

### Career/Program Description

This open-enrollment program is designed to prepare students for careers in the automotive industry as service technicians in the field of brakes and steering, and suspension.

### Career/Program Information

The program provides quality state-of-the-art training on modern automotive systems incorporating increasingly sophisticated computer-controlled and electronic systems.

### Special Program Requirement

At the end of the program, a 300-hour practicum or work experience is required, where students work in automotive service facilities where they can put theory into practice in actual work situations.

### Career Opportunities

Students completing this program experience a very high job placement rate.

### Contact Person

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# Automotive Brakes, Steering & Suspension Specialist

Degree: **Certificate Program**

College Code: **ABS.CT**

Code	Course	Credits
AUT-101	Automotive Fundamentals	3
AUT-141	Automotive Electrical/Electronics Principles	4
AUT-111	Automotive Brake Systems	3
AUT-121	Automotive Steering and Suspension Systems	4
AUT-283	Automotive Practicum III (300 hours)	3
		<b>17</b>

### Highlights

The automotive instructors have won many awards and are recognized nationally for their teaching and automotive expertise.

# Automotive Electrical, Heating & Air Conditioning System Specialist

## Career/Program Description

This open-enrollment program is designed to prepare students for careers in the automotive industry as service technicians in the field of electrical heating and air conditioning systems.

## Career/Program Information

The program provides quality state-of-the-art training on modern automotive systems incorporating increasingly sophisticated computer-controlled and electronic systems.

## Special Program Requirement

At the end of the program, a 300-hour practicum or work experience is required, where students work in automotive service facilities where they can put theory into practice in actual work situations.

## Career Opportunities

Students completing this program experience a very high job placement rate.

## Contact Person

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Degree: **Certificate Program**

College Code: **AEH.CT**

Code	Course	Credits
AUT-101	Automotive Fundamentals	3
AUT-141	Automotive Electrical/Electronic Principles	4
AUT-242	Automotive Electrical/Electronic Systems	4
AUT-131	Automotive Heating and Air Conditioning	3
AUT-283	Automotive Practicum III (300 hours)	3
		<b>17</b>

## Highlights

The automotive instructors have won many awards and are recognized nationally for their teaching and automotive expertise.

# Automotive Engine Performance & Driveability Specialist

## Career/Program Description

This open enrollment program is designed to prepare students for careers in the automotive industry as service technicians in the field of engine performance and driveability.

## Career/Program Information

The program provides quality state-of-the-art training on modern automotive systems incorporating increasingly sophisticated computer-controlled and electronic systems.

## Special Program Requirement

At the end of the program, a 300-hour practicum or work experience is required, where students work in automotive service facilities where they can put theory into practice in actual work situations.

## Career Opportunities

Students completing this program experience a very high job placement rate.

## Contact Person

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Internet Address: [www.camdencc.edu/departments/auto-tech](http://www.camdencc.edu/departments/auto-tech)

Degree: **Certificate Program**

College Code: **AEP.CT**

Code	Course	Credits
AUT-101	Automotive Fundamentals	3
AUT-141	Automotive Electrical/Electronic Principles	4
AUT-242	Automotive Electrical/Electronic Systems	4
AUT-151	Automotive Engine Fundamentals	3
AUT-252	Advanced Automotive Engines	3
AUT-271	Advanced Automotive Systems I	4
AUT-272	Advanced Automotive Systems II	4
AUT-283	Automotive Practicum III (300 hours)	3
		<b>28</b>

## Highlights

The automotive instructors have won many awards and are recognized nationally for their teaching and automotive expertise.

# Automotive General Technician

Degree: **Certificate Program**  
College Code: **GAT.CT**

## Career/Program Description

This open enrollment program is designed to prepare students for careers in the automotive industry as general automotive service technicians.

## Career/Program Information

The program provides quality state-of-the-art training on modern automotive systems incorporating increasingly sophisticated computer-controlled and electronic systems.

## Special Program Requirement

At the end of the program, a 300-hour practicum or work experience is required, where students work in automotive service facilities where they can put theory into practice in actual work situations.

## Career Opportunities

Students completing this program have experienced a very high job placement rate.

## Contact Person

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Code	Course	Credits
AUT-101	Automotive Fundamentals	3
AUT-111	Automotive Brake Systems	3
AUT-121	Automotive Steering and Suspension Systems	4
AUT-131	Automotive Heating and Air Conditioning	3
AUT-141	Automotive Electrical/Electronic Principles	4
AUT-242	Automotive Electrical/Electronic Systems	4
AUT-151	Automotive Engine Fundamentals	3
AUT-252	Advanced Automotive Engines	3
AUT-261	Manual Drive Trains and Axles	4
AUT-262	Automatic Transmissions and Transaxles	4
AUT-271	Advanced Automotive Systems I	4
AUT-272	Advanced Automotive Systems II	4
AUT-283	Automotive Practicum III (300 hours)	3
		<b>46</b>

## Highlights

The automotive instructors have won many awards and are recognized nationally for their teaching and automotive expertise.

### Career/Program Description

This open enrollment program is designed to prepare students for careers in the automotive industry as service technicians in the field of automatic transmission/transaxle and manual power train systems.

### Career/Program Information

The program provides quality state-of-the-art training on modern automotive systems incorporating increasingly sophisticated computer-controlled and electronic systems.

### Special Program Requirement

At the end of the program, a 300-hour practicum or work experience is required, where students work in automotive service facilities where they can put theory into practice in actual work situations.

### Career Opportunities

Students completing this program have experienced a very high job placement rate.

### Contact Person

Tony Marchetti, Acting Director  
(856) 227-7200, Ext. 4317 or Ext. 4382  
E-mail: [tmarchetti@camdenc.edu](mailto:tmarchetti@camdenc.edu)  
Internet Address: [www.camdenc.edu/departments/auto-tech](http://www.camdenc.edu/departments/auto-tech)

# Automotive Transmission/ Transaxle & Power Train Systems Specialist

Degree: **Certificate Program**

College Code: **ATT.CT**

<b>Code</b>	<b>Course</b>	<b>Credits</b>
AUT-101	Automotive Fundamentals	3
AUT-141	Automotive Electrical/Electronic Principles	4
AUT-151	Automotive Engine Fundamentals	3
AUT-261	Manual Drive Trains and Axles	4
AUT-262	Automatic Transmission and Transaxles	4
AUT-283	Automotive Practicum III (300 hours)	3
		<b>21</b>

### Highlights

The automotive instructors have won many awards and are recognized nationally for their teaching and automotive expertise.

### Career/Program Description

CADD students not only use the computer as a tool for learning drafting and design techniques but also study such advanced topics as program customization, application development, and microcomputer systems management.

### Career/Program Information

The program prepares students for careers as draftspersons and designers who will use state-of-the-art computer graphics technology.

### Career Opportunities

- CADD operator
- CADD technician
- Computer draftsperson
- Electronics design technician
- Engineering specifications technician

### Contact Person

Professor Edward Pascht, Coordinator  
(856) 227-7200, Ext. 4233  
E-mail: epascht@camdencc.edu

# CADD: Computer Aided Drafting & Design

Degree: **Certificate Program**

College Code: **CAD.CT**

<b>Code</b>	<b>Course</b>	<b>Credits</b>
CAD-106	Engineering Graphics	4
CST-101	Microcomputer Operating Systems	3
CAD-101	Computer Aided Engineering Graphics	4
CST-102	Introduction to Networking	3
CAD-102	Advanced Computer Aided Engineering Graphics	3
CST-201	Advanced Networking	3
CAD-201	CADD APP: MicroStation	3
CAD-202	Advanced CADD Project <b>or</b>	
CST-202	Computer Laboratory Internship <b>or</b>	
EGR-208	Coop I: Engineering	3
CST-108	Advanced Operating Systems: Windows NT	3
		<b>29</b>

### Highlight

This program prepares students for a variety of high-paying careers

# Computer Applications Programming

Degree: **Certificate Program**

College Code: **CAP.CT**

## Career/Program Description

This certificate program teaches students to develop software solutions to meet program specifications in business and/or science-related industries. Applications programmers are involved in many phases of the software life cycle, including analysis and design, coding, testing/debugging, and integration and maintenance of large software systems. Today most business, engineering, or science software applications retrieve data from a database. Applications programmers often provide programming solutions which require significant understanding of relational databases and structured query language (SQL).

## Career/Program Information

The program:

- Emphasizes skills in information systems, computer programming, Relational Database theory & SQL
- Advances knowledge in general education and business
- Develops the software engineering skills necessary to gain entry into this rapidly evolving field.

## Career Opportunities

- Computer marketing representative
- Computer programmer
- Lab assistant
- Quality control specialist
- Research analyst
- Software tester

## Contact Persons

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Professor William Taylor, Ext. 4425

E-mail: wtaylor@camdencc.edu

Professor Anita Wright, Ext. 4760

E-mail: awright@camdencc.edu

Dr. Richard Carney, Ext. 4649

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Code	Course	Credits
<b>First Year/First Semester</b>		
CSC-213	Visual Basic I <b>or</b>	
CSC-122	Computer Science I <b>or</b>	
CSC-161	Introduction to Java	3/4
CIS-241	Relational Database Management Systems I	3
CIS-110	Info Systems: Principles & Applications	4
MGT-101	Introduction to Business <b>or</b>	
ACC-101	Accounting I	3
MTH.....	Mathematics Elective	3/4
		<b>16/17/18</b>
<b>Second Semester</b>		
CSC-214	Visual Basic II <b>or</b>	
CSC-223	Computer Science II <b>or</b>	
CSC-262	Advanced Java	3/4
CIS-242	Relational Database Management Systems II	3
CIS-231	Systems Analysis & Design <b>or</b>	
CSC-231	Object Oriented Analysis & Design	3
CST-108	Advanced Operating Systems: Windows NT	3
.....	Elective	3
.....	Communications Elective <sup>1</sup>	3
		<b>18/19</b>

<sup>1</sup>Choose one from the following Communications electives. Prerequisites must be met.

- ENG-101 English Composition I
- ENG-102 English Composition II
- ENG-241 Technical Writing
- SPE-102 Public Speaking
- SPE-211 Interpersonal Communication
- SPE-212 Group Communication

## Career/Program Description

This one-year program provides specialized work in computer graphics. It is a career-oriented program that can transfer into the AAS degree program.

## Career/Program Information

The program:

- Prepares students for intermediate-level employment in computer graphics employment
- Provides information about techniques of computerized design

## Career Opportunities

- Computer graphics
- Electronic publishing
- Multimedia

## Contact Person

Professor Phyllis Owens, Coordinator  
(856) 227-7200, Ext. 4682

E-mail: powens@camdencc.edu

Professor Elaine Reeder, Ext. 4556

E-mail: ereeder@camdencc.edu

# Computer Graphics

Degree: **Certificate Program**

College Code: **CGR.CT**

Code	Course	Credits
<b>First Year/First Semester</b>		
MGT-221	Small Business Management I	3
CGR-101	Electronic Layout & Design	3
CGR-111	Computer Graphic Design I	3
CGR-251	Presentation Graphics	3
.....	General Education Elective	3
.....	Communications Elective	3
		<b>18</b>
<b>Second Semester</b>		
CGR-102	Electronic Publishing & Prepress	3
CGR-112	Computer Graphic Design II	3
CGR-231	Video Imaging Technology I	3
CGR-252	Portfolio Design	3
ART-298	Coop I: Fine/Applied Arts <b>or</b>	
.....	Studio Elective <sup>1</sup>	3
.....	General Education Elective	3
		<b>18</b>

<sup>1</sup>Recommended Studio Electives:

CGR-121	Multimedia Technology I
CGR-232	Video Imaging Technology II
CGR-241	Computer Animation I
ART-160	Design I: Two Dimensional
ART-162	Advertising Layout I
ART-121	Basic Drawing I
PHO-101	Photography I

## Highlights

There are cooperative education opportunities available with local employers.

# Computer Integrated Manufacturing

## Career/Program Description

CIMNET technicians control, design, maintain, upgrade, and operate modern, computer-controlled production equipment and facilities equipment used to manufacture many of the world's goods. The CIMNET program equips its graduates with an in-depth multi-disciplinary education in mathematics, physics, engineering technology, both manual and CNC machining, manufacturing processes and methods, industrial electronics, PLC programming, and factory automation, as well as a broad education in computer studies, business, and liberal arts.

Our highly skilled graduates go on to provide hands-on engineering and managerial service in state-of-the-art high volume and/or high-precision manufacturing enterprises located in southern New Jersey, the Delaware Valley and beyond. Our chemical, automotive, packaging, metalworking, aluminum extrusion, mechanical aerospace componentry, bottling, and even private consulting companies. Our graduates specialize in either Programmable Logic Controller (PLC) or Computer Numerical Controller (CNC) programming.

## Career/Program Information

The program serves two types of students:

- Students who have no experience in manufacturing but are seeking training for entry level positions
- Students who are already employed but are seeking to upgrade their skills for advancement purposes

## Accreditation

Currently pursuing National Institute for Manufacturing Skills (NIMS) certification

## Career Opportunities

- CNC programmer
- Factory automation specialist
- Manufacturing engineering technician
- PLC programmer
- Robot technician
- Technical salesperson

## Contact Person

Professor Melvin Roberts, Coordinator  
(856) 227-7200, Ext. 4526  
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Kevin Schmidt, Ext. 4517  
E-mail: kschmidt@camdencc.edu

Degree: **Certificate Program**

College Code: **CIM.CT**

Code	Course	Credits
CIM-101	Introduction to Manufacturing	3
CAD-101	Computer Aided Engineering Graphics	4
EET-101	Electrical/Electronic Principles	4
EET-241	Robotics	3
CIM-211	PLC Programming	3
MET-221	Quality Control	2
CIM-221	CNC Programming and CAM	3
CIM-251	CIM Integration/Project	3
.....	Communications Elective	3
MTH.....	Mathematics Elective	3/4
		<b>31/32</b>

## Career Opportunities

CIM technicians are in demand at all high-volume manufacturing enterprises.

## Career/Program Description

This program develops software solutions to meet program specifications in business and science-related industries. Programmers are involved in many phases of the software life cycle, including analysis and design, coding, testing/debugging, and integration and maintenance of large software systems. There are two broad categories of programmers: application programmers, who develop software to provide programming solutions for specific tasks in business, engineering, and science; and systems programmers, who develop the software systems that integrate and control software applications.

## Career/Program Information

The program: emphasizes skills in information systems and in business administration; enables students to acquire the necessary software development skills to gain entry into this rapidly evolving field; and enables students to advance their knowledge in general education and business administration.

## Career Opportunities

- Computer marketing representative
- Computer operator
- Lab assistant
- Quality control specialist
- Research analyst
- Software tester

## Contact Person

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# Computer Programming

Degree: **Certificate Program**

College Code: **CPG.CT**

<b>Code</b>	<b>Course</b>	<b>Credits</b>
<b>First Year/First Semester</b>		
CSC-112	Intermediate QBASIC/Intro Visual BASIC <sup>1</sup> or	
CSC-122	Computer Science I or	
CSC-161	Introduction to Java <sup>1</sup>	3/4
ACC-101	Accounting I	3
MGT-101	Introduction to Business	3
CSC-101	Computer Literacy	3
MTH.....	Mathematics Elective	3/4
		<b>15/16/17</b>
<b>Second Semester</b>		
CSC-213	Visual Basic I <sup>1</sup> or	
CSC-223	Computer Science II or	
CSC-262	Advanced Java <sup>1</sup>	3/4
ACC-102	Accounting II	3
CIS-231	System Analysis & Design	3
CIS-206	Advanced Computer Concepts and Applications	3
.....	General Education Elective	3
.....	Communications Elective	3
		<b>18/19</b>

<sup>1</sup> Prerequisites listed with the course descriptions must be met for all programming languages.

### Career/Program Description

The program integrates programming and software creation with the design, repair, maintenance, and implementation of computer hardware.

### Career/Program Information

This program imparts knowledge and skills of both the hardware and software aspects of the computer industry.

### Career Opportunities

- Computer service engineering technician
- Computer systems technician
- Lead computer operator
- Network manager
- Systems programmer
- Technical control specialist

### Contact Person

Professor Domenic Priolo, Coordinator  
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# Computer Systems Technology

Degree: **Certificate Program**

College Code: **CST.CT**

<b>Code</b>	<b>Course</b>	<b>Credits</b>
CST-101	Microcomputer Operating Systems	3
EET-101	Electrical and Electronic Principles	4
CST-102	Introduction to Networking	3
CST-108	Advanced Operating Systems: Windows NT	3
CST-201	Advanced Networking	3
CIS-181	UNIX Introduction and Usage	3
EET-221	Digital Circuits	3
CIS-282	UNIX OSD: Disk Subsystem <b>or</b>	
EGR-208	Coop I: Engineering I	3
CIS-283	UNIX OSD: Memory & Processes <b>or</b>	
EGR-209	Coop II: Engineering II	3
CST-202	Computer Laboratory Internship	3
		<b>31</b>

### Career/Program Description

This program is designed for students who want to enter the job market quickly with skills in both accounting and computer technology. Students will learn basic accounting skills and will apply these skills using a general ledger software package.

### Career/Program Information

The program provides training in up-to-date computer and accounting technology. Students will have experience with the following software packages:

- QuickBooks
- Peachtree Accounting
- Excel
- Access
- Turbo-Tax

### Career Opportunities

Students completing this program will be able to work as:

- Junior Accountant specializing in Accounts Receivable
- Accounts Payable
- Inventory Control

#### Contact Person

Professor Anthony Fortini, CPA  
(856) 227-7200, Ext. 4574  
afortini@camdenc.edu

# Computerized Accounting Specialist

Degree: **Certificate Program**

College Code: **ACC.CT**

<b>Code</b>	<b>Course (lecture/lab)</b>	<b>Credits</b>
<b>First Semester</b>		
ACC-101	Accounting I	3
CSC-101	Computer Literacy	3
		<b>6</b>
<b>Second Semester</b>		
ACC-213	Computerized Accounting	3
CIS-102	Spreadsheets	3
		<b>6</b>
<b>Third Semester</b>		
CIS-103	Database Management	3
CIS-191	Internet Tools and Technique	3
ACC-223	Income Tax Accounting I	3
		<b>9</b>

## Career/Program Description

This certificate program is designed to provide students with a foundation of skills and knowledge in painting techniques used to ornament furniture, walls, ceilings, floors and decorative objects.

## Career/Program Information

Certificate students explore issues in:

- Drawing, painting, design, color and application techniques.
- Business management
- Mural painting (Trompe L'oeil effects, architectural elements and large-scale interiors)

## Other Information:

- Some of the courses are offered in a weekend format and still others can be taken in the evening
- Students will participate in Intern, Coop and Service Learning experiences
- Portfolio and presentation preparation are introduced
- Well-equipped studio space and studio hours are available
- Visiting artists and lecturers share their experiences with students
- Students may complete this certificate and transfer into a degree program

## Career Opportunities

Students who complete the program are equipped with professional, marketable skills demonstrated through their portfolio of samples and photographs of completed projects.

- Decorative Painting
- Interior Designer
- Set Designer
- Faux Painter

## Contact Person

Kay A. Klotzbach  
(856) 227-7200, Ext. 4342  
E-mail: [kklotzbach@camdencc.edu](mailto:kklotzbach@camdencc.edu)

# Decorative Painting

Degree: **Certificate Program**

College Code: **PND.CT**

Code	Course (lecture/lab)	Credits
<b>First Semester</b>		
ART 121	Basic Drawing I	3
ART-131	Painting I	3
ART 137	Faux Finish I	3
ART 165	Color: Theory & Practice	3
		<b>12</b>
<b>Second Semester</b>		
ART-134	Life Drawing I	3
ART-138	Faux Finish II	3
ART-160	Design I	3
ART-298	Coop I: Fine/Applied Arts	3
		<b>12</b>
<b>Third Semester</b>		
ART-122	Basic Drawing II	3
ART-132	Painting II	3
ART-139	Mural Painting	3
MGT-221	Small Business Management I	3
		<b>12</b>

# Dental Assisting

Degree: **Certificate Program**

College Code: **DAS.CT**

## Career/Program Description

A dental assistant works at chairside while the dentist examines and treats patients. The dental assistant makes the patient comfortable in the chair, prepares the patient for treatment, obtains dental records, prepares impression and restorative materials, exposes and processes dental radiographs, and hands the dentist the proper instruments and materials. The assistant also sterilizes and disinfects instruments, prepares dental tray setups, and instructs the patient in postoperative and general oral health care.

## Career/Program Information

The Dental Assisting Certificate Program:

- Provides the student with the specific skills that qualify graduates for a career in dental assisting
- Prepares the student to take the state radiology examination
- Allows the student to qualify for national certification and state registration without a two-year work experience requirement
- Enables the student to earn an Associate in Applied Science degree

## Special Program Requirements

- Proof of graduation from an approved secondary school or equivalent
- Interview with the program coordinator
- Physical exam, various immunizations and proof of health insurance will be required prior to the beginning of class
- Admission on a first qualified, first admitted basis

## Accreditation

The program in Dental Assisting is accredited by the Commission on Dental Accreditation, a specialized accrediting body recognized by the Commission on Recognition of Postsecondary Accreditation and by the United States Department of Education. The Commission on Dental Accreditation can be contacted at (312) 440-2719 or at 211 East Chicago Avenue, Chicago, IL 60611.

## Career Opportunities

- Chairside assistant or office manager in general and specialty practices
- Chairside assistant or office manager in hospital and institutional settings
- Dental assisting education
- Positions dealing with dental insurance, dental laboratories, dental suppliers, dental placement agency

## Contact

Sandy Rodier, Coordinator  
(856) 227-7200, Ext. 4471  
E-mail: srodier@camdenc.edu

Code	Course	Credits
<b>First Year/Summer Semester</b>		
PSY-101	Basic Psychology	3
.....	Communications Elective	3
<b>Fall Semester</b>		
DAS-110	Dental Assisting I (Chairside Assisting)	6
DAS-120	Dental Assisting II (Dental Radiology)	4
DAS-130	Dental Assisting III (Dental Anatomy)	2
DAS-140	Dental Assisting IV (Biological Science)	3
DAS-151	Dental Assisting V (Dental Laboratory Procedures)	2
DAS-170	Dental Assisting VII (Med Emg in the Dental Office)	1
<b>Spring Semester</b>		
DAS-160	Dental Assisting VI (Supervised Clinical Experience)	6
DAS-180	Dental Assisting VIII (Office Administration)	2
DAS-190	Dental Assisting IX (Oral Pathology)	1
DAS-152	Dental Assisting X (Dental Laboratory Procedures II)	2
DAS-115	Dental Assisting XI (Pharmacology)	1
DAS-125	Dental Assisting XV Preventive Dentistry	3
		<b>18</b>

## Highlights

Students who have completed the dental assisting certificate program are eligible to continue their studies at the College and earn an Associate in Applied Science degree. The student earns 33 credits for the dental assisting courses, and with an additional 32 credits in general education, the student is eligible for the Associate in Applied Science degree.

# Engineering Technology: Electrical-Electronic Engineering

Degree: **Certificate Program**  
College Code: **EET.CT**

## Career/Program Description

This certificate program is designed for people interested in gaining knowledge of electrical-electronic systems, test equipment, and industrial practices. Courses use lectures and laboratory experiments to deliver topics relevant to today's electronic world. The certificate program focuses on the discipline-specific courses in electrical/electronic engineering technology.

The program uses current state-of-the-art electronic industrial test equipment and procedures.

## Career/Program Information

The program: provides training applicable to current industrial and commercial electrical/electronic systems and practices; and encourages cooperative business between students and local employers.

## Special Program Requirement

Students should have an adequate background in algebra.

## Career Opportunities

- Engineer's assistant
- Field service engineer
- Lab technician
- Quality control specialist
- Production technician
- Technical salesperson

## Contact Person

Professor Larry Chatman, Coordinator  
(856) 227-7200, Ext. 4523  
E-mail: lchatman@camdencc.edu

Code	Course	Credits
<b>First Semester</b>		
EET-101	Electrical & Electronic Principles	3
EET-211	Electronics I	4
CAD-101	Computer Aided Engineering Graphics	4
MTH-125	College Algebra & Trigonometry	4
.....	Communications Elective	3
		<b>18</b>
<b>Second Semester</b>		
EET-212	Electronics II	3
CSC-111	Intro to Computer Programming/QBASIC	3
EET-213	Electronic Communications	3
EET-221	Digital Circuits	3
EET-251	Electronic Projects <b>or</b>	3
EGR-208	Coop I: Engineering	3
		<b>15</b>

## Recommendations

Taking 15 to 18 hours a semester, full-time students can complete the certificate program within a year.

### Career/Program Description

This certificate program is designed to provide students with a foundation of painting techniques used to ornament furniture, walls, ceilings, floors and decorative objects.

### Career/Program Information

Students who complete the program are equipped with professional, marketable skills for entry-level work in the faux finish trade and will have produced numerous sample boards for their portfolio.

### Career Opportunities

- Faux Painter
- Decorative Painter
- Furnisher Refinisher
- Interior Decorator

### Contact Person

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(856) 227-7200, Ext. 4342  
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# Faux Painting

Degree: **Certificate Program**

College Code: **PNF.CT**

<b>Code</b>	<b>Course (lecture/lab)</b>	<b>Credits</b>
<b>First Semester</b>		
ART-137	Faux Finish I	3
ART-165	Color: Theory & Practice	3
MGT-221	Small Business Management I	3
		<b>9</b>
<b>Second Semester</b>		
ART-138	Faux Finish II	3
ART-298	Coop I: Fine/Applied Arts	3
		<b>6</b>

### Career/Program Description

This program will provide the firefighter and fire officer with the latest technology, new and current fire codes, and management theories as it applies to the fire ground.

### Career/Program Information

This program:

- Prepares the student for entry-level employment in the fire service
- Prepares the student for advancement as a company fire officer
- Prepares the student to perform his or her tasks on the fire scene in a safe and knowledgeable manner.
- Applies the principals of professional conduct needed in the fire service
- Allows volunteer fire persons an opportunity to be continuous learners and stay current with fire science technology

### Career Opportunities

- Alarm and sprinkler industry
- Forest fire service
- Industrial fire protection
- Insurance industry
- Public fire departments

### Contact Person

William Scheufele, Coordinator  
(856) 227-7200, Ext. 4753 or Ext. 4388  
E-mail: bscheufele@camdencc.edu

# FIRE SCIENCE TECHNOLOGY

## *Fire Administration*

Degree: **Certificate Program**

College Code: **FRA.CT**

Code	Course	Credits
First Semester		
FIR-101	Fundamentals of Fire Protection	3
FIR-102	Fundamentals of Fire Prevention/Fire Inspector I	3
FIR-201	Fire Protection Systems	3
FIR-202	Fire Investigation	3
FIR-111	Building Codes and Standards	3
FIR-222	Fire Inspector II	3
FIR-231	Organization & Management of Fire Departments	3
FIR-251	Fire Service Instructional Tech/Methods	3
FIR-252	Arson/Law & Court Procedures	3
CHM-120	Chemistry for Fire Protection	4
		<b>31</b>

### Highlight

A certificate is given for the completion of each professional course that meets uniform fire code requirements. A program certificate is given for the completion of 34 fire science credits with at least 16 credits from either Fire Suppression or Fire Prevention track.

Students transfer successfully to various colleges offering baccalaureate degrees in fire science and administration.

### Career/Program Description

This program will provide the firefighter and fire officer with the latest technology in the field of firefighting and will assist in meeting the changing requirements for employment and advancement in the fire service.

### Career/Program Information

This program:

- Prepares the student for entry-level employment in the fire service
- Prepares the student for advancement as a company fire officer
- Prepares the student to perform his or her tasks on the fire scene in a safe and knowledgeable manner
- Applies the principals of professional conduct needed in a fire service occupation
- Allows volunteer fire persons an opportunity to be continuous learners and stay current with fire science technology

### Career Opportunities

- Alarm and sprinkler industry
- Forest fire service
- Industrial fire protection
- Insurance industry
- Public fire departments

### Contact Person

William Schuefele, Coordinator  
(856) 227-7200, Ext. 4753 or Ext. 4388  
E-mail: bscheufele@camdencc.edu

# FIRE SCIENCE TECHNOLOGY

## *Fire Suppression*

Degree: **Certificate Program**

College Code: **FIR.CT**

<b>Code</b>	<b>Course</b>	<b>Credits</b>
FIR-101	Fundamentals of Fire Protection	3
FIR-102	Fundamentals of Fire Prevention/Fire Inspector I	3
FIR-121	Fire Fighting Tactics	3
FIR-211	Building Construction for Fire Service	3
FIR-221	Hydraulic Technology	4
FIR-231	Organization & Management of Fire Departments	3
FIR-241	Hazardous Materials	3
FIR-251	Fire Service Instructional Tech/Methods	3
CHM-120	Chemistry for Fire Protection	4
		<b>29</b>

### Highlight

A certificate is given for the completion of each professional course that meets uniform fire code requirements. A program certificate is given for the completion of 34 fire science credits with at least 16 credits from either Fire Suppression or Fire Prevention track.

Students transfer successfully to various colleges offering baccalaureate degrees in fire science and administration.

## Career/Program Description

This eighteen (18) credit certificate will provide students the opportunity to concentrate in the area of forensic science. The techniques and instrumentation used in a forensics lab are identical to those used in a biotechnology laboratory; the difference is in the application. The courses will provide students with the understanding of these applications and experience using the instrumentation for this purpose.

## Career/Program Information

- Program is designed especially to facilitate career mobility for law enforcement personnel
- Program provides specific educational courses for science students who wish to enter the field of forensic science

## Career Opportunities

According to the Occupational Outlook Quarterly (Fall 1999), "Job opportunities for forensic scientists are expected to increase as a result of the judicial system's continuing need for corroborating evidence in prosecutions." The mean salary for forensic science technicians is \$40,300 as published by the Bureau of Labor Statistics, Department of Labor in 2001.

## Contact Person

Dr. Teresa Smith, Chair  
(856) 227-7200, Ext. 4479  
E-mail: [tasmith@camdencc.edu](mailto:tasmith@camdencc.edu)

# Forensic Science

Degree: **Certificate Program**

College Code: **FSC.CT**

Code	Course (lecture/lab)	Credits
<b>First Semester</b>		
CHM-145	Introduction to Forensic Science	4
CHM.....	Chemistry Elective	4
		<b>8</b>
<b>Second Semester</b>		
FSC-110	Introduction to Forensic Osteology	4
FSC-120	Introduction to Forensic Toxicology	4
BIT-101	Biotechnology Seminar	2
		<b>10</b>

## Career/Program Description

The New Jersey Police Training commission has granted approval to the Camden County Police Academy to conduct the Alternate Route Basic Course for Police Officers. This program permits qualified applicants to apply for admission to an approved academy for the purpose of participating in the Basic Course for Police Officers.

## Special Admission Requirements

In order to qualify for entrance into the Camden County Police Academy Alternate Route program, applicants must have at least 60 college credits, be between the age of 18 and 35, and successfully pass all entrance examinations, tests, evaluations, investigations and interviews. Tests include written examination, physical ability test, background check, oral interview, psychological evaluation and medical screening. Applicants successfully passing all phases of the entry process will be placed on a list to be included in the Basic Police Training Course.

The academy is limited to no more than 25 Alternate Route Trainees in each basic class. The academy has the right to deny admittance for any reason and successful completion of all phases of testing does not guarantee any applicant admittance into the academy. The academy does not guarantee employment to any trainee upon graduation.

## Applications

Applications are available at the Camden County Police Academy, Thomas J. McDonnell Criminal Justice Center, Camden County College, College Drive, Blackwood, New Jersey or by calling (856) 374-4950.

Those applicants who have medical coverage may not incur the medical expenses. A non-refundable \$10.00 application fee is due with the submission of the application. Information on financial aid and grants will be available to the applicants on the day of testing.

## Career Program Information

The basic course is conducted from 7:00 a.m. to 4:00 p.m., Monday through Friday for 23 weeks. Trainees are required to undergo rigorous physical fitness activity and military discipline as well as extensive academic courses related to the position of municipal police officer. All books required for training will be provided by the academy.

## Costs

\$500 – Tuition  
\$250 – Ammunition  
\$250 – Medical evaluations  
\$360 – Psychological examination  
\$450 – Equipment/uniforms

## Contact Person

Police Academy  
(856) 374-4950

# Fundamentals of Policing

Degree: **Certificate Program**

College Code: **FOP.CT**

Code	Course	Credits
First Semester		
CIS-101	Personal Computer Applications	3
CRJ-101	Administration of Justice	3
CRJ-105	Criminal Law	3
HPE-109	Physical Conditioning/Police Recruits	3
HPE-171	Emergency Response	6
		<b>18</b>

# Instructional Aide Paraprofessional Core Program

Degree: **Certificate Program**

College Code: **IAP.CT**

## Career/Program Description

This program prepares students for entry-level positions as an instructional aide in a school setting. Individuals currently holding instructional aide positions may use this program to enhance classroom and related skills, and to satisfy the current New Jersey state requirements.

## Special Admission Requirements

Admission to the program requires a high school diploma or equivalent and competency in English and Math as demonstrated through the required College placement testing.

## Career/Program Information

Graduates of the certificate program should be able to:

- Assist a teacher in a classroom
- Assist individual students with special needs
- Correct papers under the supervision of a teacher
- Follow teacher directives to tutor individual students or small groups
- Operate standard audio/visual, computer and office machinery

## Special Program Information

- All credits earned in the certificate program will satisfy the 48 credits mandated by the current New Jersey state requirements for instructional classroom aides.
- All credits earned in this certificate program will apply to the EDU.AS degree program in Elementary/Secondary Education at Camden County College.
- This certificate is not designed for transfer; however, students who wish to pursue a baccalaureate program and teacher certification should be able to transfer most of the credits.

## Contact Person

Dr. Jane Weber  
 (856) 227-7200, Ext. 4766  
 E-mail: [jweber@camdencc.edu](mailto:jweber@camdencc.edu)

Code	Course (lecture/lab)	Credits
ENG-101	English Composition <sup>1</sup>	3
CSC-101	Computer Literacy	3
SPE-102	Public Speaking	3
PSY-101	Basic Psychology <sup>2</sup>	3
EDU-101	Historical Trends in American Education	3
PSY-103	Educational Psychology	3
PSY-105	Child Psychology	3
MTH-105	Math Systems I: Structures	3
ART-101	Art Appreciation <b>or</b>	
ART-111	Art History I <b>or</b>	
MUS-101	Music Appreciation I <b>or</b>	
THE-121	Introduction To Theatre	3
HIS-121	U.S History I	3
GEO-101	Cultural Geography	3
HPE-102	Health and Wellness	3
SOC-101	Introduction to Sociology	3
ENG-121	Introduction to Literature <b>or</b>	
ENG-271	World Literature I <b>or</b>	
ENG-281	American Literature I	3
.....	Science Elective	3/4
.....	Elective <sup>3</sup>	3
		<b>48/49</b>

<sup>1</sup> English Composition is a prerequisite for Intro. American World Literature

<sup>2</sup> Basic Psychology is a prerequisite for both Child Psychology and Educational Psychology

<sup>3</sup> Students are encouraged to take an elective related to their content area of study

## Career/Program Description

The "1999 Guide to Labor Demand and Occupations in New Jersey" includes Massage Therapy as a "DEMAND" occupation. Massage therapists have a tremendous variety of employment opportunities to choose from: self-employment, salons, day spas, athletic clubs, cruise ships, chiropractor and physician offices, fitness clubs, country clubs, assisted living facilities, casino hotels, professional sports teams, corporate wellness programs, etc. This is an exciting and dynamic field!

## Career/Program Information

- Massage Therapy Certificate Graduates will meet the qualifications necessary to sit for the National Certification exam as set forth by the National Certification Board for Therapeutic Massage and Bodywork and will meet all requirements as set forth by the State of New Jersey.
- The program instills in students the ability and motivation towards a highly ethical practice in the application of massage therapy.

## Special Admission Requirement

Students must be interviewed by Erika MacWilliams, Director of Lourdes Institute for Wholistic Studies, for entry into the program. (856) 869-3134.

## Special Program Requirements

- Special lab fees for all MAS courses
- Special equipment and materials for some MAS courses

## Career Opportunities

- Chiropractor and physician offices
- Fitness Centers
- Health Clubs
- Health Spas
- Sports Medicine Centers

## Contact Persons

College contact: Nicholas DiCicco, Director  
(856) 227-7200, Ext. 4264  
E-mail: ndicicco@camdencc.edu

Lourdes Institute for Wholistic Studies contact:  
Linda Gilbert, Director  
(856) 869-3134

# Massage Therapy

Degree: **Certificate Program**

College Code: **MAS.CT**

Code	Course	Credits
<b>First Semester</b>		
MAS-200	Therapeutic Massage <sup>1</sup>	6
BIO-103	Human Biology	3
HPE-170	First Aid/Safety/Prevention	3
<b>Second Semester</b>		
BIO-105	Introduction to Nutrition	3
HPE-145	Wellspring Fitness Lab I	1
MAS-240	Specialized Massage Techniques <sup>1</sup>	3
MAS-209	Structures & Functions for the Bodyworker I	4
MAS-211	Structures & Functions for the Bodyworker II	2
HPE.....	Health & Exercise Science Elective	1
<b>Third Semester</b>		
MAS-241	Business Management for the Massage Professional	2
MAS-243	Integrated Myofascial Structural Techniques	2
MAS-245	Pathology & Kinesiology for Massage Therapy <sup>1</sup>	7
MAS-255	Massage Therapy Integration & Applications	3
		<b>14</b>

<sup>1</sup>These courses only are restricted to students formally admitted into the Massage Therapy major. Formal admission includes an interview with the director (856-869-3134).

All other courses may be taken without formal acceptance into the Massage Therapy Program. MAS-200, MAS-240, MAS-243, and MAS-245 require additional materials including oils/lotions/massage table/face cradle and bolster.

## Career Opportunities

This program is a joint venture between

Camden County College and Lourdes Institute of Wholistic Studies in Collingswood.

All MAS courses will be taught in Collingswood. Please note special lab fees are required for all MAS courses. Special equipment and materials are required for this program of study.

## Career/Program Description

This certificate prepares individuals to work in all aspects of medical and surgical coding, billing, and reimbursement.

## Career/Program Information

- Students are placed at a clinical affiliated site.
- We have highly qualified and progressive instructors.
- Students receive hands-on experience with medical coding software.

## Special Program Requirements

- Students are expected to have word processing experience prior to the first coding class.

## Certification

Upon completion of the program, students will be eligible to take the Certified Coding Associate (CCA) exam and have one year towards the two-year requirement to take the Certified Procedural Coder (CPC) Certification exam.

## Career Opportunities

- HMOs
- Inpatient hospitals
- Outpatient healthcare facilities
- Private billing organizations

## Contact Person

Lynette Williamson, MBA, RHIA, CPC, Coordinator  
(856) 227-7200, Ext. 3131  
E-mail: lwilliamson@camdencc.edu

# Medical Coding

Degree: **Certificate Program**

College Code: **MDC.CT**

Code	Course	Credits
<b>First Semester</b>		
HIT-120	Medical Terminology	3
BIO-103	Human Biology	3
		<b>6</b>
<b>Second Semester</b>		
MDC-100	Medical Coding I	3
MDC-115	Medical Reimbursement	3
MDC-120	Introduction to CPT-4	3
MDC-134	Basic Pathophysiology	3
		<b>12</b>
<b>Third Semester</b>		
MDC-102	Advanced Medical Coding	4
MDC-125	Advanced CPT-4	3
MDC-132	Basic Pharmacology	3
MDC-135	Medical Coding Internship	2
		<b>12</b>

### Career Highlights

The Department of Labor has classified health information and coding as one of the top five job opportunities in the new millennium. Clinical affiliations offer avenues for employment after graduation.

## Career/Program Description

The medical transcriptionist provides an important link in the medical field by transcribing recorded dictation of medical reports, letters, and other data as requested by the medical professionals. Students will have the opportunity to combine their language skills and medical knowledge with the latest technology tools to create healthcare records accurately and efficiently.

## Career/Program Information

The program:

- Emphasizes oral and written communication skills
- Provides the academic and vocational skills necessary to combine language skills and medical knowledge with the latest technology
- Enables students to demonstrate knowledge of medical language and its structure
- Introduces the dictation and the equipment necessary for transcribing medical reports to conform to the guidelines of the American Association for Medical Transcription.

## Career Opportunities

- Medical administrative assistant
- Medical receptionist
- Medical secretary
- Medical transcriber

## Contact Persons

Lynette Williamson, MBA, RHIA, CPC, Coordinator  
(856) 227-7200, Ext. 3131  
E-mail: lwilliamson@camdenc.edu

# Medical Transcription

Degree: **Certificate Program**

College Code: **MDT.CT**

Code	Course	Credits
<b>First Year/First Semester</b>		
ENG-101	English Composition I	3
BIO-103	Human Biology	3
CIS-101	Personal Computer Applications <b>or</b>	
CSC-101	Computer Literacy	3
HIT-120	Medical Terminology	3
HIT-125	Medical Transcription I	3
		<b>15</b>
<b>Second Semester</b>		
ENG-102	English Composition II	3
HIT-225	Medical Transcription II	3
HIT-230	Medical Transcription Practicum	3
MDC-132	Basic Pharmacology	3
		<b>12</b>

A typing speed of 30 to 35 words per minute is required prior to first semester courses. If a student needs to meet this requirement they may enroll in Keyboarding I (OST-111) or Keyboarding II (OST-112).

## Program Highlights

Credit for Life Experience  
Opportunities  
Hands-on training  
Tutorial labs available

### Career/Program Description

The Microsoft Office User Specialist certificate (MOUS) will provide opportunities for graduates to enter the workplace with the necessary computer software skills identified by administrative office professional organizations. This program is intended to prepare students to sit for the MOUS certification that will validate the skills of the students and provide them with a globally recognized standard of productivity and excellence as they enter the workplace.

### Career/Program Information

The program: emphasizes oral and written communication skills; provides the technical skills that will prepare students for MOUS certification; provides the academic and vocational skills necessary for entry-level competence in a variety of business and technical fields; and examines changing office technology and its effect on the various functions performed in today's office.

### Contact Persons

Professor Rosalie Duren, Coordinator  
(856) 227-7200, Ext. 4424  
E-mail: rduren@camdencc.edu

# Microsoft Office User Specialist (MOUS)

Degree: **Certificate Program**

College Code: **MOS.CT**

Code	Course	Credits
<b>First Year/First Semester</b>		
OST-111	Keyboarding I or	
OST-112	Keyboarding II	
OST-213	Keyboarding III <sup>1</sup>	3
OST-123	Intro to Microsoft Word	3
OST-151	PowerPoint	3
CIS-110	Info Systems: Principles & Applications	4
.....	Communications Elective	3
		<b>16</b>
<b>Second Semester</b>		
OST-241	Administrative Office Procedures	3
OST-224	Advanced Microsoft Word	3
CIS-102	Spreadsheets	3
CIS-103	Database Management	3
BUS-201	Coop I: Business	3
		<b>15</b>

<sup>1</sup> Course selection, Keyboarding I, II or III, depends on previous keyboarding experience.

### Program Highlights

- Credit for Life Experience
- Opportunities
- Hands-on training
- Tutorial labs available

## Career/Program Description

The Music Recording Certificate is designed to provide participants with an opportunity to learn both the skills involved with the recording of music and the procedures used in executing a live musical performance from a technological standpoint. Students will work hands-on with recording studio technology, computer-based music software and traditional acoustic and electric instruments. The focus of this program is on the practical knowledge needed to operate a music recording studio and the equipment involved in a live performance.

## Career/Program Information

This certificate program:

- Prepares students for entry-level employment in recording studios and as audio engineers with live-performance talent agencies
- Exposes students to technology and software associated with the recording of music
- Develops student's understanding of traditional musical instruments

The average starting salary of a recording engineer with minimum experience and a career certificate is \$35,000. A high-average salary on national surveys was in the \$50,000 range and a low-average mark was \$20,000.

Many recording engineers also work as freelance technicians with local performance groups. These engineers make approximately \$500 for each job. The average freelance technician in the Philadelphia region can expect to work two to three jobs a week, year round.

## Career/Program Opportunities

- Recording Producer
- Audio Engineer
- Sound Mixer
- Music Technician
- Music Composer/Arranger
- Professional Musician

Contact Person:

Professor Michael Billingsley  
(856) 227-7200, Ext. 4563  
E-mail: mbillingsley@camdencc.edu

# Music Recording

Degree: **Certificate Program**

College Code: **MUS.CT**

<b>Code</b>	<b>Course (lecture/lab)</b>	<b>Credits</b>
<b>First Year/First Semester</b>		
MUS-123	Music Theory I	3
MUS-131	Midi I	3
MUS-125	Class Piano I	1
MUS-126	Rhythm Workshop	1
MUS-133	Audio Recording Techniques I	3
		<b>11</b>
<b>Second Semester</b>		
MUS-124	Music Theory II	3
MUS-122	Sight Singing/Ear Training	3
MUS-132	Midi II	3
MUS-134	Audio Recording Techniques	3
		<b>12</b>

## Career/Program Description

The office professional must be proficient in typewriting and must possess excellent oral and written communication skills. This program provides the introduction to and development of vocational skills needed for word processing and business procedures.

## Career and Program Information

The program provides:

- The academic and vocational skills necessary for entry-level competence in a variety of business and technical fields
- Prepares students to work as generalists in the office; and
- Prepares students for the Microsoft Office User Specialist (MOUS) Certification.

## Career Opportunities

- Clerical assistant
- Legal receptionist
- Medical receptionist
- Typist
- Word processing assistant

## Contact Persons

Professor Rosalie Duren, Coordinator  
(856) 227-7200, Ext. 4424  
E-mail: rduren@camdencc.edu

# Office Assistant

Degree: **Certificate Program**

College Code: **SAT.CT**

Code	Course	Credits
<b>First Year/First Semester</b>		
OST-111	Keyboarding I	3
OST-131	Shorthand I <sup>1</sup>	3
CSC-101	Computer Literacy	3
MGT-101	Introduction to Business	3
ENG-101	English Composition I	3
		<b>15</b>
<b>Second Semester</b>		
OST-112	Keyboarding II <sup>2</sup>	3
OST-151	Powerpoint	3
OST-241	Administrative Office Procedures <sup>2,3</sup>	3
OST-123	Intro to Microsoft Word	3
ENG-102	English Composition II	3
.....	Elective	3/4
		<b>18/19</b>

This program lends itself to credit for life experience. For further information, contact the Dean's office at (856) 227-7200, Ext.4420, or the Testing and Assessment Office, Ext. 4710.

<sup>1</sup> Offered in fall semester only

<sup>2</sup> Offered in spring semester only

<sup>3</sup> MGT-214 - Office Management: This course is recommended in place of Administrative Office Procedures for those students who are currently employed full time in job-related fields.

## Program Highlights

Credit for Life Experience  
Opportunities  
Hands-on training  
Tutorial labs available

## Career/Program Description

Ophthalmic Technicians are assigned a number of duties by the ophthalmologist with whom they work. They may assist with eye examinations, perform specialized testing, or assist in surgery. This career is an excellent opportunity for any one who enjoys working with people and is interested in the medical sciences.

## Career/Program Information

This 30-credit program is designed to provide combined academic and clinical experience. Students are introduced to the latest developments and technology in eye care.

## Career Opportunities

- Ophthalmologists Offices
- Eye clinics
- Hospital Ophthalmic clinics/offices
- Universities
- Contact Lens Practices

## Contact Person

Thomas Hunter, Director  
(856) 374-5058  
E-mail: [thunter@camdencc.edu](mailto:thunter@camdencc.edu)

# Ophthalmic Medical Technician

Degree: **Certificate Program**

College Code: **OMT.CT**

Code	Course	Credits
<b>First Year/First Semester</b>		
OPH-130	Anatomy of the Eye	3
OMT-101	Medical History Taking	1
OMT-102	Clinical Optics I	2
OMT-103	Ophthalmic Optics	4
PSY-101	Basic Psychology	3
HPE-181	Basic Life Support "C" - AHA	1
		<b>14</b>
<b>Second Semester</b>		
OPH-131	Introduction to Contact Lenses	3
BIO-103	Human Biology	3
OMT-201	Ocular Pharmacology	1
OMT-202	Clinical Optics II	2
OMT-203	Clinical Rotation I	3
		<b>12</b>
<b>Third Semester</b>		
OMT-213	Clinical Rotation II	4
		<b>4</b>

## Highlights

Ophthalmic Medical Personnel are in high demand. There are currently more opportunities for qualified individuals than there are people to fill them.

Technological advances and the aging population have combined to create a steadily increasing demand for certified technicians.

## Career/Program Description

Opticians dispense corrective lenses to aid patients in their visual needs. This is accomplished by using scientific and clinical procedures and applying learned skills needed to produce and fit top quality eyewear successfully.

## Career/Program Information

The Ophthalmic Science Certificate program is a three-year program, which, combined with a three-year apprenticeship, qualifies the graduate to sit for the New Jersey State Board of Ophthalmic Dispensers Examination.

## Special Program Requirements

- The program has an open enrollment policy; however, any applicant who does not have college level mathematics must achieve satisfactory scores in the College Placement Test.
- All prospective students must schedule an interview with the Ophthalmic Science program director.
- Due to the sequential nature of the specialty courses, admission is usually limited to September.

## Accreditation

The Ophthalmic Science program is accredited by the Commission on Opticianry Accreditation  
P.O. Box 3073  
Merrifield, VA 22116-3073

## Career Opportunities

- Private practice
- Clinical practice
- Optical sales
- Manufacturing
- Ophthalmic laboratory technician
- Contact lens technician

## Contact Person

Thomas Hunter, Director  
(856) 374-5058  
E-mail: [thunter@camdencc.edu](mailto:thunter@camdencc.edu)

# Ophthalmic Science Apprenticeship

Degree: **Certificate Program**

College Code: **OPH.CT**

Code	Course	Credits
<b>First Year/First Semester</b>		
OPH-111	Ophthalmic Materials Lecture I <sup>1</sup>	3
OPH-101	Ophthalmic Materials Laboratory I <sup>1</sup>	3
<b>6</b>		
<b>Second Semester</b>		
OPH-112	Ophthalmic Materials Lecture II <sup>1</sup>	3
OPH-102	Ophthalmic Materials Laboratory II <sup>1</sup>	3
<b>6</b>		
<b>Second Year/First Semester</b>		
OPH-220	Optic Principles	3
OPH-130	Anatomy of the Eye	3
<b>6</b>		
<b>Second Semester</b>		
OPH-131	Introduction to Contact Lenses	3
<b>3</b>		
<b>Third Year/First Semester</b>		
OPH-240	Ophthalmic Dispensing I	4
<b>4</b>		
<b>Second Semester</b>		
OPH-241	Ophthalmic Dispensing II	4
<b>4</b>		

<sup>1</sup> Must be taken within the first 12 months of apprenticeship

**Please Note:** All candidates must take the College Placement Test and complete the required courses prior to beginning course work.

## Highlights

Employment opportunities in this field are expected to increase. Over the next decade the number of the middle-aged and the elderly will increase. Public awareness of the importance of good eyesight and vision screening programs in schools is likely to stimulate the demand for eyecare.

# Paramedic Sciences

Degree: **Certificate Program**

College Code: **PRM.CT**

## Career/Program Description

A paramedic is a pre-hospital provider of advanced life support to the critically ill or injured patient under the direction of a licensed physician. Responsibilities include, but are not limited to, oxygen therapy, intravenous insertion, medication administration, airway management, cardiac monitoring, and defibrillation. The primary objective of the program is to prepare the student to function as an entry-level paramedic on a Mobile Intensive Care Unit.

## Career/Program Information

Through a cooperative program, Camden County College and Virtua Health provide the required knowledge and skills that allow a student to take the National Registry of EMT's certification examination for paramedics. The program uses the three teaching/learning formats of the classroom, patient care areas in the hospital setting, and field internship on an MICU vehicle.

## Special Program Requirements

- High school diploma or equivalent
- New Jersey State EMT-B certification
- Sponsorship from a New Jersey MICU program hospital
- Current American Heart Association or American Red Cross CPR certification
- College Placement Test
- Interview with the Paramedic Science Program Acceptance Committee
- Official letter of acceptance into the program from the Acceptance Committee

## Accreditation

This program utilizes the national standard curriculum for paramedic studies as developed by the US Department of Transportation, the National Highway Traffic Safety Administration, and the US Department of Health and Human Services.

## Career Opportunities

- Certified paramedics are available for employment by designated New Jersey MICU hospitals to provide advanced life support in the pre-hospital setting.
- NJ certified paramedics may seek reciprocity from any state for employment in that state.

## Contact Person

Regina Twisdale, Director  
(856) 374-5078  
E-mail: [rtwisdale@camdencc.edu](mailto:rtwisdale@camdencc.edu)  
Matthew Scott, Assoc. Director  
(856) 374-5078  
E-mail: [mScott@camdencc.edu](mailto:mScott@camdencc.edu)

Code	Course	Credits
<b>First Year/Fall Semester</b>		
PRM-101	Paramedic Theory I	3
PRM-102	Paramedic Theory II	6
BIO-103	Human Biology	3
		<b>12</b>
<b>Spring Semester</b>		
PRM-110	Medical Emergencies I	8
PRM-121	Clinical Practice I	4
		<b>12</b>
<b>Summer Semester</b>		
PRM-122	Clinical Practice II	3
		<b>3</b>
<b>Second Year/Fall Semester</b>		
PRM-212	Medical Emergencies II	5
PRM-230	Trauma Emergencies	3
PRM-223	Clinical Practice III	4
		<b>12</b>
<b>Spring Semester</b>		
PRM-224	Clinical Practice IV-Field Intern	4
		<b>4</b>
<b>Third Year/Fall Semester</b>		
PRM-225	Clinical Practice V-Field Res	2
		<b>2</b>

## Recommendations

Prior experience with a 9-1-1 ambulance service is helpful but not necessary.

## Career/Program Description

Personal computer specialists are involved in the practical application of microcomputers to problem solving in business situations. They use software applications for financial analysis, file handling and databases, and word processing. They are knowledgeable in the use of microcomputer operating systems and computer networking.

## Career/Program Information

The program: provides quality state-of-the-art training to students who wish to enter the computer field as information specialists; provides students with a computer option that emphasizes application software use as opposed to software development; provides professionals (end-users) with a broad range of computer skills and the ability to apply them within the functional areas of an organization; and focuses on the rate of change in the information processing and application software field.

## Career Opportunities

- Administrative assistant
- Computer salesperson
- End-user support specialist
- Help desk
- Information specialist
- Trainer

## Contact Person

Professor Lawrence Jadico  
(856) 227-7200, Ext. 4520  
E-mail: ljadico@camdencc.edu  
Professor Bernadette Carlin, SSJ, Ext. 4423  
E-mail: bcarlin@camdencc.edu  
Professor James Hudgings, Ext. 4387  
E-mail: jhudgings@camdencc.edu  
Dr. Thali Rajashekara, Ext. 4429  
E-mail: trajashekara@camdencc.edu  
Professor Peter Grillo, Ph.D., Ext. 4736  
E-mail: pgrillo@camdencc.edu  
Professor Melvin Howell, Ext. 3105  
E-mail: mhowell@camdencc.edu

# Personal Computer Specialist

Degree: **Certificate Program**

College Code: **PCS.CT**

Code	Course	Credits
<b>First Semester</b>		
CSC-101	Computer Literacy	3
CSC-111	Introduction to Computer Programming/QBASIC	3
CST-101	Microcomputer Operating Systems	3
ACC-101	Accounting	3
OST-110	Microcomputer Keyboarding	1
MTH.....	Mathematics Elective	3/4
		<b>16/17</b>
<b>Second Semester</b>		
CIS-206	Advanced Computer Concepts and Applications	3
CSC-112	Intermediate QBASIC/Intro Visual BASIC	3
.....	Communications Elective	3
<b>Select three courses to equal 9 credits from below:</b>		
CIS-102	Spreadsheets	(3 credits)
CIS-103	Database Management	(3 credits)
CIS-181	UNIX: Introduction and Usage	(3 credits)
CIS-241	Relational Database Management I	(3 credits)
CST-108	Advanced Operating Systems: Windows NT	(3 credits)
		<b>9</b>
		<b>18</b>

## Career/Program Description

The Certified Personal Trainer program prepares students for employment in health and fitness centers as well as a one-on-one personal trainer. This curriculum is designed to train students to become fitness specialists. The program will thoroughly prepare students to pass a nationally recognized certification exam.

## Career/Program Information

The Personal Trainer Program prepares:

- Students for the American Council on Exercise national certification exam for personal trainers
- Graduates for employment as personal trainers
- Graduates for designing and implementing comprehensive, individualized fitness programs to a variety of individuals of all ages.

## Special Program Requirement

- Completion of an internship at a local fitness center or the College's Wellspring Fitness Center.
- Students entering college for the first time must take the College Placement Test before entering the program.

## Career Opportunities

- Corporate Fitness Programs
- Fitness Centers
- Health Clubs
- Nutrition and Weight Control Centers
- Sports Medicine Centers
- YMCA's

## Contact Person

Professor Nicholas DiCicco, Director  
(856) 227-7200, Ext. 4264  
E-mail: ndicicco@camdencc.edu

# Personal Trainer

Degree: **Certificate Program**

College Code: **PT.CT**

Code	Course	Credits
<b>First Semester</b>		
BIO-105	Introduction to Nutrition	3
HPE-114	Personalized Fitness	2
HPE-161	Weight Training	1
HPE-211	Theories and Applications of Physical Training I	4
CIS-101	Personal Computer Applications	3
HPE-180	Community CPR/ARC	1
HPE-200	Marketing for the Fitness Professional	3
		<b>17</b>
<b>Second Semester</b>		
HPE-210	Internship: Personal Trainer Certificate <sup>1</sup>	3
		<b>3</b>

<sup>1</sup> Prerequisite for the Internship is completion of all 17 credits as listed above.

## Highlights

Camden County College hosts the ACE personal trainer national certification exam at the Blackwood campus twice a year.

## Career/Program Description

Graduates of this program will work in optical communications for telephone, cable, and Internet provider companies. The nature of work will concentrate on design and installation of fiber-optic systems, their testing, maintenance and repair.

## Career/Program Information

This program:

- Provides state-of-the-art training on modern optical communications systems. The work is focused on fiber and optical cable installation, splicing, coupling and termination. Students also are presented with hands on practical training in the testing and troubleshooting, including the proper use of the latest test equipment and safety procedures.
- Provides graduates with expert knowledge of the various fiber optic markets. Design, design tradeoffs, various manufacturers specifications, current pricing, and major product vendors are also covered.

## Special Program Requirement

- Two years of high-school Mathematics including Intermediate Algebra.

## Career Opportunities

- Fiber optic design/installation/servicing practice
- Telecommunications (telephone, cable, Internet provider companies)
- Technical sales and customer relations

## Contact Persons

Dr. Leonard Khazan, Coordinator  
Phone: (856) 227-7200, Ext.4320  
E-mail: lkhazan@camdencc.edu  
Dr. Raman Kolluri, Ext. 4474  
E-mail: rkolluri@camdencc.edu  
Dr. Fred Seeber, Ext. 4475  
E-mail: fseeber@camdencc.edu  
Bill Kerr, Ext. 4338  
E-mail: bkerr@camdencc.edu

# Photonics/Fiber Optic Technical Specialist

Degree: **Certificate Program**

College Code: **LFO.CT**

Code	Course	Credits
<b>First Semester</b>		
LFO-101	Introduction to Photonics & Photonics Safety	4
MTH-125	College Algebra & Trigonometry	4
LFO-211	Photonic Optic Principles & Components	4
LFO-241	Introduction to Fiber Optics	3
		<b>15</b>
<b>Second Semester</b>		
EET-101	Electrical/Electronic Principles	4
LFO-231	Photonic Measurements	3
ENG-101	English Composition I	3
LFO-243	Fiber Optic Communication and Installation	3
LFO-294	Fiber Optic Project	3
		<b>16</b>

### Information

“Demand for ever faster data transmission is fueling rapid advances in fiber optic communications and a frenzied search for personnel trained in optics.”  
– *Physics Today*, May 2000, p. 25.

# Programming Tools for Web Pages

Degree: **Certificate Program**

College Code: **PTW.CT**

## Career/Program Description

This program provides students with programming skills to create web pages and applications for the World Wide Web. Users gain comprehensive understanding of how the web operates and learn how to incorporate the latest technologies into effective web pages. The program presents Internet protocols, HTML authoring tools, JavaScript, operating systems, and business elements of the web. This certificate program provides users with programming tools to build web pages for entry-level positions in industry.

## Career/Program Information

This program:

- Prepares students for entry-level employment in web page production, management, and maintenance
- Enables students to create, maintain, and update web pages using HTML authoring tools, HTML programming, and JavaScript for business
- Provides an understanding of the business-oriented aspects of running a website; develops practical solutions to both technical and business problems encountered in the development of web pages
- Familiarizes students with the networking environment of Windows NT and the UNIX environment

## Career Opportunities

Completion of this certificate program could lead to entry-level employment in web page development, management, and maintenance.

## Contact Person

Professor Phyllis Owens, Coordinator  
(856) 227-7200, Ext. 4682  
E-mail: powens@camdencc.edu  
Professor Elaine Reeder, Ext. 4556  
E-mail: ereeder@camdencc.edu

<b>Code</b>	<b>Course</b>	<b>Credits</b>
<b>First Year/First Semester</b>		
CIS-110	Info Systems: Principles & Applications	4
CIS-191	Internet: Tools and Techniques	3
CSC-111	Intro Computer Programming (QBASIC)	3
CIS-151	HTML Programming	3
		<b>13</b>
<b>Second Semester</b>		
CST-108	Advanced Operating Systems: Windows: NT	3
CIS-181	UNIX: Introduction and Usage	3
CIS-152	JavaScript for the Web	3
CIS-192	Practical Applications of Website Mgt	3
		<b>12</b>

## Career/Program Description

This certificate program is established for professionals who have decided to change or upgrade their skills or to enter for the first time the rapidly expanding career opportunities within the Relational Database and Oracle environments.

## Career/Program Information

This program:

- Provides the student with a comprehensive knowledge of the Relational Database Management System environment using Oracle.
- Provides the student with the Oracle tools necessary to be successful in the Relational Database Management System environment, through hands-on work.
- Provides the student with comprehensive knowledge to perform all tasks of an Oracle programmer.
- Provides the student with comprehensive knowledge to perform all tasks of an Oracle Database Administrator.
- Provides the student with comprehensive knowledge that is necessary to upgrade their job skills and position in the Relational Database and Oracle Environment.

## Career Opportunities

- SQL Programmer
- PL/SQL Programmer
- Database Administrator
- Database Designer
- Application Developer

## Contact Person

Professor L. Jadico, CCP  
Phone: (856) 227-7200, Ext. 4520  
Email: [ljadico@camdencc.edu](mailto:ljadico@camdencc.edu)

# Relational Database Management System Using ORACLE

Degree: **Certificate Program**

College Code: **RDB.CT**

Code	Course	Credits
<b>First Semester</b>		
CIS-241	Relational Database Management System I	3
CSC-161	Introduction to Java <sup>1</sup> <b>or</b>	
CSC-213	Visual Basic I <b>or</b>	
CSC-214	Visual Basic II	3
		<b>6</b>
<b>Second Semester</b>		
CIS-242	Relational Database Management System II	3
CIS-245	Database Administration using Oracle	3
CSC-262	Advanced Java <sup>2</sup> <b>or</b>	
CSC-214	Visual Basic II <b>or</b>	
CSC-215	Visual Basic III	3
		<b>9</b>
<b>Third Semester</b>		
CIS-243	Relational Database Management System III	3
CIS-246	Database Administration using Oracle II	3
		<b>6</b>

<sup>1</sup>Java is the recommended programming language for this certificate. However, students have the option of taking Visual Basic.

<sup>2</sup>Students are required to take the next level of the same programming language they selected in the first semester.

## Career/Program Description

This certificate program will prepare students for a career in surgical technology. Graduates will earn 45 credits and demonstrate knowledge and practice of basic patient care and basic surgical case preparation care in the operating room. Graduates of the program will demonstrate surgical skills by assembling and preparing common equipment, supplies and instrumentation used in surgical procedures.

## Career/Program Information

Salaries vary depending on the experience and education of the technologist, the responsibilities of the position, and the working hours.

## Special Admission Requirements

Students must provide documentation of current immunizations, medical clearance, negative 2-step PPD, Hepatitis B series or signed waiver, and any other medical clearances that may be required from the various clinical sites.

## Certification

Graduates of the program will be eligible for certification through the Liaison Council on Certification for Surgical Technologists (LCC-ST).

## Career Opportunities

- Surgical suites
- Emergency rooms
- Outpatient surgical centers
- Private employment by physicians
- Self-employed technologists

## Contact Person

Wendy Witzel, Coordinator  
(856) 227-7200, Ext. 3124  
E-mail: wwitzel@camdencc.edu

# Surgical Technology

Degree: **Certificate Program**

College Code: **SRG.CT**

<b>Code</b>	<b>Course (lecture/lab)</b>	<b>Credits</b>
<b>First Year/First Semester</b>		
BIO-211	Anatomy & Physiology I <sup>1</sup>	4
HIT-120	Medical Terminology	3
SRG-101	Introduction to Surgical Technology	3
SRG-105	Principles of Surgical Technology	4
HPE-181	Basic Life Supp C-AHA	1
		<b>15</b>
<b>Second Semester</b>		
BIO-212	Anatomy & Physiology II	4
SRG-110	Surgical Procedures I	4
SRG-115	Clinical Rotation in Surgical Technology I <sup>2</sup>	7
		<b>15</b>
<b>Summer Semester</b>		
MDC-132	Basic Pharmacology	3
SRG-210	Surgical Procedures II	4
SRG-215	Clinical Rotation in Surgical Technology II <sup>3</sup>	8
		<b>15</b>

<sup>1</sup>Students must meet Camden County College's prerequisites for Anatomy & Physiology I

<sup>2</sup>This practicum assumes 21 hours a week in a 15-week semester. Students will need to provide their own transportation to the hospital setting.

<sup>3</sup>This practicum assumes 24 hours a week in a 15-week semester.

## Career/ProgramDescription

This one-year certificate program is career-oriented and consists of five core courses in AIX UNIX using IBM RISC System 6000/platform, which will provide the student with a general working knowledge of the UNIX Operating System and the skill to handle the software and software used by the system. The goal of this certificate program is to enhance the student's computer skills with a general, practical background in the areas of design, usage, and communication on the UNIX (AIX) Operating System.

## Career/Program Information

This program will provide a working knowledge of the following:

- the UNIX operating system
- the UNIX filing system
- the UNIX kernel and interaction
- shell programming using the Korn shell
- TCP/IP communications protocol
- AIX UNIX using the current technology

## Career Opportunities

- Commercial data processing
- Database servers
- Engineering, scientific, and high function graphics
- Help desk support
- Junior systems administration

## Contact Person

Professor Lawrence Jadico, Coordinator  
(856) 227-7200, Ext. 4520

E-mail: [ljadico@camdencc.edu](mailto:ljadico@camdencc.edu)

Professor Bernadette Carlin, SSJ, Ext. 4423

E-mail: [bcarlin@camdencc.edu](mailto:bcarlin@camdencc.edu)

Code	Course	Credits
CIS-181	UNIX: Introduction and Usage I <sup>1</sup>	3
CIS-282	UNIX: Operating System Design: Disk Subsystem	3
CIS-283	UNIX OSD: Memory & Processes	3
CIS-284	Shell Programming under UNIX	3
CIS-287	TCP/IP Communications under UNIX	3
		<b>15</b>

<sup>1</sup>This course must be taken before all others.

Two courses may be taken in the same semester. The recommended groups are:

- UNIX Operating System Design: Disk Subsystem with Shell Programming under UNIX;
- UNIX Operating System Design: Memory and Process Subsystem with TCP/IP Communications under UNIX

### Recommendation

Entering students should have strong computer skills gained in a related field, in a degree program, in course work, or through work-related experience.

## Career/Program Description

The World Wide Web is industry's most powerful communication tool. Because of a demand for information, there is a need for web authoring, Internet design, and interactive multimedia/video skills. This program is designed to meet that need.

## Career/Program Information

The program:

- Provides the skills for constructing web sites that are attractive, entertaining and uncomplicated
- Prepares graduates for immediate-level employment in the web industry

## Career Opportunities

- Web designer
- Web master
- Web production

## Contact Person

Professor Phyllis Owens, Coordinator  
(856) 227-7200, Ext. 4682  
E-mail: powens@camdencc.edu  
Professor Elaine Reeder, Ext. 4556  
E-mail: ereeder@camdencc.edu

# Web Design Development

Degree: **Certificate Program**

College Code: **WEB.CT**

Code	Course	Credits
<b>First Year/Summer Semester</b>		
CGR-111	Computer Graphic Design I	3
CIS-191	Internet: Tools and Techniques	3
		<b>6</b>
<b>First Semester</b>		
CGR-113	Web Page Design I	3
CGR-112	Computer Graphic Design II	3
CGR-231	Video Imaging Technology I	3
CGR-121	Multimedia Technology I <b>or</b>	3
CGR-253	Digital Illustration	3
.....	General Education Elective	3
		<b>15</b>
<b>Second Year/First Semester</b>		
CGR-214	Web Page Design II	3
CGR-215	Web Multimedia	3
ART-298	Coop I: Fine/Applied Arts <b>or</b>	3
.....	Studio Elective	3
.....	General Education Elective	3
.....	Communications Elective	3
		<b>15</b>

## Highlights

There are cooperative education opportunities with local employers.