	Title	Credits
ARTS/HUM	Arts and Humanities Electives [H]	3
BIO 101 and BIO 111	General Biology [S] General Biology Lab	3 1
BIO 208 and BIO 218	Human Anatomy and Physiology I [S] Human Anatomy and Physiology I Lab	3 1
EGL 101	Freshman Composition [E]	3
EGL 211	Technical Writing	3
MAT 127	Introduction to Statistics [M]	4
PSY 101	Introduction to Psychology [SS]	3
SOC 101	Introduction to Sociology [SS]	3
SPH 121 or SPH 141	Interpersonal Communications [H] or Public Speaking [H]	3
BIO 209 and BIO 219	Human Anatomy and Physiology II [S] Human Anatomy and Physiology II	3 1
PBH 104	Introduction to Public Health	3
PBH 110	Introduction to Epidemiology	3
SOC 105	Perspectives in Human Diversity [SS]	3

Environmental Public Health Concentration (17 Credits)

Number	Title	Credits
BIO 222 and BIO 222	Genetics Genetics Lab	3 1
CHM 103 and CHM 113	General Chemistry I [S] General Chemistry I Lab	3 1
ELECT	Healthcare, Public Health, or Science Electives[1]	3
PBH 220	Environmental Health	3
PBH 270	Public Health Capstone	3

Health Navigator Concentration (17 Credits)

Number	Title	Credits
ELECT	Healthcare, Public Health, or Science Electives[1]	5
HCD 120	Medical Terminology	3
HCD 270	Ethical Issues in Healthcare	3
PBH 120	The U.S. Healthcare System	3
PBH 208	Health Education	3

Public Health Generalist Concentration (17 Credits)

Number	Title	Credits
ELECT	Healthcare, Public Health, or Science Electives[1]	5
PBH 218	Health Administration	3
PBH 220	Environmental Health	3
PBH 270	Public Health Capstone	3
PSY 201	Human Growth and Development	3

Program Outcomes

Upon successful completion of this program, students will be able to:

- Demonstrate the entry level knowledge, and written and verbal communication skills and abilities associated with public health
- Apply the acquired the skills and knowledge to practice in an entry-level public health position
- Transfer to a baccalaureate program of study with public health generalist or specialized bachelor's degree programs including health education, health administration, and/or environmental health

[1] Suggested electives are BIO 200/210, HCD 270, PBH 120, PBH 208, PBH 218, PBH 220

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Social Work

Award: Associate of Arts
Degree Code: ASWR
Number of Credits: 60

Program Description

For information about the Accelerated Studies program or admission approval, contact the Director of Advising 410-287-6060 at Ext. 1890. This program option is designed for the working adult seeking to earn an undergraduate degree in an accelerated format while continuing to work full or part-time. The degree provides skills required for an entry-level position as a social and human services assistant. The accelerated program combines theory and practice through classroom, on-line, and guided experiential experiences in a cohort learning model. The partnership agreement with Salisbury University provides access and convenience for students to complete their baccalaureate degree in social work. A bachelor's degree in social work is the minimum educational requirement for an entry-level social worker.

Transfer Information

Cecil College has an articulation agreement with Salisbury University. Students satisfactorily completing the Associate of Arts – Social Work Option are guaranteed admission to Salisbury University. All the courses that are needed to complete the Salisbury University Baccalaureate degree will be offered at the Cecil College's Elkton Station location. Contact your advisor for detailed information.

Required Courses

The computer literacy requirement has been met throughout the course work in the degree program.

General Education Requirements

Number	Title	Credits
BIO 101 **and** BIO 111	General Biology [S] General Biology Lab	3 1
BIO 123 **or** BIO 203	Foundations of Nutrition [S] **or** Nutrition	3
EGL 101	Freshman Composition [E]	3
EGL 102	Composition and Literature [H]	3
HST 101	Western Civilization I [H]	3
MAT 127	Introduction to Statistics [M]	4
PHI 201	Ethics - Contemporary Moral Problems [H]	3
PSY 101	Introduction to Psychology [SS]	3
SCI	Lab Science Elective [SL]	4
SOC 101	Introduction to Sociology [SS]	3

Program Requirements

Number	Title	Credits
ELECT	Elective	1
HEA 140	Alcoholism and Drug Addiction	3
SOC 102	Social Problems [SS]	3
SOC 103	Family and Marriage [SS]	3
SPH 121 **or** SPH 141	Interpersonal Communications [H] **or** Public Speaking [H]	3
SWK 101	Introduction to Social Work [SS]	3
SWK 102	Basic Interviewing Skills	3
SWK 201	Social Welfare Policy Research and Experience	3
SWK 202	Elder Care Experiential Learning	2
SWK 203	Substance Abuse Experiential Learning	3

Salisbury University will accept up to 70 credits in transfer. Students are encouraged to complete the following additional program electives at Cecil College:

Number	Title	Credits
ANT 101	Cultural Anthropology [SS]	3
EGL 209	Introduction to African-American Literature [H]	3
ELECT	Elective	1
HST 102	Western Civilization II [H]	3

Program Outcomes

Upon successful completion of this program, students will be able to:

- Utilize their academic success to effectively continue their studies toward a bachelor's degree.
- Express an understanding of their ethical responsibility and role under the supervision of individuals in the profession.
- Demonstrate a professional attitude toward work, learning and the completion of tasks.
- Apply critical thinking skills within the context of professional social work practice.
- Understand the value base of the profession and its ethical standards and principles, and practice accordingly.
- Understand and interpret the history of the social work profession and its contemporary structures and issues.
- Understand the importance of respect as it relates to a clients' age, class, race, culture, disability, ethnicity, family structure, gender, marital status, national origin, race, religion, sex, and sexual orientation.
- Use communication skills differentially across client populations, colleagues, and communities.

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Visual Communications with Areas of Concentration

Award: Associate of Applied Science
Degree Code: CNVC (Communications Concentration) - 60 Credits
Degree Code: CNVG (Graphic Design and Multimedia Concentration) - 60 Credits
Degree Code: CNVP (Photography Concentration) - 60 Credits
Degree Code: CNVV (Video Production Concentration) - 60 Credits
Degree Code: CNVW (Web Design and Multimedia Concentration) - 60 Credits

Program Description

This program is designed for students seeking initial employment, career advancement, and/or transfer to four-year programs in the fields of graphic design and multimedia, photography, video production, and web design. Each program concentration is tailored to align with the latest industry-standard equipment, professional practices, and software to help students innovate and succeed in an increasingly competitive environment.

Transfer Information

Cecil College has articulation agreements with Maryland and regional institutions. Click on "Transfer Opportunities" in MyCecil under the Advising Tab for a list of transfer pathways. In addition, transfer information is available through ARTSYS (The Articulation System of Maryland). Contact your advisor for detailed information.

Required Courses

General Education Requirements

Number	Title	Credits
ARTS/HUM	Arts and Humanities Electives [H]	3
EGL 101	Freshman Composition [E]	3
EGL 102	Composition and Literature [H]	3
GEN ED	General Education Elective	3
MAT	Math Elective [M]	3
SCI	Lab Science Elective [SL]	4
PSY or SOC	Psychology Elective [SS] Sociology Elective [SS]	3

Program Requirements

Number	Title	Credits
VCP 116	Digital Imaging I	2
VCP 117	Digital Imaging II	2
VCP 279 or VCP 289	Professional Portfolio Production Internship I	4

Communications Concentration Requirements (30 Credits)

Number	Title	Credits
VCP 101	Photography I	4
VCP 210	Video Production I	4

Program Electives - Select 22 Credits

Number	Title	Credits
ART 101	Fundamentals of Design [H]	3
ART 105	Illustration, Materials and Techniques	3
ART 110	Color [H]	3
ART 130	Drawing I [H]	3
ART 140	Painting I [H]	3
ART 181	Introduction to Movie Making [H]	3
ART 183	Digital Illustration I	4
BUS 103	Introduction to Business	3
BUS 212	Principles of Marketing	3
CSC 160	Introduction to Data Communications	3
EGL 211	Technical Writing	3
EGL 213	Introduction to Film [H]	3
MUC 143	Music Fundamentals [H]	3
SPH 121	Interpersonal Communications [H]	3
SPH 141	Public Speaking [H]	3
VCP 110	Portrait Photography	3
VCP 111	Studio Photography I	4
VCP 118	Digital Imaging III	4
VCP 119	Digital Imaging IV	4
VCP 120	Digital Imaging V	4
VCP 136	Multimedia Production I	4
VCP 151	Introduction to Game Design	4
VCP 162	Mobile Application Design	4
VCP 211	Studio Photography II	4
VCP 212	Video Production II	4
VCP 214	Video Production III	4
VCP 215	Guerilla Filmmaking	4
VCP 218	Modeling and Animation I	4
VCP 222	Photojournalism	4
VCP 224	Nature and Wildlife Photography	4
VCP 230	Graphic Design Studio	4
VCP 233	Fictional Photography	4
VCP 296	Photography Seminar	4

Graphic Design and Multimedia Concentration Requirements (30 Credits)

Number	Title	Credits
ART/VCP	Visual Communications Elective	7
VCP 101	Photography I	4
VCP 118	Digital Imaging III	4
VCP 119	Digital Imaging IV	4
VCP 136	Multimedia Production I	4
VCP 144	Web Design I	3
VCP 210	Video Production I	4

Photography Concentration Requirements (30 Credits)

Number	Title	Credits
VCP 101	Photography I	4
VCP 111	Studio Photography I	4
VCP 118	Digital Imaging III	4
VCP 210	Video Production I	4
VCP 211	Studio Photography II	4

Program Electives - Select 10 Credits

Number	Title	Credits
ART 130	Drawing I [H]	3
ART 230	Drawing II [H]	3
VCP 110	Portrait Photography	4
VCP 140	Wedding Photography Portfolio Production	4
VCP 170	Photography Seminar-Equine	4
VCP 211	Studio Photography II	4
VCP 212	Video Production II	4
VCP 222	Photojournalism	4
VCP 223	Photojournalism II	4
VCP 224	Nature and Wildlife Photography	4
VCP 233	Fictional Photography	4
VCP 296	Photography Seminar	4

Video Production Concentration Requirements (30 Credits)

Number	Title	Credits
EGL 112	Scriptwriting I	3
VCP 101	Photography I	4
VCP 111	Studio Photography I	4
VCP 210	Video Production I	4
VCP 212	Video Production II	4
VCP 214	Video Production III	4

Program Electives - Select 7 Credits

Number	Title	Credits
ART 141	Survey of Art History [H]	3
ART 181	Introduction to Movie Making [H]	3
ART 183	Digital Illustration I	4
BUS 212	Principles of Marketing	3
EGL 212	Scriptwriting II	3
THE 184	Introduction to Acting for Screen and Stage [H]	3
VCP 118	Digital Imaging III	4
VCP 119	Digital Imaging IV	4
VCP 136	Multimedia Production I	4
VCP 211	Studio Photography II	4
VCP 215	Guerilla Filmmaking	4
VCP 216	Guerilla Filmmaking II	4
VCP 218	Modeling and Animation I	4
VCP 233	Fictional Photography	4

Web Design and Multimedia Concentration Requirements (30 Credits)

Number	Title	Credits
VCP 101 or VCP 210	Photography I Video Production I	4
VCP 118	Digital Imaging III	4
VCP 136	Multimedia Production I	4
VCP 144	Web Design I - Design Fundamentals	3
VCP 162	Mobile Application Design	4
VCP 244	Web Design II - Advanced Design	3

Program Electives - Select 8 Credits

Number	Title	Credits
ART 180	Basic Photography [H]	3
ART 181	Introduction to Movie Making [H]	3
CSC 109	Introduction to Programming	3
CSC 140	Introduction to Networking	3
CSC 148	Server-Side Scripting with ASP	3
CSC 161	Oracle I - Introduction to SQL	3
CSC 182	Scripting Languages	3
VCP 111	Studio Photography I	4
VCP 119	Digital Imaging IV	4
VCP 120	Digital Imaging V	4
VCP 222	Photojournalism I	4

Program Outcomes

Upon successful completion of this program, students will be able to:

- Use the basic tools and techniques of a visual communicator
- Communicate in an effective and professional manner both verbally and in writing with the ability to incorporate critique recommendations in revising their work
- Demonstrate the ability to meet deadlines
- Use computer and related technology in the execution of visual communications projects
- Demonstrate knowledge of the elements and principles of design
- Produce a body of work demonstrating the ability to solve visual communications problems
- Market themselves using their portfolio and visual communications skills

Additional Outcomes – Area of Concentration in Communications
Upon successful completion of this concentration, students will also be able to:

- Demonstrate critical thinking skills as they relate to solving communication problems
- Conceptualize and implement a visual solution using different communication mediums
- Apply knowledge of industry practice to visual communication related technologies
- Visually communicate information to a well-defined audience

Additional Outcomes – Area of Concentration in Graphic Design and Multimedia
Upon successful completion of this concentration, students will also be able to:

- Demonstrate an understanding of tools and technology, including their roles in the creation, reproduction, and distribution of graphic designs
- Use relevant tools and technologies including use of 2D and 3D software applications such as modeling, animation, photo, video, sound, photography, print and web authoring programs
- Demonstrate knowledge of the elements and principles of design, color theory, and their application to graphic designs
- Produce a portfolio demonstrating the ability to solve graphic design problems

Additional Outcomes – Area of Concentration in Web Design and Multimedia
Upon successful completion of this concentration, students will also be able to:

- Produce an appealing visual product based on project goals and limitations of the web based medium
- Demonstrate and apply knowledge of the elements and principles of design to projects and during critical discussions
- Utilize industry standard hardware and software to produce content that is viewable on both past and current technology
- Develop intermediate-level code that is appropriate for web and multimedia presentations
- Problem-solve issues related to the visual and technical components of publishing web specific content
- Produce a portfolio of work that makes them marketable in the job market

Additional Outcomes – Area of Concentration in Video Production
Upon successful completion of this concentration, students will also be able to:

- Demonstrate preproduction, direction, production, postproduction, and distribution of narrative, documentary and commercial videos
- Perform the duties of various technical crew positions in single and multi-camera production environments
- Explain and demonstrate knowledge of video preproduction techniques by preparing preproduction materials for video productions
- Operate video production lighting, cameras and sound equipment according to industry standards
- Utilize post-production video techniques to edit digital video projects with graphics, picture, sound and editing

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Transportation and Logistics – Commercial Transportation

Award: Certificate
Degree Code: TLCR
Number of Credits: 24

Program Description

This certificate is designed for the individual who is working in the movement of raw materials and freight to manufacturing, warehousing, and retail facilities. Careers include distribution manager, traffic manager, truck driver dispatcher, logistics salesman, and freight-forwarder. Students who currently possess a valid Commercials Driver's License (CDL) may petition to receive college credit for previous licensures and experience through the credential assessment process.

Required Courses

Number	Title	Credits
BUS 103	Introduction to Business	3
CIS 101	Introduction to Computer Concepts	3
TRL 101	Introduction to Logistics	3
TRL 105	Professional Driver's Knowledge	3
TRL 106	Professional Commercial Driver's Skills	3
TRL 107	Supply Chain Management	3
TRL 130	Production and Operations Management	3

Program Outcomes

Upon successful completion of this program, students will be able to:

- Operate a commercial motor vehicle safely
- Control and safely maneuver the vehicle in various traffic situations
- Demonstrate knowledge of laws relating to the transportation industry
- Follow established procedures for pre-trip inspections
- Apply proper logbook procedures and rules
- Recognize, avoid, or solve potential hazardous situations related to truck driving

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Supply Chain Management

Award: Certificate
Degree Code: TLSC
Number of Credits: 18

Program Description

This certificate will teach an individual the basics of purchasing and materials management required to support a modern lean manufacturing facility and/or manage the flow of materials through the supply chain. Careers include, but are not limited to, inventory control manager, distribution center manager, warehousing/operations manager, customer service manager, buyer, and planner.

Required Courses

Number	Title	Credits
BUS 103	Introduction to Business	3
BUS 108	Principles of Purchasing	3
TRL 101	Introduction to Logistics	3
TRL 107	Supply Chain Management	3
TRL 130	Production and Operations Management	3
TRL 230	Product Lifecycle Management	3

Program Outcomes

Upon successful completion of this program, students will be able to:

- Demonstrate an understanding of the concepts and practices used in financial accounting
- Demonstrate an understanding of the major functional areas of business and our economic systems including management, human resources, marketing, production, and operations and information
- Use multiple operating systems commonly found in the information technology field
- Apply skills learned in the planning and management of material flows and related information in both public and private sector organizations
- Apply a total systems approach to managing activities involved in physically moving raw materials, inventory, and finished goods from the point of origin to point of use or consumption
- Demonstrate an understanding of the translation of product and service requirements into facilities, procedures, and operating organizations
- Apply the processes of managing the entire lifecycle of a product from its conception, design and manufacture, to its service and disposal

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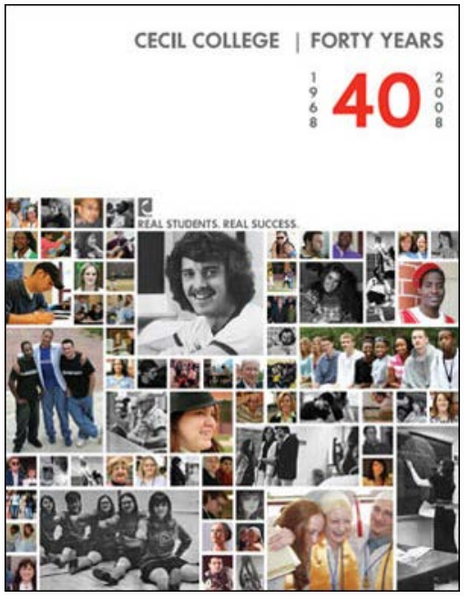
2005-2007



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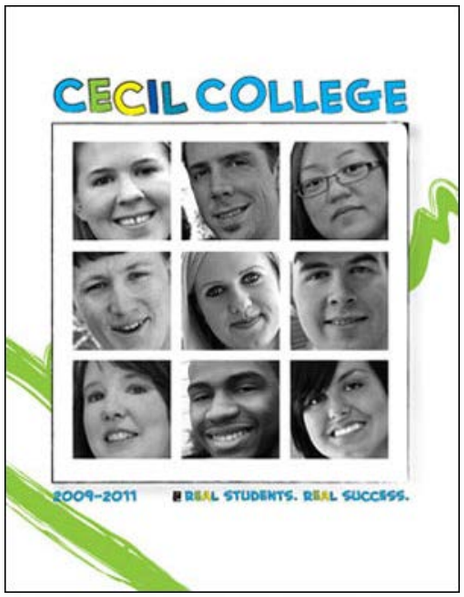

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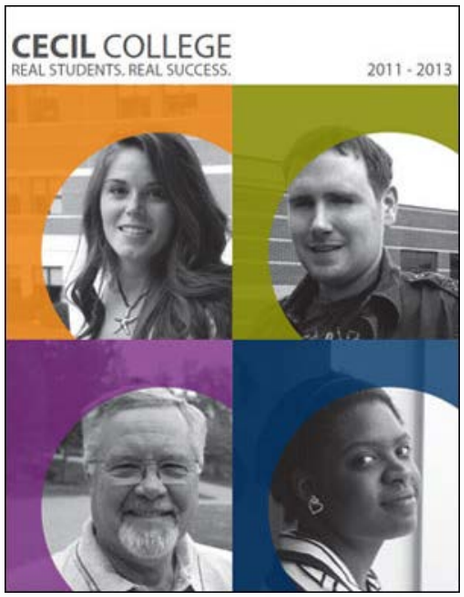

2011-2013

Digital Catalog Archive

2013-2014
2014-2015
2015-2016