## 1992-93 CATALOG SSUPPLEMENT"



## MIDDLESEX COUNTY COLLEGE

## 1992-1993 CALENDAR

## Fall 1992

| September of | 1 | Faculty Orientation and Meetings - First Day |
| :---: | :---: | :---: |
|  |  | Faculty Obligation |
|  | 2 \& 3 | Change of Program; New Student Orientation and Advisement by Faculty |
|  | 7 | Labor Day - Holiday Observed |
|  | 8 | Classes Begin - Fall Semester |
|  | 21 | Last Day to Change Status of Course to Audit |
| October | 12 | Columbus Day - Holiday Observed |
|  | 27 | Mid-Semester |
| November | 10 | Last Day to Withdraw Without an Evaluation |
|  | 11 | Veterans Day — Holiday Observed |
|  | 26 \& 27 | Thanksgiving Day — Holidays Observed |
| December | 9 | Last Day to Withdraw From Classes |
|  | 18 | Last Day of Classes - Fall Semester |
|  | 19, $21 \& 22$ | Specially Scheduled Final Exams |
|  | 24 | Winter Recess Begins |
|  | 29 | Wintersession 1993 Begins |

## Spring 1993

| January | 18 | Martin Luther King Day - Holiday |
| :---: | :---: | :---: |
|  | 20 | Faculty Orientation and Meetings - First Day |
| of |  |  |
|  |  | Faculty Obligation, Spring Semester |
|  | 21 \& 22 | Change of Program; New Student Orientation Advisement by and Faculty Observed |
|  | 25 | Classes Begin - Spring Semester |
| February | 6 | Last Day to Change Status of Course to Audit |
|  | 15 | Presidents' Day - Holiday Observed |
| March | 15 | Mid-Semester |
|  | 29 | Last Day to Withdraw Without an Evaluation |
| April | 2 | Spring Recess Begins |
|  | 12 | Classes Resume |
|  | 30 | Last Day to Withdraw From Classes |
| May | 11 | Last Day of Classes - Spring Semester |
|  | 12 | Reading Day |
|  | 13,14 \& 15 | Specially Scheduled Final Exams |
|  | 20 | Student Academic Status Review |
|  | 26 | Graduation |

## INTRODUCTION

Because the 1991-93 catalog is a two-year catalog, this supplement is being issued. The supplement should be used in conjunction with the Catalog. It contains updated information on the academic programs, calendar, tuition and fees, policies and other information. Additional information may be obtained from the appropriate office or the Registrar.

## Notice

The information contained herein is for the 1991-93 academic years. However, program requirements, courses, policies, tuition, fees and procedures are subject to change as circumstances require.

## Accreditation

Middlesex County College is accredited by the Middle States Association of Colleges and Secondary Schools.

The Dental Hygiene program is accredited by the Commission on Dental Accreditation of the American Dental Association.

The Medical Laboratory Technician program is accredited by the American Medical Association Committee on Allied Health Education and Accreditation and the National Association for Accreditation of Clinical Laboratory Sciences.

The Radiography Education program is accredited by the New Jersey Department of Environmental Protection and the American Medical Association Committee on Allied Health Education and Accreditation.

The associate degree programs in Civil/Construction Engineering Technology, Electrical Engineering Technology and Mechanical Engineering Technology are accredited by the Technology Accreditation Commission of (ABET), the Accreditation Board for Engineering and Technology.

The Dietetic Technology Program is approved by the American Dietetic Association and the Dietary Managers Association.

## PROGRAM OFFERINGS

## Division of Business

 Technologies
## DEGREE PROGRAMS:

Accounting
Business Administration Transfer
Dietetic Technology
Fashion Merchandising and Retail Management
Hotel, Restaurant and Institution Management
Options in:
Hotel/Motel Management
Restaurant/Food Service Management
Legal Assistant
Management
Options in:
Credit and Financial Management**
Management**
Marketing
Options in:
Marketing
Materials Management
Transportation and Distribution
Marketing Art and Design Options in:
Advertising Graphics Design Professional Commercial Photography
Office Systems Technology Option in:
Word Processing
CERTIFICATE PROGRAMS:
Food Preparation
International Business
Legal Assistant+
Management Support Services
Materials Management
Office Systems Technology
Transportation and Distribution

## Division of Engineering

 Technologies and ScienceDEGREE PROGRAMS:
Automotive Technology*
Biological Laboratory Technology
Chemical Technology
Civil/Construction Engineering Technology Option in: Surveying Technology
Computer Integrated Manufacturing Technology

Computer Science (Information Systems)
Electrical Engineering Technology Option in: Computer Electronics
Environmental Technology**
Fire Science Technology**
Heating, Ventilating and Air Conditioning Design Technology (An Energy Technol-
ogy Program)
Industrial Technology
Mechanical Engineering Technology (Design)
Engineering Science
Science Transfer Options in:
Biology
Chemistry
Computer Science
Mathematics
Physics

## CERTIFICATE PROGRAMS:

Basic Fire Science+
Civil/Construction Engineering Technology
Chemical Technology+
Computer Programming+
Electrical Engineering Technology+
Heating, Ventilating and Air Conditioning Design Technology
Industrial Technology
Mechanical Engineering Technology
Mechanical Computer Aided Drafting
Surveying Technology

## Division of Health Technologies <br> DEGREE PROGRAMS:

Dental Hygiene*
Medical Laboratory Technology*
Nursing-Joint Program with UMDNJ
Psycho-Social Rehabilitation \& Treatment-Joint Program with UMDNJ
Radiography Education*

## Division of Social Sciences

 and HumanitiesDEGREE PROGRAMS:
Liberal Arts
Options in:
Business
English
History

Honors
Journalism
Liberal Arts-General
Liberal Arts-Business
Modern Languages
Music
Physical Education, Health and
Recreation
Political Science
Psychology
Social and Rehabilitation Services
Social Sciences
Sociology
Theater
Visual Arts
Education Technology
Options in:
Assistant in Early Childhood Education
Assistant in Special Education
Teacher Assistant
Criminal Justice
Options in:
Correction Administration**
Police Science

## CERTIFICATE PROGRAMS:

Correction Administration**
Teacher Aide
Programs are generally offered during the day or in the evening; exceptions are noted as follows:
*Certain major courses offered only in the day.
${ }^{* *}$ Certain major courses offered only in the evening.
+Certificate Programs offered only in the evening.

## GENERAL

INFORMATION

## Application Procedures for Full- or Part-time Study <br> All applicants for full- or part-time study must return the following items:

1. A check or money order for $\$ 25$ payable to Middlesex County College. This is a non-refundable fee.
2. A completed Application for Admission Form.

Applicants who are declaring a major for a degree or certificate program must also submit the following documents:
3. High school transcripts. Applicants must request their high school guidance office to forward an official copy of their transcript to the Office of Admissions and Recruitment.
4. GED scores (where applicable).

Applicants who hold a high school equivalency diploma must present scores from the GED test.
5. College transcripts (where applicable). Applicants must have each previous postsecondary school and/or college send an official transcript directly to the Office of Admissions and Recruitment.

Special Notice: Applicants for Dental Hygiene, Medical Laboratory Technology, Joint Nursing Program with UMDNJ and Radiography Education for Fall 1993 must submit an application by December 31, 1992. For more information, call the Office of Admissions and Recruitment at (908) 906-2510.

## Expenses <br> Tuition and Fees (Subject to Change)

## Tuition

Tuition is charged by the credit
Middlesex County
Residents
$\$ 52.25$
per credit or credit equivalent
Out-of County Residents $\qquad$ \$104.50 per credit or credit equivalent
Out-of State Residents $\qquad$ $\$ 104.50$ per credit or credit equivalent

Maximum Annual Tuition*

Middlesex County

Residents

\$1,254

Out-of-County Residents ........... \$2,508

Out-of-State Residents
\$2,508

(Includes non-immigrant alien students.)

Maximum Semester Tuition*
Middlesex County
Residents ................................... \$ 836
Out-of-County Residents ........... \$1,672
Out-of-State Residents .............. \$1,672
(Includes non-immigrant alien students.)
NOTE: Enrollment for fewer than 16 credits will result in correspondingly lower charges.
*Students who receive permission to register for more than 20 credits will be charged per credit tuition beyond this maximum.

## Fees

General Service ........................... \$5.25
(Non-refundable) per credit or credit equivalent
Student Service $\qquad$ per credit or credit equivalent
General Expenses
Parking Decal
Full-time Students (12 or more creditsor credit equivalents)Full academic year\$30
Spring semester only ..... \$15
Part-time Students (11 or fewer credits or credit equivalents) Full academic year ..... \$15
Spring and Summer or
Summer only ..... \$ 6
Additional decals ..... \$ 2
per decal
Motorcycle

$\qquad$
One half the rates quoted above
Parking Decal fees are refundable only
upon return of the decal.
Insurance
Accident/Health andSickness\$55
per year
\$47
for half a yea
(Required of full-time students)
Malpractice Insurance* ..... \$17
*Mandatory for students enrolled in Dental Hygiene, Nursing, Medical Laboratory Technology or Radiography Education courses with clinic requirements.
Miscellaneous Fees
Application Fee ..... \$25
Curriculum Change Fee ..... \$10
Graduation Application Fee* ..... \$40
*Students pay this fee only once for each degree or certificate awarded.
These miscellaneous fees listed aboveare non-refundable.
Late RegistrationPeriod I\$ 15
Begins 40 days after the last scheduled day of returning student registration.
Period II
Begins one week immediately prior to the first day of classes and continues through the registration period.
Special Fees
International Credential Evaluation
All College programs except MedicalLaboratory Technology$\$ 130$
Dental Hygiene Senior Students
Licensing Examination Fees National Board Examination ..... \$ 75
North East Regional Board ..... \$350
Advanced Placement-Nursing
Phase I ..... \$ 65
Phases II and II ..... \$135
Dishonored Check Fee ..... \$ 20
per dishonored check
Books and Supplies
These charges are approximate orestimates and are subject to change.
Automotive TechnologyTools\$1,600
Dental Hygiene
Instrument Kit
Freshmen ..... 720
Seniors ..... 300
Uniform ..... 300
Engineering Program
Drawing Kits ..... 50
Hotel, Restaurant, and Institution Management
Knives ..... 20
approximatel
Uniform ..... 70
Marketing Art and DesignA camera with adjustable shutter speedand aperture settings and a non-automaticmetering system is required. A second-hand camera in good working conditionmeeting these specifications may be used.Art and photographic equipmentand supplies125
Medical Laboratory Technology Uniform ..... 45
Joint Nursing Program with UMDNJ Uniform ..... 100
ACADEMIC STANDARDS AND REGULATIONS
Placement
New Jersey College Basic SkillsPlacement Test (NJCBSPT)The New Jersey Board of HigherEducation requires all public collegeswithin the state to test incoming studentsin reading, writing and mathematicsskills. The purpose of the test is to helpplace students in the courses appropriateto their background and needs.
Elementary Algebra Policy
Students who matriculated in a degreeor certificate program as of Fall 1992and who need remediation in elementary
algebra must successfully complete MAT 013 (Algebra I) with a grade of C or better.

## Academic Integrity Policy

Academic integrity is essential to all educational endeavors and demands that each individual adheres to its basic ethical principles. All academic work must be wholly the product of the individual or individuals who submit it except as properly noted; joint efforts are legitimate only when assigned or approved by the instructor.

Examples of academic dishonesty include, but are not limited to:

- Plagiarism - presenting someone else's words, ideas or findings, in whole or in part, as one's own without properly acknowledging the source.
- Consulting or possession of unapproved materials during a test.
- Submitting for a grade work copied in any medium from another student.
- Using a stand-in to take an exam or acting as a stand-in to take an exam for another.
- Falsification of a lab report.
- Unapproved possession of test material.
- Unapproved collaboration.
- Sabotaging another's work.
- Altering a graded assignment to obtain a better grade without instructor permission.
- Forgery, alteration or misuse of any College document.
- Deliberately aiding another in committing an act of academic dishonesty.
Any violation of the principles of academic integrity is a serious offense. Penalties imposed by the instructor can range from an alternate assignment to failure in the course. In addition, the instructor can file code of student conduct charges which can result in suspension from the College.


## Special Programs and Services

Reserve Officers Training Corps (ROTC) Students cross-enrolling at Rutgers for courses in military science are charged per credit hour. The Air Force Reserve Officers Training Corps (AFROTC) requires a $\$ 100$ deposit for uniforms and books.

For further information, contact the Middlesex County College Registrar's Office or call (908) 932-7706/7430 (Air Force ROTC) or (908) 932-7311/7313 (Army ROTC) at Rutgers University.

## Division of Business Technologies

All students matriculated in AS or AAS degree programs in the Division of Business Technologies must demonstrate proficiency in keyboarding/typewriting, by either completing OST 010 Keyboarding for Computers, an appropriate typewriting course or by appropriate waiver from the Office Systems Technology Chairperson.

## Food Preparation

Certificate Program

## REQUIRED COURSES

Course Code
Credits
HRI 103 Principles of Food Selection \& Preparation
HRI 107 Baking Fundamentals
HRI 108 Quantity Food Production
HRI 111 Professional Food Preparation Practicum I

3 Practicum I
$\begin{array}{lll}\text { HRI } & 114 & \text { Garde Manger } \\ \text { HRI } & 115 & \text { Foodservice Operations }\end{array}$
HRI 203 Volume Food Management \& Production
HRI 205 Food \& Beverage Cost Controls \& Purchasing
HRI 208 Environmental Sanitation
ENG 121 English Composition I General Education Elective

TOTAL CREDITS 34

\section*{Legal Assistant <br> Associate in Applied Science Degree <br> 

| SEMESTER II |  |  |
| :---: | :---: | :---: |
| Course Code |  | Credits |
| ECO 201 | Principles of Economics I | 3 |
| ENG 122 | English Composition II | 3 |
| LET 104 | Property Transactions | 3 |
| LET 110 | Litigation Procedure |  |
| LET 111 | Contracts \& the Uniform Commercial Code | 3 |
| PED | Physical Education or |  |
| HED | Health Education | 1 or 3 |
|  | Subtotal | 17 or 19 |
| SEMESTER III |  |  |
| Course Code |  | Credits |
| ACC 101 | Financial Accounting | 4 |
| LET 108 | Torts | 3 |
| LET 112 | Business Organizations \& Gov Regulation | 3 |
| LET | Legal Assistant Elective*** | 3 |
|  | Humanities Elective | 3 |
|  | Subt | total 16 |

## SEMESTER IV

Course Code Credits
ACC 102 Managerial Accounting
LET 280 Senior Seminar for Legal Assistants
LET Legal Assistant Elective*** 3
Humanities Elective
or
Social Science Elective 3
Science Elective**** 3 or 4
Subtotal 16-17
TOTAL CREDITS 66-70
*Students are required to attain a passing grade in OST 010, or must obtain an approved waiver demonstrating proficiency in keyboarding prior to enrolling.
**BUS 115 is recommended. Students with the appropriate academic prerequisites, in consultation with their Academic Advisor, should enroll in an appropriate mathematics course.
***Students may chose from: LET 105, 106, 107, 109, and 208.
****Students may elect courses offered by the Biology, Chemistry, or Physics Department for which they have an appropriate academic background.

## Legal Assistant

Certificate Program
Required Courses
Course Code Credits
ENG 121 English Composition I 3
ENG 122 English Composition II 3
LET 111 Contracts \& the Uniform 3
LET 112 Business Organizations \& Govt. Regulations
LET 100 Introduction to Legal Assisting
LET 101 Legal Research \& Writing 3
LET 104 Property Transactions
LET 108 Torts
LET 110 Litigation Procedure
LET 280 Senior Seminar for Legal Assistants 3
Electives ( 6 credits)
LET 105 Family Law
LET 106 Estate and Tax Law
LET 109 Criminal Law and Procedure
LET 208 Legal Assistant Field Experience
TOTAL CREDITS
36

## Division of Engineering <br> Technologies and Science

## Automotive Technology

Student Service Educational Program (ASSET)
Associate in Applied Science Degree
Sample 2 1/3 Year Plan of Study
SEMESTER I
Course Code Credits

AUT 111 Minor Automotive Services 3
AUT 115 Automotive Brake Systems 2
AUT 117 Automotive Electrical Systems 3
ENG 121 English Composition I 3
MAT 107 Mathematics
Mathematics I
Physical/Health Education 1-3
Subtotal 15-17

## SEMESTER I

Credits
Course Code Credits
AUT 108 Automotive Technology Work
Experience I
Experience I
(15 weeks co-op)


SEMESTER IV
Course Code Credits
$\begin{array}{lr}\text { Course Code } & \text { Credits } \\ \text { NRS } 208 \text { Changes \& Alterations in } & 4\end{array}$
NRS 209 Nursing Preceptorship 4
SCI 121 Physical Science 4
Humanities Elective
Physical Education Elective
Subtotal
TOTAL CREDITS 72

## Radiography Education

Associate in Applied Science Degree
Sample Two-Year Plan of Study
SEMESTER I

| Course Code | Credits |  |
| :--- | :--- | :---: |
| BIO 111 Human Anatomy and Physiology I 4 |  |  |

ENG 121 English Composition I 3
RAD 201 Introduction to Radiographic
Physics
4
RAD 203 Radiographic Positioning/Anatomy I 4
RAD 207 Exposure I/Radiation Protection $\frac{3}{18}$

## SEMESTER II

Credits
$\begin{array}{ll}\text { BIO } 112 \text { Human Anatomy and } & 4 \\ \text { Physiology II } & 4\end{array}$
ENG 122 English Composition II 3
CSC $107 \begin{gathered}\text { Computer Applications for } \\ \text { Health Care Personnel }\end{gathered}$
PHY 108 Radiographic Physics I 3
RAD $204 \begin{gathered}\text { Radiographic Positioning \& } \\ \text { Anatomy II }\end{gathered}$
RAD 208 Exposure II 2
RAD 210 Clinical Practicum I $\frac{2}{18}$

## Summer Session

Course Code Credits

RAD 220 Clinical Practicum II 2
RAD $205 \begin{gathered}\text { Radiographic Positioning/ } \\ \text { Anatomy III }\end{gathered}$ Anatomy III $\quad$ Subtotal $\frac{4}{6}$
SEMESTER III
Course Code
Credits
RAD 127 Radiation Biology 1
RAD $206 \begin{gathered}\text { Radiographic Positioning \& } \\ \text { Anatomy III }\end{gathered}$
RAD 215 Advanced Radiography 2
RAD 230 Clinical Practicum III
PHY 109 Radiologic Physics
Subtotal
SEMESTER IV
Course Code
Credits
PSY 123 Introductory Psychology 3
RAD 219 Introduction to Pathology 2
RAD 250 Clinical Practicum IV
RAD 256 Radiographic Seminar I Humanities Elective
Physical/Health Education
Subtotal 14-16

## Summer Session

| Course Code | Credits |
| :--- | :---: |
| RAD 257 | Radiographic Seminar II |

RAD 260
RAD 260 Clinical Practicum V
Subtotal 5
TOTAL CREDITS 73-75

## Division of Social Sciences and Humanities

## Criminal Justice <br> Associate in Science Degree <br> Correction Administration Option

Sample Two-Year Plan of Study

| SEMESTER I |  |  |
| :--- | :--- | :---: |
| Course Code | Credits |  |
| ENG 121 | English Composition I | 3 |
| CJU 123 | Criminal Justice I* | 3 |
| POS 201 | U.S. State and Local Government* | 3 |
| SOC 121 | Introduction to Sociology I | 3 |
|  | Social Science Elective+++ | 3 |
|  |  | Subtotal |
|  |  | 15 |

## SEMESTER II

| Course Code | Credits |  |
| :--- | :--- | :---: |
| ENG 122 | English Composition II | 3 |
| CJU 124 | Criminal Justice II* | 3 |
| SOC 140 | Introduction to Criminology | 3 |
| POS 220 | U.S. National Government | 3 |
| PSY 123 Introductory Psychology | 3 |  |
| CSC 105 | Computer Applications \& Systems | 3 |
|  | Subtotal |  |
|  |  | 18 |

SEMESTER III
Course Code Credits
COR 207 Correctional Institutions* 3
PSY 222 Social Psychology
Mathematics/Science++ 3-4 Humanities Elective+ 3 Social Science Elective+++
Physical/Health Education
1-3

|  | Subtotal | $16-19$ |
| :--- | :---: | :---: |
| SEMESTER IV | Credits |  |
| Course Code | 3 |  |
| COR 201 Intro to Corrections |  |  |
| Administration* |  |  |

$\begin{array}{llr}\text { POS } 231 & \begin{array}{l}\text { Constitutional Law } \\ \text { or }\end{array} & \\ \text { SOC } 225 & \text { Juvenile Delinquency } & 3 \\ \text { COR } 280 & \text { Corrections Externship } & \end{array}$ or
POL 204 Law Enforcement \& the Community 3 Mathematics/Science++ 3-4 Humanities Elective+

Subtotal 15-16
TOTAL CREDITS 64-68

## *Major Course

+For course selection, see Liberal Arts Humanities Requirements.
++For course selection and sequence, see Liberal Arts Mathematics/Science Requirements. A sequence requirement in either mathematics or science must be met.
+++For course selection, see Liberal Arts Social Sciences requirements.

# COURSE DESCRIPTIONS 

## Accounting <br> ACC 101

Financial Accounting 4 credits (4-0)
The accounting cycle from the recording and analyzing procedures through the summarizing procedures and preparation of general purpose financial statements; the introduction of accounting for partnerships and corporations with emphasis on the capital structure of the corporation; the statement of cash flows.

## ACC 102

Managerial Accounting 4 credits (4-0)
Prerequisite: ACC 101
Covers the nature of Managerial Accounting, job order cost systems, process cost systems, cost allocation and activity-based costing; analyses for managerial decision making; budgeting, standard cost systems, accounting for decentralized operations; transfer pricing and financial statement analysis.

## Art <br> ART 110 <br> GE HUM <br> Figure Drawing <br> 3 credits (3-0) <br> Practice combining nature and the imagination is directed toward exploring the human form and developing the basic techniques of figure drawing. Field trips.

## Biology

BIO 111 GE SCI
Human Anatomy and Physiology I 4 credits (3-3)
Prerequisite: High school Biology and Chemistry with labs or BIO 010 or CHM 010 A study of human cells and tissues as they relate to organs and systems. Structural and functional features of the skeletal, muscular and nervous systems are examined.
Recommended for students in the health sciences.

## Business <br> BUS 107

Introduction to Business
Data Processing
3 credits (3-0)
Prerequisite OST 010 or waiver approved by the Chairperson of the Office of Systems
Technology Department and the Dean of the Division of Business Technologies Covers a full range of data processing methods and devices. Emphasizes use of microcomputers. Hands on instruction includes the use of electronic spreadsheets, database management software, word processing, disk operating systems and graphics, as well as BASIC programming.

## Computer Integrated Manufacturing Technology CIM 206 <br> Computer Integrated <br> Manufacturing Project <br> 2 credits (1-4)

Prerequisites: CIM 203, CSC 117, ELT 111, MAT 110, MEC 112 and 124
Students complete a comprehensive project in an area of computer integrated manufacturing, including a working model, completed part, or investigation into a CIM area. Students use equipment in the developmental laboratories or one of the specialty laboratories: Robotics, F.M.S. cell, CNC, CAD/CAM. A professionally prepared report and an oral presentation are required. Offered at N.J.I.T. under the supervision of N.J.I.T. faculty. The project must be approved by an MCC faculty member.

## Computer Science

 CSC 107Computers in Health Technologies 1 credit (2-0)
A survey of computer applications and their use in the health technology fields. Discussion of the major components of a computer, an introduction to software application packages including word processing and database, and an exposure to a personal computer operating system. Hands-on experience will be emphasized utilizing WordPerfect, dBase, and DOS.

## Dance

DAN 131
GE HUM
Elements of Dance

## 3 credits (3-0)

Provides fundamental movement skills, and body awareness in Modern Dance, basic training at the elementary level of Ballet technique, introduction to a cross section of Jazz technique, movement styles and rhythms, theory and practical application in the principles of dance forms.

Emphasizes placement, strength, flexibility, coordination, musicality within the different dance idioms: the exploration of space, time and energy as the raw materials in dance; the specific vocabulary relating to the different dance techniques and the creative experiences of short movement patterns.

DAN 132
GE HUM
Dance Appreciation
3 credits (3-0)
Prerequisite: Departmental permission required Students about dance as a performing art, through the critical evaluations of the various dance styles. Discusses the role and collaboration of performers/dancers, choreographers, artistic advisors, composers, technicians and the audience. Include lectures, lecture-demos, discussion, selected readings, films, video tapes, slides, live performances and experimental dance/ movement sessions.
Attendance recommended. Dance performances are required. Written reports are required.
DAN $201 \quad$ GE HUM
Methods and Modern Technique
in Dance
Prerequisite: Departmental Permission Required
Provides development in Modern Dance
through theory and practical application.
Emphasizes the practice of composition
skills, clarity of movement, initiation, body
articulation, and dynamics of performance.
Focuses on the development of small group
work and solos, including form and structure.
Attendance is required at two professional
dance productions. Written reports must be
submitted.

## DAN 202 GE HUM

Improvisation and Composition 3 credits (3-0)
Departmental permission required A comprehensive introduction to the creative and theoretical aspects of contemporary dance, with focus on improvisation toward composition. Dance studies will be designed through problem-solving experiences, exploration of resources, use of ideas, knowledge of forms, development of craft. Emphasizes the excitement of making choices and taking chances. Studies will be performed as works in progress at the end of semester (informal showing: individuals or group). Class sessions will include lectures, films, discussion, selected readings on theory, philosophy, current trends of dance and experimental dance/movements.

## Electrical Engineering Technology and Computer Electronics ELC 211 <br> Computer Peripherals 3 credit (2-3) <br> Prerequisites: ELC 214

A study of various computer peripheral devices, to include: their architecture, operation, interfacing, installation, maintenance and repair. Peripheral devices studied include: fixed and removable disk drives, magnetic tape drives, video and hard-copy terminals as well as line printers. Laboratory experiments allow students to gain experience with peripheral equipment.

## ELC 212

Data Communications and Interfacing 3 credits (2-3)
Prerequisites: ELT 214
A study of various types of data communication systems. System components network structures and interface techniques are examined. Transmission codes and multiplexing methods are emphasized. Extensive laboratory work included.

ELT 106
Technical Electricity
4 credits (3-3)
Corequisite: MAT 110
A study of the theory and practical applications of electricity. Topics include fundamental principles of electricity. AC and DC circuits, electrical instruments, electro-magnetic devices (transformers and rotating machinery) and electronic circuits and devices.
Laboratory provides hands-on experience.

## ELT 208

Electrical Engineering Technology Co-Op Work Experience
3 credits (1-12)
Prerequisites: ELT 111
Corequisite: ELT 108
A cooperative work experience program whereby students are employed in a technical position in order to gain some of the practical experience necessary for success in technology. Supervision of this departmentally approved position is provided by the College through on-the-job visits and individual progress review sessions. Students are required to establish learning objectives related to their position in order to effect the attainment of specific job competencies. Students attend a weekly, one-hour seminar on campus and work for a minimum 13 hours a week. Students are required to work a total of 180 hours during the semester. Students must be recommended by the Department faculty. Students must register with the department of cooperative education.

## ELT 215

Applied Electricity 3 credits (2-3)

## Corequisite: MAT 108

An introduction to the theory and practical applications of electricity. Topics such as: DC and AC circuit theory, electrical instrumentation, electromagnetic devices and circuits and electronic devices and circuits are covered. Laboratory experimentation included.

## ELT 237

Digital Communications 3 credits (2-3)
Prerequisite: ELT 103
A study of digital communications including the following topics: Time Division, Multiplexing, Pulse Code, Modulation techniques, amplitude shift keying, error rate measurement, parallel/serial, and serial/parallel conversion, electrical interface techniques, parity and block code circuity, measurements of delay distortion and other impairments.

## English

ENG 122
GE COM
English Composition II
3 credits (3-0)
Prerequisite: English 121 with a grade of " $C$ " or better
Through writing, reading of essays, short stories and poems, and speaking, students continue to learn and to practice the skills of clear, correct, effective English. Through a variety of projects requiring techniques such as cause and effect, analysis, evaluation, classification, argumentation, and persuasion, as well as a through formal research (library) paper, students write between 7,000 and 10,000 words, including drafts and revisions.

## English as a Second Language ESL 010

Basic English as a Second Language 6 credit equivalents (4-2)
Basic English language skills including attention to listening skills, basic conversation, basic structure and some elementary writing skills. Two hours of individualized work will be required in the ESL Learning Center in addition to class hours. " $C$ " is the minimum acceptable grade for movement from one remedial/developmental level to another and for completion of remediation/developmental requirements to include all credit equivalent courses.

## ESL 019

Intermediate Discussion/Phonology 3 credit equivalents (3-0)
Oral communication at the intermediate level. Attention will be paid to pronunciation problems as well as to conversation techniques and strategies in different situations. " $C$ " is the minimum acceptable grade for movement from one remedial/ developmental level to another and for completion of remediation/developmental requirements to include all credit equivalent courses.

## ESL 031

ESL Structure/Writing I
4 Credit equivalents (4-0)
Prerequisite: ESL 010 or permission of ESL chairperson
Corequisite: ESL 041
Designed to develop skills in structure and writing at a low intermediate level. Students review basic structure and practice writing by combining sentences to form a good paragraph. Individualized work required in the ESL Learning Center in addition to class hours. " $C$ " is the minimum acceptable grade for movement from one remedial/developmental level to another and for completion of remediation/developmental requirements to include all credit equivalent courses.

ESL 032
ESL Structure/Writing II
4 credit equivalents (4-0)
Prerequisite: ESL 031 or permission of ESL chairperson
Corequisite: ESL 042
A continuation of ESL 031 introducing more advanced structural items. Writing emphasis placed upon expanding paragraph development. Individualized work required in the ESL Learning Center in addition to class hours. " $C$ " is the minimum acceptable grade for movement from one remedial/developmental level to another and for completion of remediation/developmental requirements to include all credit equivalent courses.

## History

HIS 202 GE HUM
Ancient Egypt's History:
An Introduction
3 credits (3-0)
This survey traces the genesis, rise, and development of the high culture and dynastic civilization of pharaonic Egypt from the Predynastic Period through New Kingdom (approx. 3500 to 1000 B.C.). An interdisciplinary approach will be used that takes into account the effects that geography and topography had on Egypt's cultural development. Topics discussed will include language, religion, mummification, funerary architecture and art. Course will be illustrated with slides as well as with artifacts and artifact-facsimiles.

## Hotel, Restaurant, and Institution Management

 HRI 111Food Preparation Practicum
3 credits (1-13)
Prerequisite: HRI 103
A practicum designed to develop and refine professional food preparation and production skills through an approved on-site industry experience. Learning activities are planned, supervised and evaluated by qualified chefs and/or food production managers in coordination with the program director

## Legal Technology

LET 100

## Introduction To Legal Assisting

 2 credits (2-0)An introduction to the functions and duties of the legal assistant. Students explore the regulation of legal assistants, ethics, privilege and ABA considerations. Students are introduced to the court system and law office routines.

LET 101
Legal Research and Writing 4 credits (4-0)
Prerequisites or Corequisites: ENG 121 and LET 100
An introduction to the functions and duties of the legal assistant. Students explore the American legal system and are introduced to the New Jersey court system. Students use the law library including encyclopedias, reporter systems, digests, and practice manuals including updating sources. Students are introduced to the use of computer assisted research by use of WESTLAW including reporter systems, statutes, administrative codes, updating sources and extended databases.

LET 106
Wills and Estate Administration 3 credits (3-0)
Prerequisite: LET 100 and LET 101
Substance and procedure with respect to wills, estates, trusts, probate, life insurance, and federal and state taxes.

LET 107
Law Office Management
3 credits (3-0)
Prerequisites: LET 100 and 101
Students learn the basics of law office management including, but not limited to, accounting procedures, scheduling, filing, and office systems.

## LET 110

Litigation Procedure
4 credits (4-0)
Prerequisites: LET 100 and 101
Covers the rules governing courts and basic litigation procedures including telephone technique, client interviews, complaints, interrogatories, etc.

LET 111
Contracts and the Uniform
Commercial Code
3 credits (3-0)
Prerequisites: LET 100 and 101
Detailed study of the substantive law of contracts, sales law, and commercial paper. In applicable areas, the Uniform Commercial Coed is covered as well as the common law principles. Emphasis is placed on source materials, research and writing. Legal principles are applied to theoretical problems as well as current New Jersey cases.

LET 112
Business Organizations and Government Regulation
3 credits (3-0)
Prerequisite: LET 111
Detailed study of the substantive law of agency and employment, security devices, bankruptcy, partnerships and corporations. (In applicable areas the Uniform Commercial Code is covered as well as the common law principles.)

## LET 280

Senior Seminar for Legal Assisting 3 credits
Prerequisites: LET 104,108,110 \& 112 Students integrate their knowledge of theoretical concepts and practical application of legal research, litigation, property, torts, and business law through case analysis and the completion of assigned projects.

Must be taken the last semester prior to graduation.

## Mathematics <br> MAT 012

Basic Mathematics/Algebra I
6 credits (6-0)
Prerequisite: A score between 15-19 on the NJCBSPT and some familiarity with Algebra (the 15-19 score could vary, contingent on changes in the NJCBSPT cut-off scores, as determined by the Director of Institutional Planning.)
The first third of the course will focus on the Basic Mathematics curriculum, including topics in Basic Mathematics Computation Some work in whole numbers, all operations in fractions, decimals and percents as well as word problems in all areas will be covered. Ratio and proportion and some metric and basic geometry topics will be included in the curriculum.

The remaining two-thirds of the course will cover topics in elementary algebra: integral, rational and irrational numbers, techniques of graphing and solving of linear equations, polynomials and their operations, special products and factoring, fractional expressions and equations, quadratic equations and methods of solutions, radical expressions and inequalities.

## Mechanical Engineering Technology <br> MEC 123 <br> Technical Graphics/CAD I <br> 3 credits (6-0)

A study of the graphic language of engineering and technology to include linework, lettering, graphs, geometric construction, orthographic projections, pictorial, sectional and auxiliary drawings and dimensioning techniques. An introduction to the Computer-Aided Graphics system is included. Laboratory projects provide hands-on experiences and develop graphic skills. Laboratory time is spent using (CAD) computer-aided drafting system with AUTOCAD.

## Medical Laboratory <br> Technology

MED 100
Phlebotomy
7 credits (4-4)
Educates medical laboratory personnel in the technics of obtaining blood specimens from patients for the purpose of testing and analysis. The students are taught procedures relating to the preparation and maintenance of equipment used for obtaining specimens, establishing a professional relationship with the patient, the selection of the site, care of the specimen, and clinical duties associated with record keeping of the laboratory tests.

## Office Systems Technology OST 010

## Keyboarding for Computers

1 credit equivalent (1-1)
Keyboarding computer skills are developed through hands-on applications. The course teaches the touch operation of the alphabetic, numeric, and command/function keys. Students learn to keyboard rapidly and accurately. Vocabulary and concepts used in keyboarding operations are also incorporated. Not open to Office Systems Technology students.

## Physical Education <br> PED 145

ARC Lifeguard Training 1 credit (1-2)
Provide students with the minimum skills training to qualify as nonsurf lifeguards. Upon successful completion of the course requirements, students receive the American Red Cross Lifeguarding Certificate. N.M. Students may also take the course for college credit without becoming a certified lifeguard. Students must demonstrate strong swimming skills at the first class meeting.
In addition, students must possess, by the first class meeting, valid standard First Aid and CPR certification. These certifications cannot expire until after the course concludes.

## Physics

PHY 010

## Basic Physics

4 credit equivalents (2-4)
Corequisite: MAT 013 or equivalent A one-semester, non-credit introductory physics course designed to give students sufficient background to enter non-calculus physics courses.

## PHY 101

GE SCI
Principles of Physics I
4 credits (3-2)
Prerequisite: MAT 107 or equivalent
Includes an introduction to Newtonian mechanics with application of the conservation laws to physical systems. Electromagnetism and geometrical optics are introduced at an elementary level. Topics in wave propagation, thermodynamics, atomic and nuclear physics.
PHY 108
Radiographic Physics I
$\mathbf{3}$ credits (2-2)
Prerequisite: one year high school algebra I
or MAT 013
Technical skills needed for physics course
and for other courses in the Radiography
Education Program are taught including
calculating skills, using formulas, and
graphing. Basic physics consists of mechanics,
energy, electrostatics, simple D.C. circuits,
and atomic theory. Appropriate laboratory
experience provided and includes computer
skills. The first semester of a two semester
course. course.

## PHY 121

General Physics I

## 4 credits (2-4)

Prerequisite: MAT 109
Emphasizes theoretical models and basic physical principles. The course is precalculusbased and uses some basic calculus in the development and applications of physical principles in a scientific environment. Students will use computers in the laboratory for developing programming skills for the analysis of experimental data. Topics include kinematics, dynamics, conservation of energy and momentum, waves, temperature and heat, and thermodynamics. The first semester of a two-semester college-parallel sequence for liberal arts science and preprofessional students.

## Psychology <br> PSY 223

GE SS

## Child Psychology

## 3 credits

Prerequisite: PSY 123
Human behavior from prenatal development to maturity. The study of physical, intellectual, and emotional behavior. Behavior characteristics of different age levels, individual differences and methods of adjustment.

## PSY 260

Psychology Field Experience 3 credits (1-12)
Prerequisite: PSY 123 with a grade of "C" or better and departmental approval A cooperative work experience program whereby the student is employed in a departmentally approved position in order to gain the practical competency necessary for success in Applied Psychology. Supervision is provided by the College through on-the-job visits and individual progress review sessions. The student must be approved by the department and is required to establish learning objectives related to his or her position. The regular day student attends a weekly, one-hour seminar on campus and works approximately 13 hours a week, for a total of 180 field experience hours during the semester. DCE students' hours are adjusted to fit the different semester lengths, yet reflect the same total hours.

## Reading <br> RDG 009 <br> Reading Skills for College I <br> 4 credit equivalent (3-1)

Provides intensive instruction to help students develop basic reading comprehension, vocabulary, communication and study skills. In order to receive a passing grade of "C" or better and move on to RDG 011, students must make an appropriate score on the re-test version of NJCBSPY Reading Comprehension section. " $C$ " is the minimum acceptable grade for movement from one remedial/developmental level to another and for completion of remediation/developmental requirements to include all credit equivalent courses.

## Science

SCI 155
GE SCI
Introduction to Geology and Oceanography
4 credits (3-2)
Prerequisite: one year high school laboratory science and MAT 014 or equivalent A one-semester course dealing predominately with Geology and with the physical aspects of the ocean. Topics include a discussion and identification of rocks and minerals, volcanism, the geologic time scale, earthquakes, and their origin. Introduces important topics in Physical Oceanography and the Geology of New Jersey and environs. Students conduct appropriate laboratory exercises.

## SCI 156 <br> Introduction to Astronomy <br> 4 credits (3-2)

GE SCI

Prerequisite: one year high school laboratory science and MAT 014 or equivalent An introduction to descriptive space science covering the historical development of astronomy and planetology. Basic physical laws are introduced to help explain the tools used in the investigation of the solar system and the galaxy. Topics include stellar and solar systems, evolution and cosmology. The possibility of extraterrestrial life and communication with it is included as a necessary part of the subject. Laboratory experience included.

