

## ALLIED HEALTH

### EXERCISE SCIENCE STUDIES

*Diploma (Wilmington Campus)*

*This curriculum is designed to prepare students as fitness technicians. Students will learn to properly conduct health screening, administer exercise tests, and develop cardiovascular and strength training exercise programs. Through the technical component of the program, students will develop an in-depth understanding of exercise physiology, kinesiology, exercise testing, and fitness programming. Graduates will be prepared to take the American Council on Exercise (ACE) examinations for certification as a Personal Trainer, Aerobic Exercise Leader, and Lifestyle and Weight Management Counselor.*

#### CORE COURSES

Courses	Credits
ENG 121 Composition .....	3
MAT 153 College Math and Statistics .....	4
PSY 121 General Psychology .....	3

#### TECHNICAL SUPPORT/COMPUTER COURSES

Courses	Credits
BIO 120 Anatomy and Physiology I .....	5
BIO 121 Anatomy and Physiology II .....	5
HLH 110 First Aid, Safety, & CPR .....	3

#### TECHNICAL COURSES

Courses	Credits
EXS 100 Introduction to Exercise Science .....	4
EXS 101 Functional Kinesiology .....	3
EXS 105 Conditioning & Strength Training .....	4
EXS 120 Wellness and Health Promotion .....	3
EXS 135 Exercise Science Internship I .....	3

## ALLIED HEALTH

### HEALTH CAREER STUDIES

*Diploma (Owens, Stanton, Terry & Wilmington Campuses)*

*Health Career Studies is a program focusing on developing skills for entry into a health technology and leading to a diploma. The student has an opportunity to explore a variety of health careers while improving basic skills or taking basic science courses that may transfer into most health curriculums. Students also have a credential upon completion of the diploma program to apply for entry-level employment at health care facilities. Students are guided through the curriculum according to academic placement.*

#### CORE COURSES

Courses	Credits
ENG 121 Composition .....	3
COM 111 Human Communications .....	3
or	
PSY 121 General Psychology .....	3
or	
SOC 111 Sociology I .....	3
or	
SOC 213 Ethical Issues in Health Care .....	3

*Select one (1) course from*

MAT 119 Applied Clinical Mathematics .....	3
MAT 120 Math for Behavioral Sciences .....	3
MAT 130 Algebra for Allied Health .....	4
MAT 135 Biomedical Statistics .....	3
MAT 153 College Math and Statistics .....	4
MAT 155 Mathematics of Finance .....	3
MAT 181 Algebra and Trigonometry I .....	4

#### TECHNICAL SUPPORT/COMPUTER COURSES

Courses	Credits
<i>Select sixteen (16) credits from</i>	
BIO 110 Essentials of Anatomy & Physiology .....	4
BIO 115 Nutrition .....	3
BIO 120 Anatomy and Physiology I .....	5
BIO 121 Anatomy and Physiology II .....	5
BIO 125 Introductory Microbiology .....	4
BIO 130 Disease Proc/Pathophysiology .....	2
CHM 100 Basic Chemistry .....	3
CHM 110 General Chemistry .....	4
CHM 111 Intro to Organic & Biochemistry .....	4
HLH 100 Introduction to Health Careers .....	1
PHY 111 Conceptual Physics .....	4
PHY 112 Physics for Allied Health .....	4
PHY 205 General Physics I .....	4
PSY 127 Human Development .....	3

#### TECHNICAL COURSES

Courses	Credits
BIO 100 Medical Terminology .....	3
CIS 107 Introduction to Computers & Application .....	3
or	
IET 150 Computer Applications .....	3

## ALLIED HEALTH

### MEDICAL ASSISTANT STUDIES

*Diploma (Owens & Wilmington Campuses)*

*The Medical Assistant is a multi-skilled professional who works with other members of the health care team performing both clinical duties (assisting with patient care) and administrative duties (performing medical office duties).*

*Graduates of the diploma program may be employed in physicians' offices, hospitals, and other health care facilities. The program consists of course work in the following: keyboarding, medical transcription, computer applications for the medical office, insurance coding, phlebotomy, routine diagnostic testing, obtaining vital signs and assisting the physician in clinical procedures. In addition to course work and laboratory experiences on campus, students are required to complete a supervised internship in a medical facility. Coursework completed to fulfill requirements for the diploma can be applied towards the A.A.S. degree in Medical Assistant Technology. The diploma program is designed to interface with the Medical Assistant Degree program so graduates may complete the additional requirements on a part-time basis if desired.*

#### CORE COURSES

Courses	Credits
ENG 121 Composition .....	3
MAT 150 Business Mathematics .....	3
or	
MAT 155 Mathematics of Finance .....	3
PSY 100 Human Relations .....	3
or	
SOC 213 Ethical Issues in Health Care .....	3

## TECHNICAL SUPPORT/COMPUTER COURSES

Courses	Credits
BIO 100 Medical Terminology .....	3
BIO 110 Essentials of Anatomy & Physiology .....	4

## TECHNICAL COURSES

Courses	Credits
MEA 150 Medical Laboratory Procedures I.....	4
MEA 151 Medical Laboratory Procedures II .....	4
MEA 170 Pharmacology for Medical Assistants.....	3
MEA 290 Medical Assistant Internship .....	4
OAT 121 Keyboarding .....	4
OAT 120 Medical Office Procedures.....	4
or	
MEA 120 Medical Office Procedures I.....	4
OAT 125 Medical Computer Applications .....	3
or	
MEA 125 Medical Office Procedures II.....	4
OAT 157 Word Level I .....	3
or	
MEA 100 Introduction to Medical Assisting .....	2
and	
MEA 270 Medical Assistant Seminar .....	1

## ALLIED HEALTH

### MEDICAL CODING STUDIES

*Diploma (Wilmington Campus)*

*The Medical Coding Studies is a diploma program that prepares graduates for careers as Medical Coders. A Medical Coder manages and classifies medical data for patient billing using standardized codes. Students learn how to correctly assign codes that indicate patient diagnosis, treatment and outcomes in order to properly document patient care and permit data access, analysis and billing. The program provides didactic courses followed by an internship experience in an approved facility. Graduates of the program find employment in a variety of settings, including hospitals, long-term care centers, mental health facilities, federal, state and local health departments, and insurance companies.*

## CORE COURSES

Courses	Credits
ENG 121 Composition .....	3
MAT 120 Math for Behavioral Sciences .....	3
SOC 213 Ethical Issues in Health Care .....	3

## TECHNICAL SUPPORT/COMPUTER COURSES

Courses	Credits
BIO 100 Medical Terminology .....	3
BIO 101 Advanced Medical Terminology .....	3
BIO 120 Anatomy and Physiology I.....	5
BIO 121 Anatomy and Physiology II.....	5
BIO 130 Disease Proc/Pathophysiology .....	3
CIS 107 Introduction to Computers & Application .....	3

## TECHNICAL COURSES

Courses	Credits
HIT 100 Intro to Health Records .....	2
HIT 120 Inpatient Coding/Reimburse .....	3
HIT 121 Ambulatory Care Coding/Reimburse .....	3
HIT 170 Medical Coding Practicum.....	3

## ALLIED HEALTH

### MEDICAL TRANSCRIPTIONIST STUDIES

*Diploma (Owens & Wilmington Campuses)*

*The Medical Transcription program is a diploma program that prepares the graduate for employment as an entry-level medical transcriptionist by providing the basic knowledge, understanding, and skills required to transcribe medical dictation with accuracy, clarity, and timeliness, applying the principles of professional and ethical conduct. Students learn to transcribe medical records and documents used in hospitals, physician's offices, and other medical facilities. The medical transcriptionist must have a medical vocabulary and good written communication skills coupled with competency in word processing and transcribing equipment. The program consists of on-campus didactic and laboratory instruction followed by a medical transcription internship in an approved clinical facility.*

## CORE COURSES

Courses	Credits
ENG 121 Composition .....	3
or	
ENG 125 Honors Composition.....	3
MAT 120 Math for Behavioral Science .....	3
or	
MAT 150 Business Mathematics.....	3
ENG 160 Business Communication .....	3
and	
PSY 100 Human Relations .....	3
or	
SOC 213 Ethical Issues in Health Care .....	3

## TECHNICAL SUPPORT/COMPUTER COURSES

Courses	Credits
BIO 100 Medical Terminology .....	3
BIO 110 Essentials of Anatomy & Physiology .....	4

## TECHNICAL COURSES

Courses	Credits
OAT 121 Keyboarding .....	4
MEA 170 Pharmacology for Medical Assistants.....	3
and	
MEA 255 Comprehensive Medical Transcription.....	3
and	
MEA 280 Medical Transcription Internship .....	5
and	
OAT 120 Medical Office Procedures.....	4
and	
OAT 157 Word Level I .....	3
or	
MTS 100 Intro to Medical Transcription.....	3
and	
MTS 201 Advanced Medical Transcription .....	3
and	
MTS 291 Medical Transcription Practicum .....	3
and	
BIO 101 Advanced Medical Terminology .....	3
and	
CIS 107 Introduction to Computers & Application .....	3

## ALLIED HEALTH

### PERINATAL ULTRASOUND STUDIES

*Diploma (Wilmington Campus)*

*Perinatal Ultrasound is a specialty in the diagnostic medical sonography area of allied health. The sonographer with advanced skills is qualified to assist the physicians in assessing both disease processes and the well-being of those who require specialized perinatal care. The program assists the graduate in preparation to sit for examination in the specialty area of OB-GYN. The courses are offered at the Maternal-Fetal Medicine Department of Christiana Care Health Systems, a DMS clinical affiliate. The curriculum includes didactic and clinical experiences for the advanced practitioner, relating to various maternal and fetal applications and complications of high-risk obstetrics. Employment opportunities in this dynamic and challenging field are available in facilities with a high-risk obstetrical practice. Interested applicants should contact the technology counselor for special entrance requirements.*

**NOTE:** An A.A.S. degree in the DMS technology is a prerequisite for this program.

#### CORE COURSES

*A.A.S. in AHTDMS is required*

Courses	Credits
PFS 120 Fetal Embryology & Anatomy .....	6
PFS 130 Cervical Assessment .....	1
PFS 215 Fetal Echocardiography .....	6
PFS 225 Fetal Genetic Ultrasound.....	6
PFS 235 Maternal/Fetal Pathophysiology.....	9
PFS 245 Multiple Gestations.....	3

## APPLIED AGRICULTURE

### HORTICULTURE STUDIES

*Diploma (Owens Campus)*

*The Horticulture Diploma program is designed for the student to enhance skills to offer a potential employer. Combines the knowledge of science along with practical skills in becoming familiar with landscaping and landscape design. Credits earned in this program may be applied toward an Associate Degree in Horticulture Option, Applied Agriculture Technology.*

#### CORE COURSES

Courses	Credits
COM 111 Human Communications .....	3
ENG 121 Composition .....	3
MAT 150 Business Mathematics.....	3

#### TECHNICAL COURSES

Courses	Credits
AGS 101 Soil & Water Management.....	3
AGS 105 Principles of Plant Growth.....	3
AGS 122 Concept of Turf Management .....	3
AGS 131 Intro to Irrigation .....	3
AGS 132 Landscape Construction & Management.....	3
AGS 203 Landscape Plans & Plant Materials .....	3
AGS 207 Floriculture .....	3
AGS 213 Landscape Plans.....	3

## APPLIED AGRICULTURE

### PRODUCTION AGRICULTURE STUDIES

*Diploma (Owens Campus)*

*(Refer to description under Applied Agriculture Technology.)*

*Credits earned in this program may be applied toward an Associate Degree in Production Option, Applied Agriculture Technology.*

#### CORE COURSES

Courses	Credits
ENG 121 Composition .....	3
MAT 150 Business Mathematics.....	3
PSY 100 Human Relations .....	3

#### TECHNICAL SUPPORT/COMPUTER COURSES

Courses	Credits
CIS 107 Introduction to Computers & Application .....	3
POS 101 Introduction to Poultry Science .....	3

#### TECHNICAL COURSES

Courses	Credits
AGS 101 Soil & Water Management.....	3
AGS 105 Principles of Plant Growth.....	3
AGS 106 Fruits & Vegetables.....	3
AGS 202 Agronomic Crops .....	3

*Select one (1) course from*

AGS 107 Pest Control.....	3
AGS 201 Introduction to Forestry.....	3
AGS 204 Animal Science .....	3
AGS 205 Farm Machinery & Management .....	3
AGS 209 Farm Records & Accounts.....	3
AGS 210 Fundamentals of Aquaculture .....	3
POS 105 Broiler Management .....	3
POS 107 Feed & Grain Handling.....	3
POS 109 Poultry Marketing .....	3

## APPLIED AGRICULTURE

### TURF MANAGEMENT STUDIES

*Diploma (Owens, Stanton, Terry & Wilmington Campuses)*

*The Turf Management Diploma program is designed for the student to enhance skills to offer a potential employer. Combines the knowledge of science along with practical skills in becoming familiar with the Turf Management industry.*

#### CORE COURSES

Courses	Credits
ENG 121 Composition .....	3
MAT 125 Math for the Trades .....	4
PSY 100 Human Relations .....	3

#### TECHNICAL SUPPORT/COMPUTER COURSES

Courses	Credits
CIS 107 Introduction to Computers & Application .....	3

#### TECHNICAL COURSES

Courses	Credits
AGS 101 Soil & Water Management.....	3
AGS 122 Concept of Turf Management .....	3

AGS 125	Turfgrass Pest Control.....	3
AGS 131	Intro to Irrigation .....	3
AGS 132	Landscape Construction & Management.....	3
AGS 135	Turf & Landscape Irrigation .....	3

AUT 153	Automotive Practicum I .....	4
CIS 107	Introduction to Computers & Application .....	3
or		
IET 150	Computer Applications .....	3

## AUTOMOTIVE TECHNOLOGY

### AUTOMOTIVE MANAGEMENT STUDIES *Diploma (Owens Campus)*

*The diploma in Automotive Management Studies provides the student with a foundation of management skills needed for managers in the automotive industry. The program provides classroom instruction in basic automotive mechanical principles, customer service advising and parts/service management skills needed to gain employment in the automotive industry.*

#### CORE COURSES

Courses		Credits
ENG 121	Composition .....	3
ECO 111	Macroeconomics .....	3
MAT 150	Business Mathematics.....	3
PSY 100	Human Relations .....	3

#### TECHNICAL SUPPORT/COMPUTER COURSES

Courses		Credits
BUS 101	Introduction to Business .....	3
CIS 107	Introduction to Computers & Application .....	3

#### TECHNICAL COURSES

Courses		Credits
AUT 162	Principles of Automotive Technology.....	3
AUT 163	Principles of Service Advising .....	3
AUT 164	Principles of Service Management .....	3
AUT 165	Principles of Parts Management.....	3

## AUTOMOTIVE TECHNOLOGY

### AUTOMOTIVE TECHNICIAN STUDIES *Diploma (Owens & Stanton Campuses)*

*The diploma in Automotive Technician Studies provides the student with a foundation of mechanical skills needed in the automotive industry. The program provides a combination of classroom and shop instruction. Upon completion of the diploma requirements, students who desire to continue their education may transfer these courses into the Automotive Technology Degree program.*

#### CORE COURSES

Courses		Credits
ENG 121	Composition .....	3
or		
ENG 125	Honors Composition.....	3
PSY 100	Human Relations .....	3
or		
COM 111	Human Communications .....	3
MAT 125	Math for the Trades .....	4
or		
MAT 120	Math for Behavioral Sciences .....	3

#### TECHNICAL SUPPORT/COMPUTER COURSES

Courses		Credits
AUT 123	Co-Op Work Experience I.....	4
or		

#### TECHNICAL COURSES

Courses		Credits
AUT 114	Introduction to Automotive Technology .....	3
AUT 116	Automotive Electrical .....	5
AUT 118	Auto Steering and Suspension and Alignment.....	3
AUT 119	Automotive Brake Systems.....	3
AUT 122	Auto Air Conditioning & Heating.....	3

## AUTOMOTIVE TECHNOLOGY

### COMMERCIAL TRANSPORTATION STUDIES *Diploma (Owens Campus)*

*The curriculum is designed to provide the student with operating skills and practical knowledge of tractor trailer driving with emphasis on business skills needed in the transportation industry. It will prepare the student for entry-level employment as a CDL "A" licensed commercial vehicle driver/operator. Students spend their day in a combination of classroom, range practice, and road training in order to develop safe skills of operation and mechanical familiarization of the equipment. Employment opportunities can be found in either local or long-distance areas of the transportation industry.*

#### CORE COURSES

Courses		Credits
ENG 121	Composition .....	3
PSY 100	Human Relations .....	3
MAT 150	Business Mathematics.....	3
or		
MAT 151	Applied Business Mathematics.....	4

#### TECHNICAL SUPPORT/COMPUTER COURSES

Courses		Credits
CIS 107	Introduction to Computers & Applications .....	3

#### TECHNICAL COURSES

Courses		Credits
CTS 101	Fundamentals of Motor Fleet Safety .....	3
CTS 102	Vehicle Systems & Reporting Malfunctions.....	1
CTS 103	Tractor Trailer Operations .....	2
CTS 104	Road Driving Practices .....	1
CTS 105	Range Driving Practices .....	2
CTS 106	Advanced Driving Operations .....	2
CTS 107	Advanced Driving Practices.....	1

*Select two (2) courses from*

ACC 101	Accounting I .....	4
BUS 101	Introduction to Business .....	3
ECO 111	Macroeconomics .....	3
ECO 122	Microeconomics .....	3
MKT 111	Salesmanship .....	3

## BIOTECHNOLOGY

### SCIENCE CAREER STUDIES *Diploma (Stanton and Terry Campuses)*

*The Science Career Studies Diploma Program will prepare students for entry level positions in science related fields of employment such as laboratory assistant. Students who complete the diploma program*

will be able to continue on for the Associate in Applied Sciences in Biotechnology or Chemistry Technology. In addition, the student can use these courses to satisfy prerequisite courses for Medical, Dental, Chiropractic, Pharmacy, or other health or science advanced degree programs.

**CORE COURSES**

Courses	Credits
ENG 121 Composition .....	3
MAT 181 Algebra and Trigonometry I .....	4
or	
MAT 185 Precalculus .....	4

Select one (1) course from

CLT 110 International Cultural Immersion .....	3
COM 111 Human Communications .....	3
ECO 111 Macroeconomics .....	3
ECO 122 Microeconomics .....	3
PSY 121 General Psychology .....	3
SOC 111 Sociology I .....	3

**TECHNICAL SUPPORT/COMPUTER COURSES**

Courses	Credits
<i>Select fifteen (15) credits from</i>	
BIO 121 Anatomy and Physiology II .....	5
or	
BIO 151 Biology II .....	4
BIO 250 Principles of Microbiology .....	4
CHM 151 Chemical Principles II .....	5
CHM 240 Organic Chemistry I .....	4
CHM 241 Organic Chemistry II .....	4
PHY 171 Physics I .....	4
PHY 172 Physics II .....	4

**TECHNICAL COURSES**

Courses	Credits
BIO 120 Anatomy and Physiology I .....	5
or	
BIO 150 Biology I .....	4
CHM 150 Chemical Principles I .....	5
IET 150 Computer Applications .....	3

**BUSINESS ADMINISTRATION TECHNOLOGY**

**ACCOUNTING STUDIES**

*Diploma (Owens, Terry & Wilmington Campuses)*

See program description under Business Administration Technology.

**CORE COURSES**

Courses	Credits
ECO 111 Macroeconomics .....	3
ENG 121 Composition .....	3
or	
ENG 125 Honors Composition .....	3
MAT 153 College Math and Statistics .....	4

**TECHNICAL SUPPORT/COMPUTER COURSES**

Courses	Credits
CIS 107 Introduction to Computers & Application .....	3
ENG 122 Technical Writing & Communication .....	3
or	
ENG 130 Honors Technical Writing & Communication .....	3

Select one (1) course from

CIS 112 Spreadsheet/Graphics Processing .....	3
MAT 255 Business Statistics I .....	3
MGT 212 Principles of Management .....	3

**TECHNICAL COURSES**

Courses	Credits
ACC 101 Accounting I .....	4
ACC 112 Accounting II .....	4
ACC 211 Tax Accounting I .....	3
BUS 101 Introduction to Business .....	3
BUS 203 Business Law .....	4
or	
MIS 220 Management Information Systems .....	3

**BUSINESS**

**GENERAL BUSINESS STUDIES**

*Diploma (Owens & Terry Campuses)*

See program description under Business

**CORE COURSES**

Courses	Credits
ECO 111 Macroeconomics .....	3
ECO 122 Microeconomics .....	3
ENG 121 Composition .....	3
or	
ENG 125 Honors Composition .....	3
MAT 153 College Math and Statistics .....	4

**TECHNICAL SUPPORT/COMPUTER COURSES**

Courses	Credits
CIS 107 Introduction to Computers & Applications .....	3

Select one (1) course from

CIS 112 Spreadsheet/Graphics Processing .....	3
OAT 151 Access Level I .....	3
OAT 152 Excel Level I .....	3
OAT 157 Word Level I .....	3
OAT 159 PowerPoint .....	3

**TECHNICAL COURSES**

Courses	Credits
ACC 101 Accounting .....	4
BUS 101 Introduction to Business .....	3
MGT 212 Principles of Management .....	3
MKT 212 Principles of Marketing .....	3

Select one (1) course from

ACC 112 Accounting II .....	4
ACC 211 Tax Accounting .....	3
BUS 203 Business Law .....	4
FIN 221 Money & Banking .....	3
MGT 219 Organizational Behavior .....	3
MGT 231 Human Resource Management .....	3
MIS 220 Management Information Systems .....	3
MKT 111 Salesmanship .....	3
MKT 214 Advertising & Sales Promotion .....	3
SOC 215 Business Ethics .....	3

## BUSINESS ADMINISTRATION TECHNOLOGY

### HOTEL, RESTAURANT, & INSTITUTIONAL MANAGEMENT STUDIES

*Diploma (Wilmington Campus)*

See program description for Business Administration Technology.

#### CORE COURSES

Courses	Credits
ECO 111	Macroeconomics ..... 3
ENG 121	Composition ..... 3
MAT 153	College Math and Statistics ..... 4

#### TECHNICAL SUPPORT/COMPUTER COURSES

Courses	Credits
ACC 101	Accounting I ..... 4
CIS 107	Introduction to Computers & Application ..... 3
CIS 112	Spreadsheet/Graphics Processing ..... 3

#### TECHNICAL COURSES

Courses	Credits
HRI 101	Intro to Innkeeping & Institutional Management ..... 3
HRI 112	Principles of Hospitality Management ..... 3
HRI 211	Quantity Food & Menu Planning ..... 3
HRI 215	Front Office Procedures ..... 3
HRI 219	Innkeeper's Law ..... 3

## BUSINESS ADMINISTRATION TECHNOLOGY

### MANAGEMENT STUDIES

*Diploma (Owens, Terry & Wilmington Campuses)*

See program description for Business Administration Technology.

#### CORE COURSES

Courses	Credits
ENG 121	Composition ..... 3
MAT 153	College Math and Statistics ..... 4
ECO 111	Macroeconomics ..... 3

#### TECHNICAL SUPPORT/COMPUTER COURSES

Courses	Credits
CIS 107	Introduction to Computers & Application ..... 3
ENG 122	Technical Writing & Communication ..... 3
MAT 255	Business Statistics I ..... 3
or	
CIS 112	Spreadsheet/Graphics Processing ..... 3

#### TECHNICAL COURSES

Courses	Credits
ACC 101	Accounting I ..... 4
BUS 101	Introduction to Business ..... 3
MGT 212	Principles of Management ..... 3
MGT 231	Human Resource Management ..... 3
MGT 218	Small Business Entrepreneurship ..... 3
or	
MKT 212	Principles of Marketing ..... 3

## CHEMICAL PROCESS OPERATOR TECHNOLOGY

### CHEMICAL PROCESS OPERATOR STUDIES

*Diploma (Stanton Campus)*

The Chemical Process Operator Studies diploma program prepares students for employment in industrial plants in the chemical, petroleum, polymer and pharmaceutical industry. The chemical industry throughout the state has a great need for trained chemical operators to adjust and optimize conditions for the production of large quantities of products in local chemical plants and pilot plants. Graduates are readily employed by these local plants at competitive salaries. The program provides a practical education in various aspects of plant operations such as hands-on training in process operations and control, regulatory compliance, and preventive maintenance skills. Laboratory facilities include not only standard lab equipment, but also modern instrumentation in pilot plant technology and computer simulations.

#### CORE COURSES

Courses	Credits
ENG 121	Composition ..... 3
or	
ENG 125	Honors Composition ..... 3
MAT 125	Math for the Trades ..... 4
PSY 123	Industrial Psychology ..... 3

#### TECHNICAL SUPPORT/COMPUTER COURSES

Courses	Credits
CHM 110	General Chemistry ..... 4
CPO106	Statistical Process Control Overview ..... 1
ELC 101	Electricity & Instrumentation ..... 3
IET 150	Computer Applications ..... 3
MET 150	Basic Mechanical Systems ..... 3

#### TECHNICAL COURSES

Courses	Credits
CPO 125	Safety, Health & Environment ..... 3
CPO 151	Chemical Process Technology I-Systems ..... 4
CPO 252	Chemical Process Technology II-Operations ..... 4

## CIVIL ENGINEERING TECHNOLOGY

### CIVIL ENGINEERING STUDIES

*Diploma (Stanton)*

The Civil Engineering Studies Diploma Program provides a broad base of important skills needed by civil engineering industries: proficiency in Computer-Aided Design (CAD), an understanding of construction materials and methods, a working knowledge of topographic drafting, the ability to survey and design boundaries and routes, and practice with cost estimating and planning. Core courses in computers, mathematics, language arts, and the social sciences give the graduate additional skills for improved job performance. Potential employers include civil engineers; surveyors; contractors and developers; transportation departments; and municipal, state and federal building regulating agencies. Courses taken to earn this diploma lead directly to an Associate in Applied Science (A.A.S.) degree upon completion of further studies (see program descriptions and Department Chairperson for specifics).

## CORE COURSES

Courses	Credits
AET 135 Construction Materials & Methods .....	4
ENG 121 Composition .....	3
MAT 181 Algebra and Trigonometry I .....	4
<i>Select one (1) course from</i>	
COM 111 Human Communications .....	3
ECO 111 Macroeconomics .....	3
ECO 122 Microeconomics .....	3
POL 111 Political Science .....	3
PSY 100 Human Relations .....	3
PSY 121 General Psychology .....	3
PSY 123 Industrial Psychology .....	3
SOC 111 Sociology I .....	3
VSC 131 Art History I .....	3
VSC 132 Art History II .....	3

## TECHNICAL SUPPORT/COMPUTER COURSES

Courses	Credits
CIS 107 Introduction to Computers & Applications .....	3
<i>or</i>	
IET 150 Computer Applications .....	3

## TECHNICAL COURSES

Courses	Credits
AET 234 Cost Estimating & Planning .....	3
EDD 171 Introduction to CAD using AutoCAD .....	3
CET 144 Surveying Principles .....	4
AET 123 Drafting & Design .....	4
CET 125 Civil Drafting and Design .....	4

## COMPUTER-AIDED ENGINEERING DRAFTING & DESIGN TECHNOLOGY

### COMPUTER-AIDED DRAFTING STUDIES

*Diploma (Owens, Stanton & Terry Campuses)*

*The Computer-Aided Drafting Studies Diploma Program provides a coordinated set of skills needed by Computer-Aided Design (CAD) based industries: proficiency in CAD, and the application of specific CAD techniques and software to industries of the student's choice (architectural, mechanical, civil, manufacturing, and electronics are offered).*

*Core courses in computers, mathematics, language arts, and the social sciences give the graduate additional skills for improved job performance. Potential employment opportunities include: CAD technicians in the offices of architectural, mechanical, civil, manufacturing, and electronics firms or government agencies.*

## CORE COURSES

Courses	Credits
EDD 171 Introduction to CAD using AutoCAD .....	3
EDD 271 Advanced CAD using AutoCAD .....	3
ENG 121 Composition .....	3
MAT 181 Algebra and Trigonometry I .....	4
<i>Select one (1) course from</i>	
COM 111 Human Communications .....	3
ECO 111 Macroeconomics .....	3
ECO 122 Microeconomics .....	3
HIS 111 U.S. History: Pre-Civil War .....	3
HIS 112 U.S. History: Post-Civil War .....	3
POL 111 Political Science .....	3
PSY 100 Human Relations .....	3
PSY 121 General Psychology .....	3

SOC 111 Sociology I .....	3
VSC 131 Art History I .....	3
VSC 132 Art History II .....	3

## TECHNICAL SUPPORT/COMPUTER COURSES

Courses	Credits
CIS 107 Introduction to Computers & Application .....	3
<i>or</i>	
IET 150 Computer Applications .....	3

## TECHNICAL COURSES

Courses	Credits
AET 123 Drafting & Design .....	4
<i>or</i>	
EDD 141 Engineering Drafting & Design I .....	4
AET 125 Architectural Drafting & Design .....	4
<i>or</i>	
EDD 142 Engineering Drafting & Design II .....	3
EDT 128 Machine Trades Blueprint Reading .....	3
<i>or</i>	
EDD 161 Introduction to CAD using Microstation .....	3
EDT 152 Engineering Design I .....	4
<i>or</i>	
MET 123 Modern Manufacturing Techniques .....	3

## COMPUTER INFORMATION SYSTEMS TECHNOLOGY

### GENERAL MICROCOMPUTER STUDIES

*Diploma (Owens Campus)*

*The General Microcomputer Studies diploma program is designed for those people who require more detailed knowledge of microcomputer hardware and software but may not be interested in pursuing an Associate in Applied Science (A.A.S.) degree. This program may also be applied to the Associate in Applied Science degree program.*

## CORE COURSES

Courses	Credits
ECO 111 Macroeconomics .....	3
ENG 121 Composition .....	3
MAT 153 College Math and Statistics .....	4

## TECHNICAL SUPPORT/COMPUTER COURSES

Courses	Credits
ACC 101 Accounting I .....	4

*Select one (1) course from*

ACC 112 Accounting II .....	4
CIS 120 Introduction to Programming .....	4
CIS 160 Internet/Web Construction .....	3
CIS 207 Visual Programming .....	4
CIS 240 Systems Analysis & Design .....	4
ENG 122 Technical Writing & Communication .....	3
POL 111 Political Science .....	3
PSY 100 Human Relations .....	3
PSY 121 General Psychology .....	3
SOC 111 Sociology I .....	3

## TECHNICAL COURSES

Courses	Credits
CIS 107 Introduction to Computers & Application .....	3
CIS 112 Spreadsheet/Graphics Processing .....	3
CIS 125 Window Based Operating Systems .....	4
CIS 192 Network Technology & Administration (MS) .....	4
CIS 194 Networking Technologies .....	3
CIS 195 Network Administration .....	3

## COMPUTER INFORMATION SYSTEMS TECHNOLOGY

### MICROCOMPUTER STUDIES

*Diploma (Terry Campus)*

The Microcomputer Studies program prepares students for careers in applied programming and other computer related fields. The curriculum consists of a core set of courses in programming, software applications, and systems analysis. Consequently, students gain experience with a wide range of hardware and software.

#### CORE COURSES

Courses	Credits
ENG 121 Composition .....	3
COM 111 Human Communications .....	3
or	
SOC 111 Sociology I .....	3
MAT 251 Finite Math.....	3

#### TECHNICAL COURSES

Courses	Credits
CIS 107 Introduction to Computers & Application .....	3
CIS 110 Microcomputer DOS.....	4
CIS 112 Spreadsheet/Graphics Processing .....	3
CIS 120 Introduction to Programming.....	4
CIS 150 C/C++ Programming Language .....	4
CIS 190 Network Installation/Maintenance.....	3
CIS 201 Microdatabase Programming .....	4
CIS 240 Systems Analysis & Design .....	4

## CONSTRUCTION MANAGEMENT TECHNOLOGY

### CONSTRUCTION MANAGEMENT STUDIES

*Diploma (Owens & Stanton Campuses)*

The Construction Management Studies Diploma Program provides a framework of marketable skills needed by construction management industries: proficiency in Computer-Aided Design (CAD), an understanding of construction materials and methods, the ability to design and document a building, knowledge of accounting, cost estimating, and planning. Core courses in computers, mathematics, language arts, and the social sciences give the graduate additional skills for improved job performance. Potential employment opportunities include: engineering aide, materials and job estimator, assistant construction supervisor/project manager, specification writer, material salesperson, building inspector, and office manager. Courses taken to earn this diploma lead directly to an Associate in Applied Science (A.A.S.) degree upon completion of further studies (see program descriptions and Department Chairperson for specifics).

#### CORE COURSES

Courses	Credits
ENG 121 Composition .....	3
MAT 181 Algebra and Trigonometry I .....	4

Select one (1) course from

COM 111 Human Communications .....	3
ECO 111 Macroeconomics .....	3
ECO 122 Microeconomics .....	3
HIS 111 U.S. History: Pre-Civil War .....	3
HIS 112 U.S. History: Post-Civil War.....	3
POL 111 Political Science .....	3
PSY 100 Human Relations .....	3
PSY 121 General Psychology.....	3

SOC 111 Sociology I .....	3
VSC 131 Art History I.....	3
VSC 132 Art History II.....	3

#### TECHNICAL SUPPORT/COMPUTER COURSES

Courses	Credits
CIS 107 Introduction to Computers & Application .....	3
or	
IET 150 Computer Applications .....	3
AET 125 Architectural Drafting & Design .....	4
AET 135 Construction Materials & Methods .....	4
AET 234 Cost Estimating & Planning.....	3
EDD 171 Introduction to CAD using AutoCAD.....	3

#### TECHNICAL COURSES

Courses	Credits
Select three (3) courses from	
ACC 101 Accounting I .....	4
AET 111 Construction Blueprint Reading.....	4
AET 123 Drafting & Design .....	4
AET 232 Contracts & Specification .....	3
CMT 125 Construction Project Administration.....	3

## CULINARY ARTS TECHNOLOGY

### KITCHEN SKILLS STUDIES

*Diploma (Stanton & Terry Campuses)*

This program is designed specifically for industry professionals and students who are employed or plan to be employed in the hospital-ity industry as cooks and desire to further their education and begin the advancement to a supervisory position. Courses are offered on a part-time basis and credits earned may be applied to the Associate Degree in the Culinary Arts or Food Service Management Technologies. Industry professionals and students will also acquire the three mandatory classes required by the American Culinary Federation to begin the certification process.

#### CORE COURSES

Courses	Credits
MAT 120 Math for Behavioral Science .....	3
ENG 121 Composition.....	3
or	
ENG 125 Honors Composition .....	3
COM 111 Human Communications.....	3

#### TECHNICAL SUPPORT/COMPUTER COURSES

Courses	Credits
CUL 119 Sanitation .....	2
CUL 141 Nutrition .....	3
CUL 248 Culinary Supervisory Development .....	3

#### TECHNICAL COURSES

Courses	Credits
FSM 110 Intro to Food Preparation.....	3
CUL 271 Garde Manager .....	4
CUL 251 Cost Control /Menu Planning/Purchasing.....	3
FSM 210 Quantity Food Production .....	3

## CULINARY ARTS TECHNOLOGY

### PASTRY SKILLS STUDIES

*Diploma (Stanton & Terry Campuses)*

*This program is designed specifically for industry professionals and students that are employed or plan to be employed in the hospitality industry as a pastry cook and desire to further their education and begin the advancement to a supervisory position. Courses are offered on a part-time basis and credits earned may be applied to the Associate Degree in the Culinary Arts or Food Service Management Technologies. Industry professionals and students will also acquire the three mandatory classes required by the American Culinary Federation to begin the certification process.*

#### CORE COURSES

Courses	Credits
MAT 120 Math for Behavioral Science	3
ENG 121 Composition.....	3
or	
ENG 125 Honors Composition .....	3
COM 111 Human Communications.....	3

#### TECHNICAL SUPPORT/COMPUTER COURSES

Courses	Credits
CUL 119 Sanitation .....	2
CUL 141 Nutrition .....	3
CUL 248 Culinary Supervisory Development .....	3

#### TECHNICAL COURSES

Courses	Credits
FSM 110 Intro to Food Preparation.....	3
CUL 112 Cake Decorating .....	2
CUL 251 Const Control/Menu Planning/Purchasing.....	3
CUL 261 Baking .....	4
CUL 262 Pastry .....	4

## EARLY CHILDHOOD EDUCATION TECHNOLOGY

### EARLY CHILDHOOD STUDIES

*Diploma (Owens, Terry & Wilmington Campuses)*

*The Early Childhood Studies program is an intensive study of the child from birth to eight years. This program prepares the student to work under the supervision of qualified teachers with pre-school children in a day care center, nursery school, or child development center. This program is designed for those currently employed in the child care field or for those considering the Associate Degree Program in Early Childhood Education. Credits earned in this program may be applied toward an Associate Degree in Early Childhood Education Technology.*

#### CORE COURSES

Courses	Credits
ENG 121 Composition .....	3
or	
ENG 125 Honors Composition.....	3
MAT 150 Business Mathematics.....	3
PSY 125 Child Development .....	3

#### TECHNICAL SUPPORT/COMPUTER COURSES

Courses	Credits
CIS 107 Introduction to Computers & Applications .....	3

#### TECHNICAL COURSES

Courses	Credits
ECE 111 Childhood Nutrition & Safety.....	3
ECE 120 Contemporary Issues in Early Childhood.....	3
ECE 121 Infant & Toddler Methods & Lab .....	5
ECE 123 Early Childhood Methods I & Lab .....	5
ECE 125 Early Childhood Methods II & Lab .....	5
ECE 127 Childhood Classroom Management.....	3

## ELECTRONICS & COMPUTER ENGINEERING TECHNOLOGY

### ANALOG ELECTRONICS STUDIES

*Diploma (Owens Campus)*

*The diploma in Analog Electronics Studies provides a concentration of course work in the analysis of electric circuits, the analysis and design of transistor circuits, and the design and application of operational amplifier circuits.*

#### CORE COURSES

Courses	Credits
ENG 121 Composition .....	3
Select one (1) from	
MAT 181 Algebra and Trigonometry I .....	4
or	
MAT 182 Algebra and Trigonometry II .....	4
or	
MAT 185 Precalculus .....	4
or	
MAT 281 Calculus I .....	4
or	
MAT 282 Calculus II.....	4

Select one (1) from

COM 111 Human Communications .....	3
or	
ECO111 Macroeconomics .....	3
or	
ECO 122 Microeconomics .....	3
or	
POL 111 Political Science .....	3
or	
PSY 100 Human Relations .....	3
or	
PSY 121 General Psychology .....	3
or	
PSY 122 Social Psychology .....	3
or	
PSY 123 Industrial Psychology .....	3
or	
SOC 111 Sociology I .....	3

#### TECHNICAL SUPPORT/COMPUTER COURSES

Courses	Credits
ELC 110 Technical Computer Application .....	3

## TECHNICAL COURSES

Courses	Credits
ELC 122	Electronic Devices & Circuit I ..... 3
ELC 123	Electronic Devices & Circuit II ..... 4
ELC 222	Network Theorems & Analysis ..... 4
ELC 223	Electronic Communications ..... 4
ELC 230	Industrial Electronics ..... 4

## ELECTRONICS & COMPUTER ENGINEERING TECHNOLOGY

### MICROCOMPUTER ELECTRONICS STUDIES *Diploma (Owens Campus)*

The diploma in Microcomputer Electronics Studies provides concentration in the areas of digital electronics, microprocessors, microcomputer systems, and peripherals.

#### CORE COURSES

Courses	Credits
ENG 121	Composition ..... 3
or	
ENG 125	Honors Composition ..... 3

Select one (1) from

MAT 181	Algebra and Trigonometry I ..... 4
or	
MAT 182	Algebra and Trigonometry II ..... 4
or	
MAT 185	Precalculus ..... 4

or	
MAT 281	Calculus I ..... 4
or	
MAT 282	Calculus II ..... 4

Select one (1) from

COM 111	Human Communications ..... 3
or	
ECO111	Macroeconomics ..... 3
or	
ECO 122	Microeconomics ..... 3
or	
POL 111	Political Science ..... 3
or	
PSY 100	Human Relations ..... 3
or	
PSY 121	General Psychology ..... 3
or	
PSY 122	Social Psychology ..... 3
or	
PSY 123	Industrial Psychology ..... 3
or	
SOC 111	Sociology I ..... 3

#### TECHNICAL SUPPORT/COMPUTER COURSES

Courses	Credits
ELC 110	Technical Computer Application ..... 3

#### TECHNICAL COURSES

Courses	Credits
CEN 250	Data Structures in C++ ..... 4
ELC 122	Electronic Devices & Circuit I ..... 3
ELC 130	Digital Electronics I ..... 4
ELC 232	Introduction to Microprocessors ..... 4
ELC 233	Microprocessor Applications ..... 4

## ELECTRONICS & COMPUTER ENGINEERING TECHNOLOGY

### MICROCOMPUTER SYSTEMS SERVICE REPAIR STUDIES

*Diploma (Owens Campus)*

Microcomputer Systems Service Repair Studies provides a concentration of course work in microcomputer applications, use and analysis of electronic circuits, microprocessor systems, and peripherals. Students in the program learn by doing, with strong emphasis on developing laboratory and bench skills. Trained technicians may find jobs in service, customer support, assembly or test of microcomputer or related electronic equipment.

#### CORE COURSES

Courses	Credits
ENG 121	Composition ..... 3
or	
ENG 125	Honors Composition ..... 3

Select one (1) from

MAT 181	Algebra and Trigonometry I ..... 4
or	
MAT 182	Algebra and Trigonometry II ..... 4
or	
MAT 185	Precalculus ..... 4
or	
MAT 281	Calculus I ..... 4
or	
MAT 282	Calculus II ..... 4

Select one (1) from

COM 111	Human Communications ..... 3
or	
ECO111	Macroeconomics ..... 3
or	
ECO 122	Microeconomics ..... 3
or	
POL 111	Political Science ..... 3
or	
PSY 100	Human Relations ..... 3
or	
PSY 121	General Psychology ..... 3
or	
PSY 122	Social Psychology ..... 3
or	
PSY 123	Industrial Psychology ..... 3
or	
SOC 111	Sociology I ..... 3

#### TECHNICAL SUPPORT/COMPUTER COURSES

Courses	Credits
ELC 110	Technical Computer Application ..... 3

#### TECHNICAL COURSES

Courses	Credits
ELC 122	Electronic Devices & Circuit I ..... 3
ELC 123	Electronic Devices & Circuit II ..... 4
ELC 130	Digital Electronics I ..... 4
ELC 132	Microcomputer Service & Repair ..... 4
ELC 232	Introduction to Microprocessors ..... 4

## ENGINEERING TECHNOLOGY STUDIES

### ARCHITECTURAL STUDIES

*Diploma (Owens & Stanton Campuses)*

The Architectural Studies Diploma Program provides a foundation of critical skills needed by architectural engineering industries: proficiency in Computer-Aided Design (CAD), an understanding of construction materials and methods, the ability to design and document a building. Core courses in computers, mathematics, language arts, and the social sciences give the graduate additional skills for improved job performance. Potential employers include: architects and engineers; contractors and developers, municipal, state and federal building regulating agencies; facilities/plant management offices; and building material suppliers and fabricators. Courses taken to earn this diploma lead directly to an Associate in Applied Science (A.A.S.) degree upon completion of further studies (See program descriptions and Department Chairperson for specifics).

#### CORE COURSES

Courses		Credits
ENG 121	Composition .....	3
<i>or</i>		
ENG 125	Honors Composition.....	3
MAT 181	Algebra and Trigonometry I .....	4

*Select one (1) course from*

COM 111	Human Communications .....	3
ECO 111	Macroeconomics .....	3
ECO 122	Microeconomics .....	3
HIS 111	U.S. History: Pre-Civil War .....	3
HIS 112	U.S. History: Post-Civil War.....	3
POL 111	Political Science .....	3
PSY 100	Human Relations .....	3
PSY 121	General Psychology.....	3
SOC 111	Sociology I .....	3
VSC 131	Art History I.....	3
VSC 132	Art History II.....	3

#### TECHNICAL SUPPORT/COMPUTER COURSES

Courses		Credits
AET 125	Architectural Drafting & Design.....	4
AET 135	Construction Materials & Methods.....	4
CIS 107	Introduction to Computers & Application .....	3
<i>or</i>		
IET 150	Computer Applications .....	3

#### TECHNICAL COURSES

Courses		Credits
EDD 171	Introduction to CAD using AutoCAD .....	3
EDD 271	Advanced CAD using AutoCAD .....	3

*Select two (2) courses from*

AET 123	Drafting & Design .....	4
AET 150	Engineering Construction Drafting.....	3
AET 234	Cost Estimating & Planning.....	3
AET 236	Building Service System.....	4

## ENGINEERING TECHNOLOGY STUDIES

### DESIGN STUDIES (MECHANICAL)

*Diploma (Owens Campus)*

The Design Studies (Mechanical) Diploma Program provides the hands-on skills needed by engineering and manufacturing industries: proficiency in Computer-Aided Design (CAD), engineering design principles and practice, manufacturing techniques, measurement tools and equipment, and an understanding of blueprint reading. Core courses in computers, mathematics, language arts and the social sciences give the graduate additional skills for improved job performance. Potential employment opportunities include: manufacturing, machining, maintenance, technical sales, and engineering management. Courses taken to earn this diploma lead directly to an Associate in Applied Science (A.A.S.) degree upon completion of further studies (see program descriptions and Department Chairperson for specifics).

#### CORE COURSES

Courses		Credits
ENG 121	Composition .....	3
<i>or</i>		
ENG 125	Honors Composition.....	3
MAT 181	Algebra and Trigonometry I .....	4

*Select one (1) course from*

COM 111	Human Communications .....	3
ECO 111	Macroeconomics .....	3
ECO 122	Microeconomics .....	3
HIS 111	U.S. History: Pre-Civil War .....	3
HIS 112	U.S. History: Post-Civil War.....	3
POL 111	Political Science .....	3
PSY 100	Human Relations .....	3
PSY 121	General Psychology.....	3
SOC 111	Sociology I .....	3
VSC 131	Art History I.....	3
VSC 132	Art History II.....	3

#### TECHNICAL SUPPORT/COMPUTER COURSES

Courses		Credits
CIS 107	Introduction to Computers & Application .....	3
<i>or</i>		
IET 150	Computer Applications .....	3
EDD 171	Introduction to CAD using AutoCAD .....	3
EDD 271	Advanced CAD using AutoCAD .....	3
EDT 128	Machine Trades Blueprint Reading .....	3
MET 123	Modern Manufacturing Techniques .....	3

#### TECHNICAL COURSES

Courses		Credits
AET 123	Drafting & Design .....	4
EDT 152	Engineering Design I .....	4

## ENGINEERING TECHNOLOGY STUDIES

### SURVEYING STUDIES

Diploma (Owens Campus)

The Surveying diploma program emphasizes hands-on training in the theory and practice of basic surveying. The student will learn the set-up and the use of dumpy levels, automatic levels, transits, theodolites, programmable calculators, EDM, and total stations. The student will acquire skills in taping, traversing, computing cut and fill, curve layouts, area calculations, boundary controls, profile leveling, benchmark transfers, and site layout. When the student completes the program, he or she will be prepared to be an instrument person, notekeeper or office technician, and will be able to perform the duties of each to current acceptable standards. All courses in the one-year program transfer to the two-year Civil Engineering program.

**NOTE:** See Department Chairperson for specific curriculum.

#### CORE COURSES

Courses	Credits
ENG 121 Composition .....	3
or	
ENG 125 Honors Composition.....	3
MAT 181 Algebra and Trigonometry I .....	4

Select one (1) course from

COM 111 Human Communications .....	3
ECO 111 Macroeconomics .....	3
ECO 122 Microeconomics .....	3
POL 111 Political Science .....	3
PSY 100 Human Relations .....	3
PSY 121 General Psychology .....	3
SOC 111 Sociology I .....	3
VSC 131 Art History I .....	3
VSC 132 Art History II .....	3

#### TECHNICAL SUPPORT/COMPUTER COURSES

Courses	Credits
AET 123 Drafting & Design .....	4
EDD 171 Introduction to CAD using AutoCAD .....	3
CIS 107 Introduction to Computers & Application .....	3
or	
IET 150 Computer Applications .....	3

#### TECHNICAL COURSES

Courses	Credits
AET 135 Construction Materials & Methods .....	4
AET 234 Cost Estimating & Planning .....	3
CET 144 Surveying Principles .....	4
or	
CET 146 Surveying .....	3
CET 251 Topographic Drafting .....	3

## ENVIRONMENTAL TECHNOLOGY

### ENVIRONMENTAL STUDIES

Diploma (Stanton Campus)

The Environmental Studies Diploma Program combines coursework in basic mathematics, chemistry, and microbiology together with specific environmental courses. Studies in current environmental issues, computer applications, drafting and design, and environmental assessment techniques prepare the student for entry level positions in various fields of environmental science, sampling, and site assessment of real estate property.

#### CORE COURSES

Courses	Credits
ENG 121 Composition .....	3
ENV 110 Introduction to Environmental Issues .....	3
MAT 181 Algebra and Trigonometry I .....	4

Select one (1) course from

COM 111 Human Communications .....	3
ECO 111 Macroeconomics .....	3
ECO 122 Microeconomics .....	3
HIS 111 U.S. History: Pre-Civil War .....	3
HIS 112 U.S. History: Post-Civil War .....	3
POL 111 Political Science .....	3
PSY 121 General Psychology .....	3
PSY 123 Industrial Psychology .....	3
SOC 111 Sociology I .....	3

#### TECHNICAL SUPPORT/COMPUTER COURSES

Courses	Credits
IET 150 Computer Applications .....	3

#### TECHNICAL COURSES

Courses	Credits
BIO 127 Environmental Microbiology .....	4
CET 125 Civil Drafting and Design .....	4
CHM 110 General Chemistry .....	4
CHM 111 Intro to Organic & Biochemistry .....	4
ENV 271 Environmental Site Assessment .....	2

## FIRE PROTECTION ENGINEERING TECHNOLOGY

### FIRE ALARM STUDIES

Diploma (Stanton Campus)

This program is designed for students employed in the field of fire detection and fire alarm technology.

#### CORE COURSES

Courses	Credits
ENG 121 Composition .....	3
or	
ENG 125 Honors Composition.....	3
MAT 181 Algebra and Trigonometry I .....	4
PSY 121 General Psychology .....	3

#### TECHNICAL SUPPORT/COMPUTER COURSES

Courses	Credits
CIS 107 Introduction to Computers & Application .....	3
EDD 171 Introduction to CAD using AutoCAD .....	3

## TECHNICAL COURSES

Courses	Credits
ELC 118 Introduction to Electricity .....	3
and	
ELC 119 DC and AC Theory .....	3
or	
ELC 120 Introduction to Circuit Analysis .....	4
FET 111 Intro to Fire Protection Engineering Technology .....	3
FET 117 Principles of Fire Alarms.....	3
FET 120 Introduction to Fire Protection Design.....	3
FET 160 Codes and Standards.....	3
FET 172 Fire Alarm Design I.....	4

## FOOD SERVICE MANAGEMENT TECHNOLOGY

### FOOD SERVICE MANAGEMENT STUDIES

*Diploma (Stanton Campus)*

*This program is designed specifically for students employed in the hospitality industry who are interested in advancing to the supervisory level and beyond. Courses are offered on a part-time basis to accommodate work schedules. Credits earned in this program may be applied toward an Associate Degree in the Food Service Management Technology.*

#### CORE COURSES

Courses	Credits
ENG 121 Composition .....	3
COM 111 Human Communications .....	3
MAT 120 Math for Behavioral Sciences .....	3

#### TECHNICAL SUPPORT/COMPUTER COURSES

Courses	Credits
IET 150 Computer Applications .....	3
CUL 248 Culinary Supervisory Development .....	3

#### TECHNICAL COURSES

Courses	Credits
CUL 119 Sanitation .....	2
CUL 141 Nutrition .....	3
CUL 251 Cost Control/Menu Plan/Purchasing.....	3
FSM 110 Introduction to Food Preparation.....	3
FSM 210 Quantity Foods Production .....	3
FSM 230 Hospitality Law .....	3

## HUMAN SERVICES TECHNOLOGY

### HUMAN SERVICES STUDIES

*Diploma (Owens, Terry & Wilmington Campuses)*

*The Human Services diploma program is designed for individuals interested in entering the helping professions. The program exposes students to generic skills required in the area of human services. This program is designed for those currently working in the field or for those considering entering the Associate Degree program in Human Services.*

#### CORE COURSES

Courses	Credits
ENG 121 Composition .....	3
MAT 120 Math for Behavioral Sciences .....	3
or	
MAT 153 College Math and Statistics .....	4
PSY 121 General Psychology .....	3

## TECHNICAL SUPPORT/COMPUTER COURSES

Courses	Credits
CIS 107 Introduction to Computers & Application .....	3
PSY 126 Child & Adolescent Development .....	3

#### TECHNICAL COURSES

Courses	Credits
HMS 121 Introduction to Human Services .....	3
HMS 122 Theories of Counseling .....	3
HMS 123 Dynamics & Group Communication I .....	3
HMS 229 Adult Development & Aging .....	3
HMS 221 Ethical Problems and Issues.....	3
or	
HMS 222 Program Leadership .....	3
PSY 223 Abnormal Psychology.....	3

## OFFICE ADMINISTRATION TECHNOLOGY

### OFFICE ADMINISTRATION STUDIES

*Diploma (Owens, Terry & Wilmington Campuses)*

*This is a program emphasizing a mastery of skills in various software application programs. English, proofreading, editing, and transcription skills in relation to sophisticated equipment, computer software, and office procedures are used. Completion of this program opens a wide range of employment opportunities in the automated office. Software certification opportunities are available. Students may also apply their credits toward an Office Administration Technology degree.*

#### CORE COURSES

Courses	Credits
ENG 121 Composition .....	3
MAT 153 College Math and Statistics .....	4

*Select one (1) course from*

COM 111 Human Communications .....	3
ECO 111 Macroeconomics .....	3
PSY 121 General Psychology .....	3

#### TECHNICAL SUPPORT/COMPUTER COURSES

Courses	Credits
OAT 157 Word Level I .....	3
OAT 159 PowerPoint.....	3

#### TECHNICAL COURSES

Courses	Credits
OAT 121 Keyboarding .....	4
OAT 122 Keyboarding Applications .....	4
OAT 131 Office Systems & Procedures.....	3
OAT 132 Referencing and Transcription.....	3

## PRACTICAL NURSING STUDIES

*Diploma (Owens Campus)*

*Practical Nursing education is the means by which individuals acquire the knowledge and skills necessary to function in a variety of health care settings at the direction of a registered nurse and/or licensed physician or dentist. The practical nursing program has full and part-time options available. Courses are designed to include theory and practical application which enables graduates to provide competent patient care. Licensed Practical Nurses may be employed in a variety of health care settings including acute care hospitals, long-term care facilities, and doctor's offices. The Owens Campus Practical Nursing*

Program is approved by the Delaware Board of Nursing. Admission to the Practical Nursing Program requires that candidates complete college admission requirements and specific nursing admission criteria. Licensed Practical Nurses may apply for admission into the Associate Degree Nursing program. Advanced placement will be dependent upon meeting admission requirements. A diploma will be awarded upon the satisfactory completion of the practical nursing program. In order to receive a license to practice, the graduate practical nurse must pass the National Council of State Boards of Nursing Examination for Practical Nurses.

**CORE COURSES**

Courses	Credits
ENG 121	Composition ..... 3
MAT 119	Applied Clinical Mathematics..... 3
PSY 127	Human Development ..... 3

**TECHNICAL SUPPORT/COMPUTER COURSES**

Courses	Credits
BIO 110	Essentials of Anatomy & Physiology ..... 4

**TECHNICAL COURSES**

Courses	Credits
NUR 121	Human Needs in Health & Illness I ..... 11
NUR 122	Human Needs in Health & Illness II ..... 11
NUR 123	Special Needs in Health & Illness ..... 3
<i>or</i>	
NUR 123	Special Needs in Health & Illness ..... 3
NUR 124	Basic Concepts of Human Needs..... 6
NUR 125	Concepts of Human Needs I ..... 8
NUR 126	Concepts of Human Needs II ..... 8

**PRACTICAL NURSING STUDIES**

*Diploma (Terry Campus)*

The Practical Nursing Program at the Terry Campus provides the means by which individuals acquire the knowledge and skills necessary to function in a variety of health care settings at the direction of the registered nurse, physician, or dentist. Courses are designed to include theory and practical application which enables the graduate to provide competent patient care. Licensed Practical Nurses may be employed in a variety of health care settings including acute care hospitals, long-term care facilities, doctor's offices, and public health. Admission to the Practical Nursing Program requires that individuals submit official documentation of high school graduation or equivalent, in addition to the completion of all college admission requirements. Prior to admission to the clinical portion of the program, all students must complete the NLN Pre-Admission Examination-PN. In order to receive a license to practice, the graduate practical nurse must pass the National Council of State Boards of Nursing Examination for Practical Nurses. Licensed Practical Nurses may apply for admission to Associate Degree Nursing programs. Advanced placement will be dependent upon meeting requirements. The legal requirements for licensure in the State of Delaware are outlined in the Nursing Department Admissions Handbook. A criminal background check is required for all students.

Transfer students must follow the transfer policy of Delaware Technical & Community College. Individuals interested in applying to the nursing program should review the College admission procedure and specific admission criteria for the Practical Nursing Program as outlined in the College Catalog and the Nursing Department Admissions Handbook.

The Practical Nursing Program at the Terry Campus is approved by the Delaware Board of Nursing and is accredited by the National League

for Nursing Accrediting Commission. Information about the program is available from the National League for Nursing Accrediting Commission, 61 Broadway -33rd floor, New York, NY 10006, 212-363-5555.

**CORE COURSES**

Courses	Credits
ENG 121	Composition ..... 3
<i>or</i>	
ENG 125	Honors Composition..... 3
MAT 119	Applied Clinical Mathematics..... 3
PSY 127	Human Development ..... 3

**TECHNICAL SUPPORT/COMPUTER COURSES**

Courses	Credits
BIO 110	Essentials of Anatomy & Physiology ..... 4

**TECHNICAL COURSES**

Courses	Credits
NUR 131	Fundamentals of Nursing..... 4
NUR 132	Medical-Surgical Nursing I ..... 6
NUR 133	Medical-Surgical Nursing II ..... 6
NUR 134	Essentials of Mental Health Nursing ..... 2
NUR 135	Essentials of Peri-Natal Nursing ..... 2
NUR 136	Essentials of Pediatric Nursing ..... 2
NUR 137	Essentials of Legal-Ethical Issues..... 1

**REFRIGERATION, HEATING & AIR CONDITIONING TECHNOLOGY**

**REFRIGERATION, HEATING & AIR CONDITIONING STUDIES**

*Diploma (Owens Campus)*

This curriculum is designed to provide the student with practical and theoretical knowledge of refrigeration, heating, and air conditioning systems. These technical courses combine classroom theory with practical hands-on training. Related courses are intended to prepare students for professional and technical career opportunities. A diploma is awarded to students who successfully complete all required technical and related courses. Certificate options are available.

**CORE COURSES**

Courses	Credits
ENG 121	Composition ..... 3
MAT 125	Math for the Trades ..... 4
<i>or</i>	
MAT 141	College Algebra..... 3
<i>or</i>	
MAT 150	Business Mathematics..... 3
PSY 100	Human Relations ..... 3
<i>or</i>	
PSY 121	General Psychology ..... 3

**TECHNICAL SUPPORT/COMPUTER COURSES**

Courses	Credits
ACR 106	HVAC Lab Practice II ..... 2
ACR 110	HVAC Lab Practice III ..... 2
ACR 111	HVAC Lab Practice IV ..... 2
ACR 115	Air Distribution & Balancing ..... 3
ACR 120	Employee Development Seminar ..... 3

## TECHNICAL COURSES

Courses	Credits
ACR 101 HVAC Electricity.....	4
ACR 102 Fundamental of Refrigeration .....	4
ACR 103 HVAC Lab Practice I.....	2
ACR 104 Residential Climate Control .....	4
ACR 105 Residential Heating I.....	4
ACR 150 Industry Competency Exam I.....	1

## SIGN LANGUAGE TECHNOLOGY

### AMERICAN SIGN LANGUAGE STUDIES

*Diploma (Wilmington Campus)*

The diploma program in American Sign Language not only focuses on the development of language skills and cultural understanding but also includes general education requirements which will better enable students to compete successfully in the job market. In addition to the four levels of American Sign Language, students will study the structure of ASL. Students will improve their overall communication ability by becoming familiar with deaf culture.

### CORE COURSES

Courses	Credits
COM 111 Human Communications .....	3
or	
POL 111 Political Science .....	3
or	
SOC 111 Sociology I .....	3
ENG 121 Composition .....	3
or	
ENG 124 Oral Communications .....	3
MAT 120 Math for Behavioral Sciences .....	3

### TECHNICAL SUPPORT/COMPUTER COURSES

Courses	Credits
CIS 107 Introduction to Computers & Applications .....	3

### TECHNICAL COURSES

Courses	Credits
ASL 101 American Sign Language I.....	3
ASL 102 American Sign Language II.....	3
ASL 103 Fingerspelling/Number Use in ASL .....	3
ASL 201 American Sign Language III .....	3
ASL 202 American Sign Language IV .....	3
ASL 204 Structure-American Sign Language.....	3
CLT 101 American Deaf Culture.....	3

## SPECIALIZED OCCUPATIONS

### LASER & OPTIC STUDIES

*Diploma (Stanton Campus)*

The Laser & Optics Studies Diploma Program is designed to offer students of any degree program the opportunity to study lasers and optics beyond the Physics II level. Lasers are pervasive in many fields of technology. The theoretical as well as hands-on experience students receive will serve as a solid foundation in the basics necessary to keep up with the advances in laser and optics technology. Further information can be obtained by contacting the Chairperson of the Mathematics/Physics Department.

## CORE COURSES

Courses	Credits
ENG 121 Composition .....	3
MAT 181 Algebra and Trigonometry I .....	4
PSY 121 General Psychology .....	3

### TECHNICAL SUPPORT/COMPUTER COURSES

Courses	Credits
MAT 182 Algebra and Trigonometry II .....	4
PHY 172 Physics II.....	4

### TECHNICAL COURSES

Courses	Credits
LAS 271 Introduction to Lasers .....	4
LAS 272 Geometrical Optics & Lasers .....	4
LAS 273 Wave Optics & Lasers .....	4
PHY 171 Physics I.....	4

## SPECIALIZED OCCUPATIONS TECHNOLOGY

### ENGLISH AS A SECOND LANGUAGE

*Certificate (Owens, Terry & Wilmington Campuses)*

The Department of Language & Culture offers courses to meet the varied needs of persons for whom English is not a native language. Students can prepare themselves to enter the workforce or pursue a degree.

In beginning, intermediate and advanced level courses, students develop listening/speaking, grammar, reading and writing skills needed for communication in everyday life. A certificate is awarded for program completion.

Students who complete the ESL Certificate Program and wish to pursue a degree take ESL 100, ESL for Degree Programs, which gives them acceptance into open-entry Associate Degree Programs at Delaware Technical & Community College and prepares them for studies in any American College or University.

### TECHNICAL COURSES

Courses	Credits
ESL 022 Beginning ESL Reading/Vocabulary.....	4
ESL 024 Beginning ESL Writing.....	4
ESL 026 Beginning ESL Grammar/Communication .....	9
ESL 028 Beginning ESL Listening/Speaking .....	4
ESL 032 Intermediate ESL Reading/Vocabulary.....	4
ESL 034 Intermediate ESL Writing.....	4
ESL 036 Intermediate ESL Grammar/Communication .....	8
ESL 038 Intermediate ESL Listening/Speaking .....	4
ESL 042 Advanced ESL Reading.....	4
ESL 044 Advanced ESL Writing.....	4
ESL 046 Advanced ESL Grammar/Communication.....	8
ESL 048 Advanced ESL Listening/Speaking.....	4