CATEC Program of Studies
2017-2018

Charlottesville Albemarle Technical Education Center (CATEC)

High school CATEC classes are offered at CATEC and other sites, and are available to all Albemarle County and Charlottesville City Public School students free of charge. Most programs meet for half-day and include practical, hands-on training in a variety of exciting career fields. Transportation to and from base schools is provided. To enroll in CATEC classes students should talk with their high school counselor.

Students who attend and complete CATEC programs have the opportunity to receive a recognized certification or credential in their field and high school elective credit. Many CATEC classes also offer dual enrollment credit.

CATEC houses two academies which offer educational and career pathways for students in partnership with post-secondary institutions and employers. Students in the academies may qualify to receive industry certifications and credentials. These credentials are a valuable tool to gain full-time employment in growth industries with livable wages. Graduates may also continue their education utilizing the dual enrollment credits they received while in high school.

CATEC Information & Engineering Technology Academy
CATEC is partnered with PVCC, CISCO Systems, and local businesses to develop career and educational pathway in computer networking and cybersecurity.

CATEC Healthcare and Medical Services Academy
CATEC is partnered with PVCC, Reynolds Community College, and local businesses to develop career and educational pathway in the areas of Nursing, Pharmacy, and Dental, and Emergency Medicine.

Additional CATEC Programs
  Auto Service Technician
  Auto Body Repair
  Building Trades
  Electrical
  Fire Fighting
  Culinary Arts
  Cosmetology
  Music Industry Technology
  CATEC Exploratory
Admissions
Students need to register for classes with their school counselor. CATEC staff will work with guidance counselors to assist students in scheduling their classes. All programs have a maximum of 20 students including the exploratory program. If any classes are over capacity, the CATEC interview process will determine those students accepted.

In addition, students who select a dual enrollment course are required to take the VPT exam in the spring before they begin the class. Students should check with their high school counselor to see if they are exempt from taking any part of the VPT exam based on qualifying scores on their ACT, SAT, PSAT, and SOL exams.

Scheduling
Most CATEC classes are offered at CATEC on Rio Road. Students are bussed from their base schools and usually spend either the entire morning or the entire afternoon at CATEC.

### CATEC 2017-2018 Academy and Program Course Offerings

<table>
<thead>
<tr>
<th>Academy</th>
<th>Class</th>
<th>State Code</th>
<th>Duration</th>
<th>Grades</th>
<th>Dual Enrolled</th>
<th>Credential</th>
<th>AM or PM</th>
<th>English Classes Available</th>
</tr>
</thead>
<tbody>
<tr>
<td>Information and Engineering Technology Academy</td>
<td>Computer Network Hardware I&amp;II</td>
<td>8542 8543</td>
<td>1 year</td>
<td>10-12</td>
<td>PVCC – 10 Credits</td>
<td>Cisco CCENT CompTIA A+, WRS</td>
<td>AM PM</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>Computer Network Hardware III &amp; IV</td>
<td>8544 8545</td>
<td>1 year</td>
<td>11-12</td>
<td>PVCC – 6 Credits</td>
<td>Cisco CCNA-RS, WRS</td>
<td>PM only</td>
<td>Yes</td>
</tr>
<tr>
<td>Health and Medical Academy</td>
<td>Nurse Assistant I&amp;II</td>
<td>8360 8362</td>
<td>1 year</td>
<td>11-12</td>
<td>PVCC-11 credits</td>
<td>State certified Nurse Assistant (CNA), First Aid, CPR, WRS</td>
<td>AM PM</td>
<td>No</td>
</tr>
<tr>
<td>Dental Careers I&amp;II</td>
<td>8328 8329</td>
<td>1 year</td>
<td>10-12</td>
<td></td>
<td>RCC 20 credits, PVCC 2 credits (22)</td>
<td>Radiation Health Safety, Infection Control, First Aid, CPR, WRS</td>
<td>PM only</td>
<td>No</td>
</tr>
<tr>
<td>Pharmacy Technician I&amp;II</td>
<td>8305 8306</td>
<td>1 year</td>
<td>10-12</td>
<td></td>
<td>PVCC – 15 credits</td>
<td>State certified Pharmacy Technician, First Aid, CPR, WRS</td>
<td>AM only</td>
<td>Yes</td>
</tr>
<tr>
<td>EMT I&amp;II</td>
<td>8333 8334</td>
<td>1 year</td>
<td>Age 16 on first day</td>
<td>PVCC- Credits TBD</td>
<td>State certified EMT-B, CPR, First Aid, WRS</td>
<td>PM only</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Fire Service Academy</td>
<td>Firefighter I &amp; II</td>
<td>8705 8706</td>
<td>1 year</td>
<td>Age 16 on first day</td>
<td>RCC-6 Credits PVCC-2 Credits (8)</td>
<td>State FF1&amp;2, CPR, First Aid, Hazmat, FEMA 100, FEMA 200, FEMA 700, WRS</td>
<td>AM only</td>
<td>Yes</td>
</tr>
<tr>
<td>Program</td>
<td>Class</td>
<td>State Code</td>
<td>Duration</td>
<td>Grades</td>
<td>Dual Enrolled</td>
<td>Credential</td>
<td>AM or PM</td>
<td>English classes Available</td>
</tr>
<tr>
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</tr>
<tr>
<td>Auto Service Tech</td>
<td>Auto Tech I</td>
<td>8506</td>
<td>1 year</td>
<td>10-12</td>
<td>Reynolds CC</td>
<td>WRS</td>
<td>AM Only</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>Auto Tech II</td>
<td>8507</td>
<td>1 year</td>
<td>11-12</td>
<td>Reynolds CC</td>
<td>AYES, WRS</td>
<td>PM only</td>
<td>Yes</td>
</tr>
<tr>
<td>Auto Body Tech</td>
<td>Auto Body Technology I &amp; II</td>
<td>8676, 8677</td>
<td>1 year</td>
<td>10-12</td>
<td>NOCTI, AYES</td>
<td>WRS</td>
<td>AM</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>Auto Body Technology III</td>
<td>8678</td>
<td>1 year</td>
<td>11-12</td>
<td>NOCTI</td>
<td>WRS</td>
<td>PM only</td>
<td>Yes</td>
</tr>
<tr>
<td>Career Exploration</td>
<td>CATEC Exploratory</td>
<td>9070, 9071</td>
<td>1 year</td>
<td>9-10</td>
<td></td>
<td>PM Only</td>
<td>AM</td>
<td>No</td>
</tr>
<tr>
<td>Building Trades</td>
<td>Building Trades I &amp; II</td>
<td>8515, 8516</td>
<td>1 year</td>
<td>10-12</td>
<td>PVCC-12 Credits</td>
<td>NCCER, OSHA10, WRS</td>
<td>AM only</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>Electrical I&amp;II</td>
<td>8533, 8534</td>
<td>1 year</td>
<td>10-12</td>
<td></td>
<td>NCCER, OSHA10, WRS</td>
<td>PM only</td>
<td>Yes</td>
</tr>
<tr>
<td>Culinary Arts</td>
<td>Professional Culinary Arts I</td>
<td>8275</td>
<td>1 year</td>
<td>10-12</td>
<td>PVCC-12 credits</td>
<td>Serve Safe, WRS, CPR, First Aid</td>
<td>AM</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>Professional Culinary Arts II</td>
<td>8276</td>
<td>1 year</td>
<td>10-12</td>
<td>PVCC-8 Credits</td>
<td>NOCTI Serve Safe, WRS</td>
<td>PM only</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>Intro to Culinary Arts</td>
<td>8250</td>
<td>1 year</td>
<td>10-12</td>
<td></td>
<td>Serve Safe</td>
<td>AM only</td>
<td>No</td>
</tr>
<tr>
<td>Cosmetology</td>
<td>Cosmetology I</td>
<td>8527</td>
<td>1 year</td>
<td>10-12</td>
<td></td>
<td>WRS</td>
<td>AM</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>Cosmetology II, III</td>
<td>8528</td>
<td>1 year</td>
<td>11-12</td>
<td></td>
<td>State Cosmetology License, WRS</td>
<td>AM</td>
<td>Yes</td>
</tr>
<tr>
<td>Music Industry</td>
<td>Music Industry</td>
<td>8640</td>
<td>1 year</td>
<td>10-12</td>
<td></td>
<td>WRS</td>
<td>PM only</td>
<td>No</td>
</tr>
</tbody>
</table>
# CATEC Class Descriptions

## Computer Network Hardware I & II (1-year program)

<table>
<thead>
<tr>
<th>Course Title:</th>
<th>Computer Network Hardware I &amp; II (1-year program)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course Description:</td>
<td>Students will learn the basics of computer networking including hardware and software. This program is a certification program for entry-level Network Engineers, Network Specialists, Network Administrators, and Network Support Engineers. First year skills include installation, configuration, operation and troubleshooting of medium-sized routed and switched networks as well as computer and network hardware repair and troubleshooting. Wireless networking is also introduced. It provides a hands-on introduction to networking and the Internet, using tools and hardware commonly found in home and small business environments. It familiarizes students with servers that provide e-mail services, Web space, and authenticated access. Certifications: Cisco CCENT; CompTIA A+</td>
</tr>
<tr>
<td>Credit:</td>
<td>2-3 Elective Credits*</td>
</tr>
<tr>
<td>Levels:</td>
<td>Computer Network Hardware 1-2 . . . . . . . . . . 8542, 8543</td>
</tr>
<tr>
<td>Department:</td>
<td>Career and Technical Education (CTE)</td>
</tr>
<tr>
<td>SubCategory:</td>
<td>CTE Information Technology</td>
</tr>
<tr>
<td>Offered at:</td>
<td>CATEC (available to all students)</td>
</tr>
<tr>
<td>Dual Enrollment:</td>
<td>PVCC : 10 credits</td>
</tr>
<tr>
<td>Grades:</td>
<td>10-12</td>
</tr>
</tbody>
</table>

## Computer Network Hardware III & IV (1-year program)

<table>
<thead>
<tr>
<th>Course Title:</th>
<th>Computer Network Hardware III &amp; IV (1-year program)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course Description:</td>
<td>This course familiarizes students with the equipment applications and protocols installed in enterprise networks, with a focus on switched networks, IP Telephony requirements, and security. It also introduces advanced routing protocols such as Enhanced Interior Gateway Routing Protocol (EIGRP) and Open Shortest Path First (OSPF) Protocol. Hands-on exercises, including configuration, installation, and troubleshooting, reinforce student learning. Students will also design a network. Students follow a standard design process to expand and upgrade each network, which includes requirements gathering, proof-of-concept, and project management. Certifications: Cisco CCNA-RS</td>
</tr>
<tr>
<td>Prerequisite(s):</td>
<td>Computer Network Hardware 1-2 . . . . . . . . . . 8542, 8543</td>
</tr>
<tr>
<td>Credit:</td>
<td>2-3 Elective Credits*</td>
</tr>
<tr>
<td>Levels:</td>
<td>Computer Network Hardware III &amp; IV . . . . . . .8544, 8545</td>
</tr>
<tr>
<td>Department:</td>
<td>Career and Technical Education (CTE)</td>
</tr>
<tr>
<td>SubCategory:</td>
<td>CTE Information Technology</td>
</tr>
<tr>
<td>Offered at:</td>
<td>CATEC (available to all students)</td>
</tr>
<tr>
<td>Dual Enrollment:</td>
<td>PVCC : 6 credits</td>
</tr>
<tr>
<td>Grades:</td>
<td>11-12</td>
</tr>
<tr>
<td>Course Title:</td>
<td>Nurse Assistant (1-year program)</td>
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<tr>
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<td>---------------------------------</td>
</tr>
<tr>
<td>Course Description:</td>
<td>This course emphasizes study of nursing occupations as related to various health care systems. Students study body systems and disorders, basic nursing skills, study of human growth and development, first aid, nutrition, simple body structure, medical terminology, microbes and disease, vital signs, cardiopulmonary resuscitation; and bathing, feeding, dressing, and transporting of patients in hospitals and nursing homes. Clinical experience is provided in nursing homes and hospitals. Community service outreach projects are required and organized by students. This course prepares students to take their state board to be a licensed CNA.</td>
</tr>
<tr>
<td>Prerequisite(s):</td>
<td></td>
</tr>
<tr>
<td>Credit:</td>
<td>3 Elective Credits; 1-2 Verified Credits (certification, completer)</td>
</tr>
</tbody>
</table>
| Levels: | Nurse Assistant I .......................... 8360  
Nurse Assistant II .......................... 8362 |
| Department: | Career and Technical Education (CTE) |
| SubCategory: | CTE Health and Medical Science |
| Offered at: | CATEC (available to all students) |
| Dual Enrollment: | PVCC: 11 credits |
| Grades: | 11-12 |
| Course Title: | Dental Careers (1-year program) |
| Course Description: | This one-year program prepares students to perform all the tasks of a Dental Assistant. These include taking x-rays, preparing materials for procedures, making impressions, removing sutures, placing topical anesthetics, and making diagnostic study models. Dental Assistant students also study maintenance of patient records, disinfection of instruments and equipment, and preparation of patients for dental treatment. This program will give students a foundation to pursue a Dental Hygienist post-secondary degree through a two- or four-year college. |
| Prerequisite(s): |  |
| Corequisite(s): |  |
| Credit: | 3 Elective Credits*; 1-2 Verified Credits (certification, CPR, First Aid) |
| Levels: | Dental Careers I .......................... 8328  
Dental Careers II .......................... 8329 |
<p>| Department: | Career and Technical Education (CTE) |
| SubCategory: | CTE Health and Medical Science |
| Offered at: | CATEC (available to all students) |
| Dual Enrollment: | Dual Enrollment with Reynolds Community College 20 credits. PVCC 2 credits First Aid/CPR |
| Grades: | 10-12 |</p>
<table>
<thead>
<tr>
<th>Course Title:</th>
<th>Pharmacy Technician (1-year program)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course Description:</td>
<td>This one-year program will prepare students to perform all the tasks of a Pharmacy Technician. Students also study safety procedures, medication and inventory control, maintaining records, preparing labels, and processing insurance claims. This program prepares students to successfully complete the Certified Pharmacy Technician (CPhT) examination. Certifications: Virginia Pharmacy Technician, CPR, First Aid</td>
</tr>
<tr>
<td>Prerequisite(s):</td>
<td></td>
</tr>
<tr>
<td>Corequisite(s):</td>
<td></td>
</tr>
<tr>
<td>Credit:</td>
<td>3 Elective Credits*; 1-2 Verified Credits (certification, completer) *2 elective credits if taken in conjunction with a CATEC English class.</td>
</tr>
</tbody>
</table>
| Levels:              | Pharmacy Technician I. ......................... 8305  
                          Pharmacy Technician II. ......................... 8306 |
| Department:          | Career and Technical Education (CTE) |
| SubCategory:         | CTE Health and Medical Science        |
| Offered at:          | CATEC (available to all students)     |
| Dual Enrollment:     | 15 credits with PVCC                  |
| Grades:              | 10-12                                 |

<table>
<thead>
<tr>
<th>Course Title:</th>
<th>Emergency Medical Technician (1-year program)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course Description:</td>
<td>Students will learn the basics of emergency medical care including anatomy and physiology, initial patient survey and triage, airway management, oxygen therapy, and treatment of bleeding, shock, cardiac arrest, fractures, spinal injuries and other medical emergencies. Course requires strenuous physical activity Certifications: Virginia EMT-Basic, CPR, First Aid</td>
</tr>
<tr>
<td>Prerequisite(s):</td>
<td>Must be 16 or older by start of school; Other requirements as set forth by the Virginia Office of Emergency Medical Services</td>
</tr>
<tr>
<td>Corequisite(s):</td>
<td></td>
</tr>
<tr>
<td>Credit:</td>
<td>3 Elective Credits*; 1-2 Verified Credits (certification, completer)</td>
</tr>
</tbody>
</table>
| Levels:               | Emergency Medical Technician I ..................... 8333  
                          Emergency Medical Technician II ..................... 8334 |
<p>| Department:           | Career and Technical Education (CTE)           |
| SubCategory:          | CTE Health and Medical Science                 |
| Offered at:           | CATEC (available to all students)              |
| Dual Enrollment:      | PVCC TBD                                       |
| Grades:               | 11-12  Must be 16 years old on first day of school. |</p>
<table>
<thead>
<tr>
<th>Course Title:</th>
<th>Fire Service Academy (1-year program)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course Description:</td>
<td>First semester instruction includes fire department organization and procedures. Supervised internships are provided with fire and rescue and are managed by the teacher. Second semester focuses on fire-ground management and operations. Course requires strenuous physical activity &amp; occasional exposure to smoke-filled environments. Certifications: Firefighter I, Firefighter II, CPR, First Aid, Hazardous Material Operation, FEMA 100, 200, and 700. Highway safety is covered during incidents for first responders and introduction to technical rescue.</td>
</tr>
<tr>
<td>Prerequisite(s):</td>
<td>Must be 16 or older by start of school; Other requirements as set forth by the Virginia Office of Emergency Medical Services</td>
</tr>
<tr>
<td>Corequisite(s):</td>
<td></td>
</tr>
<tr>
<td>Credit:</td>
<td>2-3 Elective Credits*; 1-2 Verified Credits (certification, completer)</td>
</tr>
<tr>
<td></td>
<td>*2 elective credits if taken in conjunction with a CATEC English class.</td>
</tr>
<tr>
<td>Levels:</td>
<td>Firefighting I. 8705 Firefighting II. 8706</td>
</tr>
<tr>
<td>Department:</td>
<td>Career and Technical Education (CTE)</td>
</tr>
<tr>
<td>SubCategory:</td>
<td>CTE Health and Medical Science</td>
</tr>
<tr>
<td>Offered at:</td>
<td>CATEC (available to all students)</td>
</tr>
<tr>
<td>Dual Enrollment:</td>
<td>6 dual enrollment college credits through Reynolds Community College and 2 dual enrollment college credits through PVCC in CPR and Basic First Aid.</td>
</tr>
<tr>
<td>Grade</td>
<td>11-12 Must be 16 years old on first day of school.</td>
</tr>
</tbody>
</table>
**Course Title:** Automotive Service Technology I & II (2-year program)

**Course Description:** Automotive Service Technology is a two-year program for students who wish to become automotive technicians. The program is dual enrolled with Reynolds Community College and has articulation agreements with several other institutions. The program is industry-certified through NATEF and Automotive Youth Educational System (AYES) program. The program includes the study of engine repair, engine performance, electricity/electronics, automatic transmission, clutch and manual transmission, HVAC (air conditioning), brakes, steering, and suspension. In the classroom students will study automotive theory and put the theory into practical use in the auto lab. Automotive manufacturers and local dealerships sponsor the Automotive Youth Education System (AYES) at CATEC. This program offers employment opportunities with dealerships and independent repair shops for students who qualify and are selected during the spring semester of the first year. The program prepares graduates to pursue the Virginia State Inspector’s License.

Articulation Agreements: Universal Technical Institute (UTI), Lincoln Technical Institute/ Nashville Auto Diesel College, and University of Northern Ohio

Certifications: ASE

| Credit: | I: 2-3 Elective Credits*; II: 2-3 Elective Credits*; 1-2 Verified Credits (certification, completer) *2 elective credits if taken in conjunction with a CATEC English class. |
| Levels: | Automotive Service Technology I ........................................... 8506 
Automotive Service Technology II ........................................... 8507 |
<p>| Department: | Career and Technical Education (CTE) |
| SubCategory: | CTE Trade and Industrial Education |
| Offered at: | CATEC (available to all students) |
| Dual Enrollment: | Reynolds Community College: 10 DE credits year 1, 10 DE credits year 2 |
| Grades: | 10-12 |</p>
<table>
<thead>
<tr>
<th>Course Title:</th>
<th>Auto Body Technology I, II, &amp; III (2-year program)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course Description:</td>
<td>Students in this program are prepared for careers in this field through the use of the latest technologies and state of the art equipment. Throughout the program students gain knowledge of classroom and shop experience by working on vehicles. Selected students may be eligible for work experiences at local repair facilities. Successful completion of the two-year Auto Body program can reduce the two years of experience required for Automotive Service Excellence (ASE) certification by one year. This course is not recommended for individuals with respiratory or allergy problems. Certifications: Auto Body Assessment (NOCTI), ASE</td>
</tr>
<tr>
<td>Prerequisite(s):</td>
<td></td>
</tr>
<tr>
<td>Corequisite(s):</td>
<td></td>
</tr>
<tr>
<td>Credit:</td>
<td>I&amp;II: 2-3 Elective Credits*; III: 2-3 Elective Credits*; 1-2 Verified Credits (certification, completer) *2 elective credits if taken in conjunction with a CATEC English class.</td>
</tr>
</tbody>
</table>
| Levels: | Auto Body Technology I&II .................................. 8676, 8677  
Auto Body Technology III .................................. 8678 |
| Department: | Career and Technical Education (CTE) |
| SubCategory: | CTE Trade and Industrial Education |
| Offered at: | CATEC (available to all students) |
| Dual Enrollment: | |
| Grades: | 10-12 |

<table>
<thead>
<tr>
<th>Course Title:</th>
<th>CATEC Exploratory</th>
</tr>
</thead>
</table>
| Course Description: | Students will have the opportunity to experience a variety of CATEC classes. An individualized program is developed for each student and students spend 9 weeks in each of four program areas.  
9th grade **p.m. only**  
10th grade **a.m. only** |
| Prerequisite(s): | |
| Corequisite(s): | |
| Credit: | 3 Elective Credits |
| Levels: | Career Exploratory ........................................... 9070 (9th)  
Career Exploratory ........................................... 9071 (10th) |
<p>| Department: | Career and Technical Education (CTE) |
| SubCategory: | CTE Trade and Industrial Education |
| Offered at: | CATEC (available to all students) |
| Dual Enrollment: | |
| Grades: | 9-10 |</p>
<table>
<thead>
<tr>
<th>Course Title</th>
<th>Building Trades I &amp; II (1-year program)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Course Description:</strong></td>
<td>This course will teach all the basic skills of the following trade areas: carpentry, residential wiring, residential plumbing, and masonry. Blueprint reading and drawing are introduced at the beginning of the course. The latter part of the course focuses on carpentry from framing to the finishing trim and roofing. Plumbing is introduced as it relates to the other trades during the year. Residential wiring emphasizes the basics of wiring a house and the National Electrical Code. All aspects of residential construction from project planning, purchasing material to code compliance are taught. Emphasis will be placed on proper employability skills and attitude throughout both years of the course.</td>
</tr>
<tr>
<td>Prerequisite(s):</td>
<td></td>
</tr>
<tr>
<td>Corequisite(s):</td>
<td></td>
</tr>
<tr>
<td>Credit:</td>
<td>I&amp;II: 2-3 Elective Credits*; 1-2 Verified Credits (certification, completer)</td>
</tr>
<tr>
<td></td>
<td>*2 elective credits if taken in conjunction with a CATEC English class.</td>
</tr>
<tr>
<td>Levels:</td>
<td>Building Trades I .......................... 8515</td>
</tr>
<tr>
<td></td>
<td>Building Trades II .......................... 8516</td>
</tr>
<tr>
<td>Department:</td>
<td>Career and Technical Education (CTE)</td>
</tr>
<tr>
<td>SubCategory:</td>
<td>CTE Trade and Industrial Education</td>
</tr>
<tr>
<td>Offered at:</td>
<td>CATEC (available to all students)</td>
</tr>
<tr>
<td>Dual Enrollment:</td>
<td>12 dual enrollment college credits at PVCC</td>
</tr>
<tr>
<td>Grades:</td>
<td>10-12</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Electrical I &amp; II (1-year program)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Course Description:</strong></td>
<td>Students develop skills in the installation, operation, maintenance, and repair of residential, commercial, and industrial electrical systems. They also study electrical theory and mathematical problems related to electricity, navigate the National Electrical Code Book, select and install conductors, examine lighting, communication, and power systems, and work with conduit and raceways, panel boards, switchboards, grounding systems, and generators. Students who complete this program may qualify to receive credit for one year of Apprenticeship with the Department of Labor.</td>
</tr>
<tr>
<td>Prerequisite(s):</td>
<td></td>
</tr>
<tr>
<td>Corequisite(s):</td>
<td></td>
</tr>
<tr>
<td>Credit:</td>
<td>I&amp;II: 2-3 Elective Credits*; 1-2 Verified Credits (certification, completer)</td>
</tr>
<tr>
<td></td>
<td>*2 elective credits if taken in conjunction with a CATEC English class.</td>
</tr>
<tr>
<td>Levels:</td>
<td>Electrical I .......................... 8533</td>
</tr>
<tr>
<td></td>
<td>Electrical II .......................... 8534</td>
</tr>
<tr>
<td>Department:</td>
<td>Career and Technical Education (CTE)</td>
</tr>
<tr>
<td>SubCategory:</td>
<td>CTE Trade and Industrial Education</td>
</tr>
<tr>
<td>Offered at:</td>
<td>CATEC (available to all students)</td>
</tr>
<tr>
<td>Dual Enrollment:</td>
<td></td>
</tr>
<tr>
<td>Grades:</td>
<td>10-12</td>
</tr>
<tr>
<td>Course Title:</td>
<td>Professional Culinary Arts I &amp; II (2-year program)</td>
</tr>
<tr>
<td>--------------</td>
<td>--------------------------------------------------</td>
</tr>
<tr>
<td>Course Description:</td>
<td>Culinary Arts prepares students to enter employment in food service occupations or to pursue additional education in culinary school. Instruction focuses on sanitation, nutrition, food preparation, catering, purchasing, and inventory control in addition to food presentation and service. Our learning emphasis is academic, hands-on, and includes community-based service learning. Certifications: Commercial Foods Assessment (NOCTI); Serve Safe Certification Articulated credit available for Culinary Institute of Virginia</td>
</tr>
<tr>
<td>Prerequisite(s):</td>
<td></td>
</tr>
<tr>
<td>Corequisite(s):</td>
<td></td>
</tr>
<tr>
<td>Credit:</td>
<td>2-3 Elective Credits*; 1-2 Verified Credits (certification, completer) *2 elective credits taken in conjunction with a CATEC English class.</td>
</tr>
<tr>
<td>Levels:</td>
<td>Professional Culinary Arts I ............................. 8521 Professional Culinary Arts II ............................. 8522</td>
</tr>
<tr>
<td>Department:</td>
<td>Career and Technical Education (CTE)</td>
</tr>
<tr>
<td>SubCategory:</td>
<td>CTE Family and Consumer Science</td>
</tr>
<tr>
<td>Offered at:</td>
<td>CATEC (available to all students)</td>
</tr>
<tr>
<td>Dual Enrollment:</td>
<td>11 dual enrollment college credits with PVCC for Culinary I and 98 dual enrollment college credits with PVCC for Culinary II.</td>
</tr>
<tr>
<td>Grades</td>
<td>10-12</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course Title:</th>
<th>Introduction to Culinary Arts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course Description:</td>
<td>This class is designed to introduce students to career options in the food service industry as well as to provide instruction in culinary techniques. This entry-level course provides an overview of the culinary industry and career options through work-study placement. Class time is used for teaching new concepts, reinforcing important skills, and assisting Culinary Arts II students with catering activities. Students who are successful in this class may have the option to take Culinary Arts I the following year. <strong>Note:</strong> Students must provide their own transportation to and from their work study site, if applicable.</td>
</tr>
<tr>
<td>Prerequisite(s):</td>
<td></td>
</tr>
<tr>
<td>Corequisite(s):</td>
<td></td>
</tr>
<tr>
<td>Credit:</td>
<td>3</td>
</tr>
<tr>
<td>Levels:</td>
<td>Introduction to Culinary Arts. ............................. 8250</td>
</tr>
<tr>
<td>Department:</td>
<td>Career and Technical Education (CTE)</td>
</tr>
<tr>
<td>SubCategory:</td>
<td>CTE Family and Consumer Science</td>
</tr>
<tr>
<td>Offered at:</td>
<td>CATEC (available to all students)</td>
</tr>
<tr>
<td>Dual Enrollment:</td>
<td></td>
</tr>
<tr>
<td>Grades</td>
<td>10-12 (SPED)</td>
</tr>
<tr>
<td>Course Title:</td>
<td>Cosmetology I, II, III (2-year program)</td>
</tr>
<tr>
<td>-------------</td>
<td>----------------------------------------</td>
</tr>
<tr>
<td><strong>Course Description:</strong></td>
<td>Students in this program are eligible to take their State Board examination after successfully completing the two-year course. Students will gain theory and practical knowledge through instruction and lab participation. First-year students will participate in a job shadowing program and second-year students during their second semester will participate in an internship two days a week. Certifications: State Board of Cosmetology License</td>
</tr>
<tr>
<td><strong>Prerequisite(s):</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Corequisite(s):</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Credit:</strong></td>
<td>Cosmetology I: 2-3 Elective Credits*; Cosmetology II&amp;III: 2-3 Elective Credits*; 1-2 Verified Credits (certification, completer) *2 elective credits if taken in conjunction with a CATEC English class.</td>
</tr>
</tbody>
</table>
| **Levels:** | Cosmetology I ................. 8527  
Cosmetology II ................. 8528 |
| **Department:** | Career and Technical Education (CTE) |
| **SubCategory:** | CTE Family and Consumer Science |
| **Offered at:** | CATEC (available to all students) |
| **Dual Enrollment:** |  |
| **Grades** | Cosmetology I (10th or 11th), Cosmetology II (11th or 12th) |

<table>
<thead>
<tr>
<th>Course Title:</th>
<th>Music Industry Technology (1-year program)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Course Description:</strong></td>
<td>Working in conjunction with the Music Resource Center, this course is a survey of multiple aspects of the music industry and music technology. Students will be exposed to and have the opportunity to learn critical thinking skills as it pertains to consuming and creating music. In addition, students will get foundational vocational training in a number of music industry fields including but not limited to Digital Music Production, Audio Engineering, Audio Mixing Technology, Songwriting and Composition, Music Journalism and Live Sound Engineering.</td>
</tr>
<tr>
<td><strong>Prerequisite(s):</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Corequisite(s):</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Credit:</strong></td>
<td>2</td>
</tr>
<tr>
<td><strong>Levels:</strong></td>
<td>....................... 8640</td>
</tr>
<tr>
<td><strong>Department:</strong></td>
<td>Career and Technical Education (CTE)</td>
</tr>
<tr>
<td><strong>SubCategory:</strong></td>
<td>CTE Business and Information Technology</td>
</tr>
<tr>
<td><strong>Offered at:</strong></td>
<td>Music Resource Center (available to all students)</td>
</tr>
<tr>
<td><strong>Dual Enrollment:</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Grades</strong></td>
<td>10-12</td>
</tr>
</tbody>
</table>