About the Community College of Allegheny County (CCAC)

CCAC annually educates more than 30,000 credit students through 155 degree, certificate, diploma and transfer programs and offers thousands of students access to noncredit and workforce development courses. The learning-centered institution’s mission is to provide affordable access to quality education and offer a dynamic, diverse and supportive learning environment that prepares the region’s residents for academic, professional and personal success in our changing global society. CCAC’s quality programs enable students to transfer credits to nearly 500 colleges and universities and support regional workforce needs with accessible instruction available day, evening, weekend and online in Allegheny County and beyond. Visit ccac.edu to learn more.

COMMUNITY COLLEGE OF ALLEGHENY COUNTY

SUMMER 2016
CREDIT SCHEDULE

Earn college credit NOW for your life experiences. Visit www.ccfasttrack.org or ccac.edu for more information.

The student portal is available at my.ccac.edu

Visit us on Facebook, Twitter, Instagram & Pinterest.

ccac.edu

OUR GOAL IS YOUR SUCCESS.
**MESSAGE FROM THE PRESIDENT**

Thank you for choosing CCAC to access higher education or workforce training. As we implement our mission to provide affordable access to quality education, we want to ensure you have the essential support tools to succeed in your educational and career goals. Whether you plan to transfer to another institution after completing your degree, prepare to enter the workforce or just expand your skills, our goal is your success.

**Dr. Quintin B. Bullock**  
President, CCAC

---

**ACADEMIC CALENDAR**

<table>
<thead>
<tr>
<th>Event</th>
<th>1ST 6-WEEKS</th>
<th>10-WEEKS</th>
<th>8-WEEKS</th>
<th>2ND 6-WEEKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Open registration begins for new &amp; current students</td>
<td>February 1</td>
<td>February 1</td>
<td>February 1</td>
<td>February 1</td>
</tr>
<tr>
<td>FAFSA deadline in order to charge books against financial aid</td>
<td>May 6</td>
<td>May 6</td>
<td>May 6</td>
<td>June 21</td>
</tr>
<tr>
<td>Registration deadline in order to charge books against financial aid</td>
<td>June 10</td>
<td>June 10</td>
<td>June 10</td>
<td>July 15</td>
</tr>
<tr>
<td>Deadline to pay tuition/fees or sign payment plan</td>
<td>May 18</td>
<td>May 18</td>
<td>June 1</td>
<td>June 29</td>
</tr>
<tr>
<td>Last day to drop classes with 100% drop of charges</td>
<td>May 21</td>
<td>May 21</td>
<td>June 4</td>
<td>July 1</td>
</tr>
<tr>
<td>Classes begin</td>
<td>May 23</td>
<td>May 23</td>
<td>June 6</td>
<td>July 5</td>
</tr>
<tr>
<td>Last day to drop with 75% drop of charges</td>
<td>May 26</td>
<td>June 1</td>
<td>June 13</td>
<td>July 8</td>
</tr>
<tr>
<td>Financial aid grant credit to student accounts</td>
<td>June 14</td>
<td>June 14</td>
<td>June 14</td>
<td>August 1</td>
</tr>
<tr>
<td>Financial aid initial loan credit to student accounts</td>
<td>June 17</td>
<td>June 17</td>
<td>June 24</td>
<td>August 3</td>
</tr>
<tr>
<td>Last day to withdraw with “W” grade</td>
<td>June 16</td>
<td>July 5</td>
<td>July 8</td>
<td>July 28</td>
</tr>
<tr>
<td>Financial aid second loan credit to student accounts</td>
<td>June 20</td>
<td>June 29</td>
<td>June 29</td>
<td>August 8</td>
</tr>
<tr>
<td>Classes and Examinations end</td>
<td>July 1</td>
<td>July 30</td>
<td>July 30</td>
<td>August 13</td>
</tr>
<tr>
<td>Grades available to students on <a href="http://my.ccac.edu">my.ccac.edu</a></td>
<td>July 7</td>
<td>August 4</td>
<td>August 4</td>
<td>August 17</td>
</tr>
</tbody>
</table>

**HOLIDAY SCHEDULE**

- **Memorial Day observance (Saturday through Monday); CCAC closed**  
  - May 28–30
- **Classes resume (Tuesday)**  
  - May 31
- **Independence Day observance (Saturday through Monday); CCAC closed**  
  - July 2–4
- **Classes resume (Tuesday)**  
  - July 5

**Note:** The majority of the summer courses are provided in the first and second summer terms. They are offered as six-week, eight-week and ten-week sessions in the first summer term and are offered as six-week sessions in the second summer term. The individual session calendars are displayed on this page. Some courses follow a unique schedule. The beginning date and number of weeks of these courses are noted in the course sections of this publication. Contact the Registration and Advisement office for the complete academic information.

**If you are graduating at the end of the summer (August) you are invited to attend the May 2016 commencement ceremonies:** applications are due February 26, 2016. If you are not attending commencement ceremonies, applications for August graduates are due July 15, 2016.
TABLE OF CONTENTS

ENROLLMENT STEPS FOR NEW STUDENTS

Visiting Students Follow Steps on Page 3

1. Complete your **ADMISSIONS APPLICATION**. Online application option available at [ccac.edu](http://ccac.edu)...........................................2–3
   Note: CCAC requires your Social Security Number to apply.

2. Apply for **FINANCIAL AID** by submitting the FAFSA form, available online at [www.fafsa.ed.gov](http://www.fafsa.ed.gov).........................4–5
   Note: CCAC eRefund allows you to receive financial aid and student account refunds electronically.
   Visit [ccac.edu/eRefund](http://ccac.edu/eRefund) for more information.

3. **First-time degree, certificate and diploma seeking students are required to complete an online STUDENT ORIENTATION before they can register for classes.**
   **ONLINE STUDENT ORIENTATION** You can take this now! If you have applied, log onto the online student orientation using your student ID number. Visit [ccac.edu/student-orientation](http://ccac.edu/student-orientation).................................................6

4. Schedule your **PLACEMENT TEST(s)**.
   Use Appointment Central to schedule an on site placement test at [my.ccac.edu](http://my.ccac.edu).
   Placement testing is required of all full-time, associate degree seeking students who do not have prior college experience.* Please refer to page 8 of this document to determine if your program of study is a degree, certificate or diploma. Photo ID is required .................................................................3 & 6
   * Exemptions may apply. Please contact the Admissions office or [ccac.edu/placement-tests](http://ccac.edu/placement-tests)
   **Remote placement testing available to applicants outside CCAC’s geographical region. Visit [ccac.edu/placement-tests](http://ccac.edu/placement-tests).

Prepare for **PLACEMENT TESTS**.................................................................................................................................6

5. Meet with an **ACADEMIC ADVISOR** to discuss your education plan. New students and students in several other categories are required to meet with an academic advisor. Use Appointment Central to schedule a meeting at [ccac.edu/appointment-central](http://ccac.edu/appointment-central).................................................................6–7
   Note: If you plan to transfer to another institution, we strongly urge you to make an appointment to meet with a COUNSELOR as soon as possible (page 11).

6. Register for **CLASSES**. Photo ID is required. (A registration form is available on page 10)..................................................9–11

7. Pay for **CLASSES**. You can pay online with Visa, MasterCard, or Discover......................................................12–13

8. Even if you have submitted an earlier transcript, you need to submit your **FINAL TRANSCRIPTS**. Include high school/GED and any college transcripts. (Complete an application for transfer credit at your campus admissions office)..................................................................14

ENROLLMENT SERVICES & TUITION INFORMATION ..........................................................................................................9–14

IMPORTANT INFORMATION FOR STUDENTS ................................................................................................................14–18

CREDIT COURSE SCHEDULE ........................................................................................................................................19–64

ONLINE LEARNING COURSES .........................................................................................................................................60-63

PAYMENT DATES FOR SUMMER 2016

<table>
<thead>
<tr>
<th>Classes start:</th>
<th>Payment Due:</th>
<th>Registration will be accepted after the payment due dates; payment is due at the time of registration.</th>
</tr>
</thead>
<tbody>
<tr>
<td>May 23</td>
<td>May 18, 2016 (Wed.)</td>
<td></td>
</tr>
<tr>
<td>June 6</td>
<td>June 1, 2016 (Wed.)</td>
<td></td>
</tr>
<tr>
<td>July 5</td>
<td>June 29, 2016 (Wed.)</td>
<td></td>
</tr>
</tbody>
</table>

MyCCAC portal is available on the web throughout weekends & holiday breaks at [my.ccac.edu](http://my.ccac.edu).

This schedule is published by the Community College of Allegheny County. Although the information herein is accurate as of the publication date, schedule changes routinely occur up to, and including, the start of classes. For the most up-to-date information, visit [ccac.edu](http://ccac.edu) or the campus you plan to attend.
**CCAC APPLICATION for ADMISSION**

**General Information (Please print)**

<table>
<thead>
<tr>
<th>LAST NAME</th>
<th>FIRST NAME</th>
<th>MIDDLE INITIAL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PREFERRED NAME (IF DIFFERENT FROM LEGAL NAME)</th>
<th>OTHER/FORMER NAME</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>STREET ADDRESS</th>
<th>APARTMENT NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CITY</th>
<th>STATE</th>
<th>ZIP CODE</th>
<th>COUNTY</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>EMAIL ADDRESS</th>
<th>CELL PHONE</th>
<th>HOME PHONE</th>
<th>BUSINESS PHONE</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Gender**
- [ ] Male
- [ ] Female

**Marital Status**
- [ ] Married
- [ ] Single

**Ethnicity & Race**
- Hispanic/Latino/Spanish Origin: [ ] Yes
- [ ] No

Select all that apply:
- [ ] American Indian or Alaskan Native (including all Original Peoples of the Americas)
- [ ] Asian (Including Indian subcontinent & Philippines)
- [ ] Black or African American (including Africa & Caribbean)
- [ ] Native Hawaiian or Pacific Islander (Original Peoples)
- [ ] White (including Middle Eastern)

**Preferred Home Campus**
- Allegheny (North Shore) Homewood-Brushton Center
- Boyce (Monroeville) Braddock Hills Center
- North (McCandless) West Hills Center
- South (West Mifflin) Washington County Center

**Have you served in the military?**
- [ ] Yes
- [ ] No

**Are you a dependent of a veteran/military member?**
- [ ] Yes
- [ ] No

I am interested in (Select all that apply):
- [ ] Clubs, Organizations or Athletics
- [ ] Supportive Services for Students with Disabilities
- [ ]Scholarships

**Citizenship Status**
- [ ] United States Citizen
- [ ] Permanent Resident
- [ ] Non-resident/International Student
- [ ] Other

**Non-immigrant/International Students**

What is your visa status?
- [ ] F1
- [ ] F2
- [ ] Other (specify):

Country of Citizenship

(Non-immigrant/International Students are required to fill out and submit additional forms.)

**I attest that the information on this application is correct to the best of my knowledge.**

Signature

Date

The college is subject to provisions of and complies with the Family Educational Rights and Privacy Act of 1974. A statement of the college policy can be found in the student handbook and college catalog.

**Voluntary information used to comply with federal reporting and has no effect on admission to the college. The College does not discriminate and prohibits discrimination against any individual based upon race, color, religion, national origin, ancestry or place of birth, sex, gender identity or expression, perceived gender identity, sexual orientation, disability, use of a service animal due to disability, marital status, familial status, genetic information, veteran status, age or other classification protected by applicable law in matters of admissions, employment, services or in the educational programs or activities that it operates. The complete policy and related information can be found on CCAC’s website at, https://www.ccac.edu/nondiscrimination/.

**Domicile shall mean a person’s true, fixed and permanent home, to which one intends to return after being absent.**

Revised September 2015

You may also apply online at enrollcredit.ccac.edu.
As an open enrollment institution, CCAC provides learning opportunities for all students regardless of prior educational background. If you have a high school diploma, a General Education Development (GED) certificate or are 18 years of age or older with reasonably equivalent experience, CCAC can help you achieve your academic goals. If you are interested in completing the GED certificate program, visit ccac.edu/GED-information. Effective January 1, 2014, GED tests are administered at official GED testing centers ONLY. Allegheny County residents who obtain their GED Commonwealth Secondary School Diploma are eligible for one tuition-free, three-credit course at CCAC within six months of receiving their diploma. For further details and eligibility requirements, please visit ccac.edu/GED-information.

Note: Admission to CCAC does not guarantee admission to academic or career programs with special entrance requirements or those courses with specific prerequisites or competency levels.

FIRST-TIME OR VISITING COLLEGE STUDENTS

All new students must complete the admissions process and meet with an academic advisor before enrolling in classes. First time college students may be required to take college placement tests before meeting with an academic advisor. Students are strongly encouraged to participate in placement test preparation as described on pages 2 and 6 prior to taking the test. If you are a new or visiting student and have completed previous college coursework at another college, you may be exempt from all or part of the placement tests. Check with the Registration and Advisement offices for exemption guidelines.

New Students
- Complete and submit a CCAC application for admission (available online at or in print my.ccac.edu format on page 2).
- Apply for financial aid (the FASFA form is available at www.fafsa.ed.gov).
- Schedule CCAC placement tests at ccac.edu/appointment central.
- Submit a high school transcript and transcripts from any college(s) attended.
- Schedule a meeting with an academic advisor at ccac.edu/appointment central.

Note: Attend an Open House day to complete all steps in one visit—become a college student all in one day.

Visiting Students
- Meet with your home institution advisor to select CCAC courses. Visit webapps.ccac.edu/mastersyllabi, click on Academics and then Programs & Disciplines to view descriptions and learning outcomes.
- Complete and submit a CCAC application for admission (available online at my.ccac.edu or in print format on page 2).
- Submit your home institution’s transcript or grade report.
- Take CCAC placement tests (if prerequisite(s) are not met at home institution).
- Meet with a CCAC academic advisor (optional, but recommended).
- At the end of the summer semester, request an official transcript for your home school.

LEARN HOW TO BECOME A SUCCESSFUL COLLEGE STUDENT IN ONE DAY

UPCOMING CCAC SUMMER 2016 OPEN HOUSE: Wednesday, April 20, 3:00 PM–6:00 PM

Our open houses are designed to give prospective students access to information on how to enroll for classes, financial aid, placement testing, academic advising, registration and payment options in one location, in one day! Photo ID is required.

Other sessions are held at each of the college's four campuses and several centers—convenient dates and times found at online at webapps.ccac.edu/AppointmentCentral or via telephone.

CCAC Allegheny Campus, North Shore, SSC, Room 130, 412.237.2511
CCAC Boyce Campus, Monroeville, Room S563, 724.325.6614
CCAC North Campus, McCandless, Room 1003, 412.369.3600
CCAC South Campus, West Mifflin, Room B320, 412.469.4301 (No pre-registration necessary)

Additional 2016 Open House dates:
February 17 at 9:00 AM, March 31 at 9:00 AM, May 11 at 1:00 PM, June 1 at 4:00 PM, June 15 at 9:00 AM

Course Registration Deadlines

Students may register for credit classes until the first class meeting and online courses prior to the start of the term. Registration using CCAC Central is available up until one day before the class begins.

For courses that have met (including online courses), students may request the instructor’s documented approval and submit it to the Registration and Advising Office for processing within two business days of signature and before the end of the first week of the term (or first two days of the course term for courses 10-weeks in length or less). Students who are on probation or suspension must obtain permission from an advisor (probation) or a counselor (suspension).
FINANCIAL AID

If you are applying for financial aid, it is very important to start early. The CCAC Financial Aid program is designed to help you pay for your education. You may apply for grants, scholarships, loans and work-study. Figuring out how much financial aid you might qualify for and receive is a complicated process. Throughout the process, it is very important to stay in touch with the Financial Aid staff to ensure a timely completion of your file. Each financial aid application is reviewed individually so that you are being considered for every type of financial aid available at the college.

HERE’S HOW TO APPLY

1. **Carefully complete your FAFSA application online at fafsa.ed.gov and submit electronically.** Deadline priority dates are important.

2. **Application Review.** Once your file is complete, the Financial Aid office will review your application and determine how much financial aid you are eligible to receive.

3. **Award Notification.** You will be notified if you are eligible to receive financial aid. Carefully review any instructions you receive regarding your financial aid award notification.
   
   Students are responsible for all tuition and fee charges not covered by financial aid that are adjusted due to non-attendance or due to lack of continued attendance.
   
   You can view adjustments and/or additions to your initial financial aid award at ccac.edu through CCAC Central e-Services. You can also print a revised award letter.

4. **Refunds** for individuals whose financial aid eligibility exceeds the cost of tuition and fees will be released after the 30th calendar day of the semester.

**MyCCAC PORTAL** • Visit MyCCAC on the web at my.ccac.edu.

The MyCCAC portal provides access to college-wide information through a centralized, mobile-friendly online system. A CCAC NetID and password are required to gain access to MyCCAC. Once logged in, students have access to:

- **Blackboard courseware**
- **CCAC academic email** (required for all CCAC email communications)
- **CCAC Central e-Services** (view official grades, request transcripts, access financial aid, make payments, and much more)
- **Course search & registration**
- **Academic deadlines, college events and other important college information**

TYPES OF AID

**Federal Pell Grant:**
- Range: $626 to $5775 annually (subject to change)

**Federal Supplemental Educational Opportunity Grant (FSEOG):**
This grant is available to undergraduate students who have demonstrated exceptional financial need.
- Range: $100–$1,000 yearly

**Pennsylvania Higher Education Assistance Agency Grant:** This grant is available to Pennsylvania residents who have not yet earned a bachelor’s or professional degree and who demonstrate financial need according to the PHEAA needs analysis formula.
- Range: $200–$1,884 yearly

**Work-study:**
This program is available to eligible students who have financial need and who wish to work part time while enrolled at CCAC.

**William D. Ford Direct Federal Stafford “Subsidized” Loan:**
Direct Federal Stafford Subsidized Loans are based on financial need as well as annual and aggregate limits. The federal government pays the interest on this loan until you enter repayment six months after you graduate or until you are no longer enrolled at least half time (six credit hours).

**William D. Ford Direct Federal Stafford “Unsubsidized” Loan:**
Direct Federal Stafford Unsubsidized Loans are based on annual and aggregate limits and do not make financial need a basis. Interest begins to accrue upon the first disbursement. The option does exist to pay interest on this type of loan while in school or you may delay payment by capitalizing the interest until repayment begins. Principal repayment begins six months after you graduate or you are no longer enrolled at least half time (six credit hours).

**CCAC School Codes for FAFSA Form**
- Allegheny Campus: 003231  Boyce Campus: E00563
- North Campus: E00564  South Campus: E00565
FINANCIAL AID & E-REFUND

FINANCIAL AID REFUND & BOOK CHARGE POLICY
Please see summer academic calendar dates on page 1 for 16FS and 16SS grant and loan credit dates. Refunds will be issued within 14 days after the published credit dates.

SUMMER BOOK CHARGING REQUIREMENTS
Students who meet each of the following conditions will be permitted to charge purchases made in the CCAC campus bookstores, as well as on the CCAC online bookstore, against their First Summer 2016 financial aid awards: 1) the student must submit his or her completed 2015-16 Free Application for Federal Student Aid (FAFSA) and all other required documentation to the appropriate CCAC Financial Aid office no later than May 6, 2016; AND 2) the student must register for Summer 2016 classes no later than June 10, 2016. Students wishing to charge books for Second Summer 2016, must submit all 2016-2017 Financial Aid application materials no later than June 21, 2016 and register for 16SS classes on or before July 15, 2016. Due to the time needed to accurately process FA applications and establish corresponding charge accounts in the bookstores, students who fail to meet each of these requirements will not be eligible to charge purchases made in the CCAC bookstores directly against their financial aid awards. Students receiving Direct Student loans for summer must accept their loans AND have a completed Master Promissory Note and Entrance Counseling on file with CCAC in order to be able to charge books against their anticipated summer loan.

FINANCIAL AID & E-REFUND
First Summer
• Please see summer academic calendar dates on page 1 for 16FS grant and loan credit dates.
  2015 FAFSA due date in order to charge books—May 6, 2016
  16FS registration deadline in order to charge books—June 10, 2016
  First day of classes—May 23, 2016
  Bookstore charging period—May 20, 2016 to June 10, 2016

Second Summer
• Please see summer academic calendar dates on page 1 for 16SS grant and loan credit dates.
  2016 FAFSA and application materials due date in order to charge books—June 21, 2016
  16SS registration deadline in order to charge books—July 15, 2016
  First day of classes—July 5, 2016
  Bookstore charging period 16SS—July 1, 2016 to July 15, 2016

IMPORTANT: All Direct Loan credits will be issued in two installments per semester. Each credit will represent 50 percent of the student’s approved loan funds for the semester minus the federally appropriated loan fee. Financial Aid refunds will be adjusted to reflect a student’s enrollment status (full time, ¾ time, half time) at the time that the funds are credited to the student account. Students must be enrolled at least half time at the time the funds are credited to their student account in order to receive the Direct Stafford, Direct Unsubsidized Stafford or Direct PLUS loan. For more information about the revised refund policy, please visit ccac.edu/refund-policy/.

REFUND & REPAYMENT POLICY
Federal Financial Aid • Title IV Refund Procedures:
Students who receive federal financial aid and who completely withdraw or who stop attending classes up to the 60 percent period of enrollment will have federal financial aid adjusted. This adjustment will reflect the portion of federal financial aid that is unearned for the period for which the student was enrolled. If the student received a refund, some or all of the refund money may need to be repaid to the institution. In addition, if the student’s financial aid is adjusted, leaving an unpaid balance for tuition and fee expenses, the student is also expected to repay the institution for these charges.

CCAC eREFUND—CCAC eREFUND WILL ENABLE YOU TO HAVE CERTAIN REFUNDS DEPOSITED DIRECTLY INTO YOUR BANK ACCOUNT. MINIMIZE PROBLEMS WITH LOST CHECKS, OLD ADDRESSES OR WAITING FOR THE MAIL.

It’s the fast, free and easy way to get:
• Financial aid refunds
• Student account refunds (see page 13)
• Quick access to your money

Students may take advantage of CCAC eRefund as a faster, more convenient method of receiving a refund. Visit ccac.edu/eRefund for more information.

Note that any address, name or other personal information you update on the PNC site will not be updated in your CCAC college records. Please be sure to update in both locations if you have a change. Students using eRefund remain subject to the 30-day financial aid refund policy.
COLLEGE PLACEMENT TESTS

The college placement tests are given to first-time, associate degree seeking students and for students planning to enroll in courses with English, reading and/or mathematics pre-requisites (see exemptions below). Part-time, associate degree seeking students must complete their placement tests once they have achieved 12 credits. These tests are intended to assist you in selecting courses most appropriate for your current academic skill level. These are not admissions tests. If you have completed college-level coursework at another school or have ACT or SAT scores, you may be exempt from testing. Please check with the Registration and Advisement offices for exemption criteria.

For your convenience, college placement testing sessions are provided both during the day and the evening. You can set up an appointment by calling the counseling office at the campus you plan to attend, or you can use Appointment Central to schedule the placement tests at a time convenient for you. Remote placement testing is available to applicants outside CCAC’s geographical region. Visit ccac.edu/placement tests.

After the placement testing you can also set up an Academic Advising appointment by using Appointment Central.

BE PREPARED

Visit CCAC’s Placement Test page at: ccac.edu/placement tests on the web for a list of helpful tips and study resources to refresh and prepare for the placement tests. Sample test questions are also available.

This is an extremely important step in the enrollment process! Applicants should arrive at the testing site on time, well-rested and with a photo ID.

WEB ADVISING

Students who live more than 50 miles from a CCAC location and are interested in attending CCAC now have the ability to complete the enrollment process and meet with an academic advisor using our WEB Advising program. To determine if you meet the technical requirements for WEB Advising and/or for additional information on the web advising process, go to ccac.edu/web-advising.
ACADEMIC ADVISORS

CCAC encourages students to meet with an academic advisor before enrolling in classes. The advisor will review your program of study and the best course selections for that program. However, certain categories of students are required to meet with an advisor before enrolling. They are:

- All new degree or certificate seeking students (i.e., students who have never taken college coursework).
- Students who have not completed the developmental sequence.
- Students with grade point averages (GPA) below 2.00.
- Students who are changing their program of study.
- Students who will graduate at the end of the term.

The following students may register without seeing an academic advisor, but are always welcome to use this service:

- Visiting students from other colleges who have met the prerequisites to take specific courses. Students should bring an unofficial transcript or grade report at the time of registration.
- Non-degree seeking students (with previous college credit) who wish to take courses for professional or personal improvement.
- Continuing students making satisfactory academic progress.

To schedule an on-campus advising appointment, visit ccac.edu/appointment-central or contact the campus Registration and Advisement office or the college center you wish to attend to make an advising appointment. Those numbers are located on the inside back cover.

STUDENT SUCCESS

An overview of academic policies for first-time degree seeking students

Reading First
First-time*, degree-seeking students who place into the lowest level of developmental reading must take DVS 060 and DVS 070 in their first semester.

SDS 102—Student Success Course
Any first-time*, full-time, associate degree-seeking student who places into all three developmental areas (including ESL), regardless of the level, must take SDS 102 Academic and Personal Development in the first semester.

*First-time is defined as attending CCAC for the first time.

STUDENT DROP OF TUITION AND ELIGIBLE FEE CHARGES:

Students are responsible for all tuition and fee charges at the time of registration. Even if your plans change and you no longer wish to attend, you remain responsible to drop your class/es to protect your academic and financial records.

CCAC will drop charges as described in the timeline below.

1. For students who drop classes before the start of the term, CCAC will drop 100% of the tuition and eligible fees.
2. For students who drop from the first day of the term to the 14% point of the term**, CCAC will drop 75% of the tuition and 100% eligible fees.
3. From the 15% point of the term forward**, CCAC will not drop any tuition/fee charges; students can be awarded a "W" grade until the 60% point of the term.

**See academic calendar (inside front cover) for refund deadlines. Consult the Registration and Advisement office at your campus for drop dates for shorter classes.

If students are self-paying, the funds will be refunded by check or credited back to the credit cards used. For students who are funded by state/federal financial aid or various agency or employer sponsorship, the funds will be returned to that source and/or the students (if applicable).
PROGRAMS OF STUDY

SELECT THE PROGRAM THAT SUPPORTS YOUR INTERESTS AND EDUCATIONAL PLAN. (UPDATE: January 2016)

Associate of Arts and Associate of Science degrees include specific coursework along with a core of general education courses in English, mathematics, science, social sciences and humanities. Many students enter the workforce with associate degrees. Others wish to work with counselors and transfer to four-year institutions to pursue bachelor’s degrees, using articulation agreements between CCAC and nearly 30 other universities or using certain degrees designed as templates for specialized programs. Associate degrees require at least 60 college credits and take 15 to 24 months of full-time study (longer for part-time students).

Arts & Humanities
- 089 General Studies AS
- 106 UP—Liberal Arts & Sciences AS
- 026 Art
- 374.2 Graphic Communications

Business
- 004.2^ UP—Business
- 097 Business CCAC—IUP
- 105 Accounting
- 340 Accounting Specialist
- 785.1 Administrative Assistant
- 378 Aviation Management
- 382.1 Aviation Technology
- 385.2 Business Management
- 327.3 Court Reporter
- 670.1 Culinary Arts
- 405.2 Foodservice, Lodging & Recreation Management
- 604.3 Paralegal
- 423.3 Tourism Management

Education, Social & Behavioral Sciences & Human Services
- 915.1 American Sign Language
- 600.6 Criminal Justice & Criminology 621.5
- 679.3 Education Paraprofessional
- 330.2 Fire Science Administration
- 092.1 Health & Physical Education
- 094.9 Teacher Education: Middle Level & Secondary

Health
- 462.P* Anesthesia Technician
- 534.P* Diagnostic Medical Sonographer
- 590.P* Dietetic Technician
- 550.P* Health Information Technology
- 443.P* Massage Therapy
- 535.P* Medical Assistant
- 525.P* Medical Laboratory Technician
- 555.P* Nuclear Medicine Technology
- 575.P* Nursing
- 587.P* Occupational Therapy Assistant

Arts & Humanities
- 176 Digital Design
- 376.2 Digital Graphic Design
- 114.2 Ethnic & Diversity Studies
- 085 General Education
- 127 Film Worker
- 125 Technical Theatre (diploma)

Business
- 217 Accounting
- 216.1 Business Management
- 329.3 Court Reporting
- 221 E-commerce
- 407.2 Foodservice Management
- 491.1 Land Administration
- 406.2 Lodging & Recreation Management
- 605.3 Paralegal
- 718 Private Pilot

Education, Social & Behavioral Sciences & Human Services
- 912.3 American Sign Language
- 655.3 Child Care
- 623.4 Child Development
- 624.4 Children With Special Needs
- 414.1 Drug & Alcohol (diploma)
- 654.3 Early Childhood Director Core Certificate (diploma)

Health
- 533.P* Paramedic
- 518.P* Pharmacy Technician
- 628.P* Physical Therapist Assistant
- 556.P* Radiation Therapy Technology
- 558.P* Radiologic Technology
- 540.P* Respiratory Therapy
- 530.P* Surgical Technologist

Science, Technology, Engineering & Mathematics
- 530 P* Electrical Engineering
- 590.P* Engineering Science
- 628.P* Engineering Technology
- 422.1 Computer-Aided Design & Drafting Technology
- 784 Cybersecurity
- 503.C Computer Information Systems
- 300.1 Electronic Engineering Technology
- 609.1* Information Technology Support
- 801.1 Visiting Student

Certificate and diploma programs concentrate on specific skills, usually without general education coursework. Many students begin in certificate programs to move into the job market then continue their studies in a degree program in the same field. Most of the certificate programs require 15 to 30 college credits and can be completed in four to 12 months of full-time study (longer for part-time students).

Science, Technology, Engineering & Mathematics (STEM)
- 234 Administrative Computer Specialist
- 717.1 Basic Computer-Aided Drafting
- 417.3 Biotechnology
- 277.1 Civil Engineering Technology
- 233 Computer Forensics
- 784 Cybersecurity
- 490 Green & Sustainable Building Design
- 242.5 Information Technology Support
- 706.2 Machine Technician
- 723 Mechatronics Technology
- 787 Mobile Applications (APPS) Software Development
- 104.3 Multimedia Web Programming
- 709 Nanofabrication Technology
- 243.4 Software Development

Trades
- 108 Multimedia Programming, Simulation & Gaming
- 454 Nanotechnology
- 041.7 Physics
- 780.3 Software Development
- 507.3 ASE/P/SET/CAP Manufacturer Automotive Technology
- 349.3 Automotive Technology
- 515.2 Building Construction Estimating Technology Supervision
- 441.1 Building Construction Technology
- 708.2 Electrical Distribution Technology Facilities Maintenance Technology
- 313.3 Heating & Air Conditioning Technology
- 722 Mechatronics Technology
- 379.7 Sheet Metal Apprenticeship
- 731.1 Stationary Operating Engineer
- 316.4 Welding Technology

UP University Parallel Program
- These seven programs are often used as templates when working with a counselor to design a transfer strategy for specialized programs at other colleges and universities.

* Applicants to these programs will be admitted to OED—General Studies. These programs have specific requirements for admission and students must make a separate application. Contact your campus regarding those processes and requirements.
ENROLLMENT SERVICES
REGISTER & PAY EARLY

ADMISSIONS • REGISTRATION • ADVISING • FINANCIAL AID • STUDENT ACCOUNTS
Make sure you get the classes you want. Courses fill quickly and offerings are limited. All these offices are open to serve you at the times listed below (Last advising hours begin 1/2 hour before closing):

<table>
<thead>
<tr>
<th>All 4 Campuses Standard Enrollment Services Hours</th>
<th>Monday–Thursday</th>
<th>8:00AM–7:00PM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Friday</td>
<td>8:00AM–4:00PM</td>
<td></td>
</tr>
<tr>
<td>Second Saturday of each month</td>
<td>10:00AM–1:00PM</td>
<td></td>
</tr>
</tbody>
</table>

| Extended Hours for all Campuses                | Saturday, May 21, 2016 | 10:00AM–1:00PM |
|                                                | Saturday, June 4, 2016  | 10:00AM–1:00PM |
| Memorial Day observance: May 28–30, 2016       | CCAC offices closed     |              |
| Independence Day: July 2–4, 2016               | CCAC offices closed     |              |

WAYS TO REGISTER—IN-PERSON, ONLINE VIA THE CCAC WEBSITE, BY MAIL OR BY FAX

TO EMAIL OR FAX REGISTRATION:
Allegheny: al-registration@ccac.edu or 412.237.4581
Boyce: bo-registration@ccac.edu or 724.325.6797
North: no-registration@ccac.edu or 412.369.4157
South: so-registration@ccac.edu or 412.469.6371

CCAC encourages eligible students to register and pay tuition/fees by using CCAC Central e-Services. CCAC Central e-Services will confirm schedule and payment immediately.

If you choose to mail, email or fax your registration form, please include a photocopy of your CCAC ID card or a copy of your current driver’s license.

WAYS TO DROP, ADD OR WITHDRAW
Students who present a valid photo ID may drop, add, or withdraw in the following ways:
• In person at the Campus Registration Office or Center during published business hours.
• By sending the completed Drop/Add form and a copy of a valid photo ID to the campus registration office by postal mail, email or fax.

Students receiving financial assistance through grants, loans, and veterans benefits should consult with the Financial Aid or Veterans Office before dropping, adding, or withdrawing from class. Students’ aid may be impacted by a change to the total number of credits in which the student is enrolled, or by receiving a W grade in one or more classes.

Drop/Add forms sent by postal mail, email, or fax must be received by close of business before the deadline to drop with either 100% or 75% refund, or the deadline to withdraw. Standard college refund procedures will apply.

For enrollment service hours at the college centers, call the center where you plan to complete the registration process. Please refer to the telephone numbers on the inside back cover. Online registration through CCAC Central e-Services is available until the start of the semester. You can also drop classes online (before the start date listed on your schedule) by visiting my.ccac.edu. Students may not drop developmental classes online.

DEADLINE TO DROP CLASSES WITH A FULL DROP OF CHARGES FOR SUMMER 2016:

| Classes beginning on May 23, 2016 | In-person May 21, 2016 (before 1 PM) | Online May 22, 2016 |
| Classes beginning on June 6, 2016 | In-person June 4, 2016               | Online June 5, 2016 |
| Classes beginning on July 5, 2016 | In-person July 1, 2016 (before 4 PM) | Online July 4, 2016 |

COLLEGE POLICIES CONCERNING WITHDRAWAL
It is important to be aware of college policy concerning withdrawal from all or some of your classes. Notifying the instructor of your intention to withdraw does not count as an official withdrawal from a course. You must complete a withdrawal form at the Registration and Advisement office at your campus or college center. Students can download and print this individual form online at cac.edu/advisement-forms, but must process it at a campus or center. Failure to process this form at the Registration office may result in “F” grades and have financial consequences.

ATTENDANCE REPORTING
The Commonwealth of Pennsylvania requires community colleges to report on non-attending students during the first 20 percent of the term. Non-attending students may be dropped from class(es) and forfeit the tuition and fees for class(es) and their financial aid may be adjusted.
I understand that once I register I become responsible for all charges incurred, unless I drop during the designated refund periods.

I also understand that the college is extending credit to me and permitting me to register, enroll and attend classes in return for my promise to pay the college all tuition and fees incurred as a result of my registration and that such extension of credit constitutes an educational loan or educational benefit that is non-dischargeable under Section 523 (a)(8) of the United States Bankruptcy Code.

The college is subject to provisions of and complies with the Family Educational Rights and Privacy Act of 1974. A statement of the college policy can be found in the student handbook and college catalog (online at ccac.edu).
ENROLLMENT SERVICES

STUDENT IDENTIFICATION
Upon admission to CCAC, students will receive a unique student ID number that will be required to secure a campus student ID card. Every student needs to present some form of photo ID and his/her class schedule to the campus ID area. In addition, students will use their student ID number to secure a network ID and password for CCAC Central (e-services) and student email.

Express Registration
Are you eligible to enroll online* via CCAC Central? Are you planning to take more than one class?
You will find Express Registration to be a quick and easy way to register for classes. After you log on to CCAC Central, go to the Students Menu and select “Express Registration”. Enter the Express Code shown in the catalog for each course you wish to take. Enter all the codes for your full schedule at the same time and click submit. If you are not able to enroll for one or more of the sections (closed, missing pre-requisites, etc.), warnings will appear and you can adjust the schedule before completing your registration. Don’t forget to complete the process by choosing “register” for each section and submitting your full schedule!

* The following students must register by seeing an academic advisor, so may not enroll online: new students; students taking developmental coursework; students on probation or suspension appeal; students who will graduate at the end of the term.

DO YOU PLAN TO TRANSFER?
At CCAC, your success is our priority. In fact, CCAC students have transferred credits to 520 colleges and universities. That is why we’re committed to working closely with students who plan to transfer from CCAC to four-year institutions. CCAC offers a variety of classes that can fulfill general education and major requirements at four-year colleges and universities and may even guarantee junior status at the transfer institution of your choice.

However, if you plan to transfer, you must choose your classes wisely. Four-year schools may change their curriculum requirements—which can result in a loss of credits. You must work with a CCAC counselor early to ensure that your CCAC classes will transfer to the four-year school of your choice.

CCAC has entered into 125 articulation agreements with 29 regional colleges and universities. These agreements provide a blueprint for students who wish to transfer with little or no loss of credit. Students should begin to take a comprehensive view of transfer by viewing these agreements shown in their entirety at ccac.edu/articulation.

INSTITUTIONS WITH CCAC AGREEMENTS INCLUDE:
Argosy University, Art Institute of Pittsburgh, Allentown College of St. Francis DeSales, Bethany College, California University of Pennsylvania, Capella University, Carlow University, Chatham University, Clarion University of Pennsylvania, Colorado State University (Global Campus), Drexel University, Duquesne University, Edinboro University of Pennsylvania, Gannon University, Grand Canyon College, Indiana University of Pennsylvania, Kaplan University, LaRoche College, Lincoln University, Penn State University, Commonwealth Campuses (including Greater Allegheny, New Kensington, Beaver & Fayette), Pennsylvania College of Technology, Point Park University, Robert Morris University, Salem International University, Slippery Rock University of Pennsylvania, Strayer University, University of Pittsburgh, University of Phoenix, Washington & Jefferson College, West Liberty University and Wheeling Jesuit University.

PENNSYLVANIA TRANSFER & ARTICULATION AGREEMENTS
http://www.patrac.org/ Statewide Program-to-Program (P2P)
Agreements allow students who graduate with specified associate degrees to transfer as juniors into bachelor degrees in similar fields of study at the PASSHE (Pennsylvania System of Higher Education) universities as well as certain private institutions.
P2P agreements serve as pathways into undergraduate majors at those institutions and help minimize loss of credits when transferring from one institution to another.
Currently CCAC’s programs in Biology, Business (University Parallel), Chemistry, Criminal Justice and Criminology, Early Education and Child Development, Physics, Psychology and Social Work are part of this statewide agreement. Review these programs in the CCAC catalog for specific program information.

Get on the right track, call a CCAC counselor.
Allegheny: 412.237.2565
Boyce: 724.325.6657
North: 412.369.3614
South: 412.469.6216
IMPORTANT PAYMENT INFORMATION

PAYMENT DATES FOR SUMMER 2016

<table>
<thead>
<tr>
<th>Classes start</th>
<th>Payment Due:</th>
<th>Registration will be accepted after the payment due dates; payment is due at the time of registration.</th>
</tr>
</thead>
<tbody>
<tr>
<td>May 23</td>
<td>May 18, 2016 (Wed.)</td>
<td></td>
</tr>
<tr>
<td>June 6</td>
<td>June 1, 2016 (Wed.)</td>
<td></td>
</tr>
<tr>
<td>July 5</td>
<td>June 29, 2016 (Wed.)</td>
<td></td>
</tr>
</tbody>
</table>

HOW TO PAY

The college tries to make paying your tuition and fees as convenient as possible. In addition to the options listed on this page, you may also pay your tuition by phone using Visa, MasterCard or Discover. To pay by phone, call the Student Accounts offices during normal office hours.

ALLEGHENY CAMPUS............412.237.4641
BOYCE CAMPUS...............724.325.6689
NORTH CAMPUS...............412.369.3670
SOUTH CAMPUS...............412.469.6250

PAYMENT OPTIONS

1. Web Payments:
   Visit CCAC Central e-Services on ccaccentral.ccac.edu to make a credit card payment online. Payment must be made in full on or before the deadline date when paying online.

2. Cash: Pay by cash in person only. Do NOT mail cash.

3. Checks: Make all checks payable to CCAC.
   - Postdated checks are not accepted.
   - Stopped payments on checks are not an official “drop” or “withdrawal” from the college.
   - The college charges $25 for all returned checks.
   - If you write a check that is returned, your check writing privileges at the college may be revoked.
   - CCAC requires the student’s college ID to be on all checks since it is your college identification number.
   - Students who have been notified by the college that their checks have been returned must pay by cash, money order, cashier’s check, Visa, MasterCard or Discover.
   - The college places a hold of 15 calendar days on all check payments prior to releasing refunds and may restrict further services.

4. Credit Cards: Visa, MasterCard & Discover
   - Accepted online and in person with card or by calling your campus Student Accounts office during normal office hours.
   - In accordance with regulations, registrations that are paid by credit card may be refunded back to your card if you drop a course or the college cancels a course.

5. Tuition Payment Plan
   - You must have a minimum balance due of $150.00.
   - The plan involves two installments.
   - Students must arrange for a payment plan at a campus Student Accounts office.
   - The student must sign a payment plan statement.
   - Only the student can sign up for the payment plan.
   - You must pay 50% of tuition and fees prior to the start of classes and sign a payment plan statement. The balance is due in one remaining installment after the start of classes.
   - A $15.00 late payment charge will be added each time your account is not paid by your due date.

   - If you fail to make payments as scheduled, the College has the right to demand the amount in full.
   - If you default on your payments, you may not be able to obtain this payment plan next semester.
   - The tuition payment plan is available through the first week of the term.
   - Should a change in your registration occur, please contact the Student Accounts office to ensure your payment plan remains current.
   - Payment plan is subject to change.

6. Third-party Sponsor or Company Check:
   Your company or organization may pay your tuition/fees to the college by two methods:
   1. A company check for the amount due made payable to CCAC.
   2. Third-party authorization contract.
      - Blank third-party authorization forms for your sponsor to sign are available when you register by calling the Student Accounts office on your campus or by visiting ccac.edu.
      - Any agreements between the student and the company/agency have no bearing on this contract.
      - All sponsorship forms or company checks must be in the Student Accounts office by your tuition due date.
      - You need a new sponsorship form each semester.
      - If for some reason your sponsor fails to pay your charges upon receipt of the bill, you will become responsible for all charges.
      - If your sponsor pays for books, your books must be purchased within the established bookstore charge period (page 5) of the term in which you are enrolled. If you have a late start, see your Student Accounts office.
      - Online Learning course material is provided through the Allegheny Campus bookstore.

7. Loans:
   - Electronically transferred loan monies (EFT) will be automatically credited to the student’s account.
   - Students for whom CCAC received a loan check must visit the Student Accounts office to endorse the check.
   - Any credit amount due to the student will be refunded in accordance with Federal guidelines. The college does not release loan or financial aid refunds until after the beginning of the term. (See page 5 for more information.)

Some CCAC centers (Braddock Hills, Homewood-Brushton, Washington Center) do not accept cash or credit cards. Payment must be made with check or money order only.

See ccac.edu/payment-options for more information.
**TUITION INFORMATION FOR SUMMER 2016**

### TUITION

<table>
<thead>
<tr>
<th>Tuition Payment</th>
<th>Tuition per credit</th>
<th>Flat Rate Tuition 12–18 credits*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Allegheny County residents</td>
<td>$104.75</td>
<td>$1,571.25</td>
</tr>
<tr>
<td>Residents of other Pennsylvania counties</td>
<td>$209.50</td>
<td>$3,142.50</td>
</tr>
<tr>
<td>Out-of-state and international residents</td>
<td>$314.25</td>
<td>$4,713.75</td>
</tr>
</tbody>
</table>

* Loads of 19 credits or more is the flat rate plus the prevailing per-credit rate times the number of credits over 18 credits.

**EXAMPLE:**
21 credits for an Allegheny County resident would be $1,571.25 (flat rate) + $314.25 [$104.75 (per credit rate) x 3 (credits over 18)] = $1,885.50

### CAPITAL FEE

<table>
<thead>
<tr>
<th>Full time: 12 or more credits</th>
<th>Part time: 1–11 credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Residents of Pennsylvania counties other than Allegheny County</td>
<td>$78.00</td>
</tr>
<tr>
<td>Out-of-state and international</td>
<td>$78.00</td>
</tr>
</tbody>
</table>

### Related Fees

- Accident insurance/semester** ** $5.40
- National Council Licensure Examination (NCLEX) fee NRN-250 $300.00 /semester
- Check stop payment and reissue fee*** $20.00/check
- College fee Full-time/semester (12 or more credits) $50.40
- Part-time/credit (1–11 credits) $4.20/credit
- Credit by exam fee**** * $104.75
- Health Careers course fee $20.00/credit
- Online Learning fee** $20.00/semester
- Graduation fee**** $20.00
- Lab fee/course amounts vary per course
- Malpractice insurance/semester** ** $7.70
- Matriculation fee*** $25.00
- Return check fee***** $25.00
- Student Service fee $4.25/credit
- Technology fee $22.25/credit
- Transcript (official) fee***** $4.00/per copy

** Nonrefundable fees after start of the term (see academic calendar).
*** The matriculation fee is charged one time only for each student regardless of the number of semesters registered. This fee is nonrefundable.
**** Nonrefundable.
***** Nonrefundable.

### NOTE: TUITION AND FEES SUBJECT TO CHANGE.

Payment may be defined as financial aid (grants, scholarships and anticipated loans), self-payment in full, tuition payment plan or sponsorship.

---

### REGISTER & PAY

If you are a current student in good academic and financial standing, you can register for your classes on the web. To access CCAC’s secure registration system, simply log onto my.ccac.edu and follow the prompts.

Use the “course search” in CCAC Central to find the course(s) you need this term.

To complete the online registration process, you must have a valid user ID and password (see ccac.edu/netid). Students in developmental coursework (courses whose numbers begin with “0”) must register with the help of an academic advisor.

Students in health programs (and some technical programs) must register through their departments.

### SATISFYING PAYMENT (Summer 2016)

**Once you register for classes you are responsible for all charges incurred, unless you drop during the designated refund period(s).** Financial aid (grants, scholarships and anticipated loans) and sponsorship may not cover the full amount. The student then becomes responsible for the balance.

To see if your financial aid has been applied to your account, check your account summary on CCAC Central. You will need a valid user ID and password to access your account. If you have questions about financial aid, call your campus Financial Aid office.

Students often have a combination of funding and may be unsure of the amount that they must pay for their tuition and fees. If unsure of the amount, they should check with a student accounts staff member for that dollar amount.

If you decide not to attend after you have registered, you must drop your classes or you will incur charges for which you will be held responsible.

### STUDENT ACCOUNT REFUND INFORMATION

Monies returned to the student other than loans and financial aid (grants and scholarships) are considered student account refunds. Please see page 5 for financial aid refund and book charge policy. The college issues refunds on approved credit balances Monday through Friday. Students may take advantage of CCAC eRefund. It’s the fast, free and easy way to get your financial aid or student account refund. Students who pay with a credit card may be issued a credit on that card. See page 5 for more details.

CONTINUED ON NEXT PAGE
STUDENT ACCOUNT REFUND INFORMATION

Checks are mailed to the student's current address on file. Students are responsible for ensuring that their name, address or other personal information is up to date each semester. Students using CCAC eRefund must update their addresses and personal information with both the college and CCAC eRefund site.

The college places a hold of 15 calendar days on all check payments prior to issuing refunds.

The loan and grant refunds are released to students within 14 days after the funds are credited to your student account. Loans and financial aid (grants and scholarships) are issued in separate refunds.

Any student wishing to place a stop payment on their student refund check will be charged a $20 stop payment fee for a check greater than $25. The fee will be automatically deducted from their replacement check, provided the original check has not been cashed. There are no exceptions or appeals for this fee.

The replacement check will not be re-issued until 14 calendar days after the bank confirms the stop payment.

RESIDENCY STATUS

Residency (domicile*) requirements have been established for the purpose of assessing tuition and related fees. The requirements are set forth as follows:

* " Domicile will mean a person's true, fixed and permanent home, to which a person intends to return. A residence established for the purpose of attending an educational institution or qualifying for resident status for tuition purposes will not of itself constitute domicile. The residency of a dependent student (as defined by the IRS) is determined by the parent's domicile."

Students moving to Pennsylvania from outside the state must reside in Pennsylvania for one year before becoming eligible for in-state tuition and reside in the county by the first day of the term. Students must substantiate changes in status by appropriate documentation.

Exceptions may be made for students moving to Allegheny County if they can demonstrate an intent to remain in Allegheny County for purposes other than attending school. These exceptions may include a move for full-time employment and will require a written statement from the student’s employer (or the parent’s employer if the student is a dependent). All documentation for proof of residency must be received before the start of the term.

A student may also need to show financial independence as part of establishing residency.

ATTENTION – Veterans and their Dependents!

The Community College of Allegheny County provides in-state, in-county tuition rates to all military member/veterans of the U.S. Armed Forces and their dependents.

Students who are out of state who wish to claim in-state, in-county status via military, veteran or dependent status must verify their affiliation with U.S. Armed Services with the Military and Veterans Services office on their campus.

FINAL TRANSCRIPTS

1. A final high school transcript and/or a copy of your GED test scores are required.
2. A transcript from any college, university or other post-high school institution of learning that you have attended is required. This document can be obtained by contacting the school and requesting that an official transcript be sent directly to the Admissions office at the CCAC campus you plan to attend. For advanced standing credit, complete an application for transfer credit and submit to the Admissions office at the CCAC campus you plan to attend. The Application for Credit Transfer is available at ccac.edu/advanced placement. Students with prior learning may investigate CLEP testing (page 15).
3. High school transcripts may be obtained by contacting your high school and requesting that a final copy of your transcript be sent to the Admissions office at the campus you plan to attend. Please refer to the inside back cover of this publication for addresses.
4. If you do not have a copy of your GED test scores, contact the Department of Education of the state in which you were tested. Students who tested in Pennsylvania should write to:

Commonwealth Diploma Program, Pennsylvania Department of Education, 333 Market Street, Harrisburg, PA 17126-0333

Note: Transcripts are required for applications to all programs. They become the property of CCAC and will not be returned.
DUAL ENROLLMENT
The Dual Enrollment program at CCAC provides high school juniors and seniors with the opportunity to take college courses while still in high school. Students wishing to take advantage of the Dual Enrollment program must have the approval of their high school official and their parents. The number of courses, as well as the type of courses taken, will be determined through a joint approval process. In some cases, students may be required to take the CCAC placement tests before being approved to take certain courses at the college.

CLEP (COLLEGE LEVEL EXAMINATION PROGRAM)
CLEP tests provide opportunities for adults to earn college credit at CCAC and other institutions for knowledge attained through nontraditional sources. The tests are offered at centers nationwide. You can learn more about the tests at www.clep.collegboard.org. For information about CCAC’s CLEP Credit-Granting Policy, please visit ccac.edu/advanced-placement. If a student has registered for a course, then earns CLEP credit for that course, it is the student’s responsibility to drop the course within the designated refund period.

CROSS-REGISTRATION
As a full-time student, you may, under certain circumstances, cross-register for courses at other universities/colleges in the area. These include: Carlow University, Carnegie Mellon University, Chatham University, Duquesne University, La Roche College, Point Park University, Robert Morris University and the University of Pittsburgh. Detailed information is available in the Registration and Advisement offices. This option is not available during the summer term.

GRADUATING FROM CCAC
If you plan to graduate at the end of the semester, you should fill out an application for graduation when you register or no later than February 26 for May 19, 2016 graduation. All students applying for graduation must meet with an academic advisor.

There is a $20 nonrefundable application fee that must be submitted with your application if you want to receive a diploma and/or attend commencement ceremonies. If you do not want a diploma or do not wish to participate in the commencement program, you can apply for the credential(s) at no cost up until May. You can pick up a graduation application at the campus Registration and Advisement offices.

STUDENT SUCCESS COACHES
CCAC student success coaches provide for students’ essential learning support services and serve as an individual mentor to students, monitor the progress of students and provide the encouragement and support necessary to enable students to complete their course of study at CCAC.

HELP FOR CAREER PROGRAM STUDENTS
Are you a career program student—someone who plans to enter the workforce directly after graduating with a certificate or associate degree? Did you know that college staff members are here to help you fulfill your goals?

The Perkins Career and Technical Education Grant is a federally-funded program designed to help career program students boost grade point averages, graduate and find employment. Grant services include study groups, early intervention and workshops on study skills, time management and job searching skills. Support for students with special needs and referrals to other existing college academic resources are also provided as needed. The Perkins Grant provides support for students pursuing careers in all areas, including those considered nontraditional. To find out how the Perkins Grant staff can help you, visit ccac.edu/perkins. The Perkins Grant does not provide funds directly to students, but instead provides funds for college programs designed to help CTE students succeed.

PAT BUS SCHEDULE CHANGES
The Port Authority of Allegheny County continues to change and/or eliminate some bus routes. If you take the bus or “T” remember that you may have to schedule your classes around the new route changes. Consult the Port Authority website at www.portauthority.org for additional information.
IMPORTANT INFORMATION FOR STUDENTS

MyCCAC PORTAL • Visit MyCCAC on the web at my.ccac.edu.

The MyCCAC portal provides access to college-wide information through a centralized, mobile-friendly online system. A CCAC NetID and password are required to gain access to MyCCAC. Once logged in, students have access to:

- Blackboard coursework
- CCAC academic email (required for all CCAC email communications)
- CCAC Central e-Services (view official grades, request transcripts, access financial aid, make payments, and much more)
- Course search & registration
- Academic deadlines, college events and other important college information

THE CCAC VETERANS SERVICES CENTER IS HERE FOR YOU

CCAC’s Veterans Services Center provides personalized and caring support to CCAC student veterans during their transition from military service to college life. We help our veterans navigate CCAC and provide assistance with VA educational benefits, as well as give veteran students the tools to succeed academically and personally. We value the skills, assets and experiences veterans bring to the CCAC community and are committed to helping them achieve their educational goals. The VSC also increases campus awareness of student veteran issues, advises the student veterans club and fosters a sense of camaraderie, community and well-being for all student veterans on campus.

Services provided include, but are not limited to:

- Providing information on VA benefits specific to a student’s situation
- Referring students to the appropriate campus or community resources
- Helping students navigate the campus and all the various departments
- Sending out invitations to social events and workshops throughout the year
- Connecting students with other student veterans at CCAC
- Helping students make the transition from military to student life at CCAC

New and returning students must complete a CCAC Veterans Certification Request form each semester; it is available in the CCAC Veteran’s Service Center or online at ccac.edu/veterans.

Please contact us at 412.237.6503 or at veteranservices@ccac.edu.

JOB PLACEMENT & CAREER SERVICES

Job Placement and Career Services delivers quality career and job placement assistance to students and alumni, assisting them in all phases of their career path from discovery to finding their place in the job market.

As part of the learning-centered environment, Job Placement and Career Services provides students with a four-point, career-planning path to success. Students and alumni may:

Discover a Career Path
- Identify career goals and objectives
- Prepare for job shadowing

Learn Resume Building & Job Interview Skills
- Receive individual and group assistance
- Use print and online resources

For more information, visit ccac.edu/job-placement.

Gain Work Experience
- Prepare for internships
- Explore work-study employment
- Find co-operative education coursework

Get Job Placement Assistance
- Attend on-campus job fairs and other recruiting events
- Access exclusive student/alumni job website at www.collegecentral.com/ccac

SENIOR CITIZEN’S TUITION PROGRAM

Senior citizens who are Allegheny County residents and are 65 years of age or older by the start of classes may take two credit classes at no tuition cost but may be charged regular college fees. Senior citizens must purchase all books and materials and must supply a photocopy of a driver’s license or birth certificate or other appropriate documents.

CCAC will only process registrations for senior citizens during the week prior to the start of the term. Seniors who wish to register earlier must pay tuition and fees. They may be required to take placement tests for certain courses and are always encouraged to meet with an academic advisor when selecting classes. Senior citizens may choose to take course(s) for a grade or on a non-graded basis. The Senior Citizen Waiver does not apply to repeated courses.
IMPORTANT INFORMATION FOR STUDENTS

INTERNATIONAL STUDENTS
To apply for admission to CCAC, international students must submit the following:

1. A CCAC admissions application completed and signed by you, the applicant.
2. Official high school transcripts, with proof of graduation, translated into English.
3. Official transcripts from all colleges and universities you have attended in the US.
4. Official transcripts from non-US colleges or universities you have attended translated into English and evaluated for US coursework.
5. An original and notarized Affidavit of Support completed by the individual who will be paying for tuition, fees, books and living expenses.
6. Four months of bank statements that document your sponsor’s ability to cover CCAC’s educational costs.
7. A minimum TOEFL paper score of 347, computerized score of 63 or internet score of 19.
8. Transfer report (for students transferring to CCAC from another US college or university)

All forms are available online at ccac.edu/international.

Send all materials to: International Student Office, SSC120, Community College of Allegheny County
Allegheny Campus, 808 Ridge Avenue, Pittsburgh, PA 15212-6097

Once all documents are approved, an acceptance letter will be issued from the college and you will be sent an I-20 A/B. Students will not be considered for admission until all documents are on file.

Waitlisting—now available for CCAC students!
You are able to join a waitlist for most course sections if the section is full. You can elect to waitlist for a section when attempting to register in person or online for a full section. Some important information to know:

• You may not request to be waitlisted in more than one section of the same course.
• If a space opens in the course, the first person on the waitlist will receive an email (Sent to your CCAC email box) notifying that a spot has been reserved. You will have until midnight on the following day to enroll in the course; if no action is taken by that deadline, your spot on the waitlist will expire and the next student on the list will be notified with permission to enroll.
• You can manage your waitlist online in CCAC Central. You can remove yourself from the waitlist or enroll in the section when and if given permission to enroll.
• If you are not eligible to register online (new students, probation/suspension, etc.), you will need to email or visit one of the registration offices to make changes to the waitlist or enroll when notified and given permission.

ACT 48 One CCAC credit is equivalent to 30 continuing education (CE) hours for Act 48
CCAC offers convenient and affordable credit classes for certified teachers. For information, visit ccac.edu/48

BOOKSTORE INFORMATION

<table>
<thead>
<tr>
<th>BOOKSTORE PHONE NUMBERS</th>
<th>BOOKSTORE HOURS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Allegheny</td>
<td>412.237.2532</td>
</tr>
<tr>
<td>Boyce</td>
<td>724.325.6612</td>
</tr>
<tr>
<td>North</td>
<td>412.369.3694</td>
</tr>
<tr>
<td>South</td>
<td>412.469.6261</td>
</tr>
<tr>
<td>West Hills</td>
<td>412.788.7524</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Mon thru Thurs</th>
<th>Fri</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:30AM–6:30PM</td>
<td>8:30AM–4:00PM</td>
</tr>
<tr>
<td>8:30AM–6:00PM</td>
<td>8:30AM–4:00PM</td>
</tr>
<tr>
<td>8:30AM–6:00PM</td>
<td>8:30AM–4:00PM</td>
</tr>
<tr>
<td>8:30AM–6:00PM</td>
<td>8:30AM–4:00PM</td>
</tr>
<tr>
<td>8:00AM–6:30PM</td>
<td>9:00AM–1:00PM</td>
</tr>
</tbody>
</table>

All stores offer extended daily hours, Saturday hours and some off-site hours throughout the semester.

Check with your campus bookstore.

Pay by MasterCard, Visa, Discover or American Express; cash or check (Made payable to “Follett” is also accepted). Financial Aid may be used during the bookstore charging period. Please keep all sales receipts.

Order textbooks online by visiting ccacshop.com.
CCAC HONORS PROGRAM

The CCAC Honors Program unites academically outstanding students and faculty in the pursuit of academic excellence and fosters the development of scholarship, communication, cultural literacy and leadership skills in the students. Students earn Honors credits through classes limited to Honors students and/or by entering into an Honors contract with a professor in a course in their program in which they complete an enrichment project of their design while being mentored by the professor. Honors students further enhance their academic experiences through participation in Honors activities and by attending regional and national Honors conferences. Honors students earning 15 Honors credits are awarded an Honors degree.

Benefits of Honors Program Membership:
• The opportunity to take Honors classes and to participate in Honors activities and enrichments
• The opportunity to direct your own learning and engage in independent inquiry
• A personal one-on-one working relationship with professor(s)
• Honors designation on your academic transcript
• Honors scholarship in-county tuition reimbursement for successfully-completed CCAC Honors and Honors contract courses not fully funded by another source
• Enhanced probability of acceptance by transfer schools and increased opportunities for scholarships from those institutions
• The opportunity to participate in regional and national Honors conferences and engage in local cultural and intellectual activities
• The opportunity to apply for the Leadership in Honors Scholarship, a full tuition and fees scholarship for one academic year

Interested students should submit an application, available at ccac.edu/honors or from the CCAC Honors program office at CCAC–South Campus, Room B-409, 1750 Clairton Road, West Mifflin, PA 15122. Find more information at 412.469.4303, by emailing honorsprogram@ccac.edu or online at ccac.edu/honors.
### ACC Accounting

**ACC-100 Introduction to Accounting**
This course is an introduction to the fundamental concepts, procedures, and terminology of Accounting. It will address the basic principles of the accounting cycle such as analyzing transactions, journal entries, worksheets, adjustments, and closing entries. Bank reconciliations and petty cash processes will also be reviewed. It is aimed toward students who have not had previous exposure to accounting principles. Students who have passed ACC-104 or higher may not schedule this course.

**ACC-104 Financial Accounting** • PREREQUISITE(S): Eligibility for MAT 090 or completion of ACC 100 with a C grade or higher.
This course is an introduction to the basic concepts of financial accounting, including the preparation, interpretation and utilization of financial statement data. The basic principles and concepts governing the recording and reporting of accounting data, including the system of debits and credits will be covered. The course will also cover receivables, notes, inventory, depreciation, plant assets, current and long-term liabilities, as well as corporate accounting topics.

**ACC-120 Computer Applications in Accounting** • PREREQUISITE(S): ACC104 and CIT100
A course which teaches the use of the computer as a tool for the accountant. Students learn practical and creative uses of an integrated general ledger package and spreadsheets as they are used by accountants. Emphasis is on linking accounting theory and practice.

**ACC-201 Intermediate Accounting 1** • PREREQUISITE(S): ACC203
A study of GAAP (Generally Accepted Accounting Principles) as related to financial statements. The course deals with current assets, liabilities, plant assets, and intangibles.

**ACC-203 Managerial Accounting** • PREREQUISITE(S): ACC104
Utilization of accounting information for purposes of managerial control and decision-making. Topics include an analysis of financial statements and accounting reports, cash flow analysis, cost-volume-profit analysis, cost accounting concepts, and budgeting as tools for planning control.

**ACC-210 Payroll and Tax Accounting**
This course is a survey of taxing practices as they affect individuals, partnerships and corporations. Emphasis is on payroll and income taxes at state and federal levels.

**ACC-211 Principles of Tax 1** • PREREQUISITE(S): ACC104
This course provides an analysis of the federal income tax structure and procedures. The emphasis is on the federal law as it applies to individuals.

---

**SUMMER 2016 CREDIT COURSE SCHEDULE**

<table>
<thead>
<tr>
<th>DAYS OF THE WEEK LEGEND</th>
<th>CODE#</th>
<th>CRSE NO</th>
</tr>
</thead>
<tbody>
<tr>
<td>M Monday</td>
<td>ACC-100</td>
<td>BIN1</td>
</tr>
<tr>
<td>T Tuesday</td>
<td>ACC-100</td>
<td>NIN01</td>
</tr>
<tr>
<td>W Wednesday</td>
<td>ACC-100</td>
<td>WC01</td>
</tr>
<tr>
<td>R Thursday</td>
<td>ACC-100</td>
<td>WC01</td>
</tr>
<tr>
<td>F Friday</td>
<td>ACC-100</td>
<td>WC01</td>
</tr>
<tr>
<td>S Saturday</td>
<td>ACC-100</td>
<td>WC01</td>
</tr>
<tr>
<td>U Sunday</td>
<td>ACC-100</td>
<td>WC01</td>
</tr>
</tbody>
</table>

**SECTION NUMBER PREFIXES**

<table>
<thead>
<tr>
<th>LOCATION</th>
<th>INSTRUCTOR</th>
<th>NUM WKS</th>
<th>BEGINS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Allegheny Campus</td>
<td>Wehrle</td>
<td>10</td>
<td>May 23</td>
</tr>
<tr>
<td>Allegheny Campus</td>
<td>Berardino</td>
<td>10</td>
<td>May 23</td>
</tr>
<tr>
<td>Allegheny Campus</td>
<td>Serafin</td>
<td>6</td>
<td>May 23</td>
</tr>
<tr>
<td>Allegheny Campus</td>
<td>Serafin</td>
<td>6</td>
<td>May 23</td>
</tr>
<tr>
<td>Allegheny Campus</td>
<td>Serafin</td>
<td>6</td>
<td>May 23</td>
</tr>
<tr>
<td>Allegheny Campus</td>
<td>Serafin</td>
<td>6</td>
<td>May 23</td>
</tr>
<tr>
<td>Allegheny Campus</td>
<td>Serafin</td>
<td>6</td>
<td>May 23</td>
</tr>
</tbody>
</table>

**NOTE:** L = Lab  C = Clinical  H = Hybrid (formerly web-enhanced)

---

Please note: Room assignments will be available at the time of registration and will print on the student schedule.

CCAC reserves the right to cancel classes due to low enrollment.

CCAC always regrets this disruption to students; college staff will work with students in cancelled classes to find alternative classes.

For the most up-to-date information on schedule changes and additions, visit ccac.edu.
ART 106 Basic Life Support

This course in Basic Life Support (BLS) for Health Care Providers includes background information about heart disease, risk factors, prudent heart living and heart and lung function. One- and two-rescuer adult cardiopulmonary resuscitation (CPR), foreign body airway obstruction management, and pediatric resuscitation are also taught. Students receive certification from the American Heart Association. This course requires a per credit health career fee; check the tuition and fee schedule for the current rate.

* (0298321) ALH 106 BC45 09:00AM-03:00PM MW Boyce Campus Faculty 2 May 23
* (0298322) ALH 106 BC46 09:00AM-03:00PM TR Boyce Campus Faculty 2 May 23
* (0298419) ALH 106 SC41 09:00AM-05:00PM S South Campus Faculty 1 Jul 30
* (0298419) ALH 106 SC41 09:00AM-02:30PM U South Campus Faculty 1 Jul 30
* (0298323) ALH 106 SC47 09:00AM-05:00PM S South Campus Faculty 1 Jun 25
* (0298323) ALH 106 SC47 09:00AM-02:30PM U South Campus Faculty 1 Jun 25
* (0298324) ALH 106 SC48 09:00AM-05:00PM S South Campus Faculty 1 Jun 11
* (0298324) ALH 106 SC48 09:00AM-02:30PM U South Campus Faculty 1 Jun 11

ANT 140 Medical Terminology

This course is a basic study of the professional language of medicine. It is designed to include word construction, pronunciation, spelling, definition and use of terms related to all areas of medical science, hospital service and health related professions. This course is designed to give the student a basic knowledge of anatomy, pathology, surgical procedures, diagnostic procedures and symptomatology.

 (0297969) ALH 140 AC21 08:30AM-12:00PM TR Allegheny Campus Anderson 6 Jul 05
 (0297984) ALH 140 AC61 05:30PM-10:00PM T Allegheny Campus Williams 10 May 23
 (0297397) ALH 140 BIN1 Internet Course Faculty 10 May 23
 (0297398) ALH 140 BIN2 Internet Course Faculty 10 May 23
 (0297399) ALH 140 BIN3 Internet Course Faculty 10 May 23
 (0297400) ALH 140 BIN4 Internet Course Faculty 10 May 23

ANT Anthropology

ANT 101 Introduction to Anthropology

This course is a scientific inquiry into human variability across space and time. The evolution of humanity's biocultural nature from prehistory to present times is examined. This draws upon evidence from archaeology, physical anthropology/human paleontology, ethnography and linguistic anthropology.

 (0297401) ANT 101 AIN01 Internet Course Faculty 10 May 23
 (0297402) ANT 101 NIN01 Internet Course Faculty 10 May 23

ANT 102 Introduction to Cultural Anthropology

A study of the structure of human socio-cultural systems that emphasizes economy, kinship, political organization, social control, social stratification, belief systems, and language.

The course deals with cultural variations among living populations of the present and recent past whose cultures have been described by ethnographic fieldworkers. Selected case studies are read, discussed, and compared to stimulate a fuller appreciation of our common humanity.

 (0297403) ANT 102 NIN01 Internet Course Faculty 10 May 23

ANT 104 Native Amererican Indians of North America

This course is an ethnographic survey of Native tribes of North America (north of Mexico) from Paleolindians to contemporary tribes/nations. Possible fieldtrips are part of this course.

 (0298848) ANT 104 SIN1 Internet Course Sprinkle 10 May 23

ANT 110 Forensic Anthropology

This course offers an overview of the scope of modern forensic anthropology. Major areas covered include personal identification and legal consideration, search and recovery, interpretation of trauma and taphonomy, analytical techniques and applications of forensic anthropology. Case presentations will be utilized to demonstrate professional and ethical responsibilities, scientific rigor and the multidisciplinary approach of forensics. Please note this course does not satisfy the requirements for the CJC program.

 (0299037) ANT 110 AC01 08:30AM-12:15PM MWF Allegheny Campus Neiber 6 May 23
 (0390222) ANT 110 NIN01 Internet Course Faculty 10 May 23

ANT 117 Globalization

This course is a study of the causes and consequences of the globalization process. Causes are explored in social-evolutionary, historical and macrosociological contexts. Major consequences include: global degradation and hyper-exploitation of human labor; global poverty and hunger; consumerism and global environmental degradation; global public health crises; internal wars and the international refugee problem; ethnicide, genocide and the global assault on human diversity; and militarism, wars and the threat of global destruction. In addition, implications for governance, national sovereignty and the future of democracy are explored. Resistance to globalization and prospects for the future are also examined.

 (0299059) ANT 117 SIN1 Internet Course Faculty 10 May 23

ART Art History & Studio Art

ART 104 Art History - Modern

This is a course to develop an understanding and appreciation of the major visual artists and art movements of Western Civilization from the Renaissance to contemporary times.

 (0299063) ART 104 AIN01 Internet Course Delphia 6 May 23
 (0297404) ART 104 AIN01 Internet Course Faculty 10 May 23

ART 106 Art Appreciation

This course is intended to be a first level introductory art course for the beginning art students, as well as the student seeking a humanities elective in the visual arts. The student's appreciation of art will be developed through aesthetics, disciplines, critical evaluations, projects, history and attendance at a real or virtual art show.

 (0297665) ART 106 AIN01 Internet Course Blohner 6 May 23
 (0297666) ART 106 AIN02 Internet Course Blohner 6 May 23
 (0297667) ART 106 AIN03 Internet Course Blohner 6 May 23
* (0297095) ART 106 WH41 08:30AM-12:15PM TR West Hills Center Faculty 6 Jul 05

ART 109 Drawing 1

This is a course in drawing using dry and wet media. Subject matter ranges from perspective to accurately rendered objects and the human body. Students develop imagination, perception, and technical skills. The focus is on the ability to observe form as a unique, creative, individual response.

* (0298080) ART 109 AC01 02:00PM-07:40PM MW Allegheny Campus Byrne 6 May 23
* (0298081) ART 109 BC01 09:00AM-02:15PM MW Boyce Campus Marsh 6 May 23
* (0299190) ART 109 SC01 04:30PM-08:20PM MTW South Campus Queen 6 May 23

ART 122 Painting 1 + PREREQUISITE(S): ART109 recommended

This is a course to teach the fundamentals of painting with oils or acrylics. Emphasis is on color theory and its practical application. Students should have a basic understanding of art composition and the abilities to sketch their concepts.

* (0298082) ART 122 AC01 09:00AM-02:20PM TR Allegheny Campus Snyder 6 May 23
This is an introductory course in ceramics. Students learn the proper use of tools and techniques to create 3-dimensional works through this very plastic medium. Slab and coil construction, wheel throwing, glazing and firing are studied.

* (0298084) ART 137 NG01 08:30AM-12:15PM TR North Campus Faculty 6 May 23
* (0297696) ART 137 NG01 08:30AM-12:15PM TR North Campus Faculty 6 Jul 05
* (0298085) ART 137 NG01 05:30PM-09:15PM TR North Campus Faculty 6 May 23

ART-144 Digital Photography
PREREQUISITE(S): Digital Camera and Windows experience or permission of the instructor.
This course will provide students interested in photography with the fundamental principles of a captured image with a digital camera. Besides camera basics, other topics to be studied are composition, aesthetics, legal and ethical considerations, advantages to conventional photography and creativity from camera to computer (the digital darkroom).

* (0299101) ART 144 AC01 09:00AM-02:20PM MW Allegheny Campus Matolsky 6 May 23
(0297668) ART 144 AIN01 Internet Course Blobner 6 May 23
(0297669) ART 144 AIN02 Internet Course Blobner 6 May 23

ART-148 Color
This is an introduction to basic color theory. The application of color theory to painting, design and the development of individual color sensitivity are stressed. Studies may include color physics, the psychology of color, color expression, impression and composition.

* (0298086) ART 148 AC01 09:00AM-02:40PM MW Allegheny Campus Snyder 6 May 23

ART-150 Introduction to Digital Graphic Design • PREREQUISITE(S): Eligibility for ENG101
This introductory course utilizes current digital hardware and software used in the industry as the primary tools for Graphic Design. The student will learn the design skills necessary to develop conceptualized ideas on projects that are viable in today's Graphic Design field.

* (0299065) ART 150 AIN01 Internet Course Byrne 6 May 23

ART-153 Raku-Lowfire Ceramics 1
This course is an introduction to Raku and Low Fire clays, glazes and firing techniques. Students make clay objects either on the wheel or by hand and set up a Raku Kiln.

* (0298325) ART 153 AC01 09:00AM-03:00PM MTW Allegheny Campus Jay 4 May 23

ART-165 Digital Publishing • PREREQUISITE(S): Eligibility for ENG101
This course is an examination into the digital publishing field that focuses on page layout and design: this course will involve working on projects common in the publishing field.
This course will utilize current desktop publishing software.

* (0299072) ART 165 AIN01 Internet Course Mary 6 Jul 05

ART-168 Digital Imaging • PREREQUISITE(S): Windows experience or permission of instructor.
This course covers art theory as applied to photography and digital imaging. Techniques of image editing, enhancement and layering may be applied to individual images, collage and composites suitable for a portfolio.

* (0299071) ART 168 AIN01 Internet Course Blobner 6 May 23

ART-170 Web Graphic Design
• PREREQUISITE(S): ENG101 eligibility and Windows experience or permission of the instructor.
This course studies the field of graphic design and how it is implemented into the web page design. Initially the student will learn how to prepare media for the web such as typography, digital imaging and animation. During the course the student will implement prepared media and design theory into a personalized web site that will be published on the World Wide Web.

* (0299074) ART 170 AIN01 Internet Course Mary 6 Jul 05

ART-207 Drawing 2 • PREREQUISITE(S): ART109
This course emphasizes the study of human form as it has been described from the Renaissance to modern times. There is exploration of various wet and dry media as applied to various surfaces.

* (0298087) ART 207 BC01 09:00AM-02:15PM MW Boyce Campus Marsh 6 May 23
* (0298088) ART 207 BC01 09:00AM-02:15PM MW Boyce Campus Snyder 6 May 23

ART-222 Painting 2 • PREREQUISITE(S): ART122 or (ART109 and ART148)
This course is a continuation of ART122 and for students planning to extend the study of art to the media of paint. Studio exercises include the study of the figure, still life and landscape.

* (0298089) ART 222 AC01 09:00AM-02:20PM TR Allegheny Campus Snyder 6 May 23

ART-229 Printmaking 2 • PREREQUISITE(S): ART129
This is a continuation of ART129, exploring printing processes in depth with an emphasis on multi-colored prints.

* (0298089) ART 229 BC01 09:00AM-02:15PM TR Boyce Campus Dinnen 6 May 23

ART-250 Advanced Digital Graphic Design • PREREQUISITE(S): ART150
This course is a continuation of ART150 but will expand on design skills with more intense focus on specific projects such as upcoming events and current design trends. In addition, the student will enhance technical awareness of digital hardware and software as it relates to contemporary standards.

* (0299075) ART 250 AIN01 Internet Course Mary 6 Jul 05

ART-252 Painting 3 • PREREQUISITE(S): ART222
This course is a continuation of ART222. Emphasis is on developing a personal style through a series of works. Studio exercises may include the human figure and still life.

* (0299076) ART 252 AC01 09:00AM-02:20PM TR Allegheny Campus Snyder 6 May 23

ART-253 Raku-Low Fire Ceramics 2 • PREREQUISITE(S): ART153
This course is a continuation of study in low firing processes concentrating on Raku firing, kiln design, kiln building and glaze composition. Students will use their technical expertise to create more ambitions and individual forms.

* (0298326) ART 253 AC01 09:00AM-03:00PM MTW Allegheny Campus Jay 4 May 23

*An asterisk to the left of the course indicates that a lab fee will be assessed for that course.

This schedule is published by the Community College of Allegheny County. Although the information herein is accurate as of the publication date, schedule changes routinely occur up to, and including, the start of classes. For the most up-to-date information, visit ccac.edu or the campus you plan to attend.
This course is designed to develop the student's particular direction in printmaking processes. A personal aesthetic is identified and explored through further understanding of the print medium. Techniques for multi-colored presentations will be examined.

This student will learn to develop elements of artistic expression through self-analysis of style and direction in an in-depth individualized exploration of aesthetics regarding a selective medium/discipline.

The student will learn to develop elements of artistic expression through self-analysis of style and direction in an in-depth individualized exploration of aesthetics regarding a selective medium/discipline.

The student will learn to develop elements of artistic expression through self-analysis of style and direction in an in-depth individualized exploration of aesthetics regarding a selective medium/discipline.

3 credits

This course develops the basic skills of receiving and expressing American Sign Language. Class participation includes exercises in articulation, reception, translation, grammatical patterns, and description of objects and events.

This course increases the students' basic skills of receiving and expressing American Sign Language (ASL). Students study translations, grammatical patterns, and description of objects and events.

This course develops the students' basic skills of receiving and expressing American Sign Language (ASL). Students study translations, grammatical patterns, and description of objects and events.

This course develops the students' basic skills of receiving and expressing American Sign Language (ASL). Students study translations, grammatical patterns, and description of objects and events.

ASL-101 Elementary American Sign Language 1 4 credits

This course develops the basic skills of receiving and expressing American Sign Language. Class participation includes exercises in articulation, reception, translation, grammatical patterns, and description of objects and events.

This course increases the students' basic skills of receiving and expressing American Sign Language (ASL). Students study translations, grammatical patterns, and description of objects and events.

This course increases the students' basic skills of receiving and expressing American Sign Language (ASL). Students study translations, grammatical patterns, and description of objects and events.

This course increases the students' basic skills of receiving and expressing American Sign Language (ASL). Students study translations, grammatical patterns, and description of objects and events.

ASL-201 Intermediate American Sign Language 1 • PREREQUISITE(S): ASL102 or Department Permission 3 credits

This course increases the students' basic skills of receiving and expressing American Sign Language (ASL). Students study translations, grammatical patterns, cultural and literary materials, dialogues and conversational activities.

ATE Automotive Technology

Factory Sponsored Programs: Chrysler LLC, Ford, and General Motors and the PA Safety and Emissions Inspector training and licensing, call 412.788.7500 for more information. AUTOMOTIVE INSPECTION AND EMISSIONS CERTIFICATION, Please call 412.788.7500

ATE-006 Auto Emission Test - ATE 106 0 credits

This course is a mechanism to register students for the automobile emission tests required for the credit course ATE 106. Students must pay the fee before they can be admitted to the testing room.

ATE-008 State Inspection Test 0 credits

This course is a mechanism to register students for the automobile emission tests required for the credit course ATE 108. Students must pay the fee before they can be admitted to the testing room.

ATE-106 Emission Inspector Certification 1 credit

This course is a Pennsylvania State-directed Emission Inspector Certification Program. It is designed for anyone wishing to become Pennsylvania certificated to perform emission inspections on passenger cars and light trucks. This course is graded on a pass/fail basis.

ATE-108 State Inspection Certification 1 credit

This course is a Pennsylvania State directed Safety Inspection Certification Program. It is designed for anyone wishing to become Pennsylvania Certified to perform safety inspections on motor vehicles. This course is graded on a pass/fail basis.

ATE-131 Major Engine Service 4 credits

This course will introduce students to major engine repair using industry-approved procedures. Emphasis will be placed on component identifications, the proper use of measuring tools and determining the reusability of parts to restore engines to factory-approved specifications. Students will be able to make clearance checks, replace piston and rings, inspect and replace crankshaft bearings, service valve train components and make all required timing adjustments. Diagnosis of internal engine component failures using industry-recognized tools and techniques will also be covered. Certain course sections will be manufacturer specific.

AVT Aviation Technology

AVT-105 Flight-Private • PREREQUISITE(S): Second class medical student pilot certificate • COREQUISITE(S): AVT101 3 credits

This course provides the student with flight instruction and experience at a Federal Aviation Administration (FAA), Part 141 approved flight school. The student will complete the dual and solo flight time requirements including pre- and post-flight briefing and required stage exams. A valid second class medical certificate is required to begin this course. The student must pass the FAA private pilot practical exam to obtain a private pilot certificate in order to successfully complete the course. The FAA required minimum flight hours in this course are 35 hours; however, the actual flight hours may vary based on student proficiency.

An asterisk to the left of the course indicates that a lab fee will be assessed for that course.
AVT Aviation Technology

EXPRESS CODE# | CATALOG CODE | SECTION NO | TIME | DAYS | LOCATION | INSTRUCTOR | NUM WKS | BEGINS WK OF
---|---|---|---|---|---|---|---|---
AVT-115 Flight/Instrument • PREREQUISITE(S): AVT101, AVT103, AVT105 • COREQUISITE(S): AVT111 | 3 credits | This course provides the student with the required flight training to obtain the instrument rating. The course includes necessary flight training as well as the requisite stage exams while preparing a student for the Federal Aviation Administration (FAA) instrument pilot practical exam. All training follows FAA Part 141 regulations. A second class medical certificate is required to take this course. The FAA required minimum flight hours in this course are 30 hours; however, the actual flight hours may vary based on student proficiency. (0297898) AVT 115 AP01 By Appointment MTWRFUSU Allegheny County Airport Faculty 10 May 23

AVT-205 Flight-Commercial 1 • PREREQUISITE(S): AVT111, AVT115 • COREQUISITE(S): AVT211 | 4 credits | This course will develop the commercial pilot skills necessary for the Federal Aviation Administration (FAA) commercial pilot practical exam. The course provides instruction and flight experience including pre- and post-flight briefings as well as the dual and solo flights necessary to complete the approved hours for the commercial pilot exam. A second class medical certificate is required to take this course. The FAA required minimum flight hours in this course are 60 hours; however, the actual flight hours may vary based on student proficiency. (0299005) AVT 205 AP01 By Appointment MTWRFUSU Allegheny County Airport Faculty 10 May 23

AVT-215 Flight/Commercial 2 • PREREQUISITE(S): AVT205 and AVT211 | 4 credits | This course is a continuation of the commercial flight course. It includes the Federal Aviation Administration (FAA) required hours of instruction in a complex aircraft and flight experience including pre and post flight briefings as well as dual and solo flights. A second class medical certificate is required to take this course. For successful completion of the course, the student must successfully pass the FAA Part 141 commercial pilot practical exam. The FAA required minimum flight hours in this course are 60 hours; however, the actual flight hours may vary based on student proficiency. (0299002) AVT 215 AP01 By Appointment MTWRFUSU Allegheny County Airport Faculty 10 May 23

AVT-225 Multi-Engine Flight • PREREQUISITE(S): AVT105 • COREQUISITE(S): AVT220 | 1 credit | This course is an FAA 141 approved fixed base operator will give multi-engine flight training in modern twin-engine aircraft. The course is designed to give a pilot a minimum of 10 hours of flight instruction, including 10 hours of oral instruction and briefing. The student must successfully complete the FAA Multi-engine Pilot Rating Flight Exam. The FAA required minimum flight hours in this course are 10 hours; however, the actual flight hours may vary based on student proficiency. (0297899) AVT 225 AP01 By Appointment MTWRFUSU Allegheny County Airport Faculty 10 May 23

AVT-255 Certified Flight Instrument Airplane Flight • PREREQUISITE(S): AVT215 • COREQUISITE(S): AVT250 | 1 credit | This course prepares the commercial pilot to meet the FAA 141 flight requirements for the CFI-A certification. The estimated minimum flight hours required in this course are 15 hours, which will cover practice teaching, flight theory and flight maneuvers. However, the actual flight hours may vary based on student proficiency. (0299003) AVT 255 AP01 By Appointment MTWRFUSU Allegheny County Airport Faculty 10 May 23

AVT-265 Certified Flight Instructor/Instrument Airplane Flight • PREREQUISITE(S): AVT250, AVT255 • COREQUISITE(S): AVT260 | 1 credit | This course prepares the commercial pilot to meet the FAA 141 flight requirements for the CFI-A certification. The estimated minimum flight hours required in this course are 10 hours, which will cover practice teaching, flight theory and analysis of flight maneuvers. However, the actual flight hours may vary based on student proficiency. (0299004) AVT 265 AP01 By Appointment MTWRFUSU Allegheny County Airport Faculty 10 May 23

BIO Biology

BIO-100 Life Science | 3 credits | This course is an introduction to biology for non-biology majors. The course introduces fundamental concepts pertaining to the cell, multicellular organisms and environmental relationships. This course does not satisfy a biology requirement for the biology major. (0297697) BIO 100 AC41 09:00AM-12:45PM TR Allegheny Campus Faculty 6 Jul 05

BIO-103 Introduction to Human Biology | 3 credits | This course familiarizes students with the structure and function of the human body. It deals with the chemical, cellular and physiological principles on which human life is based. The normal organization and function of the body's organ systems are covered along with selected disorders. This course does not satisfy a biology requirement for the biology major. (0297407) BIO 103 AC41 09:00AM-12:45PM TR Internet Course Law 10 May 23

BIO-107 Pharmacology | 3 credits | This course is an introduction to drug information for health professionals or paramedic personnel. This course surveys the pharmacokinetics of drugs, drug calculation, mechanisms of drug action, side effects and the toxic effects of drugs. Also included are specific clinical conditions and the underlying pathophysiology requiring drug intervention. (0297901) BIO 107 AC61 05:30PM-10:05 PM T Allegheny Campus Faculty 10 May 23

BIO-110 Introduction to Biological Science • PREREQUISITES: Eligibility for ENG-100 (or ESL-100)and DVS-101 or DVS-103 (or ESL-101) | 4 credits | This course is an introduction to fundamental life processes. Emphasis is on molecular biology that includes the study of micro and macro molecules. Cellular biology is also emphasized including structure, function, reproduction and genetics. This course incorporates an introduction to laboratory skills that includes the scientific method, metric system, and microscopy. Many institutions will accept this course as a science elective for non-biology majors. This course does not satisfy a biology requirement for biology majors. Students should consult a transfer counselor. (0302437) BIO 110 BC81 04:30PM-09:00PM TR Allegheny Campus Misencik 10 May 23
A course in systemic human biology for students in allied health, nursing, physical education and other fields requiring a background in human biology. The focus of the course is BIO-161 to the development of organ systems throughout plant and animal groups. The laboratory program presents the domain and kingdom classification systems from the viewpoint of are underlying themes throughout the semester. Also included is a study of population genetics and mechanisms of speciation and conservation biology. Students are introduced In this course there is an emphasis on plants and animals, particularly with regard to evolution, phylogeny and physiology. Darwinian principles of evolution and natural selection topics include an overview of cellular biochemistry, with emphasis on cellular respiration and photosynthesis. The accompanying laboratory program allows students to practice scientific

**BIO-110 Introduction to Biological Science (continued)**

**BIO-117 Introduction to Nutrition**

This is a course which introduces the principles of nutrition. The course stresses a scientific foundation for nutrition that allows students to develop a personal diet and dietary practices that are associated with good health. Emphasis is placed on nutritional literacy with regard to the distinguishing information based on science from information based on unsubstantiated claims.

**BIO-123 Medical Biology & Terminology**

This is a course that develops a working knowledge of the medical biology and terminology used by medical personnel. It familiarizes students with basic terms in anatomy, physiology and the pathology of the human body. The terminology is presented system by system. This course does not fulfill the science requirement for graduation in a degree program.

**BIO-133 Environmental Science**

This is a course to develop understanding of ecosystem structure and function, population dynamics, use of natural resources, disposal of waste materials and current topics in environmental science.

**BIO-151 General Biology 1**

- **PREREQUISITE(S):** Eligibility for ENG101 and MAT108; and BIO110 or two high school science classes (one a biology with lab) with a grade of "C" or better in the last five years.

This course introduces students to atomic structure, important bioorganic molecules, cellular structure and function, cellular reproduction, genetic principles and biotechnology. Selected topics include an overview of cellular biochemistry, with emphasis on cellular respiration and photosynthesis. The accompanying laboratory program allows students to practice scientific procedures by conducting investigations which are coordinated with lecture topics. This course transfers to most four-year institutions. Students should consult a transfer counselor.

**BIO-152 General Biology 2**

- **PREREQUISITE(S):** BIO151

In this course there is an emphasis on plants and animals, particularly with regard to evolution, phylogeny and physiology. Darwinian principles of evolution and natural selection are underlying themes throughout the semester. Also included is a study of population genetics and mechanisms of speculation and conservation biology. Students are introduced to the development of organ systems throughout plant and animal groups. The laboratory program presents the domain and kingdom classification systems from the viewpoint of phylogeny and anatomy.

**BIO-161 Anatomy & Physiology 1**

- **PREREQUISITE(S):** BIO110 or BIO151

A course in systemic human biology for students in allied health, nursing, physical education and other fields requiring a background in human biology. The focus of the course is normal anatomy and physiology, with reference to pathological situations as appropriate. The course focuses on body organization; tissues; and the integumentary, skeletal-articular, muscular, nervous and the endocrine systems.
This course is a study of the form, function and environment of microorganisms with emphasis on those which are pathogenic. The focus of the course is normal anatomy and physiology, with reference to pathological situations as appropriate. The course includes the reproductive, circulatory, lymphatic, respiratory, acid-base/fluid/electrolyte balance, urinary and digestive systems.

**PREREQUISITE(S):** BIO161

4 credits

**BIO-162 Anatomy & Physiology 2**

This course is a study of human biology for students in allied health, nursing, physical education and other fields requiring a background in human biology. The focus of the course is normal anatomy and physiology, with reference to pathological situations as appropriate. The course includes the reproductive, circulatory, lymphatic, respiratory, acid-base/fluid/electrolyte balance, urinary and digestive systems.

**PREREQUISITE(S):** BIO161

4 credits

**BIO-175 Microbiology**

This course is a study of the form, function and environment of microorganisms with emphasis on those which are pathogenic. Topics include epidemiology, immunology, genetics and control of microbes. Microbiological techniques such as principles of asepsis, identification of microorganisms, microscopic observation of specimens, staining procedures and cultivation of microbes are included.

**PREREQUISITE(S):** BIO110 or BIO151

4 credits

This schedule is published by the Community College of Allegheny County. Although the information herein is accurate as of the publication date, schedule changes routinely occur up to, and including, the start of classes. For the most up-to-date information, visit ccac.edu or the campus you plan to attend.
### BIO Biology

**BIO-175** Microbiology (continued)

<table>
<thead>
<tr>
<th>CODE#</th>
<th>CRSE NO</th>
<th>SECTION NO</th>
<th>TIME</th>
<th>DAYS</th>
<th>LOCATION</th>
<th>INSTRUCTOR</th>
<th>NUM WKS</th>
<th>BEGINS WK OF</th>
</tr>
</thead>
<tbody>
<tr>
<td>(0297918)</td>
<td>BIO 175</td>
<td>AC61</td>
<td>05:30PM-10:05PM</td>
<td>T</td>
<td>Allegheny Campus</td>
<td>Faculty</td>
<td>10</td>
<td>May 23</td>
</tr>
<tr>
<td>(0297921)</td>
<td>BIO 175</td>
<td>BC61</td>
<td>04:30PM-07:05PM</td>
<td>MTW</td>
<td>Boyce Campus</td>
<td>Ahmed</td>
<td>6</td>
<td>May 23</td>
</tr>
<tr>
<td>(0298276)</td>
<td>BIO 175</td>
<td>NC61</td>
<td>11:30AM-02:35PM</td>
<td>MW</td>
<td>North Campus</td>
<td>Faculty</td>
<td>8</td>
<td>Jun 06</td>
</tr>
<tr>
<td>(0298277)</td>
<td>BIO 175</td>
<td>NC62</td>
<td>08:30AM-11:00AM</td>
<td>MW</td>
<td>North Campus</td>
<td>Faculty</td>
<td>8</td>
<td>Jun 06</td>
</tr>
<tr>
<td>(0298278)</td>
<td>BIO 175</td>
<td>NC63</td>
<td>05:00PM-07:35PM</td>
<td>MW</td>
<td>North Campus</td>
<td>Faculty</td>
<td>8</td>
<td>Jun 06</td>
</tr>
<tr>
<td>(0298279)</td>
<td>BIO 175</td>
<td>SC61</td>
<td>09:00AM-12:25AM</td>
<td>MW</td>
<td>South Campus</td>
<td>Commissio</td>
<td>10</td>
<td>May 23</td>
</tr>
<tr>
<td>(0298280)</td>
<td>BIO 175</td>
<td>SC62</td>
<td>11:40AM-04:15PM</td>
<td>MW</td>
<td>South Campus</td>
<td>Commissio</td>
<td>10</td>
<td>May 23</td>
</tr>
<tr>
<td>(0298112)</td>
<td>BIO 175</td>
<td>SC63</td>
<td>09:30AM-01:35PM</td>
<td>MW</td>
<td>South Campus</td>
<td>Rossmann</td>
<td>6</td>
<td>May 23</td>
</tr>
<tr>
<td>(0298648)</td>
<td>BIO 175</td>
<td>BIN1</td>
<td>01:50PM-05:15PM</td>
<td>MW</td>
<td>South Campus</td>
<td>Rossmann</td>
<td>6</td>
<td>May 23</td>
</tr>
<tr>
<td>(0297924)</td>
<td>BIO 175</td>
<td>SC64</td>
<td>05:30PM-08:00PM</td>
<td>MTW</td>
<td>South Campus</td>
<td>Rossmann</td>
<td>6</td>
<td>May 23</td>
</tr>
<tr>
<td>(0297925)</td>
<td>BIO 175</td>
<td>BC65</td>
<td>08:05PM-10:20PM</td>
<td>MTW</td>
<td>South Campus</td>
<td>Rossmann</td>
<td>6</td>
<td>May 23</td>
</tr>
</tbody>
</table>

**BIO-207** Genetics • PREREQUISITE(S): BIO151

This is a course which introduces the principles involved in the transmission of inherited characteristics, as revealed by classical and modern investigations. Special concepts include the chromosome theory, cytogenetics and genetic imbalance, mechanisms and significance of DNA mutation and DNA repair, Mendelian and multifactorial inheritance, the chemical structure of genes, applied molecular genetics, gene expression and regulation of gene action.

<table>
<thead>
<tr>
<th>CODE#</th>
<th>CRSE NO</th>
<th>SECTION NO</th>
<th>TIME</th>
<th>DAYS</th>
<th>LOCATION</th>
<th>INSTRUCTOR</th>
<th>NUM WKS</th>
<th>BEGINS WK OF</th>
</tr>
</thead>
<tbody>
<tr>
<td>(0298113)</td>
<td>BIO 207</td>
<td>AC01H</td>
<td>09:00AM-01:15AM</td>
<td>WF</td>
<td>Allegheny Campus</td>
<td>Law</td>
<td>6</td>
<td>May 23</td>
</tr>
<tr>
<td>(0298113)</td>
<td>BIO 207</td>
<td>AC02H</td>
<td>11:20AM-02:45PM</td>
<td>WF</td>
<td>Allegheny Campus</td>
<td>Law</td>
<td>6</td>
<td>May 23</td>
</tr>
</tbody>
</table>

+BIO 207 AC01H is a hybrid class. See the Online Learning section for more information.

**BIO-241** Pathophysiology • PREREQUISITES: BIO161, BIO162

This course provides an in depth study of the predisposing factors and direct causes of diseases, as well as their effects on the body. The course includes a systemic approach to the basic disease process in terms of etiology, symptomatology, general pathological changes, diagnostic procedures and treatments.

<table>
<thead>
<tr>
<th>CODE#</th>
<th>CRSE NO</th>
<th>SECTION NO</th>
<th>TIME</th>
<th>DAYS</th>
<th>LOCATION</th>
<th>INSTRUCTOR</th>
<th>NUM WKS</th>
<th>BEGINS WK OF</th>
</tr>
</thead>
<tbody>
<tr>
<td>(0297925)</td>
<td>BIO 241</td>
<td>AC61</td>
<td>05:30PM-08:25PM</td>
<td>TR</td>
<td>Allegheny Campus</td>
<td>Faculty</td>
<td>10</td>
<td>May 23</td>
</tr>
<tr>
<td>(0297926)</td>
<td>BIO 241</td>
<td>AC62</td>
<td>05:30PM-08:25PM</td>
<td>TR</td>
<td>Allegheny Campus</td>
<td>Faculty</td>
<td>10</td>
<td>May 23</td>
</tr>
<tr>
<td>(0297927)</td>
<td>BIO 241</td>
<td>AC63</td>
<td>05:30PM-08:25PM</td>
<td>TR</td>
<td>Allegheny Campus</td>
<td>Faculty</td>
<td>10</td>
<td>May 23</td>
</tr>
<tr>
<td>(0297928)</td>
<td>BIO 241</td>
<td>AC64</td>
<td>05:30PM-08:25PM</td>
<td>TR</td>
<td>Allegheny Campus</td>
<td>Faculty</td>
<td>10</td>
<td>May 23</td>
</tr>
<tr>
<td>(0297929)</td>
<td>BIO 241</td>
<td>SC01</td>
<td>09:00AM-11:15AM</td>
<td>MW</td>
<td>South Campus</td>
<td>Rossmann</td>
<td>6</td>
<td>May 23</td>
</tr>
</tbody>
</table>

**BTC Biotechnology**

**BTC-204P Biotechnology Internship • PREREQUISITES: BTC101, 2.00 GPA**

A course to provide practical work experience at one of the affiliated biotech industries or a university research facility. Techniques learned in biology/biotechnology labs will be applied in an actual laboratory setting to give the student more experience while learning tactical applications for laboratory procedures.

<table>
<thead>
<tr>
<th>CODE#</th>
<th>CRSE NO</th>
<th>SECTION NO</th>
<th>TIME</th>
<th>DAYS</th>
<th>LOCATION</th>
<th>INSTRUCTOR</th>
<th>NUM WKS</th>
<th>BEGINS WK OF</th>
</tr>
</thead>
<tbody>
<tr>
<td>(0297926)</td>
<td>BTC 204P</td>
<td>AC01</td>
<td>By Appointment</td>
<td>MTWRF</td>
<td>Allegheny Campus</td>
<td>Faculty</td>
<td>10</td>
<td>May 23</td>
</tr>
</tbody>
</table>

**BUS Business**

**BUS-101 Introduction to Business**

This course is a survey of modern business practices. This course may not be taken if a student has earned six or more credits in other business courses.

<table>
<thead>
<tr>
<th>CODE#</th>
<th>CRSE NO</th>
<th>SECTION NO</th>
<th>TIME</th>
<th>DAYS</th>
<th>LOCATION</th>
<th>INSTRUCTOR</th>
<th>NUM WKS</th>
<th>BEGINS WK OF</th>
</tr>
</thead>
<tbody>
<tr>
<td>(0297927)</td>
<td>BUS 101</td>
<td>AC01</td>
<td>09:00AM-11:25AM</td>
<td>MW</td>
<td>Allegheny Campus</td>
<td>Faculty</td>
<td>10</td>
<td>May 23</td>
</tr>
<tr>
<td>(0297730)</td>
<td>BUS 101</td>
<td>AC22</td>
<td>09:00AM-11:15AM</td>
<td>MW</td>
<td>Allegheny Campus</td>
<td>Faculty</td>
<td>10</td>
<td>May 23</td>
</tr>
</tbody>
</table>

**BUS-103 Principles of Management**

This is an introduction to the theory and principles of organization and management. The management process is studied, including the areas of planning, organizing and control.

<table>
<thead>
<tr>
<th>CODE#</th>
<th>CRSE NO</th>
<th>SECTION NO</th>
<th>TIME</th>
<th>DAYS</th>
<th>LOCATION</th>
<th>INSTRUCTOR</th>
<th>NUM WKS</th>
<th>BEGINS WK OF</th>
</tr>
</thead>
<tbody>
<tr>
<td>(0297723)</td>
<td>BUS 103</td>
<td>AC41</td>
<td>12:00PM-02:15PM</td>
<td>TR</td>
<td>Allegheny Campus</td>
<td>Faculty</td>
<td>10</td>
<td>May 23</td>
</tr>
<tr>
<td>(0298420)</td>
<td>BUS 103</td>
<td>AC92</td>
<td>05:30PM-09:45PM</td>
<td>F</td>
<td>Allegheny Campus</td>
<td>Faculty</td>
<td>4</td>
<td>Jul 05</td>
</tr>
</tbody>
</table>

**BUS-104 Principles of Marketing**

A study of the process of planning and executing the conception, pricing, distribution, and promotion of products that will fulfill consumer needs and wants, and satisfy the goals of the individual organization.

<table>
<thead>
<tr>
<th>CODE#</th>
<th>CRSE NO</th>
<th>SECTION NO</th>
<th>TIME</th>
<th>DAYS</th>
<th>LOCATION</th>
<th>INSTRUCTOR</th>
<th>NUM WKS</th>
<th>BEGINS WK OF</th>
</tr>
</thead>
<tbody>
<tr>
<td>(0297931)</td>
<td>BUS 104</td>
<td>AC01</td>
<td>09:00AM-11:10AM</td>
<td>TR</td>
<td>Allegheny Campus</td>
<td>Faculty</td>
<td>10</td>
<td>May 23</td>
</tr>
<tr>
<td>(0297932)</td>
<td>BUS 104</td>
<td>AC02</td>
<td>05:30PM-10:05PM</td>
<td>M</td>
<td>Allegheny Campus</td>
<td>Faculty</td>
<td>10</td>
<td>May 23</td>
</tr>
<tr>
<td>(0298115)</td>
<td>BUS 104</td>
<td>BC01</td>
<td>10:45AM-12:40PM</td>
<td>MTWR</td>
<td>Boyce Campus</td>
<td>Faculty</td>
<td>6</td>
<td>Jul 05</td>
</tr>
<tr>
<td>(0299124)</td>
<td>BUS 104</td>
<td>BH81</td>
<td>05:30PM-09:35PM</td>
<td>TR</td>
<td>Braddock Hills Center</td>
<td>Faculty</td>
<td>6</td>
<td>Jul 05</td>
</tr>
<tr>
<td>(0297423)</td>
<td>BUS 104</td>
<td>BI01</td>
<td>09:00AM-12:05AM</td>
<td>TR</td>
<td>Internet Course</td>
<td>McCormick</td>
<td>10</td>
<td>May 23</td>
</tr>
<tr>
<td>(0297725)</td>
<td>BUS 104</td>
<td>NC81H</td>
<td>06:00PM-09:45PM</td>
<td>TR</td>
<td>North Campus</td>
<td>McDonough</td>
<td>6</td>
<td>Jul 05</td>
</tr>
</tbody>
</table>

+BUS 104 NC81H is a hybrid class. See the Online Learning section for more information.

(0297424) | BUS 104 | NIN01 | | | Internet Course | Faculty | 10 | May 23 |
<p>| (0297726) | BUS 104 | SC41 | 09:00AM-12:45PM | TR | South Campus | Faculty | 6 | Jul 05 |</p>
<table>
<thead>
<tr>
<th>BUS Business</th>
<th>EXPRESS CODE#</th>
<th>CATALOG CRSE NO</th>
<th>SECTION NO</th>
<th>TIME</th>
<th>DAYS</th>
<th>LOCATION</th>
<th>INSTRUCTOR</th>
<th>NUM WKS</th>
<th>BEGINS WK OF</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS-108 Principles of Finance • PREREQUISITE(S): ACC104</td>
<td>(0299015) BUS 108</td>
<td>BC01</td>
<td>08:30AM-10:25AM MTWR</td>
<td>Boyce Campus</td>
<td>Berardino</td>
<td>6</td>
<td>May 23</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BUS-110 Personal Finance</td>
<td>(0297425) BUS 108</td>
<td>NIN01</td>
<td>Internet Course</td>
<td>Faculty</td>
<td>10</td>
<td>May 23</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BUS-117 Public Relations</td>
<td>(0297426) BUS 110</td>
<td>BIN1</td>
<td>Internet Course</td>
<td>Graham</td>
<td>10</td>
<td>May 23</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BUS-122 Business Statistics</td>
<td>(0297427) BUS 117</td>
<td>NIN01</td>
<td>Internet Course</td>
<td>Faculty</td>
<td>10</td>
<td>May 23</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BUS-130 Business Communications • PREREQUISITE(S): Eligibility for ENG 101</td>
<td>(0297430) BUS 122</td>
<td>BIN1</td>
<td>Internet Course</td>
<td>McCormick</td>
<td>10</td>
<td>May 23</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BUS-140 Introduction to E-Commerce</td>
<td>(0297431) BUS 140</td>
<td>BIN1</td>
<td>Internet Course</td>
<td>Dvorak</td>
<td>10</td>
<td>May 23</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BUS-143 Internet Marketing</td>
<td>(0297432) BUS 143</td>
<td>NIN01</td>
<td>Internet Course</td>
<td>Faculty</td>
<td>10</td>
<td>May 23</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BUS-200 Principles of Supervision</td>
<td>(0297433) BUS 200</td>
<td>BIN1</td>
<td>Internet Course</td>
<td>Graham</td>
<td>10</td>
<td>May 23</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BUS-201 Human Resource Management</td>
<td>(0297927) BUS 201</td>
<td>AC81</td>
<td>05:30PM-09:15PM TR</td>
<td>Allegheny Campus</td>
<td>Faculty</td>
<td>6</td>
<td>Jul 05</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BUS-210 Principles of Retailing</td>
<td>(0299019) BUS 201</td>
<td>BIN1</td>
<td>Internet Course</td>
<td>Faculty</td>
<td>10</td>
<td>May 23</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BUS-211 Principles of Advertising</td>
<td>(0297935) BUS 201</td>
<td>AC81</td>
<td>12:00PM-02:25PM MW</td>
<td>Allegheny Campus</td>
<td>Faculty</td>
<td>10</td>
<td>May 23</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BUS-212 Principles of Selling</td>
<td>(0297434) BUS 211</td>
<td>BIN1</td>
<td>Internet Course</td>
<td>McCormick</td>
<td>10</td>
<td>May 23</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BUS-240 Small Business Management 1</td>
<td>(0297933) BUS 212</td>
<td>AC81</td>
<td>12:00PM-02:25PM</td>
<td>Allegheny Campus</td>
<td>Faculty</td>
<td>10</td>
<td>May 23</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BUS-251 Business Law 1</td>
<td>(0299022) BUS 211</td>
<td>BIN1</td>
<td>Internet Course</td>
<td>Faculty</td>
<td>10</td>
<td>May 23</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BUS-252 Business Law 2 • PREREQUISITE(S): BUS251</td>
<td>(0297934) BUS 251</td>
<td>AC01</td>
<td>12:00PM-02:10PM TR</td>
<td>Allegheny Campus</td>
<td>Faculty</td>
<td>10</td>
<td>May 23</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(0297728) BUS 251</td>
<td>AC01</td>
<td>12:00PM-03:45PM TR</td>
<td>Allegheny Campus</td>
<td>Faculty</td>
<td>6</td>
<td>Jul 05</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(0297935) BUS 251</td>
<td>AC01</td>
<td>05:30PM-16:05PM W</td>
<td>Allegheny Campus</td>
<td>Faculty</td>
<td>10</td>
<td>May 23</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(0297438) BUS 251</td>
<td>AC01</td>
<td>Internet Course</td>
<td>Faculty</td>
<td>10</td>
<td>May 23</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(0299023) BUS 251</td>
<td>BIN1</td>
<td>Internet Course</td>
<td>McCormick</td>
<td>10</td>
<td>May 23</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(0297936) BUS 251</td>
<td>HB01</td>
<td>12:00PM-02:15PM</td>
<td>Homewood Brushton Center</td>
<td>Faculty</td>
<td>10</td>
<td>May 23</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(0297439) BUS 251</td>
<td>NIN01</td>
<td>Internet Course</td>
<td>Faculty</td>
<td>10</td>
<td>May 23</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(0298874) BUS 252</td>
<td>NIN01</td>
<td>Internet Course</td>
<td>Faculty</td>
<td>10</td>
<td>May 23</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### CHM 151 General Chemistry 1

- **PREREQUISITE(S):** CHM109 or CHM110/111 or "B" or better in high school chemistry within the past five years and MAT108 or MAT111 or equivalent.
- **COREQUISITE(S):** CHM110
- **Course Focus:** This course focuses on intermolecular forces, properties of solids and liquids, solution theory, acid base theory, chemical kinetics, chemical equilibrium, chemical thermodynamics and electrochemistry. Laboratory includes experiments related to the aforementioned topics and introduction to the qualitative analysis of inorganic ions.

- **Course Details:**
  - 4 credits
  - Lecture: 3 credits
  - Laboratory: 1 credit

- **Course Requirements:**
  - Prerequisites:
    - MAT109 and CHM110 with a grade of C or better
    - Corequisite: CHM110
  - Corequisites:
    - CHM110
  - Credit Hours:
    - Lecture: 3 credits
    - Laboratory: 1 credit

- **Course Schedule:**
  - **Sections:**
    - **Sections:**
      - **Section:** CHM 151 002
        - **Credit Hours:** 4
        - **Credits:** 3
        - **Dates:** 05/23-05/23
        - **Location:** North Campus
        - **Instructor:** Cao

### CHM 152 General Chemistry 2

- **PREREQUISITE(S):** CHM 152 AC01
- **Course Focus:** This course focuses on intermolecular forces, properties of solids and liquids, solution theory, acid base theory, chemical kinetics, chemical equilibrium, chemical thermodynamics and electrochemistry. Laboratory includes experiments related to the aforementioned topics and introduction to the qualitative analysis of inorganic ions.

- **Course Details:**
  - 4 credits
  - Lecture: 3 credits
  - Laboratory: 1 credit

- **Course Requirements:**
  - Prerequisites:
    - MAT109 and CHM110/111 or "B" or better in high school chemistry within the past five years and MAT108 or MAT111 or equivalent.
  - Corequisites:
    - CHM110
  - Credit Hours:
    - Lecture: 3 credits
    - Laboratory: 1 credit

- **Course Schedule:**
  - **Sections:**
    - **Sections:**
      - **Section:** CHM 152 NC01
        - **Credit Hours:** 4
        - **Credits:** 3
        - **Dates:** 05/23-05/23
        - **Location:** North Campus
        - **Instructor:** Cao

---

*An asterisk to the left of the course indicates that a lab fee will be assessed for that course.*
This course is an introduction to program design, analysis and programming fundamentals using the Java language. Topics include the software development process, problem solving techniques, simple language basics, data representation and storage, program control structures, classes and their methods.

PREREQUISITE(S): Basic skills using a personal computer and operating system; eligibility for MAT090 or permission of instructor.
CIT Computer Information Technology

CIT-115 Introduction to Information Technology • PREREQUISITE(S): Basic skills using a personal computer and operating system
This course explores technical issues involved with computers and information technology. Topics include computer hardware and components, operating systems, file storage, networking fundamentals, digital media, database systems, and the Internet structure and organization. Students research various information technology issues using the Internet and in-class or simulated lab exercises in a personal computer environment.

<table>
<thead>
<tr>
<th>EXPRESS CODE#</th>
<th>CATALOG CRSE NO</th>
<th>SECTION</th>
<th>TIME</th>
<th>DAYS</th>
<th>LOCATION</th>
<th>INSTRUCTOR</th>
<th>NUM WKS</th>
<th>BEGINS WK OF</th>
</tr>
</thead>
<tbody>
<tr>
<td>(0297950) CIT 115</td>
<td>ACG1</td>
<td>09:00AM-11:25AM</td>
<td>TR</td>
<td>Allegheny Campus</td>
<td>Overholt</td>
<td>10</td>
<td>May 23</td>
<td></td>
</tr>
<tr>
<td>(0297951) CIT 115</td>
<td>ACG1</td>
<td>05:30PM-10:00PM</td>
<td>T</td>
<td>Allegheny Campus</td>
<td>Franklin</td>
<td>10</td>
<td>May 23</td>
<td></td>
</tr>
<tr>
<td>(0298739) CIT 115</td>
<td>BC61H</td>
<td>06:00PM-08:45PM</td>
<td>MW</td>
<td>Boyce Campus</td>
<td>Faculty</td>
<td>6</td>
<td>May 23</td>
<td></td>
</tr>
</tbody>
</table>

CIT-116 Mobile Applications, Visual Development • PREREQUISITES: CIT111 or with instructor’s permission
This course is an introduction in creating applications (apps) using mobile app visual development software. The focus of the course includes using visual development software tools to create graphical user interfaces, implement computer programming control structures, including object-oriented principles and applications, and design apps that include multimedia technologies.

<table>
<thead>
<tr>
<th>EXPRESS CODE#</th>
<th>CATALOG CRSE NO</th>
<th>SECTION</th>
<th>TIME</th>
<th>DAYS</th>
<th>LOCATION</th>
<th>INSTRUCTOR</th>
<th>NUM WKS</th>
<th>BEGINS WK OF</th>
</tr>
</thead>
<tbody>
<tr>
<td>(0297449) CIT 115</td>
<td>BIN1</td>
<td></td>
<td></td>
<td>Internet Course</td>
<td>Pauli</td>
<td>10</td>
<td>May 23</td>
<td></td>
</tr>
<tr>
<td>(0298740) CIT 115</td>
<td>BIN2</td>
<td></td>
<td></td>
<td>Internet Course</td>
<td>Pauli</td>
<td>10</td>
<td>May 23</td>
<td></td>
</tr>
<tr>
<td>(0297450) CIT 115</td>
<td>SIN1</td>
<td></td>
<td></td>
<td>Internet Course</td>
<td>Faculty</td>
<td>6</td>
<td>May 23</td>
<td></td>
</tr>
</tbody>
</table>

CIT-120 Networking • PREREQUISITE(S): CIT115
This course introduces students to computer networking fundamentals. Topics include: network design, network hardware, network operating systems software, data communications, configuration and installation, internetworking, and troubleshooting basic network problems. Using a Microsoft Windows Server-based LAN environment, students practice network administration concepts and activities.

<table>
<thead>
<tr>
<th>EXPRESS CODE#</th>
<th>CATALOG CRSE NO</th>
<th>SECTION</th>
<th>TIME</th>
<th>DAYS</th>
<th>LOCATION</th>
<th>INSTRUCTOR</th>
<th>NUM WKS</th>
<th>BEGINS WK OF</th>
</tr>
</thead>
<tbody>
<tr>
<td>(0297451) CIT 120</td>
<td>BIN1</td>
<td></td>
<td></td>
<td>Internet Course</td>
<td>Dvorak</td>
<td>10</td>
<td>May 23</td>
<td></td>
</tr>
</tbody>
</table>

CIT-125 Web Development • PREREQUISITE(S): Basic skills using a personal computer and operating system; High school Algebra
This course focuses on developing skills necessary to design, create, and enhance Web pages for personal and business use. Students will acquire hands-on experience in creating and publishing Web pages that include text, hyperlinks, images, tables, frames, forms, sound, and video. Topics include: Cascading Style Sheets, JavaScript, XML, Graphics and other web media, and Web site development using a web authoring tool.

<table>
<thead>
<tr>
<th>EXPRESS CODE#</th>
<th>CATALOG CRSE NO</th>
<th>SECTION</th>
<th>TIME</th>
<th>DAYS</th>
<th>LOCATION</th>
<th>INSTRUCTOR</th>
<th>NUM WKS</th>
<th>BEGINS WK OF</th>
</tr>
</thead>
<tbody>
<tr>
<td>(0297452) CIT 125</td>
<td>BC61H</td>
<td></td>
<td></td>
<td>Internet Course</td>
<td>Moore</td>
<td>10</td>
<td>May 23</td>
<td></td>
</tr>
<tr>
<td>(0298883) CIT 125</td>
<td>NC71</td>
<td>06:00PM-09:45PM</td>
<td>MW</td>
<td>North Campus</td>
<td>Faculty</td>
<td>6</td>
<td>May 23</td>
<td></td>
</tr>
<tr>
<td>(0297453) CIT 125</td>
<td>NIN01</td>
<td></td>
<td></td>
<td>Internet Course</td>
<td>Faculty</td>
<td>10</td>
<td>May 23</td>
<td></td>
</tr>
</tbody>
</table>

CIT-130 Object-Oriented Programming 1: Java • PREREQUISITE(S): CIT111 or with instructor’s permission
This course uses the skills gained in CIT111 and expands on the concepts of the software development process, data representation and storage, program control structures, objects and classes. Additional topics include event handling, arrays and window based graphical user interfaces (GUIs).

<table>
<thead>
<tr>
<th>EXPRESS CODE#</th>
<th>CATALOG CRSE NO</th>
<th>SECTION</th>
<th>TIME</th>
<th>DAYS</th>
<th>LOCATION</th>
<th>INSTRUCTOR</th>
<th>NUM WKS</th>
<th>BEGINS WK OF</th>
</tr>
</thead>
<tbody>
<tr>
<td>(0298741) CIT 130</td>
<td>NIN01</td>
<td></td>
<td></td>
<td>Internet Course</td>
<td>Moore</td>
<td>10</td>
<td>May 23</td>
<td></td>
</tr>
<tr>
<td>(0297454) CIT 130</td>
<td>SIN1</td>
<td></td>
<td></td>
<td>Internet Course</td>
<td>Grant</td>
<td>6</td>
<td>May 23</td>
<td></td>
</tr>
</tbody>
</table>

CIT-135 Mobile Apps Programming 1 • PREREQUISITE(S): CIT130 or with instructor’s permission
This course is an introduction in creating applications (apps) using an object-oriented computer programming language and the Android mobile operating system. The focus of the course includes the Integrated Development Environment (IDE) and the Software Development Kit (SDK) technologies, graphical user interfaces, object-oriented computer programming, interactive activity classes and the activity life cycle, programming structures, multimedia applications, persistent data and Web application publishing.

<table>
<thead>
<tr>
<th>EXPRESS CODE#</th>
<th>CATALOG CRSE NO</th>
<th>SECTION</th>
<th>TIME</th>
<th>DAYS</th>
<th>LOCATION</th>
<th>INSTRUCTOR</th>
<th>NUM WKS</th>
<th>BEGINS WK OF</th>
</tr>
</thead>
<tbody>
<tr>
<td>(0298879) CIT 135</td>
<td>NIN01</td>
<td></td>
<td></td>
<td>Internet Course</td>
<td>Faculty</td>
<td>6</td>
<td>May 23</td>
<td></td>
</tr>
<tr>
<td>(0299116) CIT 135</td>
<td>SIN1</td>
<td></td>
<td></td>
<td>Internet Course</td>
<td>Faculty</td>
<td>6</td>
<td>May 23</td>
<td></td>
</tr>
</tbody>
</table>

CIT-140 Office Productivity Applications
• PREREQUISITE(S): Basic skills using a personal computer or operating system and some basic exposure to Microsoft Office; high school algebra
This course provides students with knowledge and skills to effectively use spreadsheet and database productivity applications in a work environment. Students learn through applied and project-based activities that go beyond the mechanics of the software. It engages students to utilize critical thinking activities for applied learning and problem solving. Topics include Microsoft Excel, Access and business applications integration.

<table>
<thead>
<tr>
<th>EXPRESS CODE#</th>
<th>CATALOG CRSE NO</th>
<th>SECTION</th>
<th>TIME</th>
<th>DAYS</th>
<th>LOCATION</th>
<th>INSTRUCTOR</th>
<th>NUM WKS</th>
<th>BEGINS WK OF</th>
</tr>
</thead>
<tbody>
<tr>
<td>(0297952) CIT 140</td>
<td>AC61</td>
<td>05:30PM-08:45PM</td>
<td>MW</td>
<td>Allegheny Campus</td>
<td>Gallimore</td>
<td>10</td>
<td>May 23</td>
<td></td>
</tr>
<tr>
<td>(0298738) CIT 140</td>
<td>BC61H</td>
<td>06:00PM-09:45PM</td>
<td>MW</td>
<td>Boyce Campus</td>
<td>Faculty</td>
<td>6</td>
<td>May 23</td>
<td></td>
</tr>
</tbody>
</table>

CIT-141 Word Processing • PREREQUISITE(S): Basic skills using a personal computer and operating system, keyboarding and some basic exposure to Microsoft Office.
This course introduces basic and intermediate word processing concepts and applications. Topics include preparation of a variety of documents and mastery of specialized software functions. Upon completion, students should be able to work effectively in a computerized word processing environment using Microsoft Word.

<table>
<thead>
<tr>
<th>EXPRESS CODE#</th>
<th>CATALOG CRSE NO</th>
<th>SECTION</th>
<th>TIME</th>
<th>DAYS</th>
<th>LOCATION</th>
<th>INSTRUCTOR</th>
<th>NUM WKS</th>
<th>BEGINS WK OF</th>
</tr>
</thead>
<tbody>
<tr>
<td>(0297457) CIT 141</td>
<td>AIN01</td>
<td></td>
<td></td>
<td>Internet Course</td>
<td>Lauzer</td>
<td>10</td>
<td>May 23</td>
<td></td>
</tr>
</tbody>
</table>

CIT-142 Desktop Publishing Concepts • PREREQUISITE(S): Basic skills using a personal computer and Windows operating system, keyboarding, and experience with Microsoft Word.
This course introduces the fundamentals of word and image production using a personal computer. This course provides hands-on development that emphasizes the elements of page composition, publication design, text construction, graphs, and business applications. Upon completion, students should be able to work effectively in producing flyers, proposals, and brochures in a computerized office environment using Microsoft Word and Publisher.

<table>
<thead>
<tr>
<th>EXPRESS CODE#</th>
<th>CATALOG CRSE NO</th>
<th>SECTION</th>
<th>TIME</th>
<th>DAYS</th>
<th>LOCATION</th>
<th>INSTRUCTOR</th>
<th>NUM WKS</th>
<th>BEGINS WK OF</th>
</tr>
</thead>
<tbody>
<tr>
<td>(0298742) CIT 142</td>
<td>BIN1</td>
<td></td>
<td></td>
<td>Internet Course</td>
<td>Pauli</td>
<td>10</td>
<td>May 23</td>
<td></td>
</tr>
</tbody>
</table>

CIT-145 Programming in C • PREREQUISITE(S): CIT111 or strong previous programming experience.
A course to develop a working knowledge of C. Topics include: program structure, data types and variables, bit operators, control structures, input and output, arrays, pointers and an introduction to data structures. This is not an introduction to programming using C, it is C programming for programmers.

<table>
<thead>
<tr>
<th>EXPRESS CODE#</th>
<th>CATALOG CRSE NO</th>
<th>SECTION</th>
<th>TIME</th>
<th>DAYS</th>
<th>LOCATION</th>
<th>INSTRUCTOR</th>
<th>NUM WKS</th>
<th>BEGINS WK OF</th>
</tr>
</thead>
<tbody>
<tr>
<td>(0297458) CIT 145</td>
<td>BIN1</td>
<td></td>
<td></td>
<td>Internet Course</td>
<td>Moore</td>
<td>10</td>
<td>May 23</td>
<td></td>
</tr>
<tr>
<td>(0299117) CIT 145</td>
<td>SIN1</td>
<td></td>
<td></td>
<td>Internet Course</td>
<td>Faculty</td>
<td>10</td>
<td>May 23</td>
<td></td>
</tr>
</tbody>
</table>

CIT-150 PC Components and Operating Systems • PREREQUISITE(S): CIT115
This course provides students with the knowledge and skills involved with managing and maintaining a personal computer environment. Topics include system architecture, boot process, hardware installation, motherboard, memory, installing & optimizing storage devices, input/output devices, multimedia devices, managing & supporting a Windows operating system environment, networked computers, printers and troubleshooting & maintenance fundamentals.

<table>
<thead>
<tr>
<th>EXPRESS CODE#</th>
<th>CATALOG CRSE NO</th>
<th>SECTION</th>
<th>TIME</th>
<th>DAYS</th>
<th>LOCATION</th>
<th>INSTRUCTOR</th>
<th>NUM WKS</th>
<th>BEGINS WK OF</th>
</tr>
</thead>
<tbody>
<tr>
<td>(0297459) CIT 150</td>
<td>BIN1</td>
<td></td>
<td></td>
<td>Internet Course</td>
<td>Pauli</td>
<td>10</td>
<td>May 23</td>
<td></td>
</tr>
</tbody>
</table>
### CIT Computer Information Technology

<table>
<thead>
<tr>
<th>EXPRESS CODE#</th>
<th>CATALOG</th>
<th>CRSE NO</th>
<th>SECTION</th>
<th>TIME</th>
<th>DAYS</th>
<th>LOCATION</th>
<th>INSTRUCTOR</th>
<th>NUM WKS</th>
<th>BEGINS WK</th>
<th>OF</th>
</tr>
</thead>
</table>

#### CIT-155 Excel Spreadsheets 3 credits
- **PREREQUISITE(S):** Basic skills using a personal computer and Windows operating system, keyboarding and basic exposure to Microsoft Office. Ability to effectively manage Windows files and folders. This course is a comprehensive use of electronic spreadsheets in solving business and technical problems using Microsoft Excel. Students learn through applied and project-based activities that go beyond the mechanics of the software. It engages students to utilize critical thinking activities for applied learning and problem solving. Topics include preparation of a variety of documents and mastery of specialized software functions.

   (0297460) CIT 155 NIN01 Internet Course Faculty 10 May 23

#### CIT-161 Visual Basic: Windows Programming 4 credits
- **PREREQUISITE(S):** CIT111 or previous experience with an object-oriented programming language

This course introduces students to developing applications for a Windows environment using Visual Basic. The course emphasizes designing graphical user interfaces/dialogues and event-driven programming. Topics include creating and using classes, the design of the graphical user interface, human-computer interaction, testing and evaluation, rapid prototyping, design tools, database access with SQL, and ADO.NET.

   (0297461) CIT 161 BIN1 Internet Course Dvorak 10 May 23

#### CIT-175 Cyberspace Vulnerabilities and Risks 3 credits

This course introduces students to the fundamentals of Cybersecurity, such as cybersecurity goals, vulnerabilities, threats and risks. Students also learn to use the methods and tools for cybersecurity vulnerability scanning and risk assessment.

   (0297462) CIT 175 SIN1 Internet Course Wang 10 May 23

#### CIT-180 Computer Forensics 1 3 credits
- **PREREQUISITE(S):** CIT115 or instructor approval

This course introduces students to the fundamentals of the computers field and technology. Students will obtain essential knowledge of the computer forensics profession, legal issues and procedures of computer investigations and digital evidence management, industry-standard computer forensic tools, file systems, data recovery and collection, and sample case evaluations. Each student is required to sign an ethical agreement with the instructor.

   (0297463) CIT 180 SIN1 Internet Course Wang 10 May 23

#### CIT-181 Principles of Information Security 4 credits
- **PREREQUISITE(S):** CIT115 or instructor approval

This course provides students necessary background in the technical realities and legal and theoretical principles of computer and information security to help them identify and evaluate computer security crimes and incidents. Topics include information security components and models, legal and ethical issues in information security and privacy, basics of computer networks and data communication, common computer and network system threats, attacks, and vulnerabilities, as well as information security risk and damage analysis and assessment.

   (0298880) CIT 181 NIN41 Internet Course Faculty 6 Jul 05
   (0297464) CIT 181 SIN1 Internet Course Wang 10 May 23

#### CIT-185 Network Security 3 credits
- **PREREQUISITE(S):** CIT175

This course highlights the models and protocols essential to securing wired and wireless networks. Students also learn to capture and analyze network traffic, identify network security threats, and apply and evaluate network security controls.

   (0298708) CIT 185 SIN1 Internet Course Wang 10 May 23

#### CIT-186 Intrusion Detection and Prevention 3 credits
- **PREREQUISITE(S):** CIT175

This course covers the basic theory and practice of detecting and preventing intrusions and attacks in cyberspace. The study emphasis is on methods and tools to monitor for and identify system vulnerabilities and threats and prevent attacks.

   (0298709) CIT 186 SIN1 Internet Course Wang 10 May 23

#### CIT-215 Systems Analysis and Design 3 credits
- **PREREQUISITE(S):** Last or next-to-last semester of a CIT certificate/degree program or permission of the instructor

Students utilize a system development methodology through team-based projects that demonstrate their Information Technology skills. Topics include life cycle phases; determination of user system requirements; logical & physical design; test planning; implementation planning; performance evaluation; software package evaluation and acquisition; prototyping; structured & object-oriented methodologies; development and adherence to the system life cycle standards; and designing interfaces and dialogues. This course encourages interpersonal skill development with clients, users, team members and others associated with development, operation and maintenance of the system. This course also acts as a capstone for CIT programs, allowing students to achieve a better perspective of the academic, personal, and professional requirements of their chosen IT profession.

   (0297465) CIT 215 SIN1 Internet Course Grant 6 May 23

#### CIT-220 Linux Operating System 3 credits
- **PREREQUISITE(S):** CIT115

This course introduces students to the Linux operating system. Lecture and classroom labs utilize a Linux operating system environment to explore the following topics: Installation, Bash shell, the command line interface, file systems, file maintenance tools & commands, window manager configuration, and simple shell scripting. The course is intended for students with some experience of other operating systems but with little or no experience with Linux and can be used in preparation for various Linux certification examinations.

   (0297466) CIT 220 BIN1 Internet Course Pauli 10 May 23

#### CIT-230 Database Systems 4 credits
- **PREREQUISITE(S):** Previous programming experience required

This course covers information systems design and implementation within a database management system (DBMS) environment. The use of relational database technology is emphasized in the course. Students learn to create data models of user's needs, gain foundation skills in database design, and learn to use standard Structured Query Language (SQL) to interact with databases. Topics covered include the relational database model, SQL, Entity Relationship Modeling, normalization of database tables, database design, distributed database systems, and client/server architectures. Students will use a commercial DBMS for their project development.

   (0297467) CIT 230 SIN1 Internet Course Grant 6 May 23

#### CIT-244 Object-Oriented Programming 2/Java 4 credits
- **PREREQUISITE(S):** CIT130

This course builds on the concepts of software design and development introduced in CIT-130. Review basic Object-Oriented design and program structure in the creation of Java applications. The focus of this course is on Object-Oriented design data encapsulation, graphical user interfaces, exception handling, multi-threading, Input/Output processes and data structure is a comprehensive use of the Java programming language to solve real-world problems.

   (0299062) CIT 244 SIN1 Internet Course Grant 6 May 23

#### CIT-251 Windows Server Operating System 4 credits
- **PREREQUISITE(S):** CIT120

This course presents lectures and hands-on labs involving Windows Server administration, as well as technical support knowledge and skills necessary to install, upgrade, and maintain a single LAN that uses Windows Server. Students learn and practice the following network administration concepts: planning for server hardware and network protocols, planning the Active Directory and Security, server installation, server configuration, configuring storage, backup options, managing accounts, managing printers, remote access and virtual private networks, managing Internet and network operability, server monitoring and optimization, network monitoring, and troubleshooting.

   (0298743) CIT 251 BIN1 Internet Course Dvorak 10 May 23

This schedule is published by the Community College of Allegheny County. Although the information herein is accurate as of the publication date, schedule changes routinely occur up to, and including, the start of classes. For the most up-to-date information, visit ccac.edu or the campus you plan to attend.
### CIT Computer Information Technology

<table>
<thead>
<tr>
<th>EXPRESS CODE#</th>
<th>CATALOG CRSE NO</th>
<th>SECTION NO</th>
<th>TIME</th>
<th>DAYS</th>
<th>LOCATION</th>
<th>INSTRUCTOR</th>
<th>NUM WKS</th>
<th>BEGINS WK OF</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CIT-600</strong></td>
<td>Introduction to Windows</td>
<td>1 credit</td>
<td>(0299118) CIT 600</td>
<td>SIN1</td>
<td>Internet Course</td>
<td>Faculty</td>
<td>4</td>
<td>May 23</td>
</tr>
</tbody>
</table>

**CIT-601** Introduction to Internet Research  
• PREREQUISITE(S): Basic skills using a personal computer and operating system.

This course introduces students to the Internet as an information retrieval tool and teaches strategies for locating and analyzing information. The course is designed to help students develop the basic information literacy skills necessary for college course work, general research and for lifelong learning in an information-centered society. Students considering taking a Web-based or Web-enhanced class at CCAC will also benefit from the discussion and use of the Blackboard facility. This course is graded on a Pass/Fail basis.

(0298341) CIT 601 | AC45 | 09:00AM-04:50PM | S | Allegheny Campus | Lehotay | 2 | Jun 04 |

| **CIT-602** Presentation Graphics: Powerpoint | 1 credit |
| *PREREQUISITE(S): Basic skills using a personal computer and operating system, and some basic exposure to Microsoft Office.*

This course is an introduction to the use of presentation graphics software to provide professional presentations using Microsoft PowerPoint. Topics include using the software and working with master slides. This course is graded on a Pass/Fail basis.

(0297673) CIT 602 | SIN1 | Internet Course | Wrigley | 10 | May 23 |

| **CIT-604** Electronic Spreadsheets: Excel | 1 credit |
| *PREREQUISITE(S): Basic skills using a personal computer and operating system, and some basic exposure to Microsoft Office.*

This course is an introduction to the use of electronic spreadsheets in solving business and technical problems using Microsoft Excel. Topics include basic spreadsheet concepts involving designing spreadsheets, formulas, functions, and macro instructions. This course is graded on Pass/Fail basis.

(0297644) CIT 604 | B1N1 | Internet Course | Pauli | 4 | May 23 |

(0297684) CIT 604 | NIN41 | Internet Course | Faculty | 6 | Jul 05 |

| **CIT-606** Database Management: Access | 1 credit |
| *PREREQUISITE(S): Basic skills using a personal computer and operating system, and some basic exposure to Microsoft Office.*

This course is an introduction to the use of database management software using Microsoft Access. Topics include basic database concepts, creating a simple database, navigation, sorting and searching, creating forms, queries, reports, and labels. This course is graded on a Pass/Fail basis.

(0299090) CIT 606 | SIN1 | Internet Course | Ottramann | 10 | May 23 |

| **CIT-607** Office Management:Outlook | 1 credit |
| *PREREQUISITE(S): Basic skills using a personal computer and Windows operating system, and some basic exposure to Microsoft Office.*

This course focuses on developing Microsoft Outlook skills necessary to send e-mail, keep a calendar, store notes, organize tasks, and keep track of contracts in a small office or home environment. This course is graded on a pass/fail basis.

(0298421) CIT 607 | AC46 | 09:00AM-04:50PM | S | Allegheny Campus | Lehotay | 2 | Jul 09 |

(0298715) CIT 607 | SIN1 | Internet Course | Wrigley | 10 | May 23 |

| **CIT-609** Word Processing:Word | 1 credit |
| *PREREQUISITE(S): Basic skills using a personal computer and operating system.*

This course is an introduction to the use of word processing software to provide professional documents using Microsoft Word. Topics include basic word processing concepts, formatted text and graphics, tables, and organizing reference content and content sources. This course is graded on a Pass/Fail basis.

(0298746) CIT 609 | B1N1 | Internet Course | Faculty | 4 | May 23 |

| **CIT-615** Computer Applications in Health Care | 1 credit |
| *PREREQUISITE(S): Basic skills using a personal computer and operating system, and some basic exposure to Microsoft Office.*

This course provides an overview of actual and potential uses within the health care system. Emphasis is on learning about computer applications and their uses specific to nursing/allied health care. A hand-on component is included as part of the course. This course is graded on a pass/fail basis.

(0298342) CIT 615 | AC45 | 09:00AM-04:50PM | S | Allegheny Campus | Parrish | 2 | Jun 18 |

(0298422) CIT 615 | AC46 | 09:00AM-04:50PM | S | Allegheny Campus | Parrish | 2 | Jul 09 |

(0299119) CIT 615 | SIN1 | Internet Course | Faculty | 4 | May 23 |

| **CIT-617** Introduction to Microsoft Project | 1 credit |
| *PREREQUISITE(S): Basic skills using a personal computer and operating system and some basic exposure to Microsoft Office.*

This course is an introduction to the usage of project management software using Microsoft Project. Topics include project management concepts and applications, task project schedules, project management tools and cost and resource allocations to effectively manage projects. The course is graded on a pass/fail basis.

(0299120) CIT 617 | SIN1 | Internet Course | Faculty | 4 | May 23 |

| **CIT-641** Computer Information Security | 1 credit |
| *PREREQUISITE(S): Regular experience using computers and Internet*  

This course is an introduction to practical computer and data security topics for all users, including business professionals and home users. Coverage includes general information security concepts, personal computer security, internet and e-mail security, wired and wireless network security, and organizational data security and risk assessment. This course is graded on a Pass/Fail basis.

(0299121) CIT 641 | SIN1 | Internet Course | Faculty | 4 | May 23 |

| **CIT-655** Swift Programming Software Developer | 1 credit |
| *PREREQUISITE(S): CIT-111 or previous experience with an object-oriented programming language.*

This course is an introduction to the Apple Swift object-oriented computer programming language. The focus of the course includes the integrated Development Environment (IDE), along with various software development tools, to create computer programs written in Swift. Additional course topics include program variables and data types, conditional and control programing structures, foundation frameworks, object-oriented computer programming concepts and applications, and collections. The course is graded on a pass/fail basis.

(0299159) CIT 655 | SIN1 | Internet Course | Faculty | 5 | May 23 |

**CJC Criminal Justice & Criminology**  
3 credits

<table>
<thead>
<tr>
<th>EXPRESS CODE#</th>
<th>CATALOG CRSE NO</th>
<th>SECTION NO</th>
<th>TIME</th>
<th>DAYS</th>
<th>LOCATION</th>
<th>INSTRUCTOR</th>
<th>NUM WKS</th>
<th>BEGINS WK OF</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CJC-101</strong></td>
<td>Introduction to Criminal Justice</td>
<td>3 credits</td>
<td>(0298135) CJC 101</td>
<td>AC01R</td>
<td>08:30AM-12:15PM</td>
<td>TR</td>
<td>Allegheny Campus</td>
<td>Shaheen</td>
</tr>
</tbody>
</table>

(0297468) CJC 101 | SIN1 | Internet Course | Noel | 10 | May 23 |

*An asterisk to the left of the course indicates that a lab fee will be assessed for that course.*
This course is designed to provide students with an overview of the U.S. correctional system. The philosophy, ethical dilemmas and methods of imposing sanctions upon offenders in the criminal justice system will be explored in depth. Exploration of the theories and practice in probation, parole, community-based services, jails, prisons and capital punishment will comprise much of the course.

(0297469) CRT 102 AIN01 Internet Course Shaheen 10 May 23

CJC-124 Juvenile Justice & Juvenile Delinquency

This course is a study of delinquent and criminal behavior of adolescents as it relates to the history of juvenile justice philosophy and policy in the United States. Causations as well as treatment and prevention programs are considered. The proper handling and referral of juveniles involved in criminal and status offenses are discussed. Issues involved in the operation of juvenile courts and court related programs are studied. Juvenile drug addiction, mental illness and habitual offenders are discussed.

(0297470) CRT 124 BIN1 Internet Course Joyce 10 May 23

CJC-151 Criminal Justice System Law

This course examines criminal, constitutional and procedural law. The basic constitutional rights applicable to those involved in the criminal justice system from arrest to sentencing are discussed. The development of public policy in the administration of criminal justice and the legal principles for determining criminal and civil liability are studied.

(0298845) CJC 151 SIN1 Internet Course O'Donnell 10 May 23

CJC-152 Ethics in Criminal Justice

This course is a study of ethical issues and dilemmas encountered by the professional in the fields of criminal justice. Corruption, brutality and morality are discussed in relation to the duties in criminal justice organizations.

(0297471) CJC 152 NIN01 Internet Course O'Donnell 10 May 23

CJC-201 Fundamentals of Criminal Investigation

This course is an introduction to criminal investigation procedures including theory, techniques and problems. Case preparation, investigative techniques, questioning of witnesses and suspects, and collection and preservation of evidence are studied.

(0297472) CJC 201 BIN1 Internet Course Joyce 10 May 23

CJC-203 Evidence and Procedures

This course is a study of the principles, duties and mechanics of criminal justice procedures in the United States and the Commonwealth of Pennsylvania as they apply to search and seizure, arrest and investigations. Also considered is the evaluation of evidence and proof with regard to kind, degree, admissibility, competence and weight. The course emphasizes rules of evidence at the operational level of law enforcement.

(0297473) CJC 203 SIN1 Internet Course Noel 10 May 23

CJC-204 Criminal Justice System Organization & Administration

This is a course involving the organization and administration of criminal justice system agencies. Topics include functions and activities, planning and research, public relations, personnel and training inspection and control, and policy formulation in criminal justice system agencies.

(0297474) CJC 204 AIN01 Internet Course Shaheen 10 May 23

CJC-205 Introduction to Forensics

This course is a study of the scientific aspects of criminal investigation. Included are the study of fingerprints, the application of forensic sciences and the collection and examination of evidence. The student learns the capabilities of the advanced police science laboratory in the study of firearms, hair, fibers, blood, paint, tools, poisons and other material.

* (0297475) CJC 205 BIN1 Internet Course Joyce 10 May 23

CJC-206 Police Operations

This course is a study of law enforcement from an operational perspective. Law enforcement functions such as patrol, communications investigations, traffic, special operations and other line and staff functions are reviewed. Officer safety and duty-related stress are also examined.

(0297476) CJC 206 NIN01 Internet Course O'Donnell 10 May 23

CJC-207 Introduction to Criminology

This course is a survey of the patterns and trends in adult criminal behavior and juvenile delinquency analyzed in terms of various theories of such behavior. Students will also examine types of crime and the administration of justice. Material is presented describing the types and amount of crime in the United States. Characteristics such as age, race, gender and class of offender types are discussed. The development between society, the criminal justice system and the offender is examined. The current correctional practices that focus on the goals, organization, functions and operations of state, county and local correctional systems are examined. Theories on crime causation are analyzed.

(0297477) CJC 207 AIN01 Internet Course Shaheen 10 May 23

CJC-211 Treatment Offenders: Issues/Strategies

An examination of the history and philosophy of treatment, the structure of the correctional system and the legal basis for treatment. Consideration is given to the history of corrections and how that history has shaped treatment approaches. This course focuses on treatment modalities presently employed in working with offenders. This course also examines issues of public safety, security, and raises questions whether any treatment methods are in fact effective.

(0298808) CJC 211 NIN01 Internet Course O'Donnell 10 May 23

CLR Culinary Arts

CLR-211 Menu Design

A course in menu design. Included are principles and practices of pricing menus, ordering, converting recipes from small to large quantities, various types of menus, and food preferences of the public. The principles of nutrition for planning well-balanced menus receive special emphasis.

(0297553) CLR 211 A01 04:00PM-09:10PM M Allegheny Campus Faculty 10 May 23

CRT Court Reporting

CRT-106 Question and Answer 1 • PREREQUISITE(S): CRT102, CRT104 COREQUISITE(S): CRT107, CRT108

This course emphasizes speed development and readback of Question and Answer material. Appropriate abbreviations and phrases used in testimony are reviewed. Colloquy designations are stressed in multi-voice material. The goal is writing 120-140 words per minute for five minutes with transcription accuracy of 95 percent or better using Case CATalyst software.

* (0297954) CRT 106 AC01 09:00AM-02:10PM M Allegheny Campus Faculty 10 May 23

* (0297955) CRT 106 AC02 09:00AM-02:10PM M Allegheny Campus Faculty 10 May 23

CRT-107 Jury Charge 1 • PREREQUISITE(S): CRT102, CRT104 COREQUISITE(S): CRT106, CRT108

This course emphasizes speed development and readback of Jury Charge material. Appropriate abbreviations and phrases used in Jury Charge are reviewed. The goal is writing 120-140 words per minute for five minutes with transcription accuracy of 95 percent or better using Case CATalyst software.

* (0297956) CRT 107 AC01 09:00AM-01:30PM T Allegheny Campus Faculty 10 May 23

* (0297957) CRT 107 AC02 09:00AM-01:30PM T Allegheny Campus Faculty 10 May 23

This schedule is published by the Community College of Allegheny County. Although the information herein is accurate as of the publication date, schedule changes routinely occur up to, and including, the start of classes. For the most up-to-date information, visit ccac.edu or the campus you plan to attend.
This course provides an orientation to the practice of dietetics in a health care facility under the supervision of a Registered Dietitian (RD). The principles of nutrition care and foodservice and Medical Nutrition Therapy. In addition to providing didactic support for the practicum it enables the students to share and gain by their individual experiences. This course provided concurrently with Dietetic Practicum 1, this course presents a review of the material presented in Fundamentals of Nutrition, Foods, Food Service Production and Purchasing.

PREREQUISITE(S): DIT102, DIT103, DIT104, DIT106, DIT110, DIT114, DIT125, ALH140 • COREQUISITE(S): DIT201

This course emphasizes speed development of Literary material. Oral note reading is also stressed. The goal is writing 150-160 words per minute for five minutes with transcription accuracy of 95 percent or better using Case CATalyst software.

*CRT206 Question and Answer 2 • PREREQUISITE(S): CRT206 • COREQUISITE(S): CRT207, CRT208

This course emphasizes speed development and backread of Question and Answer material. Appropriate abbreviations and phrases used in testimony are reviewed. Colloquy designations are stressed in multi-voice material. The goal is writing 140-160 words per minute for five minutes with transcription accuracy of 95 percent or better using Case CATalyst software.

*CRT207 Jury Charge 2 • PREREQUISITE(S): CRT207 • COREQUISITE(S): CRT206, CRT208

This course emphasizes speed development and backread of Jury Charge material. Appropriate abbreviations and phrases used in Jury Charge are reviewed. The goal is writing 160-180 words per minute for five minutes with transcription accuracy of 95 percent or better using Case CATalyst software.

*CRT208 Jury Charge 3 • PREREQUISITE(S): CRT208 • COREQUISITE(S): CRT216, CRT217

This course emphasizes speed development and backread of Jury Charge material. Appropriate abbreviations and phrases used in Jury Charge are reviewed. The goal is writing 180 words per minute for five minutes with transcription accuracy of 95 percent or better using Case CATalyst software.

*CRT216 Question and Answer 3 • PREREQUISITE(S): CRT206 • COREQUISITE(S): CRT217, CRT218

This course emphasizes speed development and backread of Question & Answer material. Appropriate abbreviations and phrases used in testimony are reviewed. Colloquy designations are stressed in multi-voice material. The goal is writing 180 words per minute for five minutes with transcription accuracy of 95 percent or better using Case CATalyst software.

*CRT217 Jury Charge • PREREQUISITE(S): CRT207 • COREQUISITE(S): CRT216, CRT218

This course emphasizes speed development and backread of Jury Charge material. Appropriate abbreviations and phrases used in Jury Charge are reviewed. The goal is writing 160-180 words per minute for five minutes with transcription accuracy of 95 percent or better using Case CATalyst software.

*CRT218 Jury Charge 3 • PREREQUISITE(S): CRT207 • COREQUISITE(S): CRT216, CRT217

This course emphasizes speed development and backread of Jury Charge material. Appropriate abbreviations and phrases used in Jury Charge are reviewed. The goal is writing 180 words per minute for five minutes with transcription accuracy of 95 percent or better using Case CATalyst software.

*CRT219 Jury Charge 4 • PREREQUISITE(S): CRT217 COREQUISITE(S): CRT226, CRT228

This course emphasizes speed development and backread of Jury Charge material. Appropriate abbreviations and phrases used in Jury Charge are reviewed. The goal is writing 200 words per minute for five minutes with transcription accuracy of 95 percent or better using Case CATalyst software. This proficiency must be demonstrated three times.

*CRT220 Question and Answer 4 • PREREQUISITE(S): CRT216 • COREQUISITE(S): CRT227, CRT228

This course emphasizes speed development and backread of Question & Answer material. Appropriate abbreviations and phrases used in testimony are reviewed. Colloquy designations are stressed in multi-voice material. The goal is writing 225 words per minute for five minutes with transcription accuracy of 95 percent or better using Case CATalyst software.

*CRT221 Jury Charge 5 • PREREQUISITE(S): CRT218 • COREQUISITE(S): CRT226, CRT228

This course emphasizes speed development and backread of Jury Charge material. Appropriate abbreviations and phrases used in Jury Charge are reviewed. The goal is writing 200 words per minute for five minutes with transcription accuracy of 95 percent or better using Case CATalyst software. This proficiency must be demonstrated three times.

*CRT222 Question and Answer 5 • PREREQUISITE(S): CRT219 • COREQUISITE(S): CRT227, CRT228

This course emphasizes speed development and backread of Question & Answer material. Appropriate abbreviations and phrases used in testimony are reviewed. Colloquy designations are stressed in multi-voice material. The goal is writing 225 words per minute for five minutes with transcription accuracy of 95 percent or better using Case CATalyst software. This proficiency must be demonstrated three times.

*CRT223 Jury Charge 6 • PREREQUISITE(S): CRT220 • COREQUISITE(S): CRT228

This course emphasizes speed development and backread of Jury Charge material. Appropriate abbreviations and phrases used in Jury Charge are reviewed. The goal is writing 200 words per minute for five minutes with transcription accuracy of 95 percent or better using Case CATalyst software. This proficiency must be demonstrated three times.

*CRT224 Question and Answer 6 • PREREQUISITE(S): CRT221 • COREQUISITE(S): CRT228

This course emphasizes speed development and backread of Question & Answer material. Appropriate abbreviations and phrases used in testimony are reviewed. Colloquy designations are stressed in multi-voice material. The goal is writing 225 words per minute for five minutes with transcription accuracy of 95 percent or better using Case CATalyst software. This proficiency must be demonstrated three times.

*CRT225 Jury Charge 7 • PREREQUISITE(S): CRT222 • COREQUISITE(S): CRT228

This course emphasizes speed development and backread of Jury Charge material. Appropriate abbreviations and phrases used in Jury Charge are reviewed. The goal is writing 200 words per minute for five minutes with transcription accuracy of 95 percent or better using Case CATalyst software. This proficiency must be demonstrated three times.

*CRT226 Question and Answer 7 • PREREQUISITE(S): CRT223 • COREQUISITE(S): CRT228

This course emphasizes speed development and backread of Question & Answer material. Appropriate abbreviations and phrases used in testimony are reviewed. Colloquy designations are stressed in multi-voice material. The goal is writing 225 words per minute for five minutes with transcription accuracy of 95 percent or better using Case CATalyst software. This proficiency must be demonstrated three times.

*CRT227 Jury Charge 8 • PREREQUISITE(S): CRT224 • COREQUISITE(S): CRT228

This course emphasizes speed development and backread of Jury Charge material. Appropriate abbreviations and phrases used in Jury Charge are reviewed. The goal is writing 200 words per minute for five minutes with transcription accuracy of 95 percent or better using Case CATalyst software. This proficiency must be demonstrated three times.

*CRT228 Question and Answer 8 • PREREQUISITE(S): CRT225 • COREQUISITE(S): CRT228

This course emphasizes speed development and backread of Question & Answer material. Appropriate abbreviations and phrases used in testimony are reviewed. Colloquy designations are stressed in multi-voice material. The goal is writing 225 words per minute for five minutes with transcription accuracy of 95 percent or better using Case CATalyst software. This proficiency must be demonstrated three times.

*DAN Dance

DAN-101 Modern Dance 1

This course is an introduction to modern dance. Students will gain an understanding of dance as an art form. Various dance techniques will be explored to further the students physical and kinesthetic abilities. Aesthetic analysis of a variety of dance styles will provide an understanding of the communicative potential of dance. No prior dance training is required.

(DAN101) DAN 101 SC61 06:00PM-09:45PM MW South Campus Maloney 6 May 23

DIT Dietetic

DIT-105L Foods Lab • COREQUISITE(S): DIT104

This is the study of and application of the basic principles of food preparation which includes the study of soups and sauces, starch foods, meats and poultry, fish, shellfish and eggs and desserts. The course culminates in a luncheon project planned and prepared by the class. In addition proper use and care of equipment, sanitation and safe work habits is included. This course requires a per credit health career fee; check the tuition and fee schedule for the current rate.

*(DIT7478) DIT 105L • AIN1 Internet Course Wilson 10 May 23

DIT-106 Fundamentals of Nutrition

This is an introductory course which focuses on the major nutrients, including carbohydrates, fats, protein, vitamins, minerals, and water. Throughout the course, practical application of information is emphasized. Special topics addressed include: weight control, eating dis-orders, and sports nutrition. This course is open to non-dietetics majors. This course requires a per credit health career fee; check the tuition and fee schedule for the current rate.

*(DIT7479) DIT 106 • AIN1 Internet Course Vargo 10 May 23

*(DIT7480) DIT 106 • AIN2 Internet Course Vargo 10 May 23

DIT-113 Dietetic Practicum Seminar 2 credits

• PREREQUISITE(S): DIT102, DIT103, DIT104, DIT106, DIT110, DIT114, DIT125, ALH140 • COREQUISITE(S): DIT201

Provided concurrently with Dietetic Practicum 1, this course presents a review of the material presented in Fundamentals of Nutrition, Foods, Food Service Production and Purchasing, and Medical Nutrition Therapy. In addition to providing didactic support for the practicum it enables the students to share and gain by their individual experiences. This course requires a per credit health career fee; check the tuition and fee schedule for the current rate.

(DIT8157) DIT 113 • AIN1 09:00AM-04:00PM M Allegheny Campus Smith 6 May 23

DIT-201 Dietetic Supervised Practice 1 • PREREQUISITE(S): DIT102, DIT103, DIT105L, DIT110, DIT114 DIT125 COREQUISITE(S): DIT113

This course provides an orientation to the practice of dietetics in a health care facility under the supervision of a Registered Dietitian (RD). The principles of nutrition care and foodservice operations are observed and practiced. This course requires a per credit health career fee; check the tuition and fee schedule for the current rate.

(DIT8136) DIT 201 AC51 08:00AM-04:00PM TWRF Hospital Site Allegheny Smith 6 May 23
**DVS Developmental Studies**

<table>
<thead>
<tr>
<th>EXPRESS</th>
<th>CATALOG</th>
<th>CRSE NO</th>
<th>SECTION</th>
<th>TIME</th>
<th>DAYS</th>
<th>LOCATION</th>
<th>INSTRUCTOR</th>
<th>NUM WKS</th>
<th>BEGINS WK OF</th>
</tr>
</thead>
</table>

**DVS-060 College Academic Strategies** • PREREQUISITE(S): Reading Placement Test • COREQUISITE(S): DVS070

This course helps students acquire strategies essential for college study including taking classroom notes, developing time management skills, preparing for tests, organizing a notebook and developing communication skills. In addition, students learn basic research skills. This course develops the specific college reading skills and learning strategies which will enable the student to read academic texts efficiently, effectively and independently. The course identifies and responds to the author's purpose for writing. Students are encouraged to see reading, writing, and study as interconnected, interactive processes. Students must earn a “C” grade or better to register for the next course in this discipline or to use this course as a prerequisite for a course in another discipline.

- (029828) DVS 060 AC01 12:30PM-02:30PM MW Alledhegy Campus Fischer 8 Jun 06
- (029828) DVS 060 AC61 05:30PM-07:30PM MW Alledhegy Campus Miles 8 Jun 06
- (029834) DVS 060 BC01 01:15PM-03:15PM TR Boyce Campus Faculty 8 Jun 14
- (029824) DVS 060 HB01 09:30AM-11:30AM MW Homewood Bruston Center Faculty 8 Jun 06
- (029827) DVS 060 NC01 08:30AM-11:05AM MW North Campus Faculty 8 Jun 06
- (029790) DVS 060 SC01 08:00AM-09:25AM TR South Campus Faculty 10 May 23
- (029893) DVS 060 WH01 08:30AM-11:05AM MW West Hills Center Faculty 8 Jun 06

**DVS-070 College Reading 1** • PREREQUISITE(S): Reading Placement Test • COREQUISITE(S): DVS060

This course emphasizes the application of study and reading strategies that are initially presented in College Reading 1. Students are required to apply various study and reading strategies to enhance comprehension, critical thinking, and effective learning. Students learn to identify and utilize organizational patterns and apply critical reading skills in making judgments about texts. DVS070 will normally be followed by DVS101 unless the student's progress has been so accelerated in DVS070 that the department advises against a subsequent course. Students must earn a “C” grade or better to register for the next course in this discipline or to use this course as a prerequisite for a course in another discipline.

- (029797) DVS 070 AC01 08:30AM-10:30AM R Alledhegy Campus Young 10 May 23
- (029797) DVS 070 AC61 10:30AM-11:15AM R Alledhegy Campus Young 10 May 23
- (029797) DVS 070 AGC1 05:30PM-07:30PM T Alledhegy Campus Young 10 May 23
- (029797) DVS 070 AGC2 07:30PM-08:25PM R Alledhegy Campus Young 10 May 23
- (029797) DVS 070 ACPC 09:00AM-11:00AM M Alledhegy Campus Brooks 10 May 23
- (029797) DVS 070 ACPC 09:00AM-11:00AM W Alledhegy Campus Brooks 10 May 23
- (029797) DVS 070 ACPC 09:00AM-10:00AM F Alledhegy Campus Brooks 10 May 23
- (029834) DVS 070 BC01 10:45AM-01:05PM MTWR Boyce Campus Faculty 8 Jun 14
- (029797) DVS 070 BC01 12:30PM-02:30PM MW Homewood Bruston Center Young 10 May 23
- (029828) DVS 070 NC01 10:30AM-12:35PM MW North Campus Faculty 8 Jun 06
- (029797) DVS 070 SC01 09:30AM-12:35PM TR South Campus Faculty 10 May 23
- (029893) DVS 070 WH01 10:30AM-12:35PM MW West Hills Center Faculty 8 Jun 06

**DVS-101 College Reading 2** • PREREQUISITE(S): DVS070

This course emphasizes the application of study and reading strategies that are initially presented in College Reading 1. Students are required to apply various study and reading strategies in understanding textbook and supplementary readings. They are also taught the significance of experiential background for reading comprehension and the importance of identifying and responding to the author's purpose for writing. Students are encouraged to see reading, writing, and study as interconnected, interactive processes. Students must earn a “C” grade or better to register for the next course in this discipline or to use this course as a prerequisite for a course in another discipline.

- (029825) DVS 101 AC01 12:30PM-02:35PM M Alledhegy Campus Gelo 8 Jun 06
- (029825) DVS 101 AC61 12:30PM-02:30PM W Alledhegy Campus Gelo 8 Jun 06
- (029825) DVS 101 AC61 02:30PM-04:20PM W Alledhegy Campus Gelo 8 Jun 06
- (029826) DVS 101 AC61 05:30PM-07:30PM M Alledhegy Campus Faculty 8 Jun 06
- (029826) DVS 101 AC61 07:30PM-08:25PM W Alledhegy Campus Faculty 8 Jun 06
- (029826) DVS 101 AC61 05:30PM-08:25PM M Alledhegy Campus Faculty 8 Jun 06
- (029818) DVS 101 BC01H 08:00AM-10:30AM TR Boyce Campus Faculty 6 May 23
- (029827) DVS 101 HB01 09:00AM-11:40AM TR Homewood Bruston Center Krishnaiah 8 Jun 06
- (029829) DVS 101 NC01 08:30AM-11:55AM TR North Campus Faculty 8 Jun 06

**DVS-103 Adv College Reading & Study Skills** • PREREQUISITE(S): Reading Placement Test

This course develops the specific college reading skills and learning strategies which will enable the student to read academic texts efficiently, effectively and independently. The course emphasis is on the transfer and practical application of comprehension, critical thinking, vocabulary and study skills to college-level text material. Students must earn a “C” grade or better to register for the next course in this discipline or to use this course as a prerequisite for a course in another discipline.

- (029828) DVS 103 AC01 08:30AM-11:25AM M Alledhegy Campus Faculty 8 Jun 06
- (029828) DVS 103 AC61 08:30AM-10:30AM W Alledhegy Campus Faculty 8 Jun 06
- (029828) DVS 103 AC61 10:30AM-11:25AM W Alledhegy Campus Faculty 8 Jun 06
- (029828) DVS 103 AC02 09:00AM-10:40AM T Alledhegy Campus Faculty 8 Jun 06
- (029829) DVS 103 AC02 10:40AM-11:40AM T Alledhegy Campus Faculty 8 Jun 06
- (029829) DVS 103 AC61 09:00AM-11:40AM R Alledhegy Campus Faculty 8 Jun 06
- (029829) DVS 103 AC61 05:30PM-07:25PM M Alledhegy Campus Faculty 8 Jun 06
- (029829) DVS 103 AC61 05:30PM-07:30PM W Alledhegy Campus Faculty 8 Jun 06
- (029829) DVS 103 AC61 07:30PM-08:25PM W Alledhegy Campus Faculty 8 Jun 06
- (029829) DVS 103 BC01H 08:00AM-10:30AM TR Boyce Campus Faculty 6 May 23
- (029829) DVS 103 BC01H 08:00AM-10:30AM TR Boyce Campus Faculty 6 May 23

**PLEASE NOTE:** DVS-060/070/101/103, ENG-089/100, MAT-080/090, ESL-060/070/089/090/100

Students must earn a “C” grade or better to register for the next course in this discipline or to use this course as a prerequisite for a course in another discipline.

This schedule is published by the Community College of Allegheny County. Although the information herein is accurate as of the publication date, schedule changes routinely occur up to, and including, the start of classes. For the most up-to-date information, visit ccac.edu or the campus you plan to attend.
This course is an introduction to the economic activity of the nation, introducing basic concepts and institutions. The emphasis is on aggregate income and spending, the government of the field placement site.

ECO-102 Economics

ECO-107 Health and Safety of Children

This course is an introduction to promoting children's health, safety, nutrition and physical development through informed practice. Childhood illnesses and their care. Basic Life Support (BLS), first aid training and strategies for ensuring children's health and safety in an early childhood setting are discussed. Nutrition and exercise needs of children birth to age 9 and movement activities that facilitate coordination and lay the foundation for later academic success are examined. A weekly field observation in early childhood programs, schools, agencies or therapeutic setting is required. Students must have three current clearances: FBI Fingerprint Clearance, a Pennsylvania State Police Criminal History Clearance, and a Pennsylvania Department of Public Welfare Child Abuse History Clearance and meet the local requirements of the field placement site.

ECD-107 Early Childhood Development: Birth to Age 6

ECD-107 BC85H 05:30PM-09:35PM  T  Boyce Campus  Faculty 6  May 23

ECD-107 BC85H is a hybrid class. See the Online Learning section for more information.

ECD-107 Health and Safety of Children

ECD-107 BC85H is a hybrid class. See the Online Learning section for more information.

ECD-113 Middle Childhood/Adolescent Development

This course provides an overview of physical, cognitive, emotional and social development from middle childhood through adolescence, ages 7 to early adulthood. A range of theoretical viewpoints, research findings and practical issues will be considered in examining this period of development. The dynamic nature of development and the uniqueness of each individual child and the family with middle childhood aged children and/or adolescents will be emphasized. Professional standards for working with 7 year olds to young adults and their families will be stressed. A weekly field observation in early childhood programs, schools, agencies or therapeutic setting is required. Students must have three current clearances: FBI Fingerprint Clearance, a Pennsylvania State Police Criminal History Clearance, and a Pennsylvania Department of Public Welfare Child Abuse History Clearance and meet the local requirements of the field placement site.

ECD-202 Children With Special Needs

ECD-202 Children With Special Needs

ECD-211 Family Systems

ECD-211 Family Systems

ECD-214 Curriculum for Early Childhood Classroom + PREREQUISITE(S): ECD101 or permission of instructor

ECD-214 Curriculum for Early Childhood Classroom + PREREQUISITE(S): ECD101 or permission of instructor

ECE-102 Principles of Macroeconomics

This course is an introduction to the economic activity of the nation, introducing basic concepts and institutions. The emphasis is on aggregate income and spending, the government fiscal and monetary policy, national income accounting, economic growth and comparative economic systems.

ECE-102 Principles of Macroeconomics

ECE-102 Principles of Macroeconomics

PLEASE NOTE: DVS-060/070/101/103, ENG-089/100, MAT-080/090, ESL-060/070/089/090/100

Students must earn a \"C\" grade or better to register for the next course in this discipline or to use this course as a prerequisite for a course in another discipline.

36
**ECO Economics**

<table>
<thead>
<tr>
<th>EXPRESS CODE#</th>
<th>CATALOG CRSE NO</th>
<th>SECTION NO</th>
<th>TIME</th>
<th>DAYS</th>
<th>LOCATION</th>
<th>INSTRUCTOR</th>
<th>NUM WKS</th>
<th>BEGINS WK OF</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECO-103</td>
<td>0297752</td>
<td>ECO 103</td>
<td>AC41</td>
<td>09:00AM-12:45PM</td>
<td>TR</td>
<td>Allegheny Campus</td>
<td>Faculty</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>0297979</td>
<td>ECO 103</td>
<td>AGr1</td>
<td>05:30PM-10:45PM</td>
<td>T</td>
<td>Allegheny Campus</td>
<td>Faculty</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td>0297753</td>
<td>ECO 103</td>
<td>BC41</td>
<td>08:30AM-10:25AM</td>
<td>MTWR</td>
<td>Boyce Campus</td>
<td>Faculty</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>0299018</td>
<td>ECO 103</td>
<td>BC61</td>
<td>08:00PM-09:45PM</td>
<td>TR</td>
<td>Boyce Campus</td>
<td>Faculty</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>0298145</td>
<td>ECO 103</td>
<td>NC01</td>
<td>08:30AM-12:15PM</td>
<td>TR</td>
<td>North Campus</td>
<td>Friancio-Krol</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>0297754</td>
<td>ECO 103</td>
<td>NC41</td>
<td>09:00AM-12:45PM</td>
<td>TR</td>
<td>North Campus</td>
<td>Faculty</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>0297487</td>
<td>ECO 103</td>
<td>NIN01</td>
<td>Internet Course</td>
<td>Faculty</td>
<td>10</td>
<td>May 23</td>
<td></td>
</tr>
<tr>
<td></td>
<td>0297488</td>
<td>ECO 103</td>
<td>NIN02</td>
<td>Internet Course</td>
<td>Faculty</td>
<td>10</td>
<td>May 23</td>
<td></td>
</tr>
<tr>
<td></td>
<td>0297489</td>
<td>ECO 103</td>
<td>NIN03</td>
<td>Internet Course</td>
<td>Faculty</td>
<td>10</td>
<td>May 23</td>
<td></td>
</tr>
<tr>
<td></td>
<td>0298146</td>
<td>ECO 103</td>
<td>SC01</td>
<td>08:00AM-11:45AM</td>
<td>TR</td>
<td>South Campus</td>
<td>Lindenfelser</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>0298867</td>
<td>ECO 103</td>
<td>SIN1</td>
<td>Internet Course</td>
<td>Comon</td>
<td>10</td>
<td>May 23</td>
<td></td>
</tr>
<tr>
<td></td>
<td>0298869</td>
<td>ECO 103</td>
<td>SIN2</td>
<td>Internet Course</td>
<td>Comon</td>
<td>10</td>
<td>May 23</td>
<td></td>
</tr>
<tr>
<td></td>
<td>0298982</td>
<td>ECO 103</td>
<td>WC01</td>
<td>05:30PM-09:15PM</td>
<td>TR</td>
<td>Washington County Center</td>
<td>Faculty</td>
<td>6</td>
</tr>
</tbody>
</table>

**EDD Engineering Design & Drafting**

**EDD-101 Engineering Drawing 1**

This course is based in basic drafting techniques used to produce engineering drawings. Conventional drafting and dimensioning practices as outlined by the National Occupational Skill Standards, American National Standards Institute (ANSI) and International Organization for Standardization (ISO) will be used to produce orthographic drawings, pictorial drawings, auxiliary views and section drawings. Technical drawings will be completed using freehand sketching techniques, conventional drawing tools and CAD.

*PREREQUISITE(S): EDD120*

<table>
<thead>
<tr>
<th>CODE#</th>
<th>CRSE NO</th>
<th>SECTION NO</th>
<th>TIME</th>
<th>DAYS</th>
<th>LOCATION</th>
<th>INSTRUCTOR</th>
<th>NUM WKS</th>
<th>BEGINS WK OF</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDD-101</td>
<td>0298999</td>
<td>EDD 101</td>
<td>SC01</td>
<td>02:00PM-04:10PM</td>
<td>TR</td>
<td>South Campus</td>
<td>Faculty</td>
<td>6</td>
</tr>
</tbody>
</table>

**EDD-120 Introduction to Computer Aided Drafting**

This is an introductory course in computer-aided drafting fundamentals. Students will be introduced to the concepts and techniques used by drafters and designers to create and modify computer generated drawings. Students will learn the commands and functions necessary to input, process and output working drawings to printers and plotters.

*PREREQUISITE(S): EDD120*

<table>
<thead>
<tr>
<th>CODE#</th>
<th>CRSE NO</th>
<th>SECTION NO</th>
<th>TIME</th>
<th>DAYS</th>
<th>LOCATION</th>
<th>INSTRUCTOR</th>
<th>NUM WKS</th>
<th>BEGINS WK OF</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDD-120</td>
<td>0298147</td>
<td>EDD 120</td>
<td>SC01</td>
<td>05:30PM-10:15PM</td>
<td>TR</td>
<td>South Campus</td>
<td>Faculty</td>
<td>6</td>
</tr>
</tbody>
</table>

**EDD-222 Customizing the CAD Environment**

This is an advanced course presenting techniques for operation, programming and management of computer-aided drafting environments. Topics include menu creation and modification, software modification and creation of macros, library creation and file management. Emphasis is on creation of customized environments for efficient use in specific engineering areas such as electrical, architectural and mechanical fields.

*PREREQUISITE(S): EDD120*

<table>
<thead>
<tr>
<th>CODE#</th>
<th>CRSE NO</th>
<th>SECTION NO</th>
<th>TIME</th>
<th>DAYS</th>
<th>LOCATION</th>
<th>INSTRUCTOR</th>
<th>NUM WKS</th>
<th>BEGINS WK OF</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDD-222</td>
<td>0298148</td>
<td>EDD 222</td>
<td>SC01</td>
<td>05:30PM-09:50PM</td>
<td>MW</td>
<td>South Campus</td>
<td>Faculty</td>
<td>6</td>
</tr>
</tbody>
</table>

**EDU Education**

**EDU-132 Bully Prevention in Schools**

This course focuses on creating a classroom climate in which all students feel safe. Topics include a review of the research on the causes and effects of bullying, direct and indirect bullying and best practices and strategies for meeting the underlying needs of bullies and victims.

*PREREQUISITE(S): EDD120*

<table>
<thead>
<tr>
<th>CODE#</th>
<th>CRSE NO</th>
<th>SECTION NO</th>
<th>TIME</th>
<th>DAYS</th>
<th>LOCATION</th>
<th>INSTRUCTOR</th>
<th>NUM WKS</th>
<th>BEGINS WK OF</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDU-132</td>
<td>0298424</td>
<td>EDU 132</td>
<td>BC41</td>
<td>08:30AM-04:30PM</td>
<td>S</td>
<td>Boyce Campus</td>
<td>Faculty</td>
<td>2</td>
</tr>
<tr>
<td>EDU-132</td>
<td>0298348</td>
<td>EDU 132</td>
<td>NC45H</td>
<td>08:30AM-01:00PM</td>
<td>W</td>
<td>North Campus</td>
<td>Faculty</td>
<td>2</td>
</tr>
</tbody>
</table>

**EDU-141 Diverse Learners**

This course is designed for teachers and others who work with diverse populations in educational systems. The course will focus on a wide range of diversity including language, culture, socioeconomic status, learning styles and exceptionalities. Practical examples of differentiated and adaptive instruction will be presented for use in the classroom. The course will also explore the ways diversity can influence student learning.

*PREREQUISITE(S): EDD143*

<table>
<thead>
<tr>
<th>CODE#</th>
<th>CRSE NO</th>
<th>SECTION NO</th>
<th>TIME</th>
<th>DAYS</th>
<th>LOCATION</th>
<th>INSTRUCTOR</th>
<th>NUM WKS</th>
<th>BEGINS WK OF</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDU-141</td>
<td>0298349</td>
<td>WH45H</td>
<td>08:30AM-01:00PM</td>
<td>R</td>
<td>West Hills Center</td>
<td>Faculty</td>
<td>2</td>
<td>May 26</td>
</tr>
</tbody>
</table>

**EDU-143 Work With Multiple Intelligence**

This course will address the concept of Multiple Intelligence. Traditional learning stresses the development of verbal and problem-solving skills. Research has routinely shown that many students would benefit from a broader approach to education. The course will focus on ways to develop the proposed eight domains of intelligence: verbal/linguistic, visual/spatial, bodily/kinesthetic, logical/mathematical, interpersonal, intrapersonal, musical/rhythmic and naturalistic.

*PREREQUISITE(S): EDD143*

<table>
<thead>
<tr>
<th>CODE#</th>
<th>CRSE NO</th>
<th>SECTION NO</th>
<th>TIME</th>
<th>DAYS</th>
<th>LOCATION</th>
<th>INSTRUCTOR</th>
<th>NUM WKS</th>
<th>BEGINS WK OF</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDU-143</td>
<td>0298425</td>
<td>WH45H</td>
<td>08:30AM-04:30PM</td>
<td>TW</td>
<td>West Hills Center</td>
<td>Faculty</td>
<td>1</td>
<td>Jul 05</td>
</tr>
</tbody>
</table>

**EDU-155 Humor in the Classroom**

This course explores the use of humor as a method of creating an environment conducive to learning in a classroom or in other situations where growth and learning are the expected outcomes.

*PREREQUISITE(S): EDD155*

<table>
<thead>
<tr>
<th>CODE#</th>
<th>CRSE NO</th>
<th>SECTION NO</th>
<th>TIME</th>
<th>DAYS</th>
<th>LOCATION</th>
<th>INSTRUCTOR</th>
<th>NUM WKS</th>
<th>BEGINS WK OF</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDU-155</td>
<td>0298426</td>
<td>EDU 155</td>
<td>NC45</td>
<td>08:30AM-04:30PM</td>
<td>F</td>
<td>North Campus</td>
<td>Faculty</td>
<td>2</td>
</tr>
</tbody>
</table>

**EDU-205 English Language Learners in Classroom**

*PREREQUISITE(S): One of the following: EDU125, ECD101, EDU201 or permission of instructor*

This course explores the role of the classroom teacher in meeting the academic needs of linguistically and culturally diverse learners. Topics include an introduction to language acquisition theory, cultural communication and learning styles, the role of culture in academic achievement and cultural and linguistic bias in instructional strategies, materials and assessment. Ten hours of field experience are required throughout the semester. Students must have three current clearances: the FBI Fingerprint clearance, a Pennsylvania State Police Criminal History clearance and a Pennsylvania Department of Public Welfare Child Abuse History clearance and meet the local requirements of the field placement.

*PREREQUISITE(S): EDD222*

<table>
<thead>
<tr>
<th>CODE#</th>
<th>CRSE NO</th>
<th>SECTION NO</th>
<th>TIME</th>
<th>DAYS</th>
<th>LOCATION</th>
<th>INSTRUCTOR</th>
<th>NUM WKS</th>
<th>BEGINS WK OF</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDU-205</td>
<td>0297490</td>
<td>EDU 205</td>
<td>AIN01</td>
<td>Internet Course</td>
<td>Goloway</td>
<td>10</td>
<td>May 23</td>
<td></td>
</tr>
</tbody>
</table>

*An asterisk to the left of the course indicates that a lab fee will be assessed for that course.*

This schedule is published by the Community College of Allegheny County. Although the information herein is accurate as of the publication date, schedule changes routinely occur up to, and including, the start of classes. For the most up-to-date information, visit ccac.edu or the campus you plan to attend.
EET Electrical Engineering Technology

<table>
<thead>
<tr>
<th>EXPRESS</th>
<th>CATALOG</th>
<th>SECTION</th>
<th>TIME</th>
<th>DAYS</th>
<th>LOCATION</th>
<th>INSTRUCTOR</th>
<th>NUM WKS</th>
<th>BEGINS</th>
<th>WK OF</th>
</tr>
</thead>
<tbody>
<tr>
<td>EET-103</td>
<td></td>
<td>S1N</td>
<td>Internet Course</td>
<td>Faculty</td>
<td>6</td>
<td>May 23</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**ENG English**

**ENG-009 Basic Writing Techniques** • PREREQUISITE(S): English Placement Test  
This is a course to help the student who has little writing experience to develop skills and fluency in writing and to detect, diagnose, and correct error patterns in focused writings. This is the first of two courses that prepare the student for college-level writing. Students must earn a “C” grade or better to register for the next course in this discipline or to use this course as a prerequisite for a course in another discipline.

(0297890) ENG 089 AC01 09:00AM-11:25AM MW Allegheny Campus Faculty 10 May 23
(0297891) ENG 089 AC02 01:00PM-03:25PM MW Allegheny Campus Faculty 10 May 23
(0297892) ENG 089 AC03 09:00AM-11:10AM TR Allegheny Campus Faculty 10 May 23
(0297893) ENG 089 AC04 05:30PM-10:00PM T Allegheny Campus Faculty 10 May 23
(0299225) ENG 089 AC62 05:30PM-10:00PM R Allegheny Campus Faculty 10 May 23
(0298149) ENG 089 BC01 08:30AM-10:25AM MTWR Boyce Campus Faculty 6 May 23
(0297758) ENG 089 BC04 08:30AM-10:25AM MTWR Boyce Campus Faculty 6 Jul 05
(0297984) ENG 089 BH01 09:00AM-11:25AM MW Braddock Hills Center Faculty 10 May 23
(0297895) ENG 089 HB01 10:30AM-12:30PM MW Homewood Brushton Center Faculty 10 May 23
(0298292) ENG 089 NC01 08:30AM-12:25PM MW North Campus Faculty 8 Jun 06
(0297986) ENG 089 SC01 10:00AM-12:05PM MW South Campus Faculty 10 May 23

**ENG-095 Basic Technical Writing** • PREREQUISITE(S): English Placement Test  
This is a developmental course designed for students in union-affiliated apprenticeship programs as a pre-requisite to English 111. Students will learn and review basics of grammar, punctuation and spelling through the writing of short, focused essays, some of which will have technical elements. This course is not intended to replace the English 089 and English 100 sequence in any other program.

(0298150) ENG 095 EW72 06:00PM-09:10PM TR IBEW Apprentice Program Faculty 6 May 23

**ENG-100 Basic Principles Composition**  
• PREREQUISITE(S): Passing score on the English Placement test or successful completion of ENG089  
This is a writing course in planning, drafting, revising, and proofreading the short expository essay in preparation for college-level writing. Special attention is given to skills necessary for developing paragraphs that clarify and support a point of view. This course may serve as a general elective but not as an English or Humanities elective. Students must earn a “C” grade or better to register for the next course in this discipline or to use this course as a prerequisite for a course in another discipline.

(0297987) ENG 100 AC01 09:00AM-11:25AM MW Allegheny Campus Faculty 10 May 23
(0297988) ENG 100 AC02 01:00PM-03:25PM MW Allegheny Campus Faculty 10 May 23
(0298151) ENG 100 AC03 09:00AM-12:45PM TR Allegheny Campus Faculty 6 May 23
(0298152) ENG 100 AC04 12:00PM-03:45PM TR Allegheny Campus Faculty 6 May 23
(0297759) ENG 100 AC41 01:00PM-05:05PM MW Allegheny Campus Faculty 6 Jul 05
(0297989) ENG 100 AC42 05:30PM-10:00PM T Allegheny Campus Faculty 10 May 23
(0297990) ENG 100 AC62 05:30PM-10:00PM M Allegheny Campus Faculty 10 May 23
(0297991) ENG 100 BH01 09:00AM-11:25AM MW Braddock Hills Center Faculty 10 May 23
(0297992) ENG 100 HB02 12:00PM-02:10PM TR Homewood Brushton Center Faculty 10 May 23
(0298293) ENG 100 NC01 08:30AM-12:25PM MW North Campus Faculty 8 Jun 06
(0298153) ENG 100 SC01 10:00AM-04:05PM MW South Campus Williamson 6 May 23
(0297760) ENG 100 SC41 08:00AM-11:45AM TR South Campus Faculty 6 Jul 05
(0298350) ENG 100 WH55 03:05PM-04:40PM MTWR West Hills Center Faculty 2 May 23

**ENG-101 English Composition 1**  
• PREREQUISITE(S): English Placement Test or ENG100 and Reading Placement Test or successful completion of DVS101 or DVS103  
This is a course that introduces or continues to familiarize students with critical thinking, the principles of academic writing and rudimentary research skills. Through the writing process, students refine topics; develop and support ideas; investigate, evaluate and integrate appropriate sources; edit for effective style and usage; and determine appropriate approaches for a variety of contexts, audiences and purposes.

(0297995) ENG 101 AC01 09:00AM-11:25AM MW Allegheny Campus Faculty 10 May 23
(0297994) ENG 101 AC02 12:30PM-02:55PM MW Allegheny Campus Faculty 10 May 23
(0298154) ENG 101 AC03 09:00AM-12:45PM TR Allegheny Campus Faculty 6 May 23
(0297997) ENG 101 AC04 01:00PM-03:10PM TR Allegheny Campus Faculty 10 May 23
(0297761) ENG 101 AC41 09:00AM-01:05PM MW Allegheny Campus Faculty 6 Jul 05
(0297762) ENG 101 AC42 09:00AM-01:05PM TR Allegheny Campus Faculty 6 Jul 05
(0297763) ENG 101 AC43 06:00PM-09:45PM TR Allegheny Campus Faculty 6 Jul 05
(0297996) ENG 101 AC61 05:30PM-10:00PM T Allegheny Campus Faculty 10 May 23
(0297997) ENG 101 AC62 05:30PM-10:00PM M Allegheny Campus Faculty 10 May 23
(0297491) ENG 101 AN11 Internet Course Faculty 10 May 23
(0297492) ENG 101 AN12 Internet Course Faculty 10 May 23
(0297493) ENG 101 AN13 Internet Course Faculty 10 May 23
(0297494) ENG 101 AN14 Internet Course Faculty 10 May 23
(0299226) ENG 101 AN15 Internet Course Faculty 10 May 23
(0298155) ENG 101 BC01 10:45AM-12:40PM MTWR Boyce Campus Faculty 6 May 23
(0297764) ENG 101 BC41 10:45AM-12:40PM MTWR Boyce Campus Faculty 6 Jul 05
(0298156) ENG 101 BC61 06:00PM-09:45PM TR Boyce Campus Faculty 6 May 23
(0297765) ENG 101 BC61 06:00PM-09:45PM MW Boyce Campus Faculty 6 Jul 05
(0297998) ENG 101 BH61 06:00PM-08:25PM TR Braddock Hills Center Faculty 6 May 23
(0297999) ENG 101 HB01 11:00AM-03:15PM MW Homewood Brushton Center Faculty 10 May 23
(0297766) ENG 101 NC41 01:00PM-04:45PM MW North Campus Faculty 6 Jul 05
(0298157) ENG 101 NC61 06:00PM-09:45PM MW North Campus Faculty 6 May 23

**PLEASE NOTE: DVS-060/070/101/103, ENG-089/100, MAT-080/090, ESL-060/070/089/090/100**

Students must earn a “C” grade or better to register for the next course in this discipline or to use this course as a prerequisite for a course in another discipline.
ENG English

ENG-101 English Composition 1 (continued)

(0297495) ENG 101 NINO1 08:00AM-12:55PM Internet Course Faculty 10 May 23
(0297674) ENG 101 NINO2 08:00AM-11:45AM Internet Course Faculty 6 May 23
(0302191) ENG 101 NINO4 08:00AM-11:45AM Internet Course Faculty 6 Jul 05
(0298158) ENG 101 SCO1 08:00AM-12:55PM Internet Course Faculty 6 May 23
(0298159) ENG 101 SCO2 12:30PM-04:15PM Internet Course Faculty 6 May 23
(0297767) ENG 101 SCO3 08:00AM-11:45AM Internet Course Faculty 6 Jul 05
(0298160) ENG 101 SCG1 06:00PM-09:45PM Internet Course Faculty 6 May 23
(0297768) ENG 101 SC81 06:00PM-09:45PM Internet Course Faculty 6 Jul 05
(0297496) ENG 101 SIN1 08:00AM-11:45AM Internet Course Faculty 6 Jul 05
(0297497) ENG 101 SIN2 08:00AM-11:45AM Internet Course Faculty 6 Jul 05
(0299530) ENG 101 SIN3 08:00AM-11:45AM Internet Course Faculty 6 Jul 05
(0298161) ENG 101 WCO1 05:00PM-09:05PM Internet Course Faculty 6 Jul 05
(0298944) ENG 101 WH01 08:30AM-12:15PM Internet Course Faculty 6 May 23
(0298945) ENG 101 WH02 10:00AM-01:55PM Internet Course Faculty 6 Jun 06
(0297769) ENG 101 WH41 01:00PM-04:45PM Internet Course Faculty 6 Jul 05

ENG-102 English Composition 2 • PREREQUISITE(S): ENG101

This is a course that further develops skills in formal research-based and argumentative writing and emphasizes the use of multi-disciplinary sources. 3 credits

(0298162) ENG 102 AC01 09:00AM-12:45PM TR Allegheany Campus Faculty 6 May 23
(0298000) ENG 102 AC02 12:30PM-05:00PM TR Allegheany Campus Faculty 10 May 23
(0297770) ENG 102 AC41 06:00PM-09:45PM TR Allegheany Campus Faculty 6 Jul 05
(0297771) ENG 102 AC42 09:00AM-01:05PM MW Allegheany Campus Faculty 6 Jul 05
(0298001) ENG 102 AC61 05:30PM-10:00PM MW Allegheany Campus Faculty 10 Jul 05
(0298163) ENG 102 AC62 05:30PM-09:35PM MW Allegheany Campus Faculty 6 Jul 05
(0299227) ENG 102 AC63 05:30PM-10:00PM M Allegheany Campus Faculty 10 Jul 05
(0297498) ENG 102 AIN1 Internet Course Faculty 10 May 23
(0297499) ENG 102 AIN2 Internet Course Faculty 10 May 23
(0297900) ENG 102 AIN3 Internet Course Faculty 10 May 23
(0297901) ENG 102 AIN4 Internet Course Faculty 10 May 23
(0299228) ENG 102 AIN5 Internet Course Faculty 10 May 23
(0298164) ENG 102 BC01 10:45AM-12:40PM MTWR Boyce Campus Faculty 6 May 23
(0297772) ENG 102 BC41 10:45AM-12:40PM MTWR Boyce Campus Faculty 6 Jul 05
(0298165) ENG 102 BC61 06:00PM-09:45PM TR Boyce Campus Faculty 6 May 23
(0297773) ENG 102 BC81 06:00PM-09:45PM TR Boyce Campus Faculty 6 Jul 05
(0298166) ENG 102 BH61 05:30PM-09:35PM TR Braddock Hills Center Faculty 6 May 23
(0299131) ENG 102 BH81 05:30PM-09:35PM TR Braddock Hills Center Faculty 6 Jul 05
(0298167) ENG 102 HB01 10:00AM-03:15PM MW Homewood Brushton Center Faculty 6 May 23
(0298168) ENG 102 NOC1 08:30AM-12:15PM TR North Campus Faculty 6 May 23
(0297774) ENG 102 NOC1 12:30PM-04:15PM TR North Campus Faculty 6 Jul 05
(0298169) ENG 102 NOC1 06:00PM-09:45PM TR North Campus Faculty 6 Jul 05
(0297775) ENG 102 NOC1 06:00PM-09:45PM MW North Campus Faculty 6 Jul 05
(0297502) ENG 102 NINO1 Internet Course Faculty 10 May 23
(0297503) ENG 102 NINO2 Internet Course Faculty 10 May 23
(0297504) ENG 102 NINO3 Internet Course Faculty 10 May 23
(0297686) ENG 102 NINO4 Internet Course Faculty 6 Jul 05
(0297687) ENG 102 NINO4 Internet Course Faculty 6 Jul 05
(0297688) ENG 102 NINO4 Internet Course Faculty 6 Jul 05
(0297689) ENG 102 NINO4 Internet Course Faculty 6 Jul 05
(0298170) ENG 102 SC01 08:00AM-11:45AM TR South Campus Faculty 6 May 23
(0298171) ENG 102 SC02 12:30PM-04:15PM TR South Campus Faculty 6 May 23
(0297776) ENG 102 SC41 08:00AM-11:45AM TR South Campus Faculty 6 Jul 05
(0297777) ENG 102 SC42 12:30PM-04:15PM MW South Campus Faculty 6 Jul 05
(0299028) ENG 102 SC61 06:00PM-09:45PM TR South Campus Faculty 6 Jul 05
(0297778) ENG 102 SC81 06:00PM-09:45PM MW South Campus Faculty 6 Jul 05
(0297905) ENG 102 SIN1 Internet Course Griffo 10 May 23
(0297906) ENG 102 SIN2 Internet Course Griffo 10 May 23
(0297907) ENG 102 SIN3 Internet Course Griffo 10 May 23
(0297908) ENG 102 SIN4 Internet Course Griffo 10 May 23
(0297779) ENG 102 WC81 05:30PM-09:15PM TR Washington County Center Faculty 6 Jul 05
(0298948) ENG 102 WH41 08:30AM-12:15PM TR West Hills Center Faculty 6 Jul 05
(0298172) ENG 102 WH61 06:00PM-09:45PM MW West Hills Center Faculty 6 Jul 05

ENG-102H English Composition 2 • PREREQUISITE(S): ENG101

This is a course that further develops skills in formal research-based and argumentative writing and emphasizes the use of multi-disciplinary sources. 3 credits

(0298003) ENG 102H SC31H 09:30AM-02:30PM F South Campus Williamson 10 May 23
+ENG 102H SC31H is a hybrid class. See the Online Learning section for more information.

ENG-105 Creative Writing

This is a course designed for beginning creative writers. The course will explore the technical devices and elements of craft in at least two of the following genres: short fiction, poetry and drama. Students will apply the elements of craft to their own writing and their classmates writing through workshops. 3 credits

(0298935) ENG 105 BC01 10:00AM-04:45PM TR Boyce Campus Faculty 6 Jul 05
(0297508) ENG 105 SIN1 Internet Course Faculty 10 May 23
(0297509) ENG 105 SIN2 Internet Course Faculty 10 May 23

ENG-115 General Literature • PREREQUISITE(S): ENG101

This is a survey course which examines selected poetry, drama and fiction. Principles of literary criticism are introduced. This course is for students who want an overview of literary works. 3 credits

(0297510) ENG 115 AIN1 Internet Course Faculty 10 May 23
(0297511) ENG 115 AIN2 Internet Course Faculty 10 May 23
(0297512) ENG 115 AIN3 Internet Course Faculty 10 May 23
(0297780) ENG 115 B101 10:45AM-12:40PM MTWR Boyce Campus Faculty 6 Jul 05
(0297913) ENG 115 B101 10:45AM-12:40PM MTWR Boyce Campus Faculty 10 May 23
(0298940) ENG 115 NOC1 01:00PM-04:55PM MW North Campus Faculty 8 Jun 06
This course explores the history of violence as relates to the United States of America. It will examine the violence used against Africans, Native Americans, Latinos, and the Chinese in the "settlement" of America. Periodical use of violence to achieve national goals will also be explored. Violence taught in games, movies and television will be examined, as will violence in nursery rhymes and children's stories. Particular attention will be paid to violence against ethnic groups. Alternative strategies to violence will also be explored.

This introductory survey course embraces differences based on age, race, gender, sexual orientation, national origin or physical or mental ability. Ethnic and Diversity studies is the study of the social, emotional, cultural, and historical forces that have shaped the development of America's diverse ethnic and minority groups over the last 500 years. This course will result in an understanding of the factors that create the attitudes and behaviors in the various cultural and minority groups.

Please note: DVS-060/070/101/103, ENG-089/100, MAT-080/090, ESL-060/070/089/090/100
Students must earn a "C" grade or better to register for the next course in this discipline or to use this course as a prerequisite for a course in another discipline.
spreading will be examined. This is a course for both science and non-science majors on the evolution of the earth and its crust. Principal topics include geologic time concepts, stratigraphic principles and rock formation, geological record and geological time.

GGY-202  Historical Geology

This is a course for both science and non-science majors on the evolution of the earth and its crust. Principal topics include geologic time concepts, stratigraphic principles and paleontology. Pleistocene glaciation and the rise of the human species, a geologic history of the Pittsburgh area and current concepts of continental drift, plate tectonics and sea floor spreading will be examined.

* (0297528) GGY 202  AIN01  Internet Course  Faculty  10  May 23
## GGY Geology

<table>
<thead>
<tr>
<th>EXPRESS CODE#</th>
<th>CATALOG NO</th>
<th>SECTION NO</th>
<th>TIME</th>
<th>DAYS</th>
<th>LOCATION</th>
<th>INSTRUCTOR</th>
<th>NUM WKS</th>
<th>BEGINS WK OF</th>
</tr>
</thead>
<tbody>
<tr>
<td>GGY-203</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*An asterisk to the left of the course indicates that a lab fee will be assessed for that course.*

## HAC Heating & Air Conditioning Technology

### HAC-001  ESCO EPA Testing

This course is a mechanism to register students for HAC tests required for the program. Students must pay the fee before they can be admitted to the testing room.

<table>
<thead>
<tr>
<th>CODE#</th>
<th>CRSE NO</th>
<th>SECTION NO</th>
<th>TIME</th>
<th>DAYS</th>
<th>LOCATION</th>
<th>INSTRUCTOR</th>
<th>NUM WKS</th>
<th>BEGINS WK OF</th>
</tr>
</thead>
<tbody>
<tr>
<td>GGY-203</td>
<td>AIN01</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*An asterisk to the left of the course indicates that a lab fee will be assessed for that course.*

## HIS History

### HIS-101  Western Civilization From Ancient Times Through 1500

This course is designed as a survey of the political, economic and social developments of European civilization from ancient times through the rise of the early nation-state.

<table>
<thead>
<tr>
<th>CODE#</th>
<th>CRSE NO</th>
<th>SECTION NO</th>
<th>TIME</th>
<th>DAYS</th>
<th>LOCATION</th>
<th>INSTRUCTOR</th>
<th>NUM WKS</th>
<th>BEGINS WK OF</th>
</tr>
</thead>
<tbody>
<tr>
<td>GGY-203</td>
<td>AIN01</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### HIS-102  Western Civilization Since 1500

This course is designed as a survey of the political, economic and social developments of European Civilization from the Renaissance to the end of the twentieth century.

<table>
<thead>
<tr>
<th>CODE#</th>
<th>CRSE NO</th>
<th>SECTION NO</th>
<th>TIME</th>
<th>DAYS</th>
<th>LOCATION</th>
<th>INSTRUCTOR</th>
<th>NUM WKS</th>
<th>BEGINS WK OF</th>
</tr>
</thead>
<tbody>
<tr>
<td>GGY-203</td>
<td>AIN01</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### HIS-104  U.S. History of Early Colonization thru 1865

This course is designed as a survey of political, economic and social developments of the United States from early exploration and settlement through the end of the American Civil War and the onset of Reconstruction.

<table>
<thead>
<tr>
<th>CODE#</th>
<th>CRSE NO</th>
<th>SECTION NO</th>
<th>TIME</th>
<th>DAYS</th>
<th>LOCATION</th>
<th>INSTRUCTOR</th>
<th>NUM WKS</th>
<th>BEGINS WK OF</th>
</tr>
</thead>
<tbody>
<tr>
<td>GGY-203</td>
<td>AIN01</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### HIS-105  United States History Since 1865

This course is designed as a survey of political, economic and social developments of the United States from the end of the Civil War in 1865 to the beginning of the twenty-first century.

<table>
<thead>
<tr>
<th>CODE#</th>
<th>CRSE NO</th>
<th>SECTION NO</th>
<th>TIME</th>
<th>DAYS</th>
<th>LOCATION</th>
<th>INSTRUCTOR</th>
<th>NUM WKS</th>
<th>BEGINS WK OF</th>
</tr>
</thead>
<tbody>
<tr>
<td>GGY-203</td>
<td>AIN01</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### HIS-203  African-American History 1

An introduction to the African-American experience, beginning in the pre-historic Africa and continuing to 1865 and reconstruction. Topics covered include: African pre-history, Africa before colonization, the development of the Atlantic Slave Trade, slavery in the new world, comparative slave systems (new and old world), resistance to slavery; slave conditions, slavery profits, Abraham Lincoln and Emancipation, the Revolutionary War, the Civil War, and Reconstruction.

<table>
<thead>
<tr>
<th>CODE#</th>
<th>CRSE NO</th>
<th>SECTION NO</th>
<th>TIME</th>
<th>DAYS</th>
<th>LOCATION</th>
<th>INSTRUCTOR</th>
<th>NUM WKS</th>
<th>BEGINS WK OF</th>
</tr>
</thead>
<tbody>
<tr>
<td>GGY-203</td>
<td>AIN01</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### HIS-205  African-American History 2

A study of the African-American experience in the United States, after emancipation. Topics covered include: a brief review of African-American history pre-1865, the historical development of Western racism, the development of African-American identity, the development of Black urban ghettoes and African-American contributions. Also covered: Black flight to the west and northern United States, the end of reconstruction, the development of Civil Rights, and the Black Power movements.

<table>
<thead>
<tr>
<th>CODE#</th>
<th>CRSE NO</th>
<th>SECTION NO</th>
<th>TIME</th>
<th>DAYS</th>
<th>LOCATION</th>
<th>INSTRUCTOR</th>
<th>NUM WKS</th>
<th>BEGINS WK OF</th>
</tr>
</thead>
<tbody>
<tr>
<td>GGY-203</td>
<td>AIN01</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### HIS-213  Twentieth Century World History

This course is an examination of the major trends and contemporary movements in Europe, Asia, Africa and the Americas since 1900 including the two world wars, social and political revolutions, nationalism, imperialism and decolonization, fascism and communism, the creation of new states, global conflict and peace building.

<table>
<thead>
<tr>
<th>CODE#</th>
<th>CRSE NO</th>
<th>SECTION NO</th>
<th>TIME</th>
<th>DAYS</th>
<th>LOCATION</th>
<th>INSTRUCTOR</th>
<th>NUM WKS</th>
<th>BEGINS WK OF</th>
</tr>
</thead>
<tbody>
<tr>
<td>GGY-203</td>
<td>AIN01</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### HIS-219  History of Women

This course is a survey of society's definition of the nature and role of women, the actual conditions of women, and the feminist response to intellectual, social and political problems. This course will explore the history of women in society with a special emphasis on the United States.

<table>
<thead>
<tr>
<th>CODE#</th>
<th>CRSE NO</th>
<th>SECTION NO</th>
<th>TIME</th>
<th>DAYS</th>
<th>LOCATION</th>
<th>INSTRUCTOR</th>
<th>NUM WKS</th>
<th>BEGINS WK OF</th>
</tr>
</thead>
<tbody>
<tr>
<td>GGY-203</td>
<td>AIN01</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### HIS-222  Pittsburgh: Past, Present/Future

This course is a survey of Pittsburgh's role in the Colonial frontier, the westward movement, the development of the Ohio River Valley and the Industrial Revolution, as well as its role in developing solutions to contemporary urban problems.

<table>
<thead>
<tr>
<th>CODE#</th>
<th>CRSE NO</th>
<th>SECTION NO</th>
<th>TIME</th>
<th>DAYS</th>
<th>LOCATION</th>
<th>INSTRUCTOR</th>
<th>NUM WKS</th>
<th>BEGINS WK OF</th>
</tr>
</thead>
<tbody>
<tr>
<td>GGY-203</td>
<td>AIN01</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*An asterisk to the left of the course indicates that a lab fee will be assessed for that course.*
### HLS Homeland Security

**HLS-101 Orientation Homeland Security/Emergency Preparation, Planning, Resp**  
This course provides a broad overview of homeland security and homeland defense as undertaken in the United States since 9/11. This course provides the student with the generally accepted body of knowledge required of the homeland security professional. The course focuses on the enemies and the threat they pose, the homeland security policies and procedures enacted since 9/11 and the key players at the federal and state and local levels. The course consists of a complete overview to Homeland Security, Emergency Preparedness and Response. Students will complete the Department of Homeland Security (DHS) online training for Incident Command System 100, 200 and National Incident Management System 700 and 800. Department of Homeland Security (DHS) and Federal Emergency Management Agency (FEMA) certifications are issued following successful completion of these 4 modules and must be presented to instructor before the end of class.  
(0297535) HLS 101  
<table>
<thead>
<tr>
<th>CRSE NO</th>
<th>INSTRUCTOR</th>
<th>NUM WKS</th>
<th>BEGINS WK OF</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIN01</td>
<td>Shaheen</td>
<td>10</td>
<td>May 23</td>
</tr>
</tbody>
</table>

**HLS-205 Introduction to Homeland Security Grant Writing/Grants**  
This course will focus on the development and implementation of a Homeland Security Grants Program. Students will learn of the wide array of funding sources, filing deadlines and of the wide variety of formats that may be required when seeking health and safety, critical infrastructure protection and public safety grants. Specific Pennsylvania Emergency Management Agency (PEMA), Federal Emergency Management Agency (FEMA) and Department of Homeland Security (DHS) related guidelines will be reviewed and studied. Website links will be explored and information will be provided to identify grant sources appropriate for the agency needs. The student will draft at least one grant proposal for evaluation. The need for careful management, accountability and quality control of grants received will be re-enforced and a review of audit and best practice methodology will be reviewed.  
(0297536) HLS 205  
<table>
<thead>
<tr>
<th>CRSE NO</th>
<th>INSTRUCTOR</th>
<th>NUM WKS</th>
<th>BEGINS WK OF</th>
</tr>
</thead>
<tbody>
<tr>
<td>SIN1</td>
<td>Internet Course</td>
<td>Faculty</td>
<td>10</td>
</tr>
</tbody>
</table>

**HLS-206 Continuity of Operation Planning**  
This course is designed for a broad audience from senior managers to those directly involved in the continuity of operations planning (COOP) effort. This class incorporates the Federal Emergency Management Agency (FEMA) Online Class - IS 547 Introduction to Continuity of Operations and provides a working knowledge of the COOP. Students will also receive training in existing templates and models that may be used in developing and maintaining a COOP. Students will prepare a COOP for a local business or government entity. Successful completion of a certification exam through the FEMA Website is required.  
(0297537) HLS 206  
<table>
<thead>
<tr>
<th>CRSE NO</th>
<th>INSTRUCTOR</th>
<th>NUM WKS</th>
<th>BEGINS WK OF</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIN1</td>
<td>Internet Course</td>
<td>Joyce</td>
<td>10</td>
</tr>
</tbody>
</table>

### HPE Health & Physical Education

**HPE-102 Aerobic Fitness**  
This course is designed to improve each student’s fitness level by providing various types of fitness activities such as Step Aerobics, Circuits, Interval Training, Weights and Bands.  
(0298008) HPE 102  
<table>
<thead>
<tr>
<th>CRSE NO</th>
<th>DAYS</th>
<th>TIME</th>
<th>LOCATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC02</td>
<td>TR</td>
<td>10:00AM-11:20AM</td>
<td>Allegheny Campus</td>
</tr>
</tbody>
</table>

**HPE-128 Physical Conditioning & Weight Training 1**  
A course in which the student evaluates his/her own physical status and with the help of the instructor, designs a physical conditioning program to meet personal goals and interests. Areas of concentration are cardiovascular endurance, flexibility, body composition, muscular strength and muscular endurance. Activities generally selected involve aerobic, resistive, and flexibility exercises. This course emphasizes proper techniques, purpose of each exercise, safety, and how to get expected results from an individualized physical conditioning program.  
(0298009) HPE 128  
<table>
<thead>
<tr>
<th>CRSE NO</th>
<th>DAYS</th>
<th>TIME</th>
<th>LOCATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC61</td>
<td>TR</td>
<td>04:45PM-06:05PM</td>
<td>Allegheny Campus</td>
</tr>
</tbody>
</table>

**HPE-129 Physical Conditioning & Weight Training 2 + PREREQUISITE(S): HPE128**  
This course enables experienced (HPE128 preferred) physical conditioning students to continue their exercise program under the supervision and guidance of a qualified instructor. Each student evaluates his/her own health status and participates in a physical conditioning program designed to meet personal goals and interests. Areas of concentration are cardiovascular endurance, flexibility, body composition, muscular strength and muscular endurance. Students with current high fitness levels may experiment with advanced training techniques to enhance their physical conditioning program.  
(0298011) HPE 129  
<table>
<thead>
<tr>
<th>CRSE NO</th>
<th>DAYS</th>
<th>TIME</th>
<th>LOCATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC61</td>
<td>TR</td>
<td>04:45PM-06:05PM</td>
<td>Allegheny Campus</td>
</tr>
</tbody>
</table>

**HPE-135 Yoga 1**  
The following course introduces the student to the basic beginning principles and practices of Yoga. It will incorporate the beginning principles of getting to know your body, basic breathing, exercising, positioning, and a holistic approach to healthy mind and body. This course will include both theoretical and practical experiences.  
(0298973) HPE 135  
<table>
<thead>
<tr>
<th>CRSE NO</th>
<th>DAYS</th>
<th>TIME</th>
<th>LOCATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC61</td>
<td>TWR</td>
<td>07:00PM-08:20PM</td>
<td>Allegheny Campus</td>
</tr>
</tbody>
</table>

**HPE-136 Self Defense**  
This course is a study of striking techniques from the art of Karate along with throws, holds, and breakhold techniques from the art of Judo and Ju-Jitsu. Stress is put on the student’s need for practical self-defense ability as opposed to tournament competition.  
(0298997) HPE 136  
<table>
<thead>
<tr>
<th>CRSE NO</th>
<th>DAYS</th>
<th>TIME</th>
<th>LOCATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC01</td>
<td>TWR</td>
<td>01:00PM-02:20PM</td>
<td>Allegheny Campus</td>
</tr>
</tbody>
</table>

**HPE-142 Aerobic Kickboxing**  
Aerobic kickboxing takes the music and rhythm of a “traditional” aerobics class and combines it with the techniques of Modern Kickboxing, providing a safe, non-contact aerobic workout. Students are led through and learn various aerobic routines as well as basic fitness principles.  
(0298998) HPE 142  
<table>
<thead>
<tr>
<th>CRSE NO</th>
<th>DAYS</th>
<th>TIME</th>
<th>LOCATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC01</td>
<td>TWR</td>
<td>11:30AM-12:50PM</td>
<td>Allegheny Campus</td>
</tr>
</tbody>
</table>

**HPE-171 Personal & Community Health & Wellness**  
This course provides an overview of personal health and wellness. Active learning experiences encourage the exploration of personal wellness and lifestyle concept. Topics include, but are not limited to: fitness, nutrition, sexuality, smoking, alcohol and substance abuse, stress, and emotional wellness. Participation in class activities assists the formulation of an individualized wellness plan.  
(0298016) HPE 171  
<table>
<thead>
<tr>
<th>CRSE NO</th>
<th>DAYS</th>
<th>TIME</th>
<th>LOCATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC01</td>
<td>TR</td>
<td>12:00PM-02:25PM</td>
<td>Allegheny Campus</td>
</tr>
</tbody>
</table>

**HPE-172 Foundations of Health & Physical Education**  
This is a course in the historical foundations of health and physical education as well as fundamental principles, preparation, qualifications, opportunities, and functions of the health and physical education teacher and fitness leader.  
(0298571) HPE 172  
<table>
<thead>
<tr>
<th>CRSE NO</th>
<th>DAYS</th>
<th>TIME</th>
<th>LOCATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIN1</td>
<td>TR</td>
<td>12:00PM-04:25PM</td>
<td>Allegheny Campus</td>
</tr>
</tbody>
</table>
A course in contemporary mathematics for liberal arts and other students not majoring in business or the sciences. Topics include basic mathematical concepts: problem solving and introduction to algebra; geometric measures and formulas. Students must earn a "C" grade or better to register for the next course in this discipline or to use this course as a prerequisite for a course in another discipline.

MAT-090  Algebra Fundamentals • 4 credits
A course in the fundamentals of algebra. Included are such topics as the real number system; operations on polynomial expressions containing variables; word problems; special products introduction to algebra; and geometric measures and formulas. Students must earn a "C" grade or better to register for the next course in this discipline or to use this course as a prerequisite for a course in another discipline.

MAT-090  Arithmetic Fundamentals • 4 credits
A course in the fundamentals of arithmetic computation. Included are such topics as operations with whole numbers, fractions, and decimals; percents; ratio and proportion; introduction to algebra; and geometric measures and formulas. Students must earn a "C" grade or better to register for the next course in this discipline or to use this course as a prerequisite for a course in another discipline.

MAT-102  Mathematical Concepts • PREREQUISITE(S): MAT090 or Placement Test 3 credits
A course in contemporary mathematics for liberal arts and other students not majoring in business or the sciences. Topics include basic mathematical concepts: problem solving and critical thinking, sets, elementary logic, numeration systems, elementary geometry, counting techniques, and elementary probability and statistics. Topics are selected at the discretion of the Mathematics Department.
MAT-108 Intermediate Algebra • PREREQUISITE(S): MAT090
A course in intermediate algebra. Included are such topics as operations with linear, quadratic, rational, absolute value, and higher degree polynomial equations and functions; exponents, radicals, and complex numbers; Cartesian coordinate system including lines and conic sections; systems of equations.

(MAT 108) AC01 08:30AM-11:55AM MWF Allegheny Campus Faculty 6 May 23
(MAT 108) AC02 08:30AM-11:35AM MW Allegheny Campus Faculty 10 May 23
(MAT 108) AC03 01:00PM-03:55PM TR Allegheny Campus Faculty 10 May 23
(MAT 108) AC11 12:30PM-03:05PM MWF Allegheny Campus Faculty 6 Jul 05
(MAT 108) AC61 06:00PM-09:15PM MW Allegheny Campus Faculty 10 May 23
(MAT 108) BC01 08:00AM-10:30AM MTWR Boyce Campus Faculty 6 May 23
(MAT 108) BC11 08:00AM-10:30AM MTWR Boyce Campus Faculty 6 Jul 05
(MAT 108) BC61 06:00PM-08:55PM TR Boyce Campus Faculty 10 May 23
(MAT 108) BI01 06:00PM-09:15PM MW Braddock Hills Center Faculty 10 May 23
(MAT 108) BIN1 Internet Course Summer 10 May 23
(MAT 108) BIN2 Internet Course Summer 10 May 23
(MAT 108) NO01 08:00AM-11:25AM MWR North Campus DiPerna 6 May 23
(MAT 108) NC11 08:00AM-11:25AM MWR North Campus Faculty 6 Jul 05
(MAT 108) NC61 05:00PM-08:35PM TR North Campus Duerling 8 Jun 06
(MAT 108) NIN01 Internet Course DiPerna 10 May 23
(MAT 108) NIN02 Internet Course DelVitto 10 May 23
(MAT 108) SC01 12:45PM-03:15PM MTWR South Campus Faculty 6 May 23
(MAT 108) SC02 12:45PM-03:50PM TR South Campus Faculty 8 Jun 06
(MAT 108) SC11 09:00AM-11:30AM MTWR South Campus Faculty 6 Jul 05
(MAT 108) SC61 06:00PM-09:05PM TR South Campus Faculty 8 Jun 06
(MAT 108) SIN1 Internet Course Faculty 10 May 23
(MAT 108) WH01 08:35AM-12:05PM TR West Hills Center Faculty 8 Jun 06

MAT-111 College Algebra • PREREQUISITE(S): MAT108 or Equivalent
A course in college algebra. Included are such topics as the real number system, polynomials, exponents and radicals, relations and functions, systems of equations, matrices and determinants, and conic sections.

(MAT 111) N101 Internet Course Faculty 10 May 23
(MAT 111) NIN01 Internet Course Faculty 10 May 23
(MAT 111) SC11 06:00PM-09:45PM MW South Campus Faculty 6 Jul 05
(MAT 111) SIN1 Internet Course Faculty 10 May 23

MAT-120 Analytical Methods • PREREQUISITE(S): MAT108
This is a course in selected topics in algebra with emphasis on business and social sciences applications. Topics include linear and non-linear algebraic functions, exponential and logarithmic functions, systems of linear equations and inequalities, vectors and matrices, linear programming, elementary probability, and the mathematics of finance.

(MAT 120) BIN1 Internet Course Faculty 10 May 23
(MAT 120) NIN01 Internet Course DiPerna 10 May 23
(MAT 120) SC61 06:00PM-09:05PM TR South Campus Faculty 8 Jun 06

MAT-135 Discrete Mathematics • PREREQUISITE(S): MAT108 or Equivalent
This course is recommended for transfer students. Topics included are sets, Boolean algebra, matrices, recursion, induction, number bases, graph theory, functions and permutations.

(MAT 135) BIN1 Internet Course Faculty 10 May 23

MAT-142 Pre-Calculus • PREREQUISITE(S): MAT108 or Equivalent
This is a course for students majoring in mathematics, science, or engineering. Topics include the real number line, absolute value equations and inequalities, rational functions, exponential and logarithmic functions, polynomial functions, the theory of equations, inverse functions, binomial expansion, and mathematical induction.

(MAT 142) AC01 08:30AM-11:35AM TR Allegheny Campus Faculty 10 May 23
(MAT 142) BC01 08:30AM-11:35AM MWF Allegheny Campus Faculty 10 May 23
(MAT 142) N101 Internet Course Summer 10 May 23
(MAT 142) NO01 12:30PM-03:55PM TWR North Campus Faculty 6 May 23
(MAT 142) NCB1 05:30PM-08:35PM MW North Campus Faculty 6 Jul 05
+MAT 142 NCB1 is a hybrid class. See the Online Learning section for more information.
(MAT 142) NIN01 Internet Course DelVitto 10 May 23
(MAT 142) SC11 06:00PM-09:05PM TR South Campus Faculty 8 Jun 06
(MAT 142) WH11 05:30PM-08:45PM MWR West Hills Center Faculty 6 Jul 05
+MAT 142 WH11 is a hybrid class. See the Online Learning section for more information.

MAT-147 College Trigonometry • PREREQUISITE(S): MAT108 or its equivalent
This is a course for students majoring in mathematics, science, or engineering. Topics include trigonometric functions, identities, equations, multiple and half angle formulas, graphs, oblique triangles, inverse trigonometric functions and complex numbers.

(MAT 147) AC01 09:00AM-11:30AM MWF Allegheny Campus Faculty 6 May 23
(MAT 147) BC01 06:00PM-09:15PM MW Allegheny Campus Faculty 6 May 23
(MAT 147) N101 Internet Course DelVitto 10 May 23
(MAT 147) SIN1 Internet Course Faculty 10 May 23
(MAT 147) WH11 05:30PM-10:00PM T West Hills Center Faculty 6 Jul 05
+MAT 147 WH11 is a hybrid class. See the Online Learning section for more information.

MAT-161 Elementary Statistics • PREREQUISITE(S): MAT108 or Equivalent • COREQUISITE(S): MAT-111 or Equivalent
A course for students in programs requiring a knowledge of statistics. Topics may include graphical distributions, measures of central tendency and variability, correlation and regression, probability, hypothesis testing using the z, t and CHI square tests.

(MAT 161) BIN1 Internet Course Faculty 10 May 23

MAT-165 Probability & Statistics • PREREQUISITE(S): MAT108 or equivalent
This is an introduction to statistical concepts and applications. Topics include descriptive methods, probability theory, probability distributions, sampling distributions, statistical inference, and linear regression and correlation. Computers and/or calculators are used for problem solving.

(MAT 165) AC01 08:30AM-11:25AM TR Allegheny Campus Faculty 10 May 23
(MAT 165) AC61 06:00PM-08:55PM TR Allegheny Campus Faculty 10 May 23
(MAT 165) BC01 10:45AM-01:15PM MTWR Boyce Campus Faculty 6 May 23

This schedule is published by the Community College of Allegheny County. Although the information herein is accurate as of the publication date, schedule changes routinely occur up to, and including, the start of classes. For the most up-to-date information, visit ccac.edu or the campus you plan to attend.
This introductory course focuses on the theory and techniques of linear algebra. Topics include vectors in n-dimensional space, matrix theory, systems of linear equations, vector space theory, linear transformations, eigenvalues and eigenvectors and inner product spaces.
### MDA Medical Assistant

<table>
<thead>
<tr>
<th>CODE#</th>
<th>INSTRUCTOR</th>
<th>LOCATION</th>
<th>NUM WKS</th>
<th>BEGINS</th>
</tr>
</thead>
<tbody>
<tr>
<td>MDA-108C</td>
<td></td>
<td></td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Medical Assisting Externship</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>• PREREQUISITE(S): Permission of instructor, C10100, MDA103, MDA104, MDA105, MDA106, MDA107 and MDA208</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>This course is a supervised, non-paid 160 hour work experience in a private physician's office or in a clinic. The student gains practical experience applying the knowledge, skills and behaviors learned in the Medical Assistant program to perform administrative, clinical and communication competencies. This course is graded on a Pass/Fail basis. Prior to the externship current CPR, Criminal Record Clearance and PA Child Abuse Clearances (Act 33/34) and a physical examination are required. This course requires a per credit health career fee; check the tuition and fee schedule for the current rate.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(0298890)</td>
<td>MDA 108C</td>
<td>SC36</td>
<td>07:00AM-03:30PM</td>
<td>MTWRF</td>
</tr>
</tbody>
</table>

### MEC Mecatronics

#### MEC-100 Mecatronics Safety and Quality

<table>
<thead>
<tr>
<th>CODE#</th>
<th>INSTRUCTOR</th>
<th>LOCATION</th>
<th>NUM WKS</th>
<th>BEGINS</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEC-100</td>
<td></td>
<td></td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>This course prepares students with the common skills and competencies they will need to work in Pennsylvania's manufacturing and energy industries. This course emphasizes principles of safety and quality. Students will use safety-enhancing workplace practices, including wearing personal protective equipment (PPE), performing lockout/tagout and filling out Material Safety Data Sheets (MSDS). They will utilize the fundamentals of blueprint reading, precision measurement and quality inspection. Students will sit for the Manufacturing Skill Standards Council's (MSSC) safety and quality exams toward achievement of the Certified Production Technician (CPT) credential. Fees for test materials and certification are added to the cost of this course.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(0302492)</td>
<td>MEC 100</td>
<td>WH35</td>
<td>09:00AM-12:00PM</td>
<td>MTR</td>
</tr>
</tbody>
</table>

#### MEC-102 Mecatronics Industrial Processes • PREREQUISITE(S): MEC-100

<table>
<thead>
<tr>
<th>CODE#</th>
<th>INSTRUCTOR</th>
<th>LOCATION</th>
<th>NUM WKS</th>
<th>BEGINS</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEC-102</td>
<td></td>
<td></td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>This course emphasizes industrial processes and maintenance. Students will learn how engineering materials are gathered and processed for use. The course covers principles of production planning, inventory management and the operating and troubleshooting of industrial equipment. Students who successfully pass the course will sit for the Manufacturing Skill Standards Council's (MSSC) Processes and Production and Maintenance Awareness exams towards achievement of the Certified Production Technician (CPT) credential. Fees for test materials and certification are added to the cost of this course.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(0302493)</td>
<td>MEC 102</td>
<td>WH35</td>
<td>09:00AM-12:00PM</td>
<td>MTR</td>
</tr>
</tbody>
</table>

### MLA Medical Lab Assistant

#### MLA-102C Medical Lab Assistant Externship • PREREQUISITE(S): Minimum of "C" grade in all program courses

<table>
<thead>
<tr>
<th>CODE#</th>
<th>INSTRUCTOR</th>
<th>LOCATION</th>
<th>NUM WKS</th>
<th>BEGINS</th>
</tr>
</thead>
<tbody>
<tr>
<td>MLA-102C</td>
<td></td>
<td></td>
<td>4</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>This course offers practical experience in an affiliated clinical laboratory. Students perform routine specimen processing, accessioning and distribution. Laboratory information systems, communication and skills associated with phlebotomy and vital signs are included. This course is graded on a pass/fail basis. This course requires a per credit health career fee; Check the tuition and fee schedule for the current rate.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(0298205)</td>
<td>MLA 102C</td>
<td>SC36</td>
<td>07:00AM-03:30PM</td>
<td>MTWRF</td>
</tr>
</tbody>
</table>

### MLT Medical Laboratory Technician

#### MLT-251C Clinical Laboratory Externship

<table>
<thead>
<tr>
<th>CODE#</th>
<th>INSTRUCTOR</th>
<th>LOCATION</th>
<th>NUM WKS</th>
<th>BEGINS</th>
</tr>
</thead>
<tbody>
<tr>
<td>MLT-251C</td>
<td></td>
<td></td>
<td>12</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>This course offers practical experience in an affiliated laboratory. Students rotate through laboratory sections and observe and perform routine lab test. This course is graded on a pass/fail basis. This course requires a per credit health career fee; Check the tuition and fee schedule for the current rate.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(0299026)</td>
<td>MLT 251C</td>
<td>SC36</td>
<td>07:00AM-03:30PM</td>
<td>MTWRF</td>
</tr>
</tbody>
</table>

### MMT Maintenance Mechanic Technology

#### MMT-209 Backflow Prevent Test Update/Repair Certified • PREREQUISITE(S): MMT208

<table>
<thead>
<tr>
<th>CODE#</th>
<th>INSTRUCTOR</th>
<th>LOCATION</th>
<th>NUM WKS</th>
<th>BEGINS</th>
</tr>
</thead>
<tbody>
<tr>
<td>MMT-209</td>
<td></td>
<td></td>
<td>1</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>This 22.5-hour backflow refresher course will update currently certified backflow testers to changing technology in cross-connection plumbing. Backflow inspectors must have a current backflow tester card (maximum 180 days expired). Lectures will cover current applicable regulations, the principles of cross-connection control, and the methods of backflow prevention. Students will practice, test and repair a variety of backflow preventer assemblies.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(0298358)</td>
<td>MMT 209</td>
<td>WH45</td>
<td>08:00AM-04:00PM</td>
<td>RFS</td>
</tr>
<tr>
<td>(0298427)</td>
<td>MMT 209</td>
<td>WH46</td>
<td>08:00AM-04:00PM</td>
<td>RFS</td>
</tr>
</tbody>
</table>

### MUS Music Theory & Performance

#### MUS-101 Introduction to Music

<table>
<thead>
<tr>
<th>CODE#</th>
<th>INSTRUCTOR</th>
<th>LOCATION</th>
<th>NUM WKS</th>
<th>BEGINS</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS-101</td>
<td></td>
<td></td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>This course surveys the form, style and basic structure of art, world and popular music. It is designed to enhance students' appreciation and understanding of music by focusing on influential composers and their compositions. Lectures highlight the characteristics, history and performance practice of many genres of music.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(0297582)</td>
<td>MUS 101</td>
<td>AIN01</td>
<td>Internet Course</td>
<td>Domicen</td>
</tr>
<tr>
<td>(0297583)</td>
<td>MUS 101</td>
<td>AIN02</td>
<td>Internet Course</td>
<td>Domicen</td>
</tr>
<tr>
<td>(0299077)</td>
<td>MUS 101</td>
<td>AIN03</td>
<td>Internet Course</td>
<td>Domicen</td>
</tr>
<tr>
<td>(0297680)</td>
<td>MUS 101</td>
<td>SIN1</td>
<td>Internet Course</td>
<td>Domicen</td>
</tr>
<tr>
<td>(0297690)</td>
<td>MUS 101</td>
<td>SIN2</td>
<td>Internet Course</td>
<td>Faculty</td>
</tr>
<tr>
<td>(0297585)</td>
<td>MUS 101</td>
<td>SIN3</td>
<td>Internet Course</td>
<td>Melago</td>
</tr>
</tbody>
</table>

#### MUS-105 Applied Music 1

<table>
<thead>
<tr>
<th>CODE#</th>
<th>INSTRUCTOR</th>
<th>LOCATION</th>
<th>NUM WKS</th>
<th>BEGINS</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS-105</td>
<td></td>
<td></td>
<td>1</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>This course consists of 15 30-minute private music lessons. Students choose from one of three areas of study: vocal, instrumental or composition. Lessons focus on music reading; repertoire development; and vocal, instrumental or composition technique.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(0299102)</td>
<td>MUS 105</td>
<td>AC01</td>
<td>By Appointment</td>
<td>MTWRF</td>
</tr>
</tbody>
</table>

#### MUS-106 Applied Music 2 • PREREQUISITE(S): MUS105

<table>
<thead>
<tr>
<th>CODE#</th>
<th>INSTRUCTOR</th>
<th>LOCATION</th>
<th>NUM WKS</th>
<th>BEGINS</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS-106</td>
<td></td>
<td></td>
<td>1</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>This course consists of 15 30-minute private music lessons. Students choose from one of three areas of study: vocal, instrumental or composition. Lessons focus on music reading; repertoire development; and vocal, instrumental or composition technique. Applied Music 2 builds upon the skills and techniques developed in Applied Music 1.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(0299103)</td>
<td>MUS 106</td>
<td>AC01</td>
<td>By Appointment</td>
<td>MTWRF</td>
</tr>
</tbody>
</table>

#### MUS-119 Music Technology

<table>
<thead>
<tr>
<th>CODE#</th>
<th>INSTRUCTOR</th>
<th>LOCATION</th>
<th>NUM WKS</th>
<th>BEGINS</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS-119</td>
<td></td>
<td></td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>This course introduces students to the technologies used in music production. It deals with the computer applications and the outboard equipment used by professional audio engineers to create multimedia files. The software used in this class includes programs for musical score writing and for sound wave editing. Lecture hours are devoted to basic music theory and to the physics of sound; lab hours are devoted to producing multimedia projects, such as musical scores and audio recordings.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(0298206)</td>
<td>MUS 119</td>
<td>AC01</td>
<td>08:30AM-12:15PM</td>
<td>TR</td>
</tr>
</tbody>
</table>

*An asterisk to the left of the course indicates that a lab fee will be assessed for that course.*
**MUS Music Theory & Performance**

**EXPRESS CATALOG CODE#**
**CRSE NO**
**SECTION**
**TIME**
**DAYS**
**LOCATION**
**INSTRUCTOR**
**NUM WKS**
**BEGINS WK OF**

**MUS-205 Applied Music 3 • PREREQUISITE(S): MUS106**
This course consists of 15 30-minute private music lessons. Students choose from one of three areas of study: vocal, instrumental or composition. Lessons focus on music reading, repertoire development; and vocal, instrumental or composition technique. Applied Music 3 builds upon the skills and techniques developed in Applied Music 2.

(0299113) MUS 205 AC01 By Appointment MTWRF Allegheny Campus Domiceni 10 May 23

**MUS-206 Applied Music 4 • PREREQUISITE(S): MUS205**
This course consists of 15 30-minute private music lessons. Students choose from one of three areas of study: vocal, instrumental or composition. Lessons focus on music reading, repertoire development; and vocal, instrumental or composition technique. Applied Music 4 builds upon the skills and techniques developed in Applied Music 3.

(0299104) MUS 206 AC01 By Appointment MTWRF Allegheny Campus Domiceni 10 May 23

**MUS-221 Class Piano 1**
This course is an introduction to the piano for beginners. It covers fundamental concepts and skills of piano playing including playing technique, music reading, scales, chords and repertoire development. Coursework integrates basic piano keyboard technique.

(0298484) MUS 221 AC41 09:00AM-12:45PM TR Allegheny Campus Jump 6 Jul 05

**MUS-222 Class Piano 2 • PREREQUISITE(S): MUS221**
This course builds upon the piano skills and concepts covered in Class Piano 1. It covers major and minor scales, chord inversions, dominant seventh chords and cadences. Coursework integrates these music theory concepts with piano keyboard technique.

(0298485) MUS 222 AC41 09:00AM-12:45PM TR Allegheny Campus Jump 6 Jul 05

**MUS-223 Class Piano 3 • PREREQUISITE(S): MUS222**
This course builds upon the piano skills and concepts covered in Class Piano 2. It covers additional types of minor scales, seventh chords and transposition. Coursework integrates these music theory concepts with piano keyboard technique.

(0298486) MUS 223 AC41 09:00AM-12:45PM TR Allegheny Campus Jump 6 Jul 05

**MUS-224 Class Piano 4 • PREREQUISITE(S): MUS223**
This course builds upon the piano skills and concepts covered in Class Piano 3. It covers diatonic modes, extended chords, melody harmonization and improvisation. Coursework integrates these music theory concepts with piano keyboard technique.

(0298487) MUS 224 AC41 09:00AM-12:45PM TR Allegheny Campus Jump 6 Jul 05

**MUS-253 History of Jazz**
This class surveys Jazz from its inception until present day. Topics include composers, performance practice and instrumental technique. Lectures synthesize jazz history with American culture through source study; analytical listening and research.

(0297809) MUS 253 AC81 05:30PM-09:45PM MW Allegheny Campus Jump 6 Jul 05

(0298054) MUS 253 HB01 11:00AM-02:30PM F Homewood Brushston Center Johnson 10 May 23

**NMT Nuclear Medicine Technology**

**NMT-201 Clinical Nuclear Medicine Technology 2 • PREREQUISITE(S): BIO161, BIO162, NMT102C**
This course is the second of a two-semester course designed to follow a didactic approach to clinical nuclear medicine technology and also to provide the student with practical knowledge essential to the acquisition of skills in performing nuclear medicine examination. This course requires a per credit health career fee; check the tuition and fee schedule for the current rate. Students will be charged for radiation badges.

(0298055) NMT 201 AC01 09:30AM-11:30AM MW Allegheny Campus Mazzetti 10 May 23

(0298055) NMT 201 AC01 07:00AM-09:00AM R Allegheny Campus Mazzetti 10 May 23

**NMT-205C Nuclear Medicine Externship**
The student performs medical examinations while increasing skills and self-confidence. The student works full-time in the nuclear medicine facility. This course requires a per credit health career fee; check the tuition and fee schedule for the current rate. Students will be charged for radiation badges.

(0298056) NMT 205C AC51 08:00AM-04:30PM MTWRF Hospital Site Allegheny Mazzetti 10 May 23

**NMT-206 Nuclear Medicine Instrumentation**
This is a course that develops greater skills in operating, calibrating, and performing routine maintenance quality control on gamma cameras, well counters, gas filled detectors, and PET cameras. This course requires a per credit health career fee; check the tuition and fee schedule for the current rate.

(0298057) NMT 206 AC01 12:00PM-02:10PM MW Allegheny Campus Mazzetti 10 May 23

**NMT-270 Fundamental Molecular Imaging With PET**
This course introduces the student to Positron Emission Tomography Imaging. This modality produces high energy, 3-D computer-reconstructed images measuring and determining the function or physiology in a specific organ, tumor or other metabolically active site. This course requires a per credit health career fee; check the tuition and fee schedule for the current rate.

(0298058) NMT 270 AC61H 05:30PM-10:00PM T Allegheny Campus Mohammad 10 May 23

+NMT 270 AC61H is a hybrid class. See the Online Learning section for more information.

**NUR Nursing**

**NSG-104 Drug Calculations**
This course provides the nursing student with the information necessary to correctly interpret medication orders and medication labels and to correctly solve drug calculations using the dimensional analysis method. This course requires a per credit health career fee; check the tuition and fee schedule for the current rate.

(0298359) NSG 104 NC01 09:00AM-03:00PM M North Campus Faculty 2 May 23

(0298359) NSG 104 NC01 09:00AM-03:00PM W North Campus Faculty 2 May 23

(0298359) NSG 104 NC01 11:00AM-03:00PM R North Campus Faculty 2 May 23

(0298360) NSG 104 NC86H 05:00PM-09:00PM M North Campus Faculty 2 May 23

(0298360) NSG 104 NC86H 05:00PM-09:00PM W North Campus Faculty 2 May 23

(0298360) NSG 104 NC86H 05:00PM-06:30PM R North Campus Faculty 2 May 23

*NSG 104 NC86H is a hybrid class. See the Online Learning section for more information.

**NUR-140 Evidence Based Nursing Drug Therapy**

• PREREQUISITE(S): NUR110, NUR120, BIO161, PSY101 MAT106 or MAT108 • COREQUISITE(S): (If not previously completed successfully): PSY108 ENG101 BIO162

This didactic course covers the nurse's role in safe medication drug administration. It utilizes an evidence based approach to patient teaching, assessment of adverse effects, evaluation of medication effectiveness and avoidance of medication errors. This course requires a per credit health career fee; check the tuition and fee schedule for the current rate.

(0302284) NUR 140 AC61H 05:00PM-09:30PM M Allegheny Campus Pavlik 10 May 23

+NUR 140 AC61H is a hybrid class. See the Online Learning section for more information.

*An asterisk to the left of the course indicates that a lab fee will be assessed for that course.*
NUR 230 Professional Nursing Issues  2 credits
• PREREQUISITE(S): NUR130, NUR140 • COREQUISITE(S): (If not previously completed successfully): NUR220, NUR230, ENG102
This didactic course explores concepts of professional behaviors and issues that impact nursing in the current and future health care delivery system. The emphasis is on group learning through discussion of legal and ethical issues, professional responsibilities and accountability and evidence based practice research. This course requires a per credit health career fee; check the tuition and fee schedule for the current rate.
(0298207) NUR 210 AC01 10:00AM-12:00PM TW Allegheny Campus Thorpe 6 May 23
(0298364) NUR 210 AC61 04:00PM-06:00PM TW Allegheny Campus Thorpe 2 May 23
(0298362) NUR 210 BC58H 04:00PM-06:45PM M Boyce Campus Faculty 6 May 23
+NUR 210 BC85H is a hybrid class. See the Online Learning section for more information.
(0298363) NUR 210 BC68H 07:00PM-09:45PM M Boyce Campus Faculty 6 May 23
+NUR 210 BC86H is a hybrid class. See the Online Learning section for more information.
(0298208) NUR 210 NC63H 05:00PM-08:00PM W North Campus Faculty 6 May 23
+NUR 210 NC86H is a hybrid class. See the Online Learning section for more information.
NUR 210 SC35H 09:30AM-12:45 PM T South Campus Faculty 4 Jul 05
09:30 AM-12:45 PM R South Campus Faculty 4 Jul 05
+NUR 210 SC35H is a hybrid class. See the Online Learning section for more information.
NUR 210 SC36H 05:30 PM-08:45 PM T South Campus Faculty 4 Jul 05
05:30 PM-08:45 PM R South Campus Faculty 4 Jul 05
+NUR 210 SC36H is a hybrid class. See the Online Learning section for more information.

NUR 220 Adult Health Concepts Nursing Practice  4 credits
• PREREQUISITE(S): NUR130, NUR140, BIO162, BIO175, PSY108 • COREQUISITE(S): (If not previously completed successfully): ENG102
This course is comprised of two major components. The first component addresses the psychosocial concepts of patients experiencing stressful events and acute and chronic illness. The second component addresses care of patients with cancer and other cellular alterations. Both components include didactic, simulation laboratory and clinical experiences. This course requires a per credit health career fee; check the tuition and fee schedule for the current rate.
*(0298366) NUR 220 BC58H 04:00PM-06:45PM T Boyce Campus Faculty 6 May 23
+NUR 220 BC85H is a hybrid class. See the Online Learning section for more information.
*(0298367) NUR 220 BC68H 07:00PM-09:45PM T Boyce Campus Faculty 6 May 23
+NUR 220 BC86H is a hybrid class. See the Online Learning section for more information.

NUR 220C Adult Health Concepts Nursing Practice • PREREQUISITE(S): NUR130, NUR140, BIO162, BIO175  0 credits
This course is comprised of two major components. The first component addresses the psychosocial concepts of patients experiencing stressful events and acute and chronic mental illness. The second component addresses care of patients with cancer and other cellular alterations. Both components include didactic, simulation laboratory and clinical experiences.
(0299064) NUR 220C BC86 03:00PM-11:00PM WR Hospital Site Booyce Faculty 6 May 25
(0299081) NUR 220C BC87 03:00PM-11:00PM WR Hospital Site Booyce Faculty 6 May 25
(0299082) NUR 220C BC88 03:00PM-11:00PM WR Hospital Site Booyce Faculty 6 May 25
(0299083) NUR 220C BC89 03:00PM-11:00PM WR Hospital Site Booyce Faculty 6 May 25
(0299084) NUR 220C BC90 03:00PM-11:00PM WR Hospital Site Booyce Faculty 6 May 25
(0299085) NUR 220C BC91 03:00PM-11:00PM WR Hospital Site Booyce Faculty 6 May 25
(0299070) NUR 220C BC92 03:00PM-11:00PM R Hospital Site Booyce Faculty 5 May 26
(0299070) NUR 220C BC93 07:00AM-04:30PM S Hospital Site Booyce Faculty 5 May 26
(0299069) NUR 220C BC93 07:00AM-04:30PM R Hospital Site Booyce Faculty 5 May 26
(0299068) NUR 220C BC94 07:00AM-04:30PM SU Hospital Site Booyce Faculty 4 Jun 04

NUR 220L Adult Health Concepts Nursing Practice • PREREQUISITE(S): NUR130, NUR140, BIO162, BIO175  0 credits
This course is comprised of two major components. The first component addresses the psychosocial concepts of patients experiencing stressful events and acute and chronic mental illness. The second component addresses care of patients with cancer and other cellular alterations. Both components include didactic, simulation laboratory and clinical experiences.
(0298368) NUR 220L BC35 04:30PM-06:15PM T Boyce Campus Faculty 6 May 23
(0298369) NUR 220L BC35 04:30PM-06:15PM T Boyce Campus Faculty 6 May 23
(0298370) NUR 220L BC37 07:00PM-08:45PM T Boyce Campus Faculty 6 May 23
(0298371) NUR 220L BC37 07:00PM-08:45PM T Boyce Campus Faculty 6 May 23
(0298372) NUR 220L BC39 04:30PM-06:15PM W Boyce Campus Faculty 6 May 23
(0298373) NUR 220L BC39 07:00PM-08:45PM W Boyce Campus Faculty 6 May 23

NUR 230 Family Health Concepts Nursing Practice  4 credits
• PREREQUISITE(S): NUR130, NUR140, BIO162, BIO175, PSY108 • COREQUISITE(S): (If not previously completed successfully): ENG102
This course covers care practices for women, infants, children and adolescents. The course explores the expanding family during health and illness through didactic, simulated laboratory and clinical experiences. This course requires a per credit health career fee; check the tuition and fee schedule for the current rate.
*(0299089) NUR 230 BC58H 04:00PM-06:45PM T Boyce Campus Faculty 6 Jul 05
(0299089) 04:00PM-06:20PM M Boyce Campus Faculty 6 Jul 05
+NUR 230 BC85H is a hybrid class. See the Online Learning section for more information.
*(0299091) NUR 230 BC68H 07:00PM-09:45PM T Boyce Campus Faculty 6 Jul 05
(0299091) 07:15PM-09:05PM M Boyce Campus Faculty 6 Jul 05
+NUR 230 BC86H is a hybrid class. See the Online Learning section for more information.

NUR 230C Family Health Concepts Nursing Practice • PREREQUISITE(S): NUR130, NUR140, BIO162, BIO175  0 credits
This course covers care practices for women, infants, children and adolescents. The course explores the expanding family during health and illness through didactic, simulated laboratory and clinical experiences.
(0297810) NUR 230C BC86 02:00PM-11:59PM W Hospital Site Booyce Faculty 6 Jul 06
(0297811) NUR 230C BC87 02:00PM-11:59PM W Hospital Site Booyce Faculty 6 Jul 06
(0297812) NUR 230C BC88 02:00PM-11:59PM W Hospital Site Booyce Faculty 6 Jul 06
(0297813) NUR 230C BC89 02:00PM-11:59PM R Hospital Site Booyce Faculty 6 Jul 07
(0297814) NUR 230C BC90 02:00PM-11:59PM R Hospital Site Booyce Faculty 6 Jul 07
(0299106) NUR 230C BC90 02:00PM-11:00PM R Hospital Site Booyce Faculty 6 Jul 07
(0299107) NUR 230C BC92 07:00AM-07:00PM S Hospital Site Booyce Faculty 6 Jul 09

This schedule is published by the Community College of Allegheny County. Although the information herein is accurate as of the publication date, schedule changes routinely occur up to, and including, the start of classes. For the most up-to-date information, visit ccac.edu or the campus you plan to attend.
This course covers care practices for women, infants, children and adolescents. The course explores the expanding family during health and illness through didactic, simulated laboratory and clinical experiences.

This course is a non-mathematical approach to methods for everyday reasoning. Application to daily life is stressed. Topics covered include analysis of statements; valid deductions – logical

This course is a study of basic philosophical problems, such as: the existence of God, the immortality of the soul, knowledge, the mind-body problem, ethics in society, subjectivism,

This course introduces students to the blend of legal theory and practical legal skills that comprise employment law. The students will study the employment relationship from

This course introduces a study of the Federal Bankruptcy Code and legal regulation of debtor-creditor relationships. The course will enable students to prepare a bankruptcy case from the initial meeting with

This course introduces students to the blend of legal theory and practical legal skills that comprise employment law. The students will study the employment relationship from

This course introduces students to the blend of legal theory and practical legal skills that comprise employment law. The students will study the employment relationship from

This course is an introduction to Philosophy

This course introduces students to the blend of legal theory and practical legal skills that comprise employment law. The students will study the employment relationship from

This course introduces students to the blend of legal theory and practical legal skills that comprise employment law. The students will study the employment relationship from

This course introduces a study of the Federal Bankruptcy Code and legal regulation of debtor-creditor relationships. The course will enable students to prepare a bankruptcy case from the initial meeting with

This course introduces students to the blend of legal theory and practical legal skills that comprise employment law. The students will study the employment relationship from
<table>
<thead>
<tr>
<th>EXPRESS CODE</th>
<th>CATALOG NO</th>
<th>SECTION</th>
<th>TIME</th>
<th>LOCATION</th>
<th>INSTRUCTOR</th>
<th>NUM WKS</th>
<th>BEGINS WK OF</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHL 155 Ethics</td>
<td>3 credits</td>
<td>This course is a study of selected topics from classical and contemporary ethics. It examines the principles of moral evaluation and reasoning, factual judgment, and responsibility. (0297597) PHL 155 BIN1 Internet Course Faculty 10 May 23 (0297600) PHL 155 BIN2 Internet Course Faculty 10 May 23 (0297601) PHL 155 BIN3 Internet Course Faculty 10 May 23</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHL 160 Ethics in Business</td>
<td>3 credits</td>
<td>This is a philosophy course in applied ethics that seeks to expose students to moral philosophy, ethics theories/traditions; and to enable them to apply those theories to decision making in the business world. (0297602) PHL 160 NIN01 Internet Course Faculty 10 May 23</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHL 204 Comparative Politics</td>
<td>3 credits</td>
<td>This course provides theoretical and empirical tools to help students understand comparative politics. The course aims to illustrate the rich diversity of political life, to show available institutional alternatives, to explain differences in processes and policy outcomes and to communicate to students the importance of global political and economic changes. Students will explore three different types of States: established democracies, developing democracies and non-democracies through country case studies from Americas, Africa, Middle-East, Europe and Asia. The comparative aspect of the course involves searching for similarities and differences among different case studies in order to formulate generalizations about politics. (0302521) POL 204 NIN01 Internet Course Faculty 10 May 23</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHL 205 Medical Ethics and Law</td>
<td>3 credits</td>
<td>This course is an ethics seminar. Basic ethical concepts are introduced followed by problems in medical care such as professional responsibility and patient relationships. Ethical and legal issues are examined and laws having a bearing upon medical care are discussed. (0298949) PHL 205 NIN01 Internet Course Faculty 10 May 23</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### PHS Physical Science

<table>
<thead>
<tr>
<th>CATALOG NO</th>
<th>TIME</th>
<th>DAYS</th>
<th>LOCATION</th>
<th>INSTRUCTOR</th>
<th>NUM WKS</th>
<th>BEGINS WK OF</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHS 101 Earth Science</td>
<td>3 credits</td>
<td>This is a course which investigates the interrelationships of processes that occur on and within the earth. Concepts of physical science, ecology and geology are used to study environmental principles and issues of the atmosphere, hydrosphere, lithosphere, and biosphere. (0297603) PHS 101 BIN1 Internet Course Faculty 10 May 23 (0297604) PHS 101 BIN2 Internet Course Faculty 10 May 23</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHS 107 Introductory Astronomy</td>
<td>3 credits</td>
<td>This is a descriptive introduction to astronomy. Major topics of study include: the celestial sphere and the night sky, gravity and the dynamics of celestial bodies, telescopes and the nature of light, our moon, the planets and the sun, stars and their final outcomes (white dwarfs, supernovae, pulsars and black holes), the Milky Way and other galaxies, the origins and fate of the Universe, other solar systems and possibility of extra-terrestrial life. (0297605) PHS 107 ALN1 Internet Course Faculty 10 May 23 (0297606) PHS 107 ALN2 Internet Course Faculty 10 May 23 (0299123) PHS 107 NIN41 Internet Course Faculty 6 Jul 05</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHS 108 Introduction to Weather</td>
<td>3 credits</td>
<td>This is a survey for both science and non-science majors on the basic concepts of weather. Topics include temperature, pressure, wind, humidity, cloud formation, precipitation, storms, weather maps and forecasting, and climate patterns. (0297607) PHS 108 BIN1 Internet Course Faculty 10 May 23</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHS 161 Physical Science for the Industries</td>
<td>3 credits</td>
<td>• PREREQUISITES: MAT104 or a score of 52 or higher on the College Placement Test for Math This is a basic course in the fundamentals of matter, its form, and properties. Matter is studied in terms of energy, power, and its changing environment. Addition topics include concepts of chemistry and their application to industrial usage. (0298374) PHS 161 WHS5 11:45AM-01:20PM MTWRF West Hills Center Faculty 4 May 23</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### PHT Pharmacy Technician

<table>
<thead>
<tr>
<th>CATALOG NO</th>
<th>TIME</th>
<th>DAYS</th>
<th>LOCATION</th>
<th>INSTRUCTOR</th>
<th>NUM WKS</th>
<th>BEGINS WK OF</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHT 106 Pharmacy Production Preparation 3</td>
<td>2 credits</td>
<td>• PREREQUISITES: PHT103, PHT104, PHT105 This course introduces students to the preparation of specialized parenteral products. Included are home infusions, chemotherapy and miscellaneous specialized products such as monoclonal antibodies. The use of corresponding quality assurance processes and applications of laws, regulations and standards that govern the preparation of the drug products are discussed. This course requires a per credit health career fee; Check the tuition and fee schedule for the current rate. *(0298213) PHT 106 SCG0 05:00PM-07:20PM TR South Campus Karnack 6 May 23</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHT 201C Pharmacy Technician Externship</td>
<td>6 credits</td>
<td>• PREREQUISITE(S): Grade “C” or better in all PHT courses. This course provides students with on the job experience in a hospital and retail pharmacy under the supervision of a licensed pharmacist. The student learns to function as a Pharmacy Technician. This course requires a per credit health career fee; Check the tuition and fee schedule for the current rate. *(0299061) PHT 201C SCN3 07:00AM-03:30PM MTWRF Hospital Site South Faculty 8 Jul 05</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHT 203 Pharmacy Seminar</td>
<td>2 credits</td>
<td>• PREREQUISITE(S): Completion of semester 1 and 2 coursework in the Pharmacy Technician (PHT) Program This course deals with issues that impact the attitudes, values, beliefs and practices of a successful pharmacy technician. Some of the topics examined include personal qualities appropriate to the pharmacy profession, the obligation to remain current with advances in therapy, developing effective work relationships, problem solving, workflow management and the job search process. This course requires a per credit health career fee; Check the tuition and fee schedule for the current rate. (0298214) PHT 203 SCG0 04:00PM-06:20PM MW South Campus Coughanour 6 May 23</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
An asterisk to the left of the course indicates that a lab fee will be assessed for that course.

**PHY-100 Basic Physics • PREREQUISITE(S): MAT090**
This is a course for students with little or no high school preparation in physics. Students in programs that require college-level Physics should take this course first if they have no previous physics courses. Topics include methods of measurement, problem-solving techniques and the physical concepts of motion, forces, work and energy, electricity, waves and optics.

*(0297822) PHY-100 AC1
08:00AM-11:45AM
TR
Allegheny Campus
Faculty
6
Jul 05

*(0297824) PHY-100 BC1
08:00AM-10:20AM
MTW
Allegheny Campus
Faculty
6
Jul 05

*(0298215) PHY-100 BC01
10:30AM-12:10PM
MT
Boyece Campus
Huth
6
May 23

*(0297608) PHY-100 BIN1
10:00AM-12:00PM
MT
Boyece Campus
Huth
6
May 23

*(0299143) PHY-100 SC01
04:15PM-08:00PM
TR
South Campus
Lee
6
May 23

*(0299143) PHY-100 SC01
08:05PM-10:10PM
TR
South Campus
Lee
6
May 23

**PHY-141 Physics 1 • PREREQUISITE(S): MAT108**
This is a physics course taught on the algebraic level. Mechanics and heat are studied. Topics include vectors, kinematics, Newton's law, static equilibrium, work and energy, rotational kinematics, rotational dynamics, simple harmonic motion, heat and thermodynamics.

*(0298126) PHY-141 AC01
09:00AM-10:55AM
MTWR
Allegheny Campus
Faculty
6
May 23

*(0298216) PHY-141 AC01
11:00AM-12:55PM
MTWR
Allegheny Campus
Faculty
6
May 23

*(0297823) PHY-141 BC1
08:00AM-10:20AM
MTW
Allegheny Campus
Faculty
6
May 23

*(0297823) PHY-141 BC1
10:25AM-12:30PM
MT
Boyece Campus
Huth
6
Jul 05

*(0298217) PHY-141 BC01
05:30PM-08:05PM
MTW
Boyece Campus
Faculty
6
May 23

*(0298217) PHY-141 BC01
08:15PM-10:30PM
MTW
Boyece Campus
Faculty
6
May 23

*(0297610) PHY-141 BIN1
01:00PM-02:55PM
MTW
Boyece Campus
Faculty
6
May 23

*(0297611) PHY-141 BIN2
10:00AM-12:00PM
MTW
Boyece Campus
Faculty
10
May 23

*(0298218) PHY-141 SC01
09:00AM-12:45PM
TR
South Campus
Lee
6
May 23

*(0298218) PHY-141 SC01
01:00PM-04:10PM
TR
South Campus
Lee
6
May 23

**PHY-142 Physics 2 • PREREQUISITE(S): PHY141**
This is a continuation of PHY141. Electricity, light, and modern physics are studied. Topics include charge, electric fields, electric potential difference, basic circuits, magnetism, waves, geometrical optics, and atomic physics.

*(0297824) PHY-142 AC1
09:00AM-10:55AM
MTWR
Allegheny Campus
Faculty
6
Jul 05

*(0298249) PHY-142 AC01
11:05AM-12:55PM
MTWR
Allegheny Campus
Faculty
6
Jul 05

*(0297825) PHY-142 BC01
05:30PM-07:55PM
MTW
Boyece Campus
Faculty
6
Jul 05

*(0298249) PHY-142 BC02
08:00PM-10:05PM
MTW
Boyece Campus
Faculty
6
Jul 05

**PHY-222 Physics for Science & Engineer 3 • PREREQUISITE(S): PHY221 • COREQUISITE(S): MAT202**
This is a calculus-based physics course that stresses experimental and problem-solving techniques. Electricity and magnetism are studied. Topics include Coulomb’s Law, electric fields, Gauss’ Law, capacitors and dielectrics, Kirchhoff’s Rules, DC circuits, Oersted Effect, Ampere’s law, electromagnetic induction, Maxwell’s equations and AC circuits.

*(0298219) PHY-222 AC01
09:00AM-10:55AM
MTWR
Boyece Campus
Faculty
6
May 23

*(0298219) PHY-222 AC01
11:00AM-12:55PM
MTWR
Boyece Campus
Faculty
6
May 23

*(0298200) PHY-222 AC02
01:00PM-02:55PM
MTW
Boyece Campus
Faculty
6
May 23

*(0298200) PHY-222 AC02
03:00PM-04:55PM
MTW
Boyece Campus
Faculty
6
May 23

**PHY-223 Physics for Science and Engineer 4 • PREREQUISITE(S): PHY222 COREQUISITE(S): MAT250**
This is a calculus-based physics course that stresses experimental and problem-solving techniques. Heat, thermodynamics, waves, geometrical and physical optics, and atomic structure are studied. Topics include temperature, thermal expansion of solids, ideal gases, kinetic theory, heat transfer and calorimetry, the first and second law of thermodynamics, transverse and longitudinal wave motion, superposition of waves, synthesis of complex wave forms, electromagnetic radiation, law of reflection, law of refraction, imaging, interference, diffraction, polarization, atomic and nuclear physics.

*(0298211) PHY-223 AC01R
01:00PM-02:50PM
MTWR
Allegheny Campus
Faculty
6
May 23

*(0298211) PHY-223 AC01R
03:00PM-04:50PM
MTWR
Allegheny Campus
Faculty
6
May 23

*(0298655) PHY-223 BC01H
10:00AM-11:50AM
TWR
Boyece Campus
Plumley
4
May 23

*(0298655) PHY-223 BC01H
12:15PM-02:15PM
TWR
Boyece Campus
Plumley
4
May 23

**PHY-223 BC01H is a hybrid class. See the Online Learning section for more information.**

**POL Political Science**

POL-101 Introduction to Political Science
This course provides student with a general introduction to politics and governance by studying the basic theories and terminology of Political Science. To this end, the semester is broken up into four distinct sections that correspond with four of the major sub-fields within the discipline. The areas of emphasis include political philosophy, comparative institutions, international relations, and American politics. While studying each sub-field, students will be asked to consider current political events. Students will recognize the importance of academic terms and concepts once they are observed against the backdrop of “real world” political events.

*(0298061) POL-101 AC01
05:30PM-10:00PM
W
Allegheny Campus
Faculty
10
May 23

*(0297610) POL-101 AIN01
Internet Course
Mandel
10
May 23

*(0298841) POL-101 SIN1
Internet Course
Noel
10
May 23

**POL-103 American Government**
This course investigates the development and evolution of the American political system. Students will be introduced to the unique structure, functions, and problems of the national government within the federal system. Close attention is given to the nature of and the controversies emerging from the interaction between political institutions. This includes analysis of the following concepts and topics: federalism, separation of power, check and balances, Bill of Rights, democracy, civil liberties, civil rights and political parties.

*(0298222) POL-103 AC01
08:00AM-10:05AM
MTW
Allegheny Campus
Faculty
6
May 23

*(0297613) POL-103 AIN01
01:00PM-04:05PM
TR
Boyece Campus
Mandel
10
May 23

*(0298276) POL-103 SC41
08:30AM-12:15PM
MT
South Campus
Faculty
6
Jul 05

*(0298842) POL-103 SIN1
Internet Course
Noel
10
May 23

**POL-115 The American Constitution**
This course examines the United States Constitution, which is the world’s oldest written constitution. Born in the turbulent years following the Revolutionary War, it formalized many of the philosophical and political ideas of that period. The central values embodied in the Constitution reflect the Founders’ commitment to liberty and limited government. While the constitution has served the American republic well over the past 200-plus years, it has also generated a tremendous amount of controversy. From the very beginning, disputes over Constitutional interpretation have played a major role in shaping the American republic. In this course, we will study some of these major Constitutional disputes and gain a greater appreciation for the evolution of Constitutional Law since the founding period.

*(0297614) POL-115 AIN01
Internet Course
Mandel
10
May 23
The ecological influence in each period demonstrate how the individual and the individual's world interact in human development. The history of the study of human development and infant, toddler, young childhood, middle childhood, adolescence, young adulthood, middle adulthood and older adulthood. Multiple developmental theories plus biological and psychological factors will also be examined as the possibilities and realities facing the international community as the countervailing forces of globalization and ethnic nationalism shape the international political landscape. Sharp focus on US foreign policy will round out the conclusion of the course.

PLT Plumbing Technology  
PLT-204 Maintenance Plumbing 4 credits  
This course prepares students to recognize water supply, drain waste and vent problems. Diagnostic methods and repairs are practiced in a laboratory environment. Conservation fixtures and appliances are discussed and analyzed.

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

PSY-106 Psychology of African Americans 3 credits  
This course presents the psychological principles shaping the personality of African Americans. The course includes a critique of the applicability of theories and measures across societal and culture groups such as “traditional” statistics, racial myths, discriminatory thinking and behavior. Analysis of attitudes and behaviors which develop in non-prejudiced and prejudicial socio-economic, educational, and political systems and ways to counteract them are reviewed. This course emphasizes proactive African-American leadership and the lifestyle of individual African Americans and their community.

PSY-108 Human Growth and Development 3 credits  
This course combines specific areas of human development, for example, physical, cognitive, emotional and social development and specific developmental time periods: prenatal, infant, toddler, young childhood, middle childhood, adolescence, young adulthood, middle adulthood and older adulthood. Multiple developmental theories plus biological and ecological influence in each period demonstrate how the individual and the individual's world interact in human development. The history of the study of human development and research methodologies specific to human development are included.

This schedule is published by the Community College of Allegheny County. Although the information herein is accurate as of the publication date, schedule changes routinely occur up to, and including, the start of classes. For the most up-to-date information, visit ccac.edu or the campus you plan to attend.
PSY 109  Psychology of Women  3 credits
This course is a survey of psychological assumptions in the shaping of the female personality across societal and cultural groups. Experimental research is examined. Emphasized are attitude, aptitude, self-concept formation, gender role-learning and the physiological and psychopathological bases of personality. Examination of the interaction of institutional, philanthropic, social economic, educational, political, legal and religious effects on attitudes, pathology and behavior is included.
(0297629) PSY 109  SIN1  Internet Course  Conway  10  May 23

PSY 113  Psychology of Death and Dying  3 credits
This is a course in Thanatology, the study of death and dying. The course will cover American attitudes toward death, biological and psychological definitions of death, crisis and grief, the psycho-social impact of terminal illness, contemporary funeral and burial rituals, ethical issues related to death and dying, the dynamics of suicide, prevention and intervention, the psychosocial management of dying patients and relatives, children, adolescents and death, old age and death and issues of loss and grief for the bereaved.
(0297630) PSY 113  NIN01  Internet Course  Carney  10  May 23
(0298843) PSY 113  SIN1  Internet Course  Harper  10  May 23

PSY 114  Human Sexuality  3 credits
This is a course in the study of the human sexual experience which provides practical information for everyday living in a digital age. Topics include psychosocial development, sexual biology, sexes, human sexual responses, human sexual inadequacy, sexual attitudes and practices, sexual diseases and disorders, sex and society.
(0297631) PSY 114  AIN01  Internet Course  Meyers  10  May 23

PSY 140  Health Psychology  3 credits
This course is an investigation into the unity of the mind and body, and their combined role in healing. The course explores the mind's role in illness, the impact of negative emotion, the placebo effect and effective methods of treatment.
(0297632) PSY 140  SIN1  Internet Course  Conway  10  May 23

PSY 201  Educational Psychology • PREREQUISITE(S): PSY101  3 credits
This is a course on learning in an educational setting. Topics include theories of learning and teaching, the effects of digital methodologies, nature and development of the child, adolescent and adult learner, creativity, individual difference, standardized testing and classroom and on-line interaction.
(0297633) PSY 201  BIN1  Internet Course  Biondo  10  May 23

PSY 202  Social Psychology • PREREQUISITE(S): PSY101  3 credits
This is a study of individuals in their social and cultural setting. Perception and judgment of social events, the socialization process, attitudes, values, social interaction, the individual in the group and the influences of personal and on-line culture on the development of personality are investigated.
(0299065) PSY 202  AC501  05:30PM-08:10PM  TR  Allegheny Campus  Faculty  6  May 23
(0297634) PSY 202  BIN1  Internet Course  Biondo  10  May 23
(0297635) PSY 202  AIN01  Internet Course  Carney  10  May 23
(0297839) PSY 208  WH81  06:00PM-09:45PM  TR  West Hills Center  Faculty  6  Jul 05

PSY 208  Abnormal Psychology • PREREQUISITE(S): PSY101  3 credits
This is a course in the psychological and physiological dynamics behind mental illnesses. Various psychological theories are integrated and provide a comprehensive framework for understanding mental illness.
(0298907) PSY 208  AC41  12:30PM-04:15PM  MW  Allegheny Campus  Faculty  6  Jul 05
(0297630) PSY 208  AIN01  Internet Course  Carney  10  May 23
(0297637) PSY 208  AIN02  Internet Course  Carney  10  May 23
(0297839) PSY 208  WH81  06:00PM-09:45PM  TR  West Hills Center  Faculty  6  Jul 05

PSY 210  Child Psychology • PREREQUISITE(S): PSY101  3 credits
This course is a study of the child's physical/biological, cognitive and psychosocial growth under a variety of environmental conditions. Topics include theories of development, physical/biological development, cognitive development, and theories of personality formation, normal and abnormal development.
(0298903) PSY 210  AIN01  Internet Course  Radigan  10  May 23
(0297638) PSY 210  SIN1  Internet Course  Conway  10  May 23

PSY 214  Psychology of Adulthood • PREREQUISITE(S): PSY101  3 credits
This course is a study of physical, cognitive, emotional and social issues from young adulthood to the last years of life. Topics include significant adult-life crises, coping strategies, marital status, vocational choice, the family and sexuality.
(0298844) PSY 214  SIN1  Internet Course  Conway  10  May 23

PSY 230  Counseling the Addict • PREREQUISITE(S): SOC117, PSY101 • COREQUISITE(S): SOC118  3 credits
This course provides an in-depth look at counseling techniques as these may be most effectively brought to bear on the addictive disorders. Students will take the theory and knowledge of such topics as case management, intervention techniques, assessment, etc., and apply them in field situations in a practicum, which is to be taken concomitantly.
(0297639) PSY 230  SIN1  Internet Course  Conway  10  May 23

PSY 270  Statistics for Behavioral and Social Sciences • PREREQUISITE(S): PSY-101 or Ant-101 or SOC-101 & MAT-108  4 credits
This course is an introduction to the concepts of descriptive and inferential statistics used in the behavioral and social sciences. It includes: central tendency, variability and distributions; correlation, regression, chi square and other non-parametric tests; hypothesis testing and sampling; type I error, type II error, confidence intervals and power; statistical packages and their application to hypothesis testing. (0302494)
(0302530) PSY 270  NC61  05:30PM-09:15PM  TR  North Campus  Faculty  6  May 23

RAD Radiologic Technology
RAD 158C  Radiologic Technology Clinical 2 • PREREQUISITE(S): BIO162, RAD108C, RAD157  4 credits
This course provides the student with clinical experience, knowledge and practice in radiographic positioning with emphasis on the more complex procedures associated with the skull and thorax. The student is expected to demonstrate, analyze and apply knowledge of factors that influence radiographic quality as well as manipulate those factors. The student works under direct supervision. This course is graded on a pass/fail basis. This course requires a per credit health career fee; Check the tuition and fee schedule for the current rate. Students will be charged for radiation badges.
(0298066) RAD 158C  BC01 By Appointment  MTWRF-SU  Hospital Site Bryce  10  May 23
## RAD Radiologic Technology

### RES Respiratory Therapy

**RES-111 Respiratory Care Equipment I**  
- **PREREQUISITE(S):** CHM109 or CHM110 and CHEM111, MAT108, BIO115  
- **COREQUISITE(S):** RES113, PHY123  

A course relating the equipment used in respiratory therapy to the pathological condition of patients. This course requires a per credit health career fee; check the tuition and fee schedule for the current rate.

- *(0298376) RES 111 CHM110 04-04PM-05:00PM T Allegheny Campus Trautman 12 May 23

+RES 111 CHM110 is a hybrid class. See the Online Learning section for more information.

### RES Respiratory Therapy 1

**RES-113 Respiratory Therapy I**  
- **PREREQUISITE(S):** MAT108, CHM110 or CHM111, BIO115  
- **COREQUISITE(S):** RES111, PHY123  

A course relating respiratory equipment to the pathological condition of patients. This course requires a per credit health career fee; check the tuition and fee schedule for the current rate.

- *(0298378) RES 113 CHM110 04-04PM-05:00PM T Allegheny Campus Dietz 12 May 23

+RES 113 CHM110 is a hybrid class. See the Online Learning section for more information.

### RES Respiratory Therapy 1

**RES-113L Respiratory Therapy 1**  
- **PREREQUISITE(S):** MAT108, CHM110 or CHM111, BIO115  
- **COREQUISITE(S):** RES111, PHY123  

A course relating respiratory therapy equipment to the pathological condition of patients.

- *(0298379) RES 113L CHM110 07-00PM-08:00PM R Allegheny Campus Peroney 12 May 23

+RES 113 CHM110 is a hybrid class. See the Online Learning section for more information.

### RES-115 Fundamentals of Clinical Practice  
- **PREREQUISITE(S):** RES114, BIO209  
- **COREQUISITE(S):** RES117  

An introduction to the clinical practice of respiratory therapy. This course requires a per credit health career fee; check the tuition and fee schedule for the current rate.

- *(0298239) RES 115 CHEM110 09:00AM-10:00PM M Allegheny Campus Laurent 5 May 23

+RES 117 CHEM110 is a hybrid class. See the Online Learning section for more information.

### RES-116 Pulmonary Diagnostic Procedures  
- **PREREQUISITE(S):** RES115  
- **COREQUISITE(S):** RES117  

A course relating the diagnostic procedures used to the pathological condition of patients. This course requires a per credit health career fee; check the tuition and fee schedule for the current rate.

- *(0297640) RES 116 CHEM110 12:00PM-01:00PM W Internet Course Laurent 10 May 23

### RES-117 Pulmonary & Related Pathology  
- **PREREQUISITE(S):** RES112, RES114, BIO209  
- **COREQUISITE(S):** RES116, RES115  

The study of the nature and cause of disease and conditions that caused the disease. Emphasis is placed on recognizing the clinical signs and symptoms of disease and any changes in normal laboratory values. This course requires a per credit health career fee; check the tuition and fee schedule for the current rate.

- *(0298090) RES 117 CHEM110 08:00AM-09:00AM M Allegheny Campus Laurent 10 May 23

+RES 117 CHEM110 is a hybrid class. See the Online Learning section for more information.

### RES-118 Respiratory Pharmacology  
- **PREREQUISITE(S):** RES112, RES114, BIO209  
- **COREQUISITE(S):** RES115, RES116, RES117  

The study of respiratory pharmacology with emphasis on the properties of medications and their effects on the patient. The competencies a respiratory care practitioner must demonstrate to be safe and effective will be stressed. This course requires a per credit health career fee; check the tuition and fee schedule for the current rate.

- *(0297641) RES 118 CHEM110 08:00AM-09:00AM M Internet Course Laurent 10 May 23

### RES-211C Respiratory Therapist Clinical 1  
- **PREREQUISITE(S):** RES115, RES116, RES117  
- **COREQUISITE(S):** RES202  

A clinical externship in which students work under supervision in affiliated institutions and apply therapeutic and diagnostic procedures. Included are critical and general patient care. This course requires a per credit health career fee; check the tuition and fee schedule for the current rate.

- *(0298653) RES 211C CHEM110 03:00PM-04:00PM W MTWRF Laurent 11 May 23

+RES 111 CHEM110 is a hybrid class. See the Online Learning section for more information.

### RES-211L Respiratory Therapist Clinical 1  
- **PREREQUISITE(S):** RES115, RES116, RES117  

A clinical externship in which students work under supervision in affiliated institutions and apply therapeutic and diagnostic procedures. Included are critical and general patient care. This course requires a per credit health career fee; check the tuition and fee schedule for the current rate.

- *(0298654) RES 211L CHEM110 08:00AM-09:00AM M Allegheny Campus Laurent 11 May 23

*An asterisk to the left of the course indicates that a lab fee will be assessed for that course.*

This schedule is published by the Community College of Allegheny County. Although the information herein is accurate as of the publication date, schedule changes routinely occur up to, and including, the start of classes. For the most up-to-date information, visit ccc.edu or the campus you plan to attend.
RLE Real Estate

**RLE-101 Real Estate Fundamentals • COREQUISITE(S): RLE102**
The study of the language, principles, and laws that govern the business of real estate. Emphasis is placed on the concepts of land, property and rights in reality and title, and the means, methods and laws that govern these ideas.

(0298380) RLE 101 AC25R 05:30PM-08:40PM TR Allegheny Campus Faculty 2 May 23

**RLE-102 Real Estate Practice • COREQUISITE(S): RLE101**
An overview of real estate listing and selling procedures. Included is an in-depth study of all types of real estate financing, including FHA, VA, conventional, construction and special mortgages. Cooperatives, condominiums and other types of private and public funding and development techniques are evaluated.

(0298428) RLE 102 AC98R 05:30PM-08:30PM F Allegheny Campus Faculty 4 Jul 05

(0298428) 09:00AM-12:00PM S Allegheny Campus Faculty 4 Jul 05

**RLE Real Estate Technology**

**RTT-120C Applied Radiation Therapy 1 • PREREQUISITE(S): RTT101, RTT111, RTT102, RTT112**
Ten weeks of practicum in a clinical facility, participating in the duties performed by a radiation therapist. The student observes the initial clinical evaluation of the patient and aids in treatment planning and follow-up. Under supervision, the student positions, plans, and treats the patient, calculates and records dosage, checks the patient's treatment records, and observes the patient in a routine follow-up. This course requires a per credit health career fee; check the tuition and fee schedule for the current rate. Students will be charged for radiation badges.

(0298649) RTT 120C AC01 08:00AM-04:30PM MTWRF Allegheny Campus Collette 10 May 23

**RTT-221C Radiation Therapy Externship • PREREQUISITE(S): RTT203, RTT204, RTT213, RTT214**
This course is a combination of classroom lecture and clinical externship for the certificate student completing the Radiation Therapy Technology Program. Under direct supervision, the student will gain knowledge and experience in advanced/complex techniques utilized in cancer treatment. This course requires a per credit health career fee; check the tuition and fee schedule for the current rate. Students will be charged for radiation badges.

(0298072) RTT 221C AC01 08:00AM-04:30PM MTWRF Hospital Site Allegheny Collette 10 May 23

**SDS Student Development Services**

**SDS-101 Career Planning**
A course which explores career choice. Students develop clear educational and career goals by assessing their interests, values, personality, and skills.

(0299132) SDS 101 BH81 05:00PM-07:10PM W Braddock Hills Center Faculty 6 Jul 05

**SDS-102 Academic & Personal Development**
This is a course in the techniques for becoming a successful college student. Coping skills and strategies for transitioning to college are emphasized. The course fosters an awareness of self, the role of self-esteem and confidence in learning, and the importance of self-management skills and tools. Links between student needs and campus resources and processes are explored.

(0298311) SDS 102 AC01 09:30AM-11:05AM W Allegheny Campus Faculty 8 Jun 06

(0298312) SDS 102 AC02 12:00PM-01:35PM R Allegheny Campus Faculty 8 Jun 06

(0298313) SDS 102 AC61 05:30PM-07:05PM T Allegheny Campus Faculty 8 Jun 06

(0299040) SDS 102 BC01 08:00AM-11:25AM S Boyce Campus Faculty 4 Jun 04

(0298239) SDS 102 BH01 11:30AM-02:30PM T Braddock Hills Center Faculty 5 May 23

(0298313) SDS 102 HB61 06:00PM-07:35PM W Homewood Brushton Center Faculty 8 Jun 06

(0298314) SDS 102 NO01 01:00PM-01:50PM MW North Campus Faculty 8 Jun 06

(0297840) SDS 102 SC81 06:00PM-08:15PM T South Campus Faculty 6 Jul 05

**SDS-107 Financial Literacy**
This Financial Literacy course is an introductory level course designed to provide students with the tools, insight, basic skills and proven strategies necessary to effectively manage their personal financial and money management choices. Additionally, the course show students how to maneuver and manage their finances through difficult financial times.

(0299133) SDS 107 BH81 05:00PM-07:15PM T Braddock Hills Center Faculty 6 Jul 05

**SET Science Engineering Technology**

**SET-105 Technical Computing**
This course presents applications of computers in engineering and engineering technology fields. Students develop skills in the solution of engineering equations using computer-based analysis programs. The application of Microsoft Office productivity tools to engineering reports, with graphics from multiple sources will be practiced. The movement of documents, engineering drawings and data electronically through the local area network and the Internet will be covered.

*0297841 SET 105 SIN1 Internet Course Faculty 6 Jul 05

**SOC Sociology**

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

(0298240) SOC 101 AC01 12:30PM-04:35PM MW Allegheny Campus Faculty 6 May 23

(0298241) SOC 101 AC02 08:30AM-12:25PM TR Allegheny Campus Faculty 6 May 23

(0297842) SOC 101 AC41 08:25AM-12:40PM TR Allegheny Campus Faculty 6 May 23

(0297843) SOC 101 AC42 12:30PM-04:15PM MW Allegheny Campus Faculty 6 May 23

(0297842) SOC 101 AC62 06:00PM-09:45PM TR Allegheny Campus Faculty 6 May 23

(0297844) SOC 101 AC81 06:00PM-10:05PM MW Allegheny Campus Faculty 6 May 23

(0297642) SOC 101 AIN01 Internet Course Langstraat 10 May 23

(0297643) SOC 101 AIN02 Internet Course Langstraat 10 May 23

(0297845) SOC 101 BC41 10:45AM-12:40PM MTWRF Boyce Campus Faculty 6 Jul 05

(0297644) SOC 101 BIN1 Internet Course Faculty 10 May 23

(0298805) SOC 101 NO01 01:00PM-04:45PM MW North Campus Faculty 6 May 23

(0297846) SOC 101 NO41 01:00PM-04:45PM TR North Campus Faculty 6 May 23

(0298243) SOC 101 NO61 06:00PM-09:45PM MW North Campus Faculty 6 May 23

(0297645) SOC 101 NIN01 Internet Course Faculty 10 May 23

(0297646) SOC 101 NIN02 Internet Course Faculty 10 May 23

(0298244) SOC 101 SC61 06:00PM-09:45PM TR South Campus Faculty 6 May 23

(0297847) SOC 101 SC81 06:00PM-09:45PM TR South Campus Faculty 6 Jul 05

(0298853) SOC 101 WC01 09:00AM-12:45PM TR Washington County Center Faculty 6 May 23

(0297848) SOC 101 WH41 08:30AM-12:15PM MW West Hills Center Faculty 6 Jul 05

*An asterisk at the left of the course indicates that a lab fee will be assessed for that course.*
### SOC Sociology

<table>
<thead>
<tr>
<th>EXPRESS</th>
<th>CATALOG NO</th>
<th>SECTION</th>
<th>INSTRUCTOR</th>
<th>LOCATION</th>
<th>DAYS</th>
<th>LOCATION</th>
<th>NUM WKS</th>
<th>BEGINS</th>
<th>WK OF</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC-117</td>
<td>C6101</td>
<td>T</td>
<td>English</td>
<td>South Campus</td>
<td>W</td>
<td>Faculty</td>
<td>10</td>
<td>May 23</td>
<td></td>
</tr>
<tr>
<td>SOC-118P</td>
<td>SC6106-023</td>
<td>T</td>
<td>English</td>
<td>South Campus</td>
<td>W</td>
<td>Faculty</td>
<td>10</td>
<td>May 23</td>
<td></td>
</tr>
<tr>
<td>SOC-160</td>
<td>C8101</td>
<td>T</td>
<td>English</td>
<td>South Campus</td>
<td>W</td>
<td>Faculty</td>
<td>10</td>
<td>May 23</td>
<td></td>
</tr>
<tr>
<td>SOC-201</td>
<td>C9101</td>
<td>T</td>
<td>English</td>
<td>South Campus</td>
<td>W</td>
<td>Faculty</td>
<td>10</td>
<td>May 23</td>
<td></td>
</tr>
<tr>
<td>SOC-208</td>
<td>C6101</td>
<td>T</td>
<td>English</td>
<td>South Campus</td>
<td>W</td>
<td>Faculty</td>
<td>10</td>
<td>May 23</td>
<td></td>
</tr>
<tr>
<td>SOC-210</td>
<td>C7101</td>
<td>T</td>
<td>English</td>
<td>South Campus</td>
<td>W</td>
<td>Faculty</td>
<td>10</td>
<td>May 23</td>
<td></td>
</tr>
<tr>
<td>SOC-211</td>
<td>C8101</td>
<td>T</td>
<td>English</td>
<td>South Campus</td>
<td>W</td>
<td>Faculty</td>
<td>10</td>
<td>May 23</td>
<td></td>
</tr>
<tr>
<td>SOW-101</td>
<td>C9101</td>
<td>T</td>
<td>English</td>
<td>South Campus</td>
<td>W</td>
<td>Faculty</td>
<td>10</td>
<td>May 23</td>
<td></td>
</tr>
<tr>
<td>SOW-103</td>
<td>C6101</td>
<td>T</td>
<td>English</td>
<td>South Campus</td>
<td>W</td>
<td>Faculty</td>
<td>10</td>
<td>May 23</td>
<td></td>
</tr>
<tr>
<td>SOW-104</td>
<td>C9101</td>
<td>T</td>
<td>English</td>
<td>South Campus</td>
<td>W</td>
<td>Faculty</td>
<td>10</td>
<td>May 23</td>
<td></td>
</tr>
<tr>
<td>SOW-110P</td>
<td>C6101</td>
<td>T</td>
<td>English</td>
<td>South Campus</td>
<td>W</td>
<td>Faculty</td>
<td>10</td>
<td>May 23</td>
<td></td>
</tr>
</tbody>
</table>

### SOW Social Work

<table>
<thead>
<tr>
<th>EXPRESS</th>
<th>CATALOG NO</th>
<th>SECTION</th>
<th>INSTRUCTOR</th>
<th>LOCATION</th>
<th>DAYS</th>
<th>LOCATION</th>
<th>NUM WKS</th>
<th>BEGINS</th>
<th>WK OF</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC-117P</td>
<td>C6101</td>
<td>T</td>
<td>English</td>
<td>South Campus</td>
<td>W</td>
<td>Faculty</td>
<td>10</td>
<td>May 23</td>
<td></td>
</tr>
<tr>
<td>SOC-160</td>
<td>C8101</td>
<td>T</td>
<td>English</td>
<td>South Campus</td>
<td>W</td>
<td>Faculty</td>
<td>10</td>
<td>May 23</td>
<td></td>
</tr>
<tr>
<td>SOC-201</td>
<td>C9101</td>
<td>T</td>
<td>English</td>
<td>South Campus</td>
<td>W</td>
<td>Faculty</td>
<td>10</td>
<td>May 23</td>
<td></td>
</tr>
<tr>
<td>SOC-208</td>
<td>C6101</td>
<td>T</td>
<td>English</td>
<td>South Campus</td>
<td>W</td>
<td>Faculty</td>
<td>10</td>
<td>May 23</td>
<td></td>
</tr>
<tr>
<td>SOC-210</td>
<td>C7101</td>
<td>T</td>
<td>English</td>
<td>South Campus</td>
<td>W</td>
<td>Faculty</td>
<td>10</td>
<td>May 23</td>
<td></td>
</tr>
<tr>
<td>SOC-211</td>
<td>C8101</td>
<td>T</td>
<td>English</td>
<td>South Campus</td>
<td>W</td>
<td>Faculty</td>
<td>10</td>
<td>May 23</td>
<td></td>
</tr>
<tr>
<td>SOW-101</td>
<td>C9101</td>
<td>T</td>
<td>English</td>
<td>South Campus</td>
<td>W</td>
<td>Faculty</td>
<td>10</td>
<td>May 23</td>
<td></td>
</tr>
<tr>
<td>SOW-103</td>
<td>C6101</td>
<td>T</td>
<td>English</td>
<td>South Campus</td>
<td>W</td>
<td>Faculty</td>
<td>10</td>
<td>May 23</td>
<td></td>
</tr>
<tr>
<td>SOW-104</td>
<td>C9101</td>
<td>T</td>
<td>English</td>
<td>South Campus</td>
<td>W</td>
<td>Faculty</td>
<td>10</td>
<td>May 23</td>
<td></td>
</tr>
<tr>
<td>SOW-110P</td>
<td>C6101</td>
<td>T</td>
<td>English</td>
<td>South Campus</td>
<td>W</td>
<td>Faculty</td>
<td>10</td>
<td>May 23</td>
<td></td>
</tr>
</tbody>
</table>

*An asterisk to the left of the course indicates that a lab fee will be assessed for that course.*

This schedule is published by the Community College of Allegheny County. Although the information herein is accurate as of the publication date, schedule changes routinely occur up to, and including, the start of classes. For the most up-to-date information, visit ccac.edu or the campus you plan to attend.
### SOW Social Work

<table>
<thead>
<tr>
<th>EXPRESS</th>
<th>CATALOG</th>
<th>SECTION</th>
<th>TIME</th>
<th>DAYS</th>
<th>LOCATION</th>
<th>INSTRUCTOR</th>
<th>NUM WKS</th>
<th>BEGINS</th>
<th>WK OF</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOW-120 Child Welfare</td>
<td>3 credits</td>
<td>Historical and legal bases for services to children, both institutional and non-institutional are examined. Problems, standards, and practices are considered together with the agencies, resident treatment facilities, juvenile courts, and protective agencies which implement services.</td>
<td>(0298850) SOW 120</td>
<td>SIN1</td>
<td>Internet Course</td>
<td>Robinson</td>
<td>10</td>
<td>May 23</td>
<td></td>
</tr>
<tr>
<td>SOW-125 Introduction to Social Welfare • PREREQUISITE(S): Eligible for ENG 100</td>
<td>3 credits</td>
<td>This course acquaints students with the historical development of Social Welfare and Social Welfare policy. It provides students with a national and global perspective, which enables them to better understand social welfare systems, concepts and programs.</td>
<td>(0297656) SOW 125</td>
<td>SIN1</td>
<td>Internet Course</td>
<td>Robinson</td>
<td>10</td>
<td>May 23</td>
<td></td>
</tr>
</tbody>
</table>

### SOW-130 Community Resources | 3 credits | A review of voluntary and governmental policies and services at local, state, and federal levels. Social legislation providing resources is related to the community service institutions, the groups served, and service used. | (0297657) SOW 130 | AIN01 |

### SOW-150 Cultural Competence/Diverse Populations • PREREQUISITE(S): Eligible for ENG 100 | 3 credits | This course will provide students with the knowledge, values and skills of culturally-competent social work at the foundational level. Emphasis on advocacy, strengths and well-being of diverse individuals, families, groups, organizations and communities will be explored. | (0298849) SOW 150 | SIN1 |

### SOW-210 Human Behavior in the Social Environment • PREREQUISITE(S): Eligible for ENG 100 | 3 credits | This course provides a conceptual framework for knowledge of human behavior and the social environment with a focus on individuals throughout the life span. Special attention to biological, psychological, social, spiritual and cultural systems will be examined. | (0297658) SOW 210 | AIN01 |

## SPA Spanish Language & Culture

### SPA 101 Elementary Spanish 1 • PREREQUISITE(S): ENG-089(21324) DVS-070(21262); PREREQUISITE(S): Eligibility for ENG100 and DVS101 or DV5103 | 3 credits | This course is designed to encourage the development of communicative proficiency through an integrated approach that incorporates all four language skills: listening, speaking, reading and writing. Grammatical structures, vocabulary and readings are presented as tools for developing good communications skills. In addition, this course aims to promote culture awareness of the Spanish-speaking world. | (0297851) SPA 101 | AC41 | 09:00AM-12:45PM | TR | Allegheny Campus | Michel | 6 | Jul 05 |
| (0297852) SPA 101 | AC81 | 06:00PM-10:05PM | MW | Allegheny Campus | Michel | 6 | Jul 05 |
| (0298247) SPA 101 | BC61 | 06:00PM-10:25PM | MW | Boyce Campus | Faculty | 6 | May 23 |
| (0298328) SPA 101 | HB01 | 09:00AM-01:40PM | S | Homewood Brushton Center | Nutini | 2 | May 23 |
| (0298246) SPA 101 | SC01 | 08:00AM-12:05PM | MW | South Campus | Daugerdas | 6 | May 23 |

### SPA 102A Elementary Spanish 2 • PREREQUISITE(S): Completion of SPA101 with a grade of C or better | 3 credits | This course builds on the skills acquired in Elementary Spanish 1, as students continue to develop their communicative language skills in Spanish. In addition, this course aims to promote culture awareness of the Spanish-speaking world. It is recommended that students take the next level SPA course (SPA201) within one academic year of the completion of this course. | (0297853) SPA 102 | AC41 | 09:00AM-01:05PM | MW | Allegheny Campus | Michel | 6 | Jul 05 |
| (0298249) SPA 102 | BC61 | 06:00PM-09:45PM | TR | Boyce Campus | Faculty | 6 | May 23 |
| (0297854) SPA 102 | BC81 | 06:00PM-09:45PM | MW | Boyce Campus | Faculty | 6 | Jul 05 |
| (0297857) SPA 102 | SC41 | 08:00AM-11:45AM | MW | South Campus | Daugerdas | 6 | Jul 05 |

### SPA 201 Intermediate Spanish 1 • PREREQUISITE(S): Completion of SPA102 with a grade of C or better | 3 credits | This course builds on the skills acquired during the elementary Spanish language sequence. It includes a functional overview of the basic language structures and grammar, then goes on to introduce more complex structures. The course has a strong cultural component. It is recommended that students take the next level SPA course (SPA202) within one academic year of the completion of this course. | (0297856) SPA 201 | BC81 | 06:00PM-09:45PM | TR | Boyce Campus | Faculty | 6 | Jul 05 |

### SPH Speech

### SPH-101 Oral Communication • PREREQUISITE(S): ENG100 | 3 credits | This is a course to develop the student's skill in the organization and oral expression of ideas through a variety of speeches. Emphasis is on the way people communicate effectively in professional, business, and social situations. | (0298250) SPH 101 | AC02 | 01:00PM-04:45PM | TR | Allegheny Campus | Whitmore | 6 | May 23 |
| (0297857) SPH 101 | AC41 | 09:00AM-12:45PM | TR | Allegheny Campus | Yao-Gorman | 6 | Jul 05 |
| (0297858) SPH 101 | AC42 | 09:00AM-01:45PM | MW | Allegheny Campus | Yao-Gorman | 6 | Jul 05 |
| (0298075) SPH 101 | AC61H | 05:30PM-09:40PM | T | Allegheny Campus | Burgess | 10 | May 23 |
| +SPH 101 AC61H is a hybrid class. See the Online Learning section for more information. | (0298076) SPH 101 | AC62H | 05:30PM-10:00PM | R | Allegheny Campus | Burgess | 10 | May 23 |
| +SPH 101 AC62H is a hybrid class. See the Online Learning section for more information. | (0298077) SPH 101 | AC63H | 01:00PM-05:15PM | MW | Allegheny Campus | Leithead | 10 | May 23 |
| +SPH 101 AC63H is a hybrid class. See the Online Learning section for more information. | (0297659) SPH 101 | AIN01 | 09:00AM-12:05PM | MW | South Campus | Jaber | 6 | May 23 |
| (0297675) SPH 101 | AIN02 | 09:00AM-12:05PM | MW | South Campus | Jaber | 6 | May 23 |
| (0298251) SPH 101 | BC01 | 10:45AM-12:50PM | MTWR | Boyce Campus | Faculty | 6 | May 23 |
| (0297859) SPH 101 | BC41 | 10:45AM-12:40PM | MTWR | Boyce Campus | Faculty | 6 | Jul 05 |
| (0298252) SPH 101 | BC61 | 06:00PM-10:05PM | MW | Boyce Campus | Faculty | 6 | May 23 |
| (0297860) SPH 101 | BC81 | 06:00PM-09:45PM | TR | Boyce Campus | Faculty | 6 | Jul 05 |
| (0298253) SPH 101 | BH61 | 05:30PM-09:15PM | TR | Braddock Hills Center | Faculty | 6 | May 23 |
| (0298257) SPH 101 | NC02 | 08:30AM-12:15PM | MW | North Campus | Faculty | 6 | May 23 |
| (0297861) SPH 101 | NC41 | 08:30AM-12:15PM | TR | North Campus | Faculty | 6 | Jul 05 |
| (0298258) SPH 101 | NG61 | 06:00PM-09:55PM | MW | North Campus | Faculty | 6 | Jun 06 |
| (0297862) SPH 101 | NC81 | 06:00PM-09:55PM | TR | North Campus | Faculty | 6 | Jul 05 |
| (0302188) SPH 101 | SIN01 | 09:00AM-12:05PM | MW | South Campus | Faculty | 6 | May 23 |
| (0302189) SPH 101 | SIN02 | 09:00AM-12:05PM | MW | South Campus | Faculty | 6 | May 23 |
| (0298259) SPH 101 | SC01 | 08:00AM-12:05PM | MW | South Campus | Jaber | 6 | May 23 |
| (0298260) SPH 101 | SC02 | 08:30AM-12:15PM | TR | South Campus | Faculty | 6 | May 23 |
| (0297863) SPH 101 | SC41 | 08:00AM-11:45AM | MW | South Campus | Hall | 6 | Jul 05 |
| (0298261) SPH 101 | SC61 | 06:00PM-10:05PM | MW | South Campus | Jaber | 6 | May 23 |
**SIN** 301  Introduction to Cinema • PREREQUISITE(S): WLD 202 Marketing 3 credits

This course is an introduction to the world of film and television. Students will explore various forms of cinema and television, including narrative, documentary, experimental, and new media. Students will also learn about the history, technology, and business of the film and television industries. The course will include hands-on experience in filmmaking.

**SCS** 101  Introduction to Theatre • PREREQUISITE(S): Eligibility for ENG 101 Theatre Studies 3 credits

This course is a survey of the theatre arts, including drama, musical theatre, and dance. Students will learn about the history of theatre, the craft of acting, and the technical aspects of theatre production. The course will include both theoretical and practical components.

**SIN** 101  Advanced Welding • PREREQUISITE(S): WLD 201 Plumbing and Heating 3 credits

This course is an advanced course in shielded metal-arc welding procedures to prepare for industrial certification. This includes flux-cored arc welding (FCAW) processes.

**WLD** 101  Welding Fundamentals 3 credits

This is a course on the theory and safety procedures. Students develop competency in the following shielded metal-arc welding processes: stringer beads, butt welds, and T-joints in the flat and horizontal positions. Students become familiar with oxy-fuel flame cutting equipment and its application.

**WLD** 102  Advanced Welding • PREREQUISITE(S): WLD 201 Plumbing and Heating 3 credits

A course on out-of-position shielded metal-arc welding with emphasis on proper heats, electrode selections, and AC/DC currents. Welding positions include horizontal, vertical, and overhead.

**WLD** 201  Prep for Welding Certification • PREREQUISITE(S): WLD 202 Plumbing and Heating 3 credits

This is an advanced course in shielded metal-arc welding procedures to prepare for industry certification. This includes flux core arc welding of single v-groove weld butt joints.

**WLD** 202  Mig & Tig Processes • PREREQUISITE(S): WLD 201 Plumbing and Heating 3 credits

This is a course on the theory and application of gas metal-arc welding (GMAW), flux-core arc welding (FCAW), and gas tungsten arc welding (GTAW) processes. Testing materials and fee for AWS certification are added to this course.

**WLD** 217  Mig Flux Core Certification • PREREQUISITE(S): WLD 202 Plumbing and Heating 3 credits

This is an advanced course in Mig flux core arc welding procedures to prepare for industry certification. This includes flux core arc welding of single v-groove weld butt joints and backing strips in the flat, horizontal, and vertical positions.

**WLD** 221  Brazing and Welding 3 credits

This is a course for students of technical programs. Covered are soldering and brazing of copper and steel, cutting and welding of steel using oxyacetylene, and electric arc welding of plate and sheet metal. Theory and safety of the above processes will be taught.

**WLD** 222  Pipe Welding 1 Basic • PREREQUISITE(S): WLD 201 Plumbing and Heating 3 credits

This course provides students with knowledge and skills to effectively begin basic techniques of uphill shielded metal-arc welding (SMAW) for pipe. Uphill welding is generally used on thick-wall pipe. Students will practice their basic skills on metal plates before transitioning to 6" diameter pipe. The American Society of Mechanical Engineers (ASME) and American Welding Society (AWS) code specifications will be followed.

**WLD** 223  Pipe Welding 2 Advanced • PREREQUISITE(S): WLD 222 Plumbing and Heating 3 credits

This course provides students with knowledge and skills to prepare for American Society of Mechanical Engineers (ASME) and American Welding Society (AWS) pipe welding certification in uphill shielded metal-arc welding (SMAW) for 6" diameter, schedule 80 pipe in the 6G (45 degree) fixed position. Testing materials and fee for AWS certification are added to this course.

**WLD** 224  Pipe Welding 3 - Downhill • PREREQUISITE(S): WLD 222 Plumbing and Heating 3 credits

This course provides students with knowledge and skills to prepare for The American Petroleum Institute (API) downhill shielded metal-arc pipe welding process and certification. This process is employed by the Marcellus Shale industry to connect natural gas cross country transmission pipelines. Students will be introduced to the branch tee takeoff, which includes laying out, cutting and welding. The testing fee for the downhill shielded metal-arc pipe welding certification is added to the tuition for this course.
If you find yourself struggling to balance school, work and family responsibilities then explore Online Learning (OL). If you are self-motivated and willing to work hard, OL courses may make your goal of earning an associate’s degree more accessible than ever.

**Internet courses:** require use of a computer with Internet access, proficient computer skills, self-discipline, a CCAC-provided email account and other computer hardware and software.

**Hybrid (formerly web-enhanced) courses:** combine a percentage of classroom attendance at one of CCAC’s campuses or centers with online learning and collaboration. These courses require computer skills and Internet access, a CCAC-provided email account and other hardware and software.

**On-campus Exams:** Any Internet course or Telecourse may require testing for some or all student evaluation. On-campus tests, when required, take place at one of our four campus Learning Assistance Centers or at a location designated by the student with the course instructor’s approval. Please visit ccac.edu online learning link at the top of the homepage for more information regarding the test proctor approval process. If you are unable to come to a campus, please contact the course instructor for additional course-specific details.

**Remote placement testing** is now available to applicants outside our geographic region. Students may take the Placement Test at any authorized testing site. For more information go to: ccac.edu and then click on Online Learning at the top of the page.

---

**Free online tutoring is available to CCAC students**

Connect with a tutor and interact in real time. Submit your writing for any class to our Online Writing Lab. Submit a question and receive a reply from a tutor.

**Log into your FREE online tutoring account:**

1. Go to ccac.edu.
2. Click on Student Services link and then click on Tutoring Services.
3. Scroll down the page and click on the Smarthinking login link.
4. Enter your NetID and password (your NetID must be preceded by “ccac\", e.g., “ccac\myNetID.”)

**Minimum Technical Requirements for Online Learning Courses**

Some courses may have additional hardware and/or software requirements. For more information, visit ccac.edu/online learning or contact the course instructor for specific technical requirements.

**Browser:**
- Microsoft Internet Explorer 9 or higher
- Firefox 31 or higher, Safari 6 (Mac OSX 10.7).

**Internet connection:**
- Account with an Internet Service Provider (additional fees may apply)

**Recommended:**
- Microsoft Office Suite 2003 or higher (Word, Excel, Access and PowerPoint)
- Printer
- CD-ROM drive

Some courses may have additional hardware or software requirements. Please contact the instructor for additional information.

For more information and full technical requirements, please visit ccac.edu/online-getting-started

---

**Note:** Students receiving PHEAA funding need to review PHEAA restrictions for online learning classes. See page 4 for additional information.
<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Credit(s)</th>
<th>Course Number</th>
<th>Course Title</th>
<th>Credit(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC-100</td>
<td>Introduction to Accounting</td>
<td>3</td>
<td>CIT-175</td>
<td>Cyberspace Vulnerabilities &amp; Risks</td>
<td>3</td>
</tr>
<tr>
<td>ACC-104</td>
<td>Financial Accounting</td>
<td>4</td>
<td>CIT-180</td>
<td>Computer Forensics 1</td>
<td>3</td>
</tr>
<tr>
<td>ACC-120</td>
<td>Computer Applications in Accounting</td>
<td>3</td>
<td>CIT-181</td>
<td>Principles of Information Security</td>
<td>4</td>
</tr>
<tr>
<td>ACC-201</td>
<td>Intermediate Accounting I</td>
<td>3</td>
<td>CIT-185</td>
<td>Network Security</td>
<td>3</td>
</tr>
<tr>
<td>ACC-203</td>
<td>Managerial Accounting</td>
<td>4</td>
<td>CIT-186</td>
<td>Intrusion Detection &amp; Prevention</td>
<td>3</td>
</tr>
<tr>
<td>ACC-210</td>
<td>Payroll &amp; Tax Accounting</td>
<td>3</td>
<td>CIT-215</td>
<td>Systems Analysis &amp; Design</td>
<td>3</td>
</tr>
<tr>
<td>ACC-211</td>
<td>Principles of Tax I</td>
<td>3</td>
<td>CIT-220</td>
<td>Linux Operating Systems</td>
<td>3</td>
</tr>
<tr>
<td>ALH-140</td>
<td>Medical Terminology</td>
<td>3</td>
<td>CIT-230</td>
<td>Database Systems</td>
<td>4</td>
</tr>
<tr>
<td>ANT-101</td>
<td>Introduction to Anthropology</td>
<td>3</td>
<td>CIT-244</td>
<td>Object Oriented Programming 2—JAVA</td>
<td>4</td>
</tr>
<tr>
<td>ANT-102</td>
<td>Introduction to Cultural Anthropology</td>
<td>3</td>
<td>CIT-250</td>
<td>Internetworking of Computers</td>
<td>3</td>
</tr>
<tr>
<td>ANT-104</td>
<td>Native American Indians of North America</td>
<td>3</td>
<td>CIT-251</td>
<td>Windows Server Operating System</td>
<td>4</td>
</tr>
<tr>
<td>ANT-110</td>
<td>Forensic Anthropology</td>
<td>3</td>
<td>CIT-600</td>
<td>Introduction to Windows</td>
<td>1</td>
</tr>
<tr>
<td>ANT-117</td>
<td>Globalization</td>
<td>3</td>
<td>CIT-602</td>
<td>Presentation Graphics: PowerPoint</td>
<td>1</td>
</tr>
<tr>
<td>ART-104</td>
<td>Art History—Modern</td>
<td>3</td>
<td>CIT-604</td>
<td>Electronic Spreadsheets Excel</td>
<td>1</td>
</tr>
<tr>
<td>ART-106</td>
<td>Art Appreciation</td>
<td>3</td>
<td>CIT-606</td>
<td>Data Management: Access</td>
<td>1</td>
</tr>
<tr>
<td>ART-144</td>
<td>Digital Photography</td>
<td>3</td>
<td>CIT-607</td>
<td>Office Management-Outlook</td>
<td>1</td>
</tr>
<tr>
<td>ART-150</td>
<td>Introduction to Digital Graphic Design</td>
<td>3</td>
<td>CIT-609</td>
<td>Word Processing: Word</td>
<td>1</td>
</tr>
<tr>
<td>ART-165</td>
<td>Digital Publishing</td>
<td>3</td>
<td>CIT-615</td>
<td>Computer Applications in Health Care</td>
<td>1</td>
</tr>
<tr>
<td>ART-168</td>
<td>Digital Imaging</td>
<td>3</td>
<td>CIT-617</td>
<td>Introduction to Microsoft Project</td>
<td>1</td>
</tr>
<tr>
<td>ART-170</td>
<td>Web Graphic Design</td>
<td>3</td>
<td>CIT-641</td>
<td>Computer Information Security</td>
<td>1</td>
</tr>
<tr>
<td>ART-250</td>
<td>Advanced Digital Graphic Design</td>
<td>3</td>
<td>CIT-655</td>
<td>Swift Programming Software Developer</td>
<td>1</td>
</tr>
<tr>
<td>BIO-100</td>
<td>Life Science</td>
<td>3</td>
<td>CJC-101</td>
<td>Introduction to Criminal</td>
<td>3</td>
</tr>
<tr>
<td>BIO-103</td>
<td>Introduction to Human Biology</td>
<td>3</td>
<td>CJC-102</td>
<td>Introduction to Corrections</td>
<td>3</td>
</tr>
<tr>
<td>BIO-107</td>
<td>Pharmacology</td>
<td>3</td>
<td>CJC-124</td>
<td>Juvenile Justice/Juvenile Delinquency</td>
<td>3</td>
</tr>
<tr>
<td>BIO-117</td>
<td>Introduction to Nutrition</td>
<td>3</td>
<td>CJC-151</td>
<td>Criminal Justice System Law</td>
<td>3</td>
</tr>
<tr>
<td>BIO-123</td>
<td>Medical Biology &amp; Terminology</td>
<td>3</td>
<td>CJC-152</td>
<td>Ethics in Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>BIO-133</td>
<td>Environmental Science</td>
<td>3</td>
<td>CJC-201</td>
<td>Fundamentals of Criminal Investigation</td>
<td>3</td>
</tr>
<tr>
<td>BIO-241</td>
<td>Pathophysiology</td>
<td>4</td>
<td>CJC-203</td>
<td>Evidence &amp; Procedures</td>
<td>3</td>
</tr>
<tr>
<td>BUS-101</td>
<td>Introduction to Business</td>
<td>3</td>
<td>CJC-204</td>
<td>Criminal Justice System Organization &amp; Administration</td>
<td>3</td>
</tr>
<tr>
<td>BUS-103</td>
<td>Principles of Management</td>
<td>3</td>
<td>CJC-205</td>
<td>Introduction to Forensics</td>
<td>3</td>
</tr>
<tr>
<td>BUS-104</td>
<td>Principles of Marketing</td>
<td>3</td>
<td>CJC-206</td>
<td>Police Operations</td>
<td>3</td>
</tr>
<tr>
<td>BUS-108</td>
<td>Principles of Financing</td>
<td>3</td>
<td>CJC-207</td>
<td>Introduction to Criminology</td>
<td>3</td>
</tr>
<tr>
<td>BUS-110</td>
<td>Personal Finance</td>
<td>3</td>
<td>CJC-211</td>
<td>Treatment for Offenders: Issues, Strategies</td>
<td>3</td>
</tr>
<tr>
<td>BUS-117</td>
<td>Public Relations</td>
<td>3</td>
<td>DIT-105L</td>
<td>Foods Lab</td>
<td>1</td>
</tr>
<tr>
<td>BUS-122</td>
<td>Business Statistics</td>
<td>3</td>
<td>DIT-106</td>
<td>Fundamentals of Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>BUS-130</td>
<td>Business Communications</td>
<td>3</td>
<td>ECD-113</td>
<td>Middle Childhood/Adolescent Development</td>
<td>3</td>
</tr>
<tr>
<td>BUS-140</td>
<td>Introduction to E-commerce</td>
<td>3</td>
<td>ECD-202</td>
<td>Children With Special Needs</td>
<td>3</td>
</tr>
<tr>
<td>BUS-143</td>
<td>Internet Marketing</td>
<td>3</td>
<td>ECO-102</td>
<td>Principles of Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>BUS-200</td>
<td>Principles of Supervision</td>
<td>3</td>
<td>ECO-103</td>
<td>Principles of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>BUS-201</td>
<td>Human Resource Management</td>
<td>3</td>
<td>EDU-205</td>
<td>English Language Learners in the Classroom</td>
<td>3</td>
</tr>
<tr>
<td>BUS-210</td>
<td>Principles of Retailing</td>
<td>3</td>
<td>EET-103</td>
<td>Introduction to Electronics</td>
<td>3</td>
</tr>
<tr>
<td>BUS-211</td>
<td>Principles of Advertising</td>
<td>3</td>
<td>ENG-101</td>
<td>English Composition 1</td>
<td>3</td>
</tr>
<tr>
<td>BUS-212</td>
<td>Principles of Selling</td>
<td>3</td>
<td>ENG-102</td>
<td>Creative Writing</td>
<td>3</td>
</tr>
<tr>
<td>BUS-240</td>
<td>Small Business Management 1</td>
<td>3</td>
<td>ENG-105</td>
<td>English Composition 2</td>
<td>3</td>
</tr>
<tr>
<td>BUS-251</td>
<td>Business Law 1</td>
<td>3</td>
<td>ENG-115</td>
<td>General Literature</td>
<td>3</td>
</tr>
<tr>
<td>BUS-252</td>
<td>Business Law 2</td>
<td>3</td>
<td>ENG-117</td>
<td>Children's Literature</td>
<td>3</td>
</tr>
<tr>
<td>CHM-110</td>
<td>Introduction to Chemistry</td>
<td>3</td>
<td>ENG-118</td>
<td>Women as Writers</td>
<td>3</td>
</tr>
<tr>
<td>CIT-100</td>
<td>Computer Fundamentals &amp; Applications</td>
<td>3</td>
<td>ENG-202</td>
<td>Fiction</td>
<td>3</td>
</tr>
<tr>
<td>CIT-102</td>
<td>Computer Keyboarding</td>
<td>3</td>
<td>ENG-205</td>
<td>American Literature to the Civil War</td>
<td>3</td>
</tr>
<tr>
<td>CIT-111</td>
<td>Introduction to Programming: Java</td>
<td>4</td>
<td>ENG-206</td>
<td>American Literature from Civil War to Present</td>
<td>3</td>
</tr>
<tr>
<td>CIT-115</td>
<td>Introduction to Information Technology</td>
<td>3</td>
<td>ENG-207</td>
<td>African American Literature</td>
<td>3</td>
</tr>
<tr>
<td>CIT-120</td>
<td>Networking</td>
<td>3</td>
<td>ENG-209</td>
<td>World Literature to 1650</td>
<td>3</td>
</tr>
<tr>
<td>CIT-125</td>
<td>Web Development</td>
<td>3</td>
<td>ENG-210</td>
<td>World Literature from 1650 to Present</td>
<td>3</td>
</tr>
<tr>
<td>CIT-130</td>
<td>Object Oriented Programming 1—JAVA</td>
<td>4</td>
<td>ENG-222</td>
<td>Shakespeare’s Plays</td>
<td>3</td>
</tr>
<tr>
<td>CIT-135</td>
<td>Mobile Apps Programming 1</td>
<td>3</td>
<td>ETH-101</td>
<td>Ethnic and Diversity Studies</td>
<td>3</td>
</tr>
<tr>
<td>CIT-140</td>
<td>Office Productivity Applications</td>
<td>4</td>
<td>ETH-112</td>
<td>Understanding Violence in America</td>
<td>3</td>
</tr>
<tr>
<td>CIT-141</td>
<td>Word Processing</td>
<td>3</td>
<td>FSA-107</td>
<td>Fire Behavior &amp; Combustion</td>
<td>3</td>
</tr>
<tr>
<td>CIT-142</td>
<td>Desktop Publishing Concepts</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CIT-145</td>
<td>Programming in C</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CIT-150</td>
<td>PC Components &amp; Operating Systems</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CIT-155</td>
<td>Excel Spreadsheets</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CIT-161</td>
<td>Visual Basic Windows Programming</td>
<td>4</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

This schedule is published by the Community College of Allegheny County. Although the information herein is accurate as of the publication date, schedule changes routinely occur up to, and including, the start of classes. For the most up-to-date information, visit ccac.edu or the campus you plan to attend.
<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Credit(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEO-101</td>
<td>World Geography</td>
<td>3</td>
</tr>
<tr>
<td>GEO-103</td>
<td>Geography of US &amp; Canada</td>
<td>3</td>
</tr>
<tr>
<td>GGY-201</td>
<td>Introduction to Geology</td>
<td>3</td>
</tr>
<tr>
<td>GGY-202</td>
<td>Historical Geology</td>
<td>3</td>
</tr>
<tr>
<td>GGY-203</td>
<td>Physical Geology</td>
<td>4</td>
</tr>
<tr>
<td>HIS-101</td>
<td>History of Western Civilization 1</td>
<td>3</td>
</tr>
<tr>
<td>HIS-102</td>
<td>History of Western Civilization 2</td>
<td>3</td>
</tr>
<tr>
<td>HIS-104</td>
<td>United States History 1</td>
<td>3</td>
</tr>
<tr>
<td>HIS-105</td>
<td>United States History 2</td>
<td>3</td>
</tr>
<tr>
<td>HIS-203</td>
<td>African American History 1</td>
<td>3</td>
</tr>
<tr>
<td>HIS-205</td>
<td>African American History 2</td>
<td>3</td>
</tr>
<tr>
<td>HIS-213</td>
<td>20th Century World History</td>
<td>3</td>
</tr>
<tr>
<td>HIS-219</td>
<td>History of Women</td>
<td>3</td>
</tr>
<tr>
<td>HIS-222</td>
<td>Pittsburgh: Past, Present &amp; Future</td>
<td>3</td>
</tr>
<tr>
<td>HLS-101</td>
<td>Orientation to Homeland Security</td>
<td>3</td>
</tr>
<tr>
<td>HLS-205</td>
<td>Homeland Security Grant Writing</td>
<td>3</td>
</tr>
<tr>
<td>HLS-206</td>
<td>Continuity of Operation Planning</td>
<td>3</td>
</tr>
<tr>
<td>HPE-171</td>
<td>Personal &amp; Community Health &amp; Wellness</td>
<td>3</td>
</tr>
<tr>
<td>HPE-172</td>
<td>Foundations of Health &amp; Physical Education</td>
<td>3</td>
</tr>
<tr>
<td>JRN-103</td>
<td>Introduction to Mass Media</td>
<td>3</td>
</tr>
<tr>
<td>MAT-090</td>
<td>Algebra Fundamentals</td>
<td>4</td>
</tr>
<tr>
<td>MAT-102</td>
<td>Mathematical Concepts</td>
<td>3</td>
</tr>
<tr>
<td>MAT-108</td>
<td>Intermediate Algebra</td>
<td>4</td>
</tr>
<tr>
<td>MAT-111</td>
<td>College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MAT-120</td>
<td>Analytical Methods</td>
<td>4</td>
</tr>
<tr>
<td>MAT-135</td>
<td>Discrete Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MAT-142</td>
<td>Pre-Calculus</td>
<td>4</td>
</tr>
<tr>
<td>MAT-147</td>
<td>College Trigonometry</td>
<td>3</td>
</tr>
<tr>
<td>MAT-161</td>
<td>Elementary Statistics</td>
<td>3</td>
</tr>
<tr>
<td>MAT-165</td>
<td>Probability &amp; Statistics</td>
<td>4</td>
</tr>
<tr>
<td>MAT-195</td>
<td>Business Math</td>
<td>3</td>
</tr>
<tr>
<td>MAT-201</td>
<td>Calculus 1</td>
<td>4</td>
</tr>
<tr>
<td>MAT-202</td>
<td>Calculus 2</td>
<td>4</td>
</tr>
<tr>
<td>MAT-220</td>
<td>Business Calculus</td>
<td>4</td>
</tr>
<tr>
<td>MAT-250</td>
<td>Calculus 3</td>
<td>4</td>
</tr>
<tr>
<td>MAT-251</td>
<td>Differential Equations</td>
<td>3</td>
</tr>
<tr>
<td>MAT-253</td>
<td>Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MUS-101</td>
<td>Introduction to Music</td>
<td>3</td>
</tr>
<tr>
<td>PAL-112</td>
<td>Litigation 2</td>
<td>3</td>
</tr>
<tr>
<td>PAL-121</td>
<td>Estate Trusts 1</td>
<td>2</td>
</tr>
<tr>
<td>PAL-122</td>
<td>Estate Trusts 2</td>
<td>2</td>
</tr>
<tr>
<td>PAL-135</td>
<td>Employee Benefits</td>
<td>3</td>
</tr>
<tr>
<td>PAL-225</td>
<td>Bankruptcy Law &amp; Procedure</td>
<td>3</td>
</tr>
<tr>
<td>PHL-101</td>
<td>Introduction to Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>PHL-103</td>
<td>Logic</td>
<td>3</td>
</tr>
<tr>
<td>PHL-111</td>
<td>Religions/World</td>
<td>3</td>
</tr>
<tr>
<td>PHL-155</td>
<td>Ethics</td>
<td>3</td>
</tr>
<tr>
<td>PHL-160</td>
<td>Ethics in Business</td>
<td>3</td>
</tr>
<tr>
<td>PHL-205</td>
<td>Medical Ethics &amp; Law</td>
<td>3</td>
</tr>
<tr>
<td>PHS-101</td>
<td>Earth Science</td>
<td>3</td>
</tr>
<tr>
<td>PHS-107</td>
<td>Introduction to Astronomy</td>
<td>3</td>
</tr>
<tr>
<td>PHS-108</td>
<td>Introduction to Weather</td>
<td>3</td>
</tr>
<tr>
<td>PHY-100</td>
<td>Basic Physics</td>
<td>4</td>
</tr>
<tr>
<td>PHY-141</td>
<td>Physics I</td>
<td>4</td>
</tr>
<tr>
<td>POL-101</td>
<td>Introduction to Political Science</td>
<td>3</td>
</tr>
<tr>
<td>POL-103</td>
<td>American Government</td>
<td>3</td>
</tr>
<tr>
<td>POL-115</td>
<td>The American Constitution</td>
<td>3</td>
</tr>
<tr>
<td>POL-206</td>
<td>International Relations</td>
<td>3</td>
</tr>
<tr>
<td>PSY-101</td>
<td>Introduction to Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSY-108</td>
<td>Human Growth &amp; Development</td>
<td>3</td>
</tr>
<tr>
<td>PSY-109</td>
<td>Psychology of Women</td>
<td>3</td>
</tr>
<tr>
<td>PSY-113</td>
<td>Psychology of Death/Dying</td>
<td>3</td>
</tr>
<tr>
<td>PSY-114</td>
<td>Human Sexuality</td>
<td>3</td>
</tr>
<tr>
<td>PSY-140</td>
<td>Health Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSY-201</td>
<td>Educational Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSY-202</td>
<td>Social Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSY-208</td>
<td>Abnormal Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSY-210</td>
<td>Child Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSY-214</td>
<td>Psychology of Adulthood</td>
<td>3</td>
</tr>
<tr>
<td>PSY-230</td>
<td>Counseling the Addict</td>
<td>3</td>
</tr>
<tr>
<td>RES-116</td>
<td>Pulmonary Diagnostic Procedures</td>
<td>3</td>
</tr>
<tr>
<td>RES-118</td>
<td>Respiratory Pharmacology</td>
<td>3</td>
</tr>
<tr>
<td>SOC-101</td>
<td>Introduction to Sociology</td>
<td>3</td>
</tr>
<tr>
<td>SOC-117</td>
<td>Understanding Chemical Dependency</td>
<td>3</td>
</tr>
<tr>
<td>SOC-160</td>
<td>Introduction to Women's Studies</td>
<td>3</td>
</tr>
<tr>
<td>SOC-201</td>
<td>Sociology of the Family</td>
<td>3</td>
</tr>
<tr>
<td>SOC-208</td>
<td>Urban Sociology</td>
<td>3</td>
</tr>
<tr>
<td>SOC-210</td>
<td>The Sociology of Sexual Behavior</td>
<td>3</td>
</tr>
<tr>
<td>SOC-211</td>
<td>Racial/Ethnic Minorities</td>
<td>3</td>
</tr>
<tr>
<td>SOC-213</td>
<td>Sociology of Health/Illness</td>
<td>3</td>
</tr>
<tr>
<td>SOC-214</td>
<td>Introduction to Social Work</td>
<td>3</td>
</tr>
<tr>
<td>SOC-215</td>
<td>Interview Skills</td>
<td>3</td>
</tr>
<tr>
<td>SOC-215</td>
<td>Child Welfare</td>
<td>3</td>
</tr>
<tr>
<td>SOC-216</td>
<td>Introduction to Social Welfare</td>
<td>3</td>
</tr>
<tr>
<td>SOC-217</td>
<td>Community Resources</td>
<td>3</td>
</tr>
<tr>
<td>SOC-218</td>
<td>Cultural Competence/Diverse Populations</td>
<td>3</td>
</tr>
<tr>
<td>SPH-101</td>
<td>Oral Communications</td>
<td>3</td>
</tr>
<tr>
<td>SPH-106</td>
<td>Interpersonal Communication Skills for the Workplace</td>
<td>3</td>
</tr>
<tr>
<td>SOW-106</td>
<td>Human Behavior in the Social Environment</td>
<td>3</td>
</tr>
<tr>
<td>SOW-120</td>
<td>Cultural Competence/Diverse Populations</td>
<td>3</td>
</tr>
<tr>
<td>SOW-125</td>
<td>Oral Communications</td>
<td>3</td>
</tr>
<tr>
<td>SOW-130</td>
<td>Interpersonal Communication Skills for the Workplace</td>
<td>3</td>
</tr>
<tr>
<td>SOW-150</td>
<td>Introduction to Theatre</td>
<td>3</td>
</tr>
<tr>
<td>Course Number</td>
<td>Course Title</td>
<td>Credit(s)</td>
</tr>
<tr>
<td>---------------</td>
<td>------------------------------------------------------</td>
<td>-----------</td>
</tr>
<tr>
<td>ACC-104</td>
<td>Financial Accounting</td>
<td>4</td>
</tr>
<tr>
<td>BIO-151</td>
<td>General Biology</td>
<td>4</td>
</tr>
<tr>
<td>BIO-161</td>
<td>Anatomy &amp; Physiology 1</td>
<td>4</td>
</tr>
<tr>
<td>BIO-162</td>
<td>Anatomy &amp; Physiology 2</td>
<td>4</td>
</tr>
<tr>
<td>BIO-175</td>
<td>Microbiology</td>
<td>4</td>
</tr>
<tr>
<td>BIO-207</td>
<td>Genetics</td>
<td>4</td>
</tr>
<tr>
<td>BUS-104</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>CIT-111</td>
<td>Introduction to Programming—JAVA</td>
<td>4</td>
</tr>
<tr>
<td>CIT-115</td>
<td>Introduction to Information Technology</td>
<td>3</td>
</tr>
<tr>
<td>CIT-140</td>
<td>Office Productivity Applications</td>
<td>3</td>
</tr>
<tr>
<td>DVS-103</td>
<td>College Reading 2</td>
<td>3</td>
</tr>
<tr>
<td>DVS-105</td>
<td>Advanced College Reading &amp; Study Skills</td>
<td>3</td>
</tr>
<tr>
<td>ECD-105</td>
<td>Early Childhood Development—Birth to Age 6</td>
<td>3</td>
</tr>
<tr>
<td>ECD-107</td>
<td>Health &amp; Safety of Children</td>
<td>3</td>
</tr>
<tr>
<td>ECD-214</td>
<td>Curriculum for Early Childhood Classroom</td>
<td>3</td>
</tr>
<tr>
<td>EDU-132</td>
<td>Bully Prevention in Schools</td>
<td>1</td>
</tr>
<tr>
<td>EDU-141</td>
<td>Diverse Learners</td>
<td>1</td>
</tr>
<tr>
<td>ENG-102H</td>
<td>English Composition 2</td>
<td>3</td>
</tr>
<tr>
<td>FLR-155</td>
<td>Hospitality Seminar 1</td>
<td>3</td>
</tr>
<tr>
<td>FLR-255</td>
<td>Hospitality Seminar 2</td>
<td>3</td>
</tr>
<tr>
<td>MAT-142</td>
<td>Pre-Calculus</td>
<td>4</td>
</tr>
<tr>
<td>MAT-147</td>
<td>College Trigonometry</td>
<td>3</td>
</tr>
<tr>
<td>MAT-202</td>
<td>Calculus 2</td>
<td>4</td>
</tr>
<tr>
<td>NSG-104</td>
<td>Drug Calculations</td>
<td>1</td>
</tr>
<tr>
<td>NUR-140</td>
<td>Evidence based Nursing Drug Therapy</td>
<td>3</td>
</tr>
<tr>
<td>NUR-210</td>
<td>Professional Nursing Issues</td>
<td>2</td>
</tr>
<tr>
<td>NUR-220</td>
<td>Adult Health Concepts in Nursing Practice</td>
<td>4</td>
</tr>
<tr>
<td>NUR-230</td>
<td>Family Health Concepts in Nursing Practice</td>
<td>4</td>
</tr>
<tr>
<td>PHY-223</td>
<td>Physics for Science</td>
<td>4</td>
</tr>
<tr>
<td>RES-111</td>
<td>Respiratory Care Equipment 1</td>
<td>4</td>
</tr>
<tr>
<td>RES-113</td>
<td>Respiratory Therapy</td>
<td>4</td>
</tr>
<tr>
<td>RES-117</td>
<td>Pulmonary &amp; Related Pathology</td>
<td>4</td>
</tr>
<tr>
<td>RES-117L</td>
<td>Pulmonary &amp; Related Pathology</td>
<td>0</td>
</tr>
<tr>
<td>SOW-110P</td>
<td>Social Work/Service Learning Practicum</td>
<td>3</td>
</tr>
<tr>
<td>SPH-101</td>
<td>Oral Communications</td>
<td>3</td>
</tr>
</tbody>
</table>

Check the credit course schedule pages. All meeting dates for the Hybrid courses are listed on ccac.edu.
# CLASS SCHEDULE WORKSHEET—SUMMER 2016

**STUDENT:**

<table>
<thead>
<tr>
<th>Time</th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
<th>Friday</th>
</tr>
</thead>
<tbody>
<tr>
<td>____AM</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>____AM</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8:00AM</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8:30AM</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9:00AM</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9:30AM</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10:00AM</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10:30AM</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11:00AM</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11:30AM</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12:00PM</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12:30PM</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1:00PM</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1:30PM</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2:00PM</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2:30PM</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3:00PM</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3:30PM</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4:00PM</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4:30PM</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5:00PM</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5:30PM</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6:00PM</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>____PM</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>____PM</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Comments:
ABOUT THE COMMUNITY Community College of Allegheny County (CCAC)
CCAC annually educates nearly 30,000 credit students through more than 150 degree, certificate, diploma and transfer programs and offers thousands of students access to noncredit and workforce development courses. The learning-centered institution’s mission is to provide affordable access to quality education and offer a dynamic, diverse and supportive learning environment that prepares the region’s residents for academic, professional and personal success in our changing global society. CCAC’s quality programs enable students to transfer credits to approximately 500 colleges and universities and support regional workforce needs with accessible instruction available day, evening, weekend and online in Allegheny County and beyond. Visit ccac.edu to learn more.

The credit schedule is searchable on ccac.edu. Online application, registration and payment capabilities are also available.

This publication was created by the CCAC Public Relations & Marketing Department.