

Cleveland

COMMUNITY COLLEGE



ACADEMIC BULLETIN

1993 ❖ 1994

NOTE

Cleveland Community College issues this catalog for the purpose of furnishing prospective students and other interested persons with information about the College and its programs. Announcements contained herein are subject to change without notice and may not be regarded in the nature of binding obligations on the College or the State of North Carolina. Efforts will be made to keep changes to a minimum, but changes in policy by the State Board of Community Colleges, the Department of Community Colleges, or by local conditions may make some alterations in curriculum, fees, etc., necessary.

VISITORS

Visitors, and in particular prospective students are always welcome at Cleveland Community College. The Students Services office will provide guide services for groups or individuals between 8:30 a.m. and 3:30 p.m. Monday through Friday. The College is open until 10:00 p.m. Monday through Thursday and until 4:00 p.m. on Friday and individuals may visit at their convenience. Questions about the school and its programs will be answered by someone from the Student Services office.

APPROVED BY

North Carolina State Board of Nursing
North Carolina Department of Veterans Education
Joint Review Committee on Education For Radiologic Technology

MEMBER INSTITUTION OF

American Association of Community and Junior Colleges
North Carolina Association of Colleges and Universities
North Carolina Department of Community Colleges
Southern Association of Colleges and Schools
Southern Association of Community and Junior Colleges

ACCREDITED BY

Cleveland Community College is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools to award associate degrees.

GENERAL INFORMATION

CLEVELAND COMMUNITY COLLEGE “An Equal Opportunity Educational Institution”

DIRECTORY OF CORRESPONDENCE Telephone (704)484-4000

Inquiries will receive prompt attention if addressed to the Administrative Offices below at Cleveland Community College, 137 South Post Road, Shelby, North Carolina 28150

Academic Affairs	Vice President of Academic Affairs
Administrative Affairs.....	The President
Admission.....	Director of Admissions
Adult Basic Education.....	Coordinator, Basic Skills Programs
Adult High School Program.....	Coordinator, Basic Skills Programs
Entrance Procedures	Director of Admissions
Evaluation of Credits.....	Director of Admissions
Financial and Business Affairs.....	Vice-President—Business Affairs
GED Exam	GED Examiner
Gifts and Bequests	The President
High School Program	Coordinator, Basic Programs
Human Resources Development Program.....	Recruiter, HRD
Industrial Training	Vice-President, Industry and Community Service
Job Placement Service.....	Director of Student Placement
Non-Credit Courses	Dean of Continuing Education
Placement Testing	Director of Career Center
Registration	Registrar
Student Activities	Director of Student Activities
Student Affairs.....	Vice-President—Student Services
Student Financial Aid.....	Director of Financial Aid
Transcripts	Registrar
Veterans Affairs.....	Director of Veterans Affairs

TABLE OF CONTENTS

Directory of Correspondence	1
Calendar of Events 1993	3
Calendar of Events 1993-94	4
Calendar of Events 1994	5
Calendar of Events 1994-95	6
Calendar of Events 1995	7
Message from President.....	8
General Information	9
College Transfer Credit.....	13
Curriculum Programs of Study	14
Admissions.....	15
Academic Regulations	22
Student Services.....	28
Financial Information.....	41
Degree Credit Programs.....	53
Developmental Courses	54
College Transfer Programs (A.A. and A.S. Degrees).....	56
Associate in General Education Degree.....	75
Associate in Applied Science Degrees	79
Associate Degree Nursing (Registered Nursing)	79
Communications Technology	88
Criminal Justice.....	91
Radiologic Technology.....	94
Accounting.....	97
Business Administration.....	100
Microcomputer Systems Technology	103
Industrial Management.....	106
Administrative Office Technology	109
General Office	112
Medical Office Technology	115
Fashion Merchandising and Marketing	118
Real Estate (Technical Specialty)	121
Electronics Engineering Technology	123
Diploma Credit Programs	127
Air Conditioning, Heating and Refrigeration	128
Auto Body Repair	131
Auto Mechanics.....	133
Residential Carpentry (Prison Program Only)	135
Cosmetology (Certificate).....	137
Electrical Installation.....	138
Food Service Specialist (Prison Program Only)	141
Industrial Maintenance	143
Machinist	146
Plumbing and Pipefitting (Prison Program Only)	149
Welding.....	151
Practical Nursing Education.....	153
Course Descriptions	155
Non-Credit Programs.....	191
Industry and Community Services.....	192
Continuing Education.....	192
New Industry Training	194
Literacy Skills Program.....	203
Small Business Center.....	206
Learning Resources Center.....	207
Personnel of the College	210
Index	221

CALENDAR OF EVENTS

SPRING QUARTER 1993

March 2	Monday.....	Orientation
March 5	Thursday	Registration
March 9	Monday.....	First Day of Classes
March 11	Wednesday	Late Registration Ends
April 17	Friday.....	Holiday (no classes)
May 5	Tuesday.....	No Classes
May 6	Wednesday	Last Day to Drop Courses
May 26	Tuesday.....	Spring Quarter Ends
May 28	Thursday	Graduation

SUMMER QUARTER 1993

1st Session - 5½ Weeks - June 4 - July 14
 2nd Session - 5½ Weeks - July 15 - August 20
 11 Week Session - June 4 - August 20

June 2	Wednesday	Registration
June 4	Friday.....	Classes Begin - 1st & 11 Week Sessions
June 4	Friday.....	Late Registration
June 11	Friday.....	Last Day to Drop 1st & 11 Week Sessions
July 1	Thursday	Last day to Drop 1st Session and Not Receive a Grade of "F"
July 2	Friday.....	Holiday (no classes)
July 14	Wednesday	End of 1st Session
July 15	Thursday	Classes Begin - 2nd Session
July 15	Thursday	Late Registration Ends - 2nd Session
July 23	Friday.....	Last Day to Drop 2nd Session and receive ⅔ Tuition Refund
July 30	Friday.....	Last Day to Drop 11 Week Session and Not Receive a Grade of "F"
August 10	Tuesday.....	Last Day to Drop 2nd Session and Not Receive a Grade of "F"
August 10	Tuesday.....	Pre-Registration for Fall Quarter
August 12	Thursday	Orientation for New Students
August 20	Friday.....	Quarter Ends - 2nd & 11 Week Sessions
August 20	Friday.....	Graduation

CALENDAR OF EVENTS

FALL QUARTER 1993

September 2	Thursday	Registration
September 7	Tuesday.....	Classes Begin
September 7	Tuesday.....	Late Registration Ends
September 16	Thursday	Last Day to Drop and Receive $\frac{2}{3}$ Tuition Refund
November 1	Monday.....	Last Day to Drop and Not Receive a Grade of "F"
November 2	Tuesday.....	Pre-Registration for Winter Quarter
November 4	Thursday	Orientation for New Students
November 22	Monday.....	Quarter Ends

WINTER QUARTER 1993-1994

November 23	Tuesday.....	Registration
November 29	Monday.....	Classes Begin
November 29	Monday.....	Late Registration
December 8	Wednesday	Last Day to Drop and Receive $\frac{2}{3}$ Tuition Refund
December 17	Friday.....	Winter Break Begins After Classes
January 3	Monday.....	Classes Resume
January 17	Monday.....	Martin Luther King Holiday (no classes)
February 7	Monday.....	Last day to Drop and Not Receive Grade of "F"
February 8	Tuesday.....	Pre-Registration for Spring Quarter
February 10	Thursday	Orientation for New Students
February 28	Monday.....	Quarter Ends

SPRING QUARTER 1994

March 3	Thursday	Registration
March 7	Monday.....	Classes Begin
March 7	Monday.....	Late Registration
March 16	Wednesday	Last Day to Drop and Receive $\frac{2}{3}$ Tuition Refund
April 4-5-6	Monday/Tuesday/Wednesday	Spring Break
April 7	Thursday	Classes Resume
May 3	Tuesday.....	Pre-Registration for Summer Quarter
May 4	Wednesday	Last Day to Drop and Not Receive Grade of "F"
May 5	Thursday	Orientation for New Students
May 25	Wednesday	Quarter Ends
May 26	Thursday	Staff Development (no classes)
May 27	Friday.....	Graduation

CALENDAR OF EVENTS

SUMMER QUARTER 1994

1st Session - 5½ Weeks - June 3 - July 13

2nd Session - 5½ Weeks - July 14 - August 22

11 Week Session - June 3 - August 22

June 1	Wednesday	Registration
June 3	Friday.....	Classes Begin - 1st & 11 Week Session
June 3	Friday.....	Late Registration - 1st & 11 Week Session
June 10	Friday.....	Last day to Drop 1st & 11 Week Sessions and Receive $\frac{2}{3}$ Tuition Refund
June 30	Thursday	Last Day to Drop 1st Session and Not Receive Grade of "F"
July 1-4	Friday/Monday	Summer Break
July 13	Wednesday	End of 1st Session
July 14	Thursday	Classes Begin - 2nd Session
July 14	Thursday	Late Registration - 2nd Session
July 22	Friday.....	Last Day to Drop 2nd Session and Receive $\frac{2}{3}$ Tuition Refund
August 2	Tuesday.....	Last Day to Drop 11 Week Session and Not Receive Grade of "F"
August 10	Wednesday	Last Day to Drop 2nd Session and Not Receive Grade of "F"
August 16	Tuesday.....	Pre-Registration for Fall Quarter
August 18	Thursday	Orientation for New Students
August 22	Monday.....	Quarter Ends - 2nd & 11 Week Sessions
August 23	Tuesday.....	Graduation

FALL QUARTER 1994

August 25	Thursday	Registration
August 29	Monday.....	Classes Begin
August 29	Monday.....	Late Registration
September 5	Monday	Labor Day Holiday (no classes)
September 7	Wednesday	Last Day to Drop and Receive $\frac{2}{3}$ Tuition Refund
October 16-18	Sunday, Monday, Tuesday.....	Instructors Conference/Staff Development (no classes)
October 26	Wednesday	Last Day to Drop and Not Receive a Grade of "F"
November 8	Tuesday.....	Pre-Registration for Winter Quarter
November 10	Thursday	Orientation for New Students
November 16	Wednesday	Quarter Ends

CALENDAR OF EVENTS

WINTER QUARTER 1994-95

November 17	Thursday	Registration
November 24 & 25	Thursday, Friday	Thanksgiving
December 7	Wednesday	Last Day to Drop and Receive $\frac{2}{3}$ Tuition Refund
December 21	Wednesday	Winter Break Begins After Classes
January 4	Wednesday	Classes Resume
January 16	Monday.....	Martin Luther King Holiday (no classes)
February 3	Friday.....	Last Day to Drop and Not Receive a Grade of "F"
February 14	Tuesday.....	Pre-Registration for Spring Quarter
February 16	Thursday	Orientation for New Students
February 24	Friday.....	Quarter Ends

SPRING QUARTER 1995

February 27	Monday.....	Registration
March 1	Wednesday	Classes Begin
March 10	Friday.....	Last Day to Drop and Receive $\frac{2}{3}$ Tuition Refund
April 12	Wednesday	Staff Development (no classes)
April 13 & 14	Thursday, Friday	Easter Break
April 28	Friday.....	Last Day to Drop and Not Receive a Grade of "F"
May 9	Tuesday.....	Pre-Registration for Summer Quarter
May 11	Thursday	Orientation for New Students
May 19	Friday.....	Quarter Ends
May 19	Friday.....	Graduation

CALENDAR OF EVENTS

SUMMER QUARTER 1995

May 29	Monday.....	Registration
May 31	Wednesday	Classes Begin
May 31	Wednesday	Late Registration
June 9	Friday.....	Last Day to Drop and Receive $\frac{2}{3}$ Tuition Refund
July 4	Tuesday.....	Holiday (no classes)
July 27	Thursday	Last Day to Drop and Not Receive a Grade of "F"
August 8	Tuesday.....	Pre-Registration for Fall Quarter
August 10	Thursday	Orientation for New Students
August 17	Thursday	Quarter Ends
August 18	Friday.....	Graduation



MESSAGE FROM THE PRESIDENT

As you enter our doors and walk across our campus, you will see Cleveland Community College is an exciting and rewarding experience for students. Cleveland's high quality faculty is dedicated to creating a dynamic learning environment in which you can pursue your highest aspirations.

A student at Cleveland has the opportunity to:

- * Grow and develop as an individual
- * Complete demanding academic courses
- * Achieve your potential
- * Attend cultural and social events
- * Develop a life-long love of learning

Everyone at Cleveland is excited you have decided to pursue your education with us. We invite you to join with our faculty and staff in pursuit of educational excellence as you prepare for careers and leadership positions in the Twenty-first Century.

A handwritten signature in cursive script that reads "L. Steve Thornburg". The signature is written in dark ink on a light background.

L. Steve Thornburg, Ed.D.

HISTORY

The 1963 North Carolina General Assembly authorized a system of comprehensive community colleges, technical institutes, industrial education centers, and extension units to be established and placed under the jurisdiction of the State Board of Education.

The Cleveland Unit of Gaston College was established on July 1, 1965, as a result of the vision and effort of many individuals over several years. The Shelby Chamber of Commerce and the County Commissioners worked with the State Board of Education and Gaston College in establishing a unit of the college. Two buildings were rented by the County Commissioners at 118 North Morgan Street to start the school.

On July 11, 1965, James B. Petty was elected director of the Unit. The first classes began in September 1965, in the old Porter Brothers and McBrayer buildings. The number of classes and students has grown rapidly since that date.

On October 2, 1967, a local Board of Trustees was officially appointed and the Extension Unit became Cleveland County Technical Institute, a unit of the Department of Community Colleges of North Carolina.

In July 1969, the institute leased the County Home property at 137 South Post Road for a campus and moved to the new location.

Having secured a grant of \$500,000 from the Cleveland County Board of Commissioners and matched by a like amount from the State of North Carolina, architects were commissioned in 1972 to plan a long range building program on the present campus and the first two buildings for the new campus layout. The first two buildings were completed and placed in use for the Fall Quarter 1974.

In June 1977 the voters of Cleveland County approved a \$5,000,000 bond referendum to construct the next two phases of the long-range development plan for the campus.

Construction began in summer 1979 on these buildings to add approximately 100,000 additional square feet of permanent facilities including a new Learning Resources Center, classrooms, shops, laboratories, snack bar, bookstore, and offices. Shop additions were placed in use for Fall Quarter 1980. The main additional construction, known as the Campus Center Building, was placed in use in March 1981. Formal dedication was held October 18, 1981.

On March 3, 1980, the Cleveland County Board of Commissioners voted to concur with the request by the Board of Trustees for a name change of Cleveland County Technical Institute to Cleveland Technical College.

By action of the state legislature, effective July 1, 1987, the college was authorized to become Cleveland Community College and to offer

two-year college transfer programs. The first college transfer students were enrolled in the Fall Quarter 1987.

A Field House building was completed in July 1987 and became part of the college's physical education program.

Contracts were awarded in December 1987 for the construction of a new Student Activities Center building. This building was placed in use for Spring Quarter 1989. A Maintenance building was completed in August 1990. The James Broughton Petty Amphitheater was completed and dedicated April 24, 1991.

The founding president, Dr. James Petty, retired as President Emeritus on July 31, 1990. The College's second president, Dr. L. Steve Thornburg, assumed the presidency on August 1, 1990.

PURPOSE

Cleveland Community College is a two year public college whose purpose is to provide the adult citizens of Cleveland County with opportunities for personal growth and development. This purpose shall be pursued consistent with the philosophy of the "open door," which reflects the commitment of Cleveland Community College to help each student improve his or her education.

To fulfill this purpose the College will:

1. Provide courses in the arts and sciences that will lead to an associate degree transferable to other colleges and universities, fulfill related course requirements in certain occupational curricula or provide general educational enrichment.
2. Provide a variety of one-year vocational and two-year technical programs that reflect the changing needs of the business and industry in the local area.
3. Provide the opportunity for individuals to complete Adult Basic Education, High School Equivalency Programs, and General Educational Development Preparatory/Examination Program (GED).
4. Provide short term courses that will meet adult educational and community service needs.
5. Provide guidance and counseling services that can assist students to better understand themselves and their career options.
6. Provide cultural events and other enrichment activities to enhance the quality of life in Cleveland County and surrounding areas.

ACCREDITATION

Cleveland Community College is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools to

award associate degrees; The North Carolina State Board of Community Colleges; the American Medical Association for Radiologic Technology; The North Carolina State Board of Nursing for Licensed Practical Nursing; The North Carolina State Board of Nursing for Associate Degree Nursing.

VISITORS

Visitors need to receive permission from the switchboard receptionist prior to visiting classrooms, shops, or labs.

CHILDREN ON CAMPUS

Children under sixteen must be accompanied by an adult at all times. Children are not allowed in classrooms or in the gymnasium except for approved events.

NIGHT OFFERINGS

The College offers an extensive night program which includes most of the credit courses given in the daytime, as well as non-credit courses primarily for adult general interest or occupational upgrading or retraining.

The availability of credit courses at night allows the student who must work while attending school the opportunity to coordinate school activities with employment. A student may enroll for both day and night classes.

It is possible to complete all work toward a degree or diploma by attending at night. The rate of progress through a program will depend upon the number of courses taken each quarter. A reduced load will require a longer period to complete program requirements.

The College reserves the right to cancel any class, day or night, for which there is insufficient enrollment.

NOTICE OF COLLEGE REGULATIONS

The College has a genuine interest and concern for the integrity of all students; therefore all regulations found in this catalog, the student handbook, and announcements posted on bulletin boards will be followed by all students. Each student is responsible for becoming familiar with these publications and for reading official announcements in order to stay informed of current policies.

NON-DISCRIMINATION POLICY

From its founding Cleveland Community College's Board of Trustees and Staff have recognized the importance of equal opportunity in all phases of the College's operations and have adhered to a policy of non-discrimination on the basis of race, color, sex, age, religion, national origin, physical or mental disability, or other non-relevant factors. This policy continues to apply to both students and employees at all levels of the school's operations. Anyone who believes this policy has been violated may seek satisfaction through the Due Process procedures outlined in this catalog.

AMERICANS WITH DISABILITIES ACT

Cleveland Community College, in compliance with The Americans with Disabilities Act, does not discriminate and is dedicated to providing equal educational and employment opportunities for qualified adults. The College will make reasonable accommodations in its programs, services and facilities for disabled students and disabled employees who are otherwise qualified. Students with special needs should contact the Student Services Department for assistance.

CRIME AWARENESS/CAMPUS SECURITY ACT

Cleveland Community College, in compliance with The Crime Awareness/Campus Security Act, has developed policies and procedures on preventing and reporting on-and-off-campus crimes. Annually, the College widely distributes statistical data on reported criminal offenses in the Drug-Free and Crime Awareness Booklet. The Booklet is available in the Student Services Department.

SEXUAL HARASSMENT

The policy of Cleveland Community College, consistent with its effort to foster an environment of respect for the dignity and worth of all members of the college community, prohibits sexual harassment of students and employees of Cleveland Community College and views sexual harassment as unacceptable conduct which will not be tolerated. The policy, definition of, and complaint procedures can be found in the Cleveland Community College Policies and Procedures Manual and in the Student Handbook.

COLLEGE TRANSFER CREDIT

Areas of Study

Cleveland Community College offers students the opportunity to complete the first two years of various four-year college or university general education requirements. For example, students interested in the areas of study listed below can spend their first two-years at Cleveland Community College qualifying for an associate degree and generally transfer to a four-year institution with junior class standing. A partial listing of areas of study whose prerequisites and/or lower division requirements may be met, in part or in full, at Cleveland Community College follows:

BUSINESS

Accounting
Business Administration
Business Education
Computer Science

EDUCATION (Teaching)

Elementary
Secondary
Industrial Arts
Physical Education
Recreation
Health

ENGINEERING

Aerospace
Construction
Industrial
Chemical
Civil
Electrical
Electronics
Environmental
Mechanical
Nuclear

ENGLISH

English
Journalism

HUMANITIES

Art
Liberal Arts
Literature
Religion
Philosophy

MATHEMATICS

Mathematics
Computer Science
Statistics

MEDICAL RELATED

Dentistry
Medicine
Medical Technology
Nursing
Optometry
Physical Therapy
Pharmacy
Veterinary Medicine

NATURAL SCIENCE

Agriculture
Biology
Biochemistry
Conservation and Ecology
Forestry
Microbiology
Physical Science
Physics
Textiles

SOCIAL SCIENCES

Economics
History
Law
Political Science
Psychology
Social Work
Sociology

CURRICULUM PROGRAMS OF STUDY

COLLEGE TRANSFER (Degree Programs)

ASSOCIATE IN ARTS DEGREE

- Pre-Business
- Pre-Education: Early Childhood/Elementary
- Pre-Education: Intermediate/Secondary
- Pre-Liberal Arts

ASSOCIATE IN SCIENCE DEGREE

- Pre-Science

ASSOCIATE IN GENERAL EDUCATION DEGREE

TECHNICAL (Degree Programs)

ASSOCIATE IN APPLIED SCIENCE DEGREE

- Accounting
- Administrative Office Technology
- Associate Degree Nursing (RN)
- Business Administration
- Communications Technology
- Criminal Justice
- Electronics Engineering Technology
- Fashion Merchandising and Marketing
- General Office
- Industrial Management
- Medical Office Technology
- Microcomputer Systems Technology
- Radiologic Technology
- Real Estate (Technical Specialty)

VOCATIONAL (Diploma Programs)

- Air Conditioning, Heating and Refrigeration
- Auto Body Repair
- Auto Mechanics
- Cosmetology (Certificate)
- Electrical Installation
- Food Service Specialist (Prison Program Only)
- Industrial Maintenance
- Machinist
- Plumbing and Pipefitting (Prison Program Only)
- Practical Nurse Education
- Residential Carpentry (Prison Program Only)
- Welding

(The College reserves the right to cancel any class or curriculum, day or night, for which there is insufficient enrollment.)

ADMISSIONS

ADMISSIONS INFORMATION

POLICY AND PROCEDURES

Cleveland Community College operates under an "open door" admissions policy to offer college transfer, occupational and adult education to all persons who are able to profit from instruction. Placement of students in the various programs of instruction includes a special emphasis on career guidance and individual admissions counseling. The objective is to assist the student in establishing realistic goals to assure reasonable success in the particular program of instruction the student desires to pursue.

As part of the admissions process for curriculum students, placement tests may be required. Transcripts of previous education are required, and a personal interview is recommended with each student.

Application for admission forms and detailed information on programs of instruction offered may be secured by writing to: Student Services Office, Cleveland Community College, 137 South Post Road, Shelby, North Carolina 28150 or by calling (704) 484-4099.

ADMISSIONS REQUIREMENTS FOR ALL CURRICULUM PROGRAMS

1. Be at least eighteen years of age, or the applicant's high school class must have graduated. Dual enrollment is allowed for high school students with quarterly permission of the high school principal.
2. High School graduation or its equivalent **is** required for the Practical Nursing curriculum and the Associate in Arts, Associate in Science, Associate in General Education and Associate in Applied Science degree curriculums.
3. High School graduation or its equivalent is not required for vocational-diploma curriculums or certificate programs.
4. **All** students enrolling in a curriculum program must have their high schools send an official transcript (showing graduation date or highest grade completed), or must present an official GED score of 225 or above, or a state-issued GED certificate.
5. Applicants who are applying to the Associate in Arts, Associate in Science, Associate in General Education, and the Associate in Applied Science degree programs must pass placement tests in English, mathematics, and reading.

Exceptions:

- a. Allied Health applicants must follow separate, previously-established qualitative and quantitative admission requirements. These applicants are required to meet the academic and technical standards of the Allied Health curriculums.
- b. Applicants (excluding Allied Health) who have scored 400 on the verbal section of the SAT are not required to take the English or reading placement test. Applicants who have scored 400 on the mathematics section of the SAT are not required to take the mathematics placement test.
- c. Applicants (excluding Allied Health) who have scored 17 on the American College Test are not required to take any placement test.
- d. Applicants (excluding Allied Health) who have earned at an accredited college or university at least 12 quarter hours or 9 semester hours of collegiate-level course work with at least a grade of "C" on each course are not required to take placement tests.
- e. Applicants who transfer in a college-level mathematics course with a "C" or better are not required to take the math placement test. Applicants who transfer in a college-level English course with a "C" or better are not required to take the English or reading placement tests.
- f. Applicants (excluding Allied Health) who have successfully completed developmental mathematics, English, or reading courses at an accredited college or university are not required to take Cleveland Community College's placement tests or complete the developmental course(s).
- g. Special credit students (those who are not pursuing a degree or vocational diploma) are not required to take placement tests. Some courses do, however, require pre-requisites.

If the applicant does not pass the appropriate placement test(s) or meet exceptions as stated above, the applicant must enroll in and successfully complete the College's developmental course(s).

6. On acceptance, a complete physical and dental examination is required for Practical Nurse Education and Associate Degree Nursing (RN) applicants. A complete physical examination is required for Radiologic Technology applicants.

7. Applicants to Allied Health programs must have a personal interview with an admissions office representative and a faculty member after PSB testing.
8. Personal references are required for Allied Health programs.
9. The College reserves the right to refuse admission to a student if it appears that such action is in the best interest of the College and/or the student. Any student so refused may appeal this action through Due Process.
10. Specific procedures for admission to continuing education programs will be found under that section of this catalog.

ADMISSION PROCEDURE FOR ALL CURRICULUM PROGRAMS

1. Submit completed application form. Social Security number is voluntary and is used for record-keeping purposes.
2. Applicants are strongly encouraged to request a counseling interview in Student Services. The interview is required for Allied Health applicants after PSB testing.
3. Have official transcripts of **all** previous education (high school/ GED and college) mailed to the College prior to the completion of the first quarter. The applicant who is not pursuing a diploma or degree does not have to have transcripts sent unless the transcript is needed to prove that course prerequisites have been satisfied.
4. Degree-seeking applicants must take placement tests in English, math and reading or must satisfy the exceptions stated in the Admissions Criteria.
5. Receive a letter of acceptance from the Director of Admissions prior to the end of the student's first quarter. Allied health applicants must be accepted **prior** to Fall Quarter registration.

PROVISIONAL ACCEPTANCE

Applicants for admission who have not submitted high school transcripts and/or GED scores and college transcripts before the beginning of the quarter for which entry is desired are granted provisional acceptance for one academic quarter. All admission requirements must be met within that quarter in order to be eligible to register for the following quarter. There is no provisional acceptance available for Allied Health applicants.

SPECIAL CREDIT CLASSIFICATIONS

Special credit students are those who are enrolled for course credit but not in a curriculum leading to the diploma or the associate degree. Students enrolled in this status will normally be required to meet the prerequisites for the course or to demonstrate a necessary level of

competence although they do not have to meet the admission requirements for curriculum programs.

AUDIT STUDENTS

A student may elect to audit a course or courses. Those auditing receive no credit and do not have to take any examinations; otherwise, participation in class is on the same basis as a credit student. The fee for auditing is the same as the fee for credit. With the proper notification to Student Services and to the appropriate instructor, a student may change a course classification from credit to audit until the last three weeks of the quarter in which he/she is enrolled in the course. Students may change from audit to credit classification for an enrolled course during the add period only.

WITHDRAWAL

Students desiring withdrawal from the College should contact the Office of Student Services to complete necessary forms and procedures for official withdrawal. Withdrawal with a grade W will be allowed except during the final three weeks of a quarter. After that point a grade of F will be assigned.

READMISSION

Any student who officially withdraws from the College and later wishes readmission should contact the Student Services office. Readmission conditions will depend upon the individual circumstances, but generally a student is eligible to return at such time as an appropriate course schedule can be worked out. Students who wish to reapply to an Allied Health program must see the Director of Admissions. Students who qualify may be readmitted to the Practical Nurse or the Associate Degree Nursing program only once.

A former student will not be readmitted until all former and current expense obligations to any program or activity under the administrative jurisdiction of the College have been satisfied.

Students who have been academically suspended may enroll again after a one-quarter absence.

Any student who is financially indebted to the College by failure to completely meet any outstanding debt such as the following: bad check, tuition, bookstore, library, activity, graduation, parking fines, or any required payment to the College will not be eligible for readmission nor acquire any transcript until such indebtedness is completely cleared.

TRANSFER CREDIT TO CLEVELAND COMMUNITY COLLEGE

Cleveland Community College permits admission with transfer credit for students from member institutions of the North Carolina Department of Community Colleges and other accredited institutions.*

Students must have official transcripts sent to Cleveland for evaluation prior to the end of the first quarter in which they are enrolled. Courses accepted for transfer credit must closely parallel those for which credit is sought at the College. Evaluation is made by the Registrar and appropriate academic Department Head as needed. Quality points do not transfer. Credit is given to courses in which a C or better was made. Transfer hours earned are converted from semester hours to quarter hours as necessary.

For degree completion in associate degree programs, at least 23 quarter hours must be earned at Cleveland. For a vocational diploma or certificate completion, at least 12 quarter hours must be earned at Cleveland.

*Provided the transfer student was not suspended from the last institution attended for behavioral problems.

NOTIFICATION OF TRANSFER CREDIT

All transfer students will receive, prior to the completion of their first quarter, an "Evaluation of Transfer Credit" form denoting hours and courses accepted for transfer credit.

CLEP

Credit may be allowed for up to 31 quarter hours of college work based on appropriate scores on the CLEP General Examinations when appropriate to the student's program of study. CLEP subject examinations are evaluated individually if appropriate to the program of study.

MILITARY EXPERIENCE

Military training and experience may earn quarter hour credit as determined by the Registrar and appropriate department head or lead instructor. Course credit will be given if the learning experience or training closely resembles the student's program of study.

SERVICEMEMBERS OPPORTUNITY COLLEGES

Cleveland Community College has been designated as a member of the Servicemembers Opportunity Colleges (SOC) General Registry – a network of institutions sponsored by the American Association of State Colleges and Universities and the American Association of Community and Junior Colleges. Servicemembers are encouraged to take college level courses offered by accredited institutions and made available to military personnel through SOC. Records are evaluated, files are retained, counseling is provided, and recognition is given for learning through noninstitutional sources when appropriate. Transcripts

must be sent to the Director of Admissions directly from the institution offering the course.

TRANSFER OF CREDIT FROM A.A. AND A.S. DEGREE PROGRAMS TO OTHER COLLEGES AND UNIVERSITIES

A student who desires to transfer course work from Cleveland Community College's A.A. and A.S. degree programs to a four-year college or university should contact a transfer counselor in Student Services. The counselor will assist the student in the transfer process. Four-year college and university academic bulletins and transfer agreements are on file in Student Services.

TRANSFER CREDIT TO OTHER COLLEGES FROM TECHNICAL AND GENERAL EDUCATION PROGRAMS

Even though the technical degree programs are not planned as transfer programs, an increasing number of schools and colleges are accepting, for credit toward the bachelor's degree, course completed in a technical program or in the general education program at Cleveland Community College. Most of these colleges consider each applicant and his/her record individually, and the courses for which credit is sought must be similar to the course(s) offered by that institution. Some colleges give credit on the basis of examinations. Many colleges give full credit for the Associate in Applied Science degree or Associate in General Education degree toward a Bachelor of Arts, Bachelor of Science, or Bachelor of Technology.

For those students who desire to continue their education after graduation from Cleveland Community College, there are expanding opportunities to do so.

Some colleges will consider some transfer courses on an individual evaluation basis. Any student interested in pursuing that possibility should talk with the department chairman of the planned major field at the particular college to which transfer is desired.

TRANSFER RESPONSIBILITY

The College will cooperate with each student in planning a transfer program. However, it is the responsibility of the student to determine what courses and credit will transfer to the receiving institution.

The acceptance of courses taken at Cleveland Community College is determined solely by the institution to which the student transfers.

The student planning to transfer will have less difficulty if he/she will follow these steps:

1. Decide early which senior college to attend. Contact the college/university for recommendations concerning appropriate courses.
2. Obtain a current copy of the catalog of that college and study its entrance requirements and general education courses.
3. Confer with a transcript counselor in Student Services and with your academic advisor.
4. Complete a transcript release form in Student Services.

Changes in the student's major field of study or in the choice of a senior institution may result in transfer problems. Such changes should be made only after careful consultation with an advisor and Student Services counselor.

TRANSFER OF CREDIT WITHIN CLEVELAND COMMUNITY COLLEGE

Credit earned in any institutional degree program may be credited toward another degree or diploma program upon evaluation by the Director of Admissions. Credits earned in a diploma program are not usually acceptable to an associate degree program but may be credited toward a second diploma major. If graduation requirements change during the time a student is enrolled, the student may elect to satisfy the requirements in effect at the time of the original enrollment or the new requirements.

Any student who is currently enrolled or has graduated from a curriculum program of the College and wishes to transfer to another curriculum program must follow these procedures:

1. Go to Student Services and update his/her application on file, stating the new curriculum and quarter of entrance.
2. Meet the admission requirements for the desired program as stated in the College catalog.

Applicants will receive notification of admission by letter from the Director of Admissions along with an "Evaluation of Transfer Credit" form denoting hours for which credit will be given.

REGISTRATION

At registration, students will be assigned class schedules, pay fees, and purchase books. Each student is expected to register and begin classes on schedule. A student is not registered and cannot attend classes until tuition and fees are paid in the Business Office.

ACADEMIC REGULATIONS

DROP-ADD PERIOD

Students may add courses and change their class schedules during the late registration period. Students may drop courses until the last three weeks of a quarter. If a student drops a course within the last three weeks of a quarter, he/she will receive a grade of (F) on the transcript.

All students must complete forms in Student Services to drop or add a course or change a class schedule.

GRADING SYSTEM

Grading the performance of students in course work is the responsibility of individual faculty members.

At the end of each quarter students will be evaluated in each course as follows:

Letter Grade	Numerical Grade	Explanation	Quality Points
A	93-100	Excellent	4 points per qtr./hr.
B	85-92	Good	3 points per qtr./hr.
C	77-84	Average	2 points per qtr./hr.
D	70-76	Below Average	1 point per qtr./hr.
F	Below 70	(No Credit) Non-Completion of course requirements	0 point per qtr./hr.
I	Work not Completed	Requirements must be completed in next quarter.	0 point per qtr./hr.
W		Official Withdrawal	0 point per qtr./hr.
CE		Credit by Exam	0 point per qtr./hr.
AU		Audit	0 point per qtr./hr.
S	Satisfactory (developmental course only) No Credit	0 point per qtr./hr.	
U	Unsatisfactory (developmental courses only) No Credit	0 point per qtr./hr.	

Any student who receives an I may request to negotiate a written contract with the instructor involved. Contracts negotiated between the student and the instructor will specify a definite completion date for the requirements in addition to the types of activities set forth by the instructor to help the student achieve the minimum objectives of the course. If the student does not complete the minimum objectives in the time negotiated in the contract, the student will be dropped from

the course and (F) will be entered on the record. Upon completion of the contract in the specified time the instructor will notify the registrar to change the I to a letter grade. The contract completion date must be within the quarter following receipt of the I.

QUALITY POINT AVERAGE

The QPA is the most important example of a student's academic progress. The computation of a QPA is shown below as an example to simplify the average. It is determined by dividing the total number of quality points earned by the total number of quarter hours attempted, excluding I, W, CE, S, U, and AU grades. The cumulative QPA is based on all grades while a student is enrolled in a curriculum. The current QPA is an indication of one quarter of work in a curriculum.

EXAMPLE OF COMPUTING THE QPA

Course	Grade	Hrs. Attempted	QP per Credit		Grade Points
			=	Hour	Earned
BUS 101	A	4	=	x4	16
BUS 115	B	4	=	x3	12
CAS 101	C	4	=	x2	8
BIO 101	D	4	=	x1	4
		<u>16</u>			<u>40</u>

$$\frac{\text{Quality Points}}{\text{Hours Attempted}} = \text{QPA} = \frac{40}{16} = 2.50$$

QUARTERLY DEAN'S AND PRESIDENT'S LIST

Students who receive a 4.0 grade point average at the end of the quarter and are enrolled full-time will be on the President's List for that quarter. Students who receive a 3.5 to 3.99 grade point average at the end of the quarter and are enrolled full-time will be on the Dean's List for that quarter.

CLASS ATTENDANCE POLICY

Absences are a serious deterrent to good scholarship; it is impossible to receive instruction, obtain knowledge or gain skill when absent. Although there are numerous reasons for absences such as personal illness, death in the family, work conflicts, or unexpected emergencies, all absences will be counted in the 20% maximum. A student, who, during a quarter, incurs in any course an absence in excess of twenty per cent (20%) of the class hours, for that course may be dropped from the course (without credit).

Absences may be considered legitimate and eligible for make-up at the discretion of the instructor. The student is responsible for seeing the instructor, giving the reason for the absences, and requesting

make-up assignment. This is to include students on rotating shift work schedules.

An instructor may refuse admission to class to any student who arrives more than ten minutes late to a class. One-half day's absence will be counted if a student leaves thirty minutes or more early.

The student may appeal any decision under these policies to the Due Process Committee.

ACADEMIC PROGRESS

The following cumulative grade point averages are the minimums which must be attained in order for a student to make reasonable progress toward graduation. A 2.00 grade average is required for graduation.

ASSOCIATE DEGREE PROGRAMS

Cumulative Quarter Hours	Minimum Grade Point Average
0-24	1.20
25-48	1.40
49-72	1.60
73-96	1.80
	(2.00 for A.A., A.S., or A.G.E. Degree)
97 or more	2.00

VOCATIONAL DIPLOMA/CERTIFICATE PROGRAMS

0-18	1.25
19-36	1.50
37-54	1.75
55 or more	2.00

Any student who falls below the specified minimum at the end of any quarter will be placed on academic probation for the following quarter.* To be removed from probation the student must attain the appropriate minimum grade point average by the end of the probation quarter; otherwise, the student will be suspended from that program for at least one quarter.

Re-entry in cases of suspended students is handled on an individual basis. Suspended students should contact the Director of Admissions prior to re-enrolling.

*In the Radiologic Technology program, every major specialty course must be passed each quarter before the student can enroll for the following quarter. In the ADN (Registered Nursing) and Practical Nursing programs, a grade of C must be made on every major specialty course each quarter before the student can enroll for the following quarter. Students in these programs who are academically ineligible to enroll for the following quarter may reapply for admission. ADN and Practical nursing students may be re-accepted only once. ADN students must earn a minimum grade of C on all Biology courses.

The privilege of appeal is provided to the suspended student. The student is required to write a letter to the Due Process Committee explaining the appeal and must appear before the Committee in person should the Committee so desire. The appeal may be carried to the Board of Trustees at the student's request.

COURSE REPEAT REGULATIONS

A curriculum course may not be repeated if the student received a grade higher than a D. If a D or F was received, the student may repeat the course one time. A student may audit a course in which a passing grade was received. A course may not be audited more than twice. Any exception must be approved by the appropriate department head.

COURSE SUBSTITUTIONS

Courses may be substituted with approval of the advisor, dean, or registrar.

CREDIT HOURS, CONTACT HOURS, AND COURSE LOAD

Each course listed is followed by a notation on the number of quarter hours credit it carries. Normally, the number of quarter hours earned is based on the number of class, laboratory or shop hours spent under the supervision of the course instructor per week for the quarter.

Usually one (1) quarter hour credit is given for each hour of class per week, for each two hours of laboratory work per week, or for each three hours of manipulative laboratory or shop per week.

Contact hours are the number of actual clock hours a student is in attendance during one week.

Students enrolled for 12 or more credit hours are classified as full-time students. Students enrolled in less than 12 credit hours are classified as part-time.

Course load for veterans benefits is as follows: (1) for diploma vocational programs: full-time attendance equals 22 or more contact hours per week; $\frac{3}{4}$ times attendance equals 16-21 contact hours per week; $\frac{1}{2}$ time attendance equals 11-15 contact hours per week; (2) for degree programs: full-time attendance equals 12 or more credit hours per quarter; $\frac{3}{4}$ time attendance equals 9-11 credit hours per quarter, $\frac{1}{2}$ time attendance equals 6-8 credit hours per quarter. (For less than $\frac{1}{2}$ time attendance in any program the VA does not pay a monthly allowance but will only pay the actual cost of tuition.)

ADVANCED PLACEMENT

Students who have taken advanced placement courses in high school and have made satisfactory scores on the College Board Advanced Placement Examination may receive credit for comparable

courses at Cleveland Community College. Students who wish to receive credit for advanced placement courses should contact the Registrar.

CREDIT BY PROFICIENCY EXAMINATION

A student may be allowed credit toward graduation for past schooling, work, or military experience through proficiency examinations. The student should confer with the appropriate Department Head for qualifications for these provisions and to be informed of the procedure to follow.

A grade symbol of CE (credit by examination) will be awarded for courses for which credit is given on the basis of proficiency examination. The course hours for such courses posted as CE will be computed toward graduation requirements but not for the computation of Honors, nor for computation of overall QPA.

CREDIT FOR EXPERIENTIAL LEARNING

Cleveland Community College endorses the concept of credit for experiential learning in recognition of valid learning experiences. Departments awarding credit will relate learning experiences to areas which are applicable to the degree/diploma program being completed. Credit is not extended automatically.

To receive credit for experiential learning, a student must submit a written request to the appropriate Dean. The Dean will ask the student to prepare a written report of experiences learned, to submit proof that the experiences did occur, to demonstrate by exam (if requested) skills learned. The Dean, in consultation with the Registrar/Director of Admissions, will grant full credit for a comparable course(s).

The student will receive hours earned on his official transcript - but no grade. The hours will be computed towards graduation requirements but not for the computation of honors nor the overall GPA. There is no charge for receiving this credit.

GRADUATION HONORS

To graduate with High Honors a student must earn a QPA of 3.8—4.0 in courses presented for graduation. To graduate with Honors a student must earn a QPA of 3.5—3.79 in all courses presented for graduation. To qualify for either honor, a student must not have received any grade lower than a C in the program being completed. If a student made a D or F in a course that was later repeated, the student is disqualified from graduating with honors.

OUTSTANDING STUDENT AWARDS

These awards are made to graduating students who have distinguished themselves by being most outstanding in terms of scholastic achievement, performance and maturity of purpose during the program of instruction at the College. Students may be recognized for each diploma and degree program.

REQUIREMENTS FOR GRADUATION

The following are established as minimum requirements for graduation from curriculum programs.

1. Complete course requirements outlined by the curriculum pursued, and earn at least a 2.0 QPA in courses presented for graduation.
2. Complete not less than 96 credit hours for the Associate in Arts, Associate in Science, or Associate in General Education degree, 105-154 credit hours for the Associate in Applied Science degree, 66-79 credit hours for a vocational diploma.
3. Meet with assigned faculty advisor no later than the third (3rd) week of the quarter in which graduation requirements are expected to be completed and complete a graduation checklist which is to be submitted to the Registrar. The Registrar will make a complete check of the student's record and either notify the student that everything **is** in order or notify the student's academic advisor everything is **not** in order.
4. A graduation fee is to be paid by the student before receiving cap, gown, or diploma.
5. Fulfill all financial obligations to the College and secure clearance from the Library.
6. Be present for graduation exercises. Exceptions to this requirement, in case of unavoidable absences, may only be granted by the Vice President for Student Services.
7. All prospective graduates from associate degree programs must complete at least 23 quarter hours at the College before graduation. Vocational and certificate graduates must complete at least 12 hours at the College before graduation.

STUDENT SERVICES

The *purpose* of the Student Services department at Cleveland Community College is to support the instructional programs, support instructional development, and to promote student development (academic, social, moral, physical) by offering a program of appropriate services for students from pre-admission to successful job placement or college transfer. In response to the needs of students, the Student Services department offers assistance to students as they develop self-direction in defining their educational, vocational and personal goals; in solving problems; and reaching their goals.

The basic *objectives* of the Student Services department at Cleveland Community College are built upon the stated purpose and goals of the College and upon the stated purpose of the department and the "open door" philosophy of The North Carolina Community College System.

1. To interpret the College's objectives, opportunities, and policies to prospective and enrolled students.
2. To assist in the implementation of the "open door" philosophy and its policies.
3. To assist the students in selecting, entering, progressing, and completing a program of study.
4. To provide a professional, competent, counseling program to assist students with academic, vocational, personal, social and economic problems.
5. To record, maintain, and make available to proper persons information regarding students.
6. To provide, develop, encourage, and evaluate student activities.
7. To encourage and assist in suitable job placement for currently-enrolled students, and all former students. Employers are invited to become involved.
8. To promote and encourage programs related to health, safety, social and physical welfare of students.
9. To provide for the continuous evaluation and improvement of all Student Services.
10. To support the stated purpose of the College.
11. To provide adequate programs of student financial aid, and veterans' affairs.
12. To provide counseling for college transfer students.

13. To respond to the needs and welfare of students.
14. To establish meaningful associations among students, faculty and the administration and provide opportunities for the development of individual potential.
15. To seek qualified personnel with appropriate educational backgrounds and experiences to staff the department.
16. To establish a comprehensive organizational framework to administer all the functions of the Student Services department.
17. To provide opportunity and incentive for staff professional development, including in-service training, professional associations, and meetings.
18. To establish, within the total administrative framework, specific procedures for protecting students' rights and records.
19. To provide the following student services' functions to best support and contribute to the total student personnel program (recruitment, admissions, orientation, career guidance and counseling, academic placement testing, academic/personal counseling, financial aid and veterans' affairs, alumni activities, health information, extra-curricular activities, foreign students advising, handicapped student assistance, job placement, maintenance and security of student records, and student follow-up/tracking information.)

GENERAL INFORMATION

Student Services is generally open from 8:00 AM to 8:00 PM Monday through Thursday and from 8:00 AM to 4:00 PM on Fridays. Services are offered to all day and night, part-time and full-time students. A full program of student activities is offered. All students (including those off-campus) are encouraged to participate in all appropriate services. Services provided are listed above.

STUDENT'S ROLE AND PARTICIPATION IN INSTITUTIONAL DECISION-MAKING

All students are members of the Student Government Association. The president of the Student Government Association represents the student body on the Board of Trustees of the College as a non-voting member. The Student Government Association president is encouraged to offer comments and suggestions to the Board on institutional decision making. The Student Government Association president is also a member of the College Admissions Committee.

Students are also represented on other College committees, organizations, and clubs, such as:

- Due Process Committee
- Financial Aid Committee
- Library Advisory Committee
- Student Clubs

PERSONAL COUNSELING AND ACADEMIC ADVISING

Counselors are available in Student Services to assist all students with educational and vocational problems and concerns. Students are assigned academic advisors to assist in planning academic programs and in developing the course schedule each quarter. Students in need of personal counseling will be referred to appropriate agencies.

ACADEMIC PLACEMENT TESTING AND CAREER GUIDANCE/COUNSELING

In the Career Center, testing and guidance services are available for students, former students and the public at no charge to aid them in determining special interests and abilities that may be necessary for various careers. Users of the Center may take written assessment surveys or use a computer to help them decide which career to pursue.

Users of the Center may also take academic placement tests to help determine appropriate beginning courses in math, English, and reading. All tests and computer usage are scheduled through the Student Services department.

THE OFFICIAL ACADEMIC RECORD (TRANSCRIPT)

A transcript of grades earned each quarter is produced at the end of each quarter. A student may be placed on probation or suspended from a program of study for unsatisfactory work (as explained in the section on Academic Progress).

An official record of all the student's courses, credits, grades, current and cumulative Grade Point Average (transcript) is kept in the vault in the Department of Student Services. The student should occasionally review the transcript in Student Services. The record may also help determine eligibility for any club activity or club membership that requires specific scholastic standards. Copies of the official record are available to the student upon written request — at no charge.

Records of Progress are kept by Cleveland Community College on all students—including veterans. Progress records are furnished to students (including veterans) at the end of each quarter.

POLICY ON RETENTION AND DISPOSAL OF CURRICULUM RECORDS

The retention and disposal of students' records at Cleveland Community College complies with the General Statutes of North Carolina as well as the North Carolina Community College System guidelines. Official transcripts are secured and kept permanently on file in Student Services in addition to computerized back-up. Other materials such as registration forms, high school and college transcripts are destroyed after five years.

RELEASE OF INFORMATION FROM OFFICIAL STUDENT RECORDS

The College recognizes the responsibility for maintaining records for each student to preserve authentic evidence of the events and actions that are important and can contribute to the efforts to educate the student and to facilitate the achievement of the educational goals of the College. The following general principles and procedures govern the release of information from student official records:

1. Written consent from the student is required before a transcript or information may be released from the official, academic record. Exceptions are:
 - a. The Registrar may release information from official records including reports of academic directory information from student records which include the following: student's name, address, telephone number, date and place of birth, major field of study, participation in officially recognized activities and sports, dates of enrollment, degrees and awards received, and the most recent previous educational agency or institution attended by the student.
 - b. The Registrar may release information pertaining to honor achievements for publications.
2. A hold may be applied to the release of a transcript or other information requested from an official record, for a student who has an overdue indebtedness to the College. Such a student continues to have the right to see the official record upon request.
3. The use and release of information from student official records will be determined as outlined above and in compliance with state and federal legislation relating to such records. Action in situations that may not have been anticipated and/or defined above will at all times be based upon the best knowledge available to the professional staff of the College.

JOB PLACEMENT

Cleveland Community College maintains a placement service to help interested students and alumni find employment. The job placement office works with students individually in meeting their employment needs, whether it is full-time or part-time. Those students or alumni seeking employment should complete an application with the Job Placement Office in Student Services. Employers are regularly contacted to participate in Cleveland Community College's Job Placement opportunities.

STUDENT HOUSING

The College does not have dormitory accommodations available. Any student who needs to locate housing in Shelby should contact the local Chamber of Commerce who will provide a list of local realtors, a local map and other newcomer information.

ORIENTATION

All part-time and full-time new students and families are strongly encouraged to participate in a free orientation program in order to promote adjustment to the educational programs and services of the College. Orientation sessions are held quarterly for day and evening students prior to the beginning of the quarter.

THE CAREER DEVELOPMENT CENTER

Cleveland Community College maintains a career center to assist students, alumni, and the public with career needs such as choosing a suitable career, changing occupations, or finding a job. The Career Center utilizes CHOICES-CT Computer software and other written aptitude and interest surveys and materials at *no cost* to students, alumni, employers and the public. Contact the Director of Career Development in Student Services.

POLICIES ON THE USE OF CLEVELAND COMMUNITY COLLEGE'S CAREER DEVELOPMENT CENTER

1. All former and current Cleveland Community College students (degree and non-degree) may use the Career Development Center.
2. All employers and residents of Cleveland County may use the Career Development Center.
3. There is no charge to use the Career Development Center's services and materials.
4. Interested Career Development Center users should contact the Student Services Department at Cleveland Community College to schedule its use. Appointments are strongly recommended.

ALUMNI ASSOCIATION

Each Cleveland Community College student receiving a diploma or degree is considered a member of the Alumni Association. The aim of the association is to keep former students informed of and involved in the College's growth, activities, and services. Alumni are encouraged to take advantage of job placement services. The Director of Student Activities is sponsor for the Alumni Association Committee.

STUDENT HEALTH

The College does not provide medical, hospital, or surgical services nor does the College assume responsibility for injuries incurred by students when taking part in intramural sports, class or student activities. Medical services are available at the emergency room of Cleveland Memorial Hospital. A doctor is on duty 24 hours a day in the emergency room. A first-aid kit is available at the visitor reception area. Student Services department provides programs on health education to interested students and staff. The College certifies and promotes a drug-free workplace and adheres to a communicable disease policy. Smoking is *not allowed* in any campus building.

DRUG-FREE WORKPLACE POLICY

Cleveland Community College, in compliance with the Omnibus Drug Initiative Act of 1988 (Public Law 100-690) and The Drug-Free Schools and Communities Act Amendments of 1989 (Public Law 101-226) certifies that the agency has adopted and implemented a program to prevent the unlawful possession, use, or distribution of illicit drugs and alcohol by students and employees. The College will:

1. Annually distribute, in writing, to each student and employee, standards of conduct that clearly prohibit the unlawful possession, use or distribution of illicit drugs and alcohol on campus property or as part of any campus activity.
2. Establish a drug-free awareness program to alert employees and students to the dangers of drug and alcohol abuse and make them aware of available drug counseling programs.
3. Require employees who know of a fellow worker's on-the-job use of drugs or alcohol to notify the employer.
4. Impose sanctions or require rehabilitation of an employee or student who is convicted of campus or workplace-based drug or alcohol abuse.

Cleveland Community College, in conjunction with CODAP (Community Organization for Drug Abuse Prevention), is engaged in a continuing campaign against substance abuse. A long-standing relationship between the college and CODAP facilitates the flow of information and referral. The program includes educational seminars and public awareness events.

Communications methods include:

1. Annual written notification
2. Information at orientation of new students
3. Emphasis during convocations
4. Classroom units in appropriate courses
5. Drug Awareness Days

Public access Cable Channel 22 provides TV coverage of in-house as well as community material to support the drug abuse prevention and drug-free workplace programs at Cleveland Community College (i.e., public service announcements, teleconferences).

COMMUNICABLE DISEASE POLICY

Policies regarding communicable diseases at Cleveland Community College are as follows:

Persons infected with a communicable disease will not be excluded from enrollment or restricted in their access to college services or facilities unless medically-based judgments in individual cases establish that exclusion or restriction is necessary to the health and safety of the individual or to the health and safety of other members of the College community.

Any student, College employee (either full-time or part-time) and any employee of contractors or contracted services who knows or has reasonable basis for believing that he or she is infected with a communicable disease has the responsibility of reporting this fact, on a confidential basis, to the appropriate dean or vice president.

Persons who know or have reasonable basis for believing that they are infected with a communicable disease are expected to seek expert advice about their health circumstances and are obligated ethically and legally to conduct themselves responsibly in accordance with such knowledge for the protection of other members of the community.

STUDENT ACTIVITIES

Cleveland Community College is interested in developing students to their fullest potential. The College strives to offer the utmost in academics as well as social, cultural and physical activities to help build a well-rounded person. Student activities offer every student an opportunity to make new friends and to help the academic community at large. All student activities are assisted and supported by the Student Government Association.

A number of clubs have been organized, and faculty and staff serve as advisors. No student will be excluded from membership in an organization because of race, creed, religion, sex, age, color, disability, or national origin. Dances and other special activities such as "Spring

Fest, Beach Blast, Fall Fling, Halloween Contest, Receptions, Intramural Softball Games, Intramural Volleyball and Basketball games” are sponsored periodically by the SGA for the enjoyment of all Cleveland Community College students. Students interested in forming new organizations should consult the SGA President and Director of Student Activities for assistance.

The Director of Student Activities is responsible for supervising the student activities program. Initial requests and plans come from the student body through the Student Government Association. Every effort is made, within the limited scope of financing and facilities, to conduct a comprehensive program of activities. Clubs and organizations are free to operate their organizations as they choose within the legal framework of college rules, and local and state laws. The SGA budget must be approved by the SGA President and college administration.

ATHLETICS AND SPORTS

Intramural sports are encouraged and provided for students by the College. These include basketball, softball, volleyball, tennis, chess, checkers, and horseshoes. The College *does not* participate in inter-collegiate sports.

STUDENT PUBLICATIONS

Cleveland Community College encourages students to participate in the production of student publications. The College supports the student’s right to express himself/herself through journalist endeavors which can contribute to an atmosphere of responsible discussion. Roles of student publications are to allow for student expression regarding the College — its mission, policies, programs, services, faculty, staff, facilities, student activities and events — and to keep students abreast of current events, rules, regulations, and to produce a magazine that accurately depicts the College.

1. *Student Handbook* - The Student Handbook is published annually by the Student Services department under the direction of the Director of Student Activities. The Handbook is distributed at orientations, registrations, and is available in Student Services at any time. The Handbook, in addition to the College catalog, serves as a student’s guideline to College rules and regulations, services, College personnel, and student behavior (which covers student rights and responsibilities, code of conduct, jurisdiction of judicial bodies, disciplinary responsibilities of College officials, and disciplinary procedures, and appeal.

2. *Campus Connection* - The student magazine which is published twice a year. This publication is student driven through the SGA and under the supervision of the College photographer and the Director of Student Activities. The magazine keeps everyone up to date on student activities, College events and personnel.

STUDENT CLUBS

Student clubs may be organized with the approval of the SGA and the Vice President for Student Services. These may be related to the vocational goals of the students, or may serve as civic organizations or special interest areas of the students.

Image Makers is a club organized to encourage student and staff interest in photography.

LeClub de Espirit is comprised of students within the Fashion Merchandising and Marketing Curriculum.

Gamma Beta Phi Honor Society is a national honor and service organization which emphasizes service, character, and scholarship. Memberships, based on a 3.50 grade point average and completion of 15 quarter hours, are extended twice a year.

Phi Beta Lambda is a national organization for students in the business curriculums. The purpose of PBL is to develop vocational competencies for business occupations.

Slightly Off Center Stage Players is made up of those students interested in dramatic productions.

Black Awareness Club promotes knowledge and appreciation of black history.

Criminal Justice Club promotes a better understanding of the criminal justice system through service and education and bridges the gap between the community and the system.

Media in Motion Club fosters interest and enthusiasm in the field of Communications Technology by providing professional and educational activities for its members.

In Transition is a college club designed to help college transfer students make the transition from community college to the four-year college/university.

Lamplighters is a club that promotes the high standards and ideals of the nursing profession.

Rotaract Club is a co-ed organization whose members engage in community and international service projects. The club is sponsored by the Shelby Rotary Club.

Students in Free Enterprise is a club which promotes a better understanding of and a greater appreciation for the free enterprise system. The club sponsors community projects which are presented at regional and national competitions.

STUDENT ACTIVITIES CENTER

The Student Activities Center is available to all currently-enrolled students for relaxation, recreation or interaction with other students or involvement with extra-curricular activities. The area is open from 8:00 a.m. - 10:00 p.m. Monday through Thursday and 8:00 a.m. - 4:00 p.m. on Friday. The Center comprises (1) student lounge, (2) weight room, (3) student lockers, and showers, (4) walking track, (5) meeting rooms, (6) holding kitchen, (7) classrooms, (8) art studio, (9) SGA office, (10) Gamma Beta Phi office. (11) restrooms, (12) gymnasium. Only Cleveland Community College students are permitted to use the gym and weight room. Any adult (18 or over) may use the walking track.

SNACK BAR

A variety of hot and cold foods are available in the campus Snack Bar. Hours of operation are from 7:00 a.m. - 1:30 p.m. and 2:30 p.m. - 9:00 p.m. Monday - Thursday, and Friday 7:00 a.m. - 2:00 p.m.

STUDENT GOVERNMENT ASSOCIATION

All students are members of the Student Government Association. The Student Government Association at Cleveland Community College takes an active part in life at school. The purpose of this organization is:

1. To represent the individual thinking, the integrity, the ideas, and the interests of the students within Cleveland Community College.
2. To encourage cooperation between students, faculty, and administration.
3. To sponsor activities or endeavors that will be of benefit to the student body and Cleveland Community College.
4. To do all things necessary to promote the welfare of the student body.

Officers of the Cleveland Community College SGA attend the North Carolina Comprehensive Community College Student Government Association meetings. This enables the students to meet new people and exchange ideas from different colleges for the enhancement of their respective organizations.

STUDENT BEHAVIOR

Students Rights and Responsibilities

The rights of students as citizens are acknowledged and reaffirmed. The College recognizes the right of an enrolled student to receive a full opportunity to learn and develop, unfettered by any and all obstacles not conducive to a sound, fundamental educational program. To

this end, the College recognizes, declares, and vests certain rights in each student enrolled at the College.

Students are responsible for reading and understanding the College Catalog and Student Handbook. Students are responsible for acting as responsible adults for proper completion of their academic program, for familiarity with all requirements of the curriculum from which they intend to graduate, for maintaining the grade average required and at all times knowing their academic standing, and for meeting all other degree requirements. Their advisors will counsel them, but the final responsibility remains with the student. Students are required to keep the Office of Admissions/Registrar up to date on their current addresses and telephone numbers.

Student Code Of Conduct And Jurisdiction Of Judicial Bodies Disciplinary Responsibilities Of College Officials, Disciplinary Procedures, And Appeal

It is expected that students will conduct themselves as responsible adults at all times. The College has an inherent responsibility to maintain order on its campus; therefore, students may be suspended or dismissed by the appropriate Vice President for behavior deemed incompatible with the mission, the regulation or responsibility of the College. Disruptive classroom behavior, destruction of school property, stealing, cheating, gambling, use of profane language, engaging in personal combat, possession of dangerous weapons, or the possession and/or use of alcoholic beverages and/or the use of any drug as defined under the North Carolina Controlled Substance Act. G.S. 90-89 through G.S. 90-94 in or on any part of the Cleveland Community College campus will not be tolerated. Any violation of these regulations will result in expulsion from the College. In addition, any infraction which is a violation of North Carolina law will be turned over to local authorities.

Due Process Procedures On Grievances

1. A student wishing to appeal any decision at the College should first appeal the decision to the instructor or administrator making the decision.
2. If not satisfied, an appeal may be made in writing to the Due Process Committee which will recommend action to the President. The Vice-President For Student Services serves as Chairman of the Due Process Committee.
3. Further appeal may be made directly to the President in writing.

4. Final appeal would be made directly to the Board of Trustees in writing. The Board will make a decision based on written appeal and the forwarded recommendations of the President and Due Process Committee.

INCLEMENT WEATHER

The College President will make the decision as to whether or not classes will be held during periods of inclement weather. Announcements will be made on local radio and television stations. If day classes are canceled, night classes are automatically canceled.

COOPERATIVE EDUCATION

Cooperative Education (Co-op) is designed to give students enrolled in many programs within the College a chance to work on a job while completing their degrees. This combination of classroom instruction with practical/related work experience provides numerous benefits to participating students.

ELIGIBILITY. Any full-time students who are enrolled in programs offering Co-op for academic credit and who have earned a minimum of 12 hours toward their degree requirements are eligible to participate, if they meet the following conditions:

- (1) Approval of instructor coordinator
- (2) Have a minimum of 2.0 GPA
- (3) Approval from program director

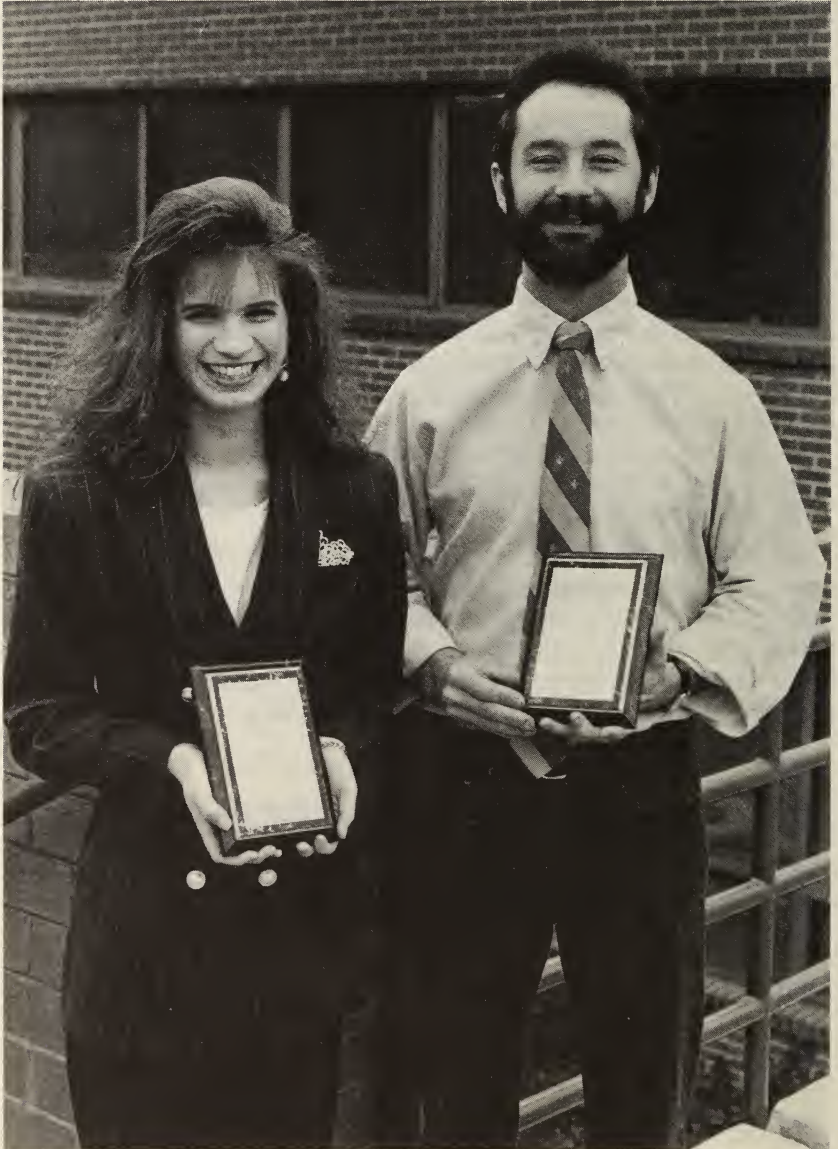
ACADEMIC CREDIT. Credit hours for Cooperative Education work periods are determined by dividing the average number of hours worked per week by 10 and rounding to the nearest whole number. Co-op students may earn from two to twelve quarter hours of Co-op credit toward their degree requirements. (See individual curriculum programs for number of elective hours available.)

STUDENTS OF THE QUARTER

Each quarter the faculty selects one outstanding student as the "Student of the Quarter" for each academic division—College Transfer, Technical, and Vocational. These students receive a certificate and local newspapers publish their pictures.

WHO'S WHO AMONG STUDENTS IN AMERICAN JUNIOR COLLEGES

Each academic year, the faculty selects students for inclusion in the nationally-recognized Who's Who Among Students In American Junior Colleges. These students are selected because of their outstanding performance in academics, extracurricular activities, or community services.



FINANCIAL INFORMATION

Cleveland Community College operates on the quarter system. Each quarter is eleven weeks in length. Students pursuing a program of study are required to register and pay all fees at the beginning of each quarter. A student is not registered until tuition and fees are paid in the Business Office. Every effort is made to keep the student's expenses at a minimum. Tuition cost is set by the State Board of Community Colleges and is subject to change.

TUITION

Current rates for all college transfer, general education, technical or vocational curriculum students.*

North Carolina Students:

14 or more credit hours	185.50
Less than 14 credit hours	(per quarter hour) 13.25

Out-of-State Students:

14 or more credit hours	1505.00
Less than 14 credit hours	(per quarter hour) 107.50

*If accident insurance is desired, contact the Division of Business Affairs for up-to-date information.

FINANCIAL RESPONSIBILITY

Students are not permitted to default in the payment of fees, fines, loans, or other financial obligations due the school. All tuition, fees, and any other expenses must be paid prior to entering class. Any deviation from this policy must be approved by the President of the College.

RESIDENCE STATUS FOR TUITION PAYMENT

1. General Statute 116-143.1(b) passed by the 1973 General Assembly of North Carolina reads:
 "To qualify for in-state tuition a legal resident must have maintained his domicile in North Carolina for at least 12 months immediately prior to his classification as resident for tuition purposes. In order to be eligible for such classification, the individual must establish that his or her presence in the State during such twelve-month period was for the purposes of

maintaining bona fide domicile rather than for purposes of mere temporary residence incident to enrollment in an institution of higher education; further (1) if the parents (or court-appointed legal guardian) of the individual seeking resident classification are (is) bona fide domiciliaries of this State, this fact shall be prima facie evidence of domiciliary status of the individual applicant and (2) if such parents or guardian are not bona fide domiciliaries of this State, this fact shall be prima facie evidence of non-domiciliary status of the individual.

2. Regulations concerning the classification of students by residence for purposes of applicable tuition differentials, are set forth in detail in *A Manual to Assist the Public Higher Education Institutions of North Carolina in the Matter of Student Residence Classification for Tuition Purposes*. Each enrolled student is responsible for the contents of that Manual, which is the controlling administrative statement of policy on this subject. Copies of the Manual are available on request at Student Services.

BOOKS, SUPPLIES, AND BOOKSTORE

A student is required to buy the necessary textbooks and supplies. An average cost of books will vary from \$60 to \$150 per quarter, depending on the curriculum and number of courses taken. Books and supplies are sold during regular bookstore hours.

STUDENT INSURANCE

Certain risks are inherent in any work involving regular contact with mechanical and electrical equipment. While stringent precautions will be taken to insure safety, it is felt to be in the interest of all students to provide some measure of insurance protection.

A group policy, providing the desired insurance protection, is available through the Business Office. The cost of the insurance is approximately \$7.50 per year. If you are not already covered by accident insurance we strongly recommend this policy to you.

Any accident, regardless of how minor it may be, must be reported to the instructor in the area. The policy is limited to coverage, both in the time period covered and the amounts provided for each accident. Information concerning the policy and coverage is distributed during each registration period and is also available in Student Services. Claims for accidents should be turned in at Student Services.

Personal liability insurance is required of all Practical Nursing, ADN and Radiologic Technology students. The cost of coverage is \$14.50 per year.

GRADUATION FEE

All students eligible to graduate from a curriculum program will be required to pay a graduation fee (approximately \$15.00) one month prior to the time they are to complete their programs.

STUDENT ACTIVITY FEE

All students enrolled for seven or more credit hours are required to pay a student activity fee of \$10.00 each Fall and \$9.00 for the Winter and Spring quarters. Students enrolled for less than seven credit hours will pay a student activity fee of \$5.00 for the Fall, Winter, and Spring quarters. The Student Government Association budgets this money yearly with the approval of the Administration. Included in the budgeting are the following items: Paw Prints, men's and women's athletics, intramurals, fall, spring, and summer festivals, SGA dues and conventions, ID cards, parking stickers, and other student related activities.

CHARGE FOR RETURNED BANK CHECKS

There will be a charge of \$5.00 assessed any student who gives the College a bank check which is returned from the bank because of insufficient funds.

REFUND POLICY

Tuition refunds may be authorized only in the event that the student must withdraw for unavoidable reasons. In such cases, two-thirds of the tuition paid may be refunded if the student withdraws within ten days after the first day of classes as published in the Calendar of Events. Tuition refunds will not be considered after that time.

Tuition refunds will not be made for tuition of \$5.00 or less. Refunds will not be made to students enrolled in short-term, non-credit classes, activity fees, or for accident insurance fees. Full refund will be made should the College cancel a class or program. Refund checks are normally issued three weeks after the close of late registration.

PARKING (MOTOR VEHICLE AND TRAFFIC REGULATIONS FOR CLEVELAND COMMUNITY COLLEGE)

I. General Information

The control and enforcement of motor vehicle conduct is necessary both for the safety of the individual and the efficient operation of Cleveland Community College.

A. In the following information the term *campus* shall refer to that property operated by Cleveland Community College and those other properties when used by Cleveland for educational purposes.

- B. The term *motor vehicle* shall include all vehicles which are covered by the motor vehicle laws of North Carolina.
- C. No student with an outstanding traffic infraction may receive end-of-quarter grades until receiving clearance from the Campus Security Committee and paying all fines.
- D. Student parking is in the large lot on the fairground side of the campus.

II. Registration of Vehicles

- A. All faculty, staff and students, part-time and full-time, shall be required to have their vehicle or vehicles registered by the business office and to affix an appropriate decal on the driver's side of the rear window (inside). There shall be no charge to register vehicles.
- B. Campus visitors, law enforcement vehicles, and service vehicles are specifically exempted from registering their vehicles. However they are expected to obey all other regulations.

III. Regulations

- A. It shall be the responsibility of the Campus Security Committee to recommend traffic regulations to the President of the College for presentation to the Board of Trustees for approval.
- B. Enforcement of regulations shall be administered by the Campus Security Committee.
- C. Those students assessed fines shall pay those to the Campus Business Office (For redress, see part IV.)
- D. The following shall be considered violations of campus motor vehicle regulations and the corresponding fine:
 - 1. Vehicle showing no registration.....\$5.00
 - 2. Parking in improper area3.00
 - 3. Parking by backing vehicle into area.....1.00
 - 4. Double parking or blocking a legally parked vehicle3.00
 - 5. Speeding in excess of 10 m.p.h.3.00
 - 6. Failure to yield right-of-way to pedestrian3.00
 - 7. Reckless driving5.00
- E. This College reserves the right to remove any illegally parked vehicle by a College vehicle, privately owned wrecker, or other means. The violator shall be responsible for any tow charge in addition to the violation fee.
- F. The registered operator is responsible for the use of the vehicle.

IV. Redress

- A. A committee shall be made to exist which will be known as the Campus Security and Traffic Committee.
- B. It shall be the responsibility of this committee to determine final disposition of fines for which anyone may feel that he/she was unnecessarily charged.

- C. This committee shall be composed of the following:
 1. One member of the Campus Security Committee, not the chairman.
 2. One member of the Campus Safety Committee, not the chairman.
 3. One member of the Student Government Association, not the president.
- V. The Campus Security Committee shall have power to recommend changes in the above regulations provided the change is properly communicated to the administration, faculty, staff, and students of Cleveland Community College.

FINANCIAL AID INFORMATION

The fundamental purpose of the Financial Aid Program at Cleveland Community College is to provide financial assistance, based on financial need, to students who normally could not attend post-secondary school without aid. Financial aid at Cleveland is based on a needs analysis. The student may complete any of the approved needs analysis forms to apply for financial aid. These forms are the Financial Aid Form (FAF), the Family Financial Statement (FFS), or the Application for Federal Student Aid. Cleveland Community College prefers that the student use the FFS form. The forms may be picked up in the Financial Aid Office. For aid other than the Pell Grant, additional forms may be required.

In accordance with the Omnibus Drug Initiative Act of 1988, as a precondition to receive Federally funded financial aid, (e.g., Pell Grant, Campus Based Programs) each student receiving assistance must certify that he or she will not engage in the unlawful manufacture, distribution, dispensation, possession or use of a controlled substance during the period of enrollment covered by a grant. If convicted of a drug related Federal or State offense, the institution must withhold any further Title IV payments to the student until determination by the appropriate authority is made regarding fraud on the part of the student.

- Financial aid at Cleveland Community College consists of scholarships, grants, loans, work study or any combination of these as determined by the financial aid office.
- The student or the family of the student has the primary responsibility for post-secondary educational cost. Financial aid awarded by the College is based on the need of the student to supplement the family or student contributions.
- Recipients of financial aid who withdraw from the College must personally notify the Financial Aid Office of this action. Also, any changes in name, marital status, address, academic program, or enrollment status must be reported to the Financial Aid office.

- The primary purpose of financial aid is to assist the student in receiving an education. To be assured of continued financial aid, students must maintain “satisfactory progress” in accordance with the College’s grading policy, listed in the catalog under “Academic Progress” and completing one-half or more of work attempted.
- Any commitment of federal funds (Pell Grant, SEOG, CWS, NCSIG) is tentative and contingent upon subsequent Congressional appropriation and actual receipt of funds by Cleveland Community College.
- The Financial Aid Office reserves the right, on behalf of the College, to review and adjust or cancel an award any time there is indication of changes in financial status, academic program, good academic standing, or failure to observe reasonable standards of conduct.
- Recipients of financial aid from the College are to notify the Financial Aid Office of any other financial aid extended to them from sources outside the College prior to acceptance of outside aid.
- Most student aid is based on full-time status; 9-11 credit hours for $\frac{3}{4}$ time status, and 6-8 credit hours for $\frac{1}{2}$ time status. Student aid is not usually paid for less than $\frac{1}{2}$ enrollment.

APPLICATION PROCESS

All applicants for financial aid at Cleveland Community College shall have completed and mailed to the Processing Center the Family Financial Statement (FFS) or the other standard need analysis document approved by Cleveland Community College. All students shall apply for the Pell Grant if they wish to be considered for other federal, state, or institutional financial aid that is based on need. Students are encouraged to complete the application process as soon as income taxes and reports are filed or the source of income has been verified. In addition to verification of income, whether taxable or non-taxable, students may be requested to verify or document federal income taxes paid, number in household, number attending post-secondary institutions, and independent student status. Students should mail the FFS on or before the first of July to insure completion of the application process prior to Fall Quarter. Students completing and mailing the FFS needs analysis applications on the day of registration are not awarded their grant until the application process is complete.

SATISFACTORY PROGRESS STANDARDS FOR FINANCIAL AID

Introduction

The Higher Education Act of 1965, as amended by Congress in 1980, mandates institutions of higher education to establish minimum standards of “satisfactory progress” for students receiving financial aid. For the purpose of maintaining a consistent policy for all students

receiving financial aid administered by the college's Financial Aid Office, these standards are applicable to all financial aid programs, including all Federally sponsored Title IV programs.

Satisfactory Progress Defined

To continue to receive financial aid, a student must demonstrate satisfactory progress as defined below.

- 1) Satisfactory progress for Financial Aid at Cleveland Community College is defined as any student in good academic standing, not on academic probation, and who has completed one-half ($\frac{1}{2}$) or more of the work registered for the previous quarter.
- 2) Continuing students applying for financial assistance (Title IV funds which include Pell Grant, Supplemental Educational Opportunity Grant, College Work-Study, and State Student Incentive Grant) will be evaluated each fall quarter to determine, by the Standards of Satisfactory Progress, whether the student has successfully completed the minimum percentage of work toward his/her objective, degree, or certificate. Other students entering during the same academic year mentioned above will be evaluated by the FAO the entering quarter.
- 3) The maximum time frame a full-time student would have to complete his/her course should be:
 - 3 years or 12 quarters for degree programs
 - 1½ years or 6 quarters for vocational programs
 A half-time or three quarter student must satisfactorily complete the appropriate fraction of maximum hours established for completion of his/her work.
- 4) Students registered under the Special Credit Program are NOT eligible for the Title IV Program.

If a curriculum student is placed on academic probation or suspension for the first time and applies for admission as a "new" student in another program, the financial aid award is terminated. The student may re-establish eligibility for the federal student aid funds after attending one or more quarters and removing the academic probation, when suspended, or attend one quarter with good standing in a new program when suspended.

Re-entry status is determined by internal evaluation and transfer of credit. After the re-entry quarter, the first definition of satisfactory progress applies.

TYPES OF FINANCIAL ASSISTANCE

All Financial Aid programs fall into one of two categories: grants, or employment. Grants are outright gifts of money and do not have to be repaid. Scholarships are also considered gift aids. Employment allows the student to work and earn needed money.

Application procedures and eligibility requirements, as stated in the academic bulletin, apply for any program. Students having a 4-year degree may apply for any program except Pell Grant and SEOG.

GRANTS

Pell Grant

All financial aid applicants are required to apply for the Pell Grant. The Pell Grant is a federal student aid entitlement program which provides a foundation of financial assistance to which other forms of aid may be added.

The U.S. Department of Education determines the student's eligibility for financial aid based on a formula developed annually and reviewed by Congress. This formula is applied consistently to all applicants and takes into account income, assets, family size, etc. The formula uses the information provided on the application to produce an eligibility index number which determines the amount of aid to be received. The Student Aid Report (SAR) will be mailed directly to the student approximately 4 to 6 weeks after submitting the application. The SAR should be brought immediately to the Financial Aid Office.

Supplemental Education Opportunity Grant (SEOG)

SEOG is also a federal program. However, it is not an entitlement program like the Pell Grant. Recipients are determined by the Director of Financial Aid who awards the grant according to the exceptional financial need of the student. The amount of the award is determined according to the family income and their ability to assist the student.

North Carolina Student Incentive Grant (NCSIG)

These grants are available to legal North Carolina residents who are full-time students in good standing with Cleveland Community College and have a demonstrated need. Amounts are determined by the student's financial need in relation to available resources and the cost of education. Grants may range up to \$2000 per academic year, but may not exceed one-half the cost of unmet need. Repayment is not required.

Job Training Partnership Act (JTPA)

JTPA is a federally funded, skill development program for economically disadvantaged students. Application and recipient selection is processed through the Isothermal Planning Commission.

EMPLOYMENT

College Work-Study Program (CWS)

A work-study program is awarded to students (enrolled at least half-time) demonstrating an unmet need beyond Pell Grant. This program allows students to earn a portion of the cost of their education. Work-study participants will work a supervised schedule, usually 8-12 hours per week. Job descriptions outline the responsibilities of the assigned work-study.

SCHOLARSHIP PROGRAMS

Gamma Beta Phi Scholarship — The Gamma Beta Phi offers a scholarship of one hundred dollars per quarter to a worthy student. Students interested in applying for this scholarship should do so at the Financial Aid Office.

NC Community College Scholarship Program — To qualify as a candidate for these scholarships, a person would have to meet the established criteria. A copy of the eligibility criteria is available in the Financial Aid Office. Applications must be submitted to the FAO and selection is determined by the scholarship committee.

The Wachovia Technical Scholarship is awarded annually to a student who is enrolled full-time in the second year of a technical curriculum and is based on need and scholastic promise.

The Southern Bell Scholarship is awarded annually to two NC resident students who are enrolled full-time in a course of study leading to a degree or diploma. The recipient must maintain academic progress and continue enrollment at Cleveland Community College. Financial need receives top priority.

The Clyde Cash Memorial Scholarship — established December 1981, in memory of Clyde Cash, chemistry instructor, provides annual scholarship awards to graduating seniors from Cleveland County High Schools.

The Robert Hoover Memorial Scholarship Fund — established June, 1982, in memory of Bob Hoover, English instructor, provides annual scholarship awards to graduating seniors from Cleveland County High Schools.

The Ruth Anthony Memorial Scholarship — established May, 1984, in memory of Ruth Anthony, professional businesswoman for Fields Young, Inc., provides an annual scholarship to a person applying for admission to a secretarial science curriculum, at Cleveland Community College. The recipient must exhibit the desire and ability to be the best professional secretary possible. The Financial Aid Committee will select the recipient based on need, interest, aptitude, and department recommendation. Applications must be submitted to the Financial Aid Office by April 1.

The Fraley Scholarship is awarded annually to two students from either Industrial Management or Business Administration. Applications and recommendations must be submitted to the FAO and selection is determined by the scholarship committee.

The Vision Cable Scholarship is sponsored through a joint effort by Vision Cable of Shelby and the Media in Motion Club of Cleveland Community College. This is a merit based scholarship with nominations coming from the Communications Technology staff according to established criteria. The Scholarship Committee will make scholarship selection.

Violet Thomas Memorial Scholarship is a limited scholarship-partial funding for drama student(s). Awards are made by the dean of Arts, Sciences, and Public Services.

Vocational Rehabilitation — Students with mental, physical or emotional handicaps which limit employment opportunities may be eligible. For information, students should contact the nearest Vocational Rehabilitation Services, Shelby, NC 28150.

Other Sources

- American Business Women's Club Scholarship
- Cleveland County Negro Women's Club Scholarship
- Cleveland Memorial Hospital Auxiliary Scholarship

Students interested in the above should contact the appropriate agency. The Financial Aid Office assists in directing students to these agencies.

Scholarship recipients are expected to be full-time students with financial need. Students selected for scholarships who withdraw/drop courses must notify the FAO. The reason for withdrawing/dropping courses will be evaluated to see if the scholarship should be forfeited. Replacement for the scholarship is at the discretion of the FAO. This recipient will be selected from the pool of candidates interviewed for the original scholarships.

Veterans, National Guard and Reserve Programs

N.C. National Guard Tuition Assistance Programs (NCNG) — Tuition assistance is available for members of the North Carolina National Guard. Applications are available at guard units and the Office of the Adjutant General, P.O. Drawer 2628, Raleigh, NC 27611.

Veterans Benefits — Cleveland Community College is approved for eligible veterans and wives, widows and children of disabled or deceased veterans. Applications may be obtained at the CCC Veteran's Office or the nearest county Veterans Office.

Veterans and War Orphans Grant — These grants are available to immediate family members of deceased or disabled veterans (service connected). Families of POW's and MIA's classified as such for

ninety days are eligible. Students should contact: Division of Veterans Affairs, P.O. Box 26206, Raleigh, NC 27611.

North Carolina Reservist Benefits – Tuition and benefits may be obtained through the Reserve.

Veterans Affairs

The Office of Veterans Affairs provides information and assistance to eligible veterans and dependents of disabled or deceased veterans in applying for educational benefits.

To be eligible for educational benefits, the student must be enrolled in an approved curriculum, taking only those courses required for graduation in the chosen curriculum. Students must, in the judgment of the College, maintain satisfactory progress for continued eligibility.

VA regulations governing institution-approved training of veterans and/or dependents of veterans require that certain documents be on file prior to certification of enrollment:

1. Application for admission;
2. Proper application for VA benefits (Forms 22-1990, 22-5490, or 28-1990);
3. High school transcript or GED scores and transcript of academic record for each college previously attended;
4. If no VA benefits have been received for prior training;
 - (a) DD-214
 - (b) marriage certificate (if applicable)
 - (c) divorce decree (if applicable)
 - (d) dependent children's birth certificates (if applicable)
5. If VA benefits have been received for prior training, the student submits a change of program form (22-1995).

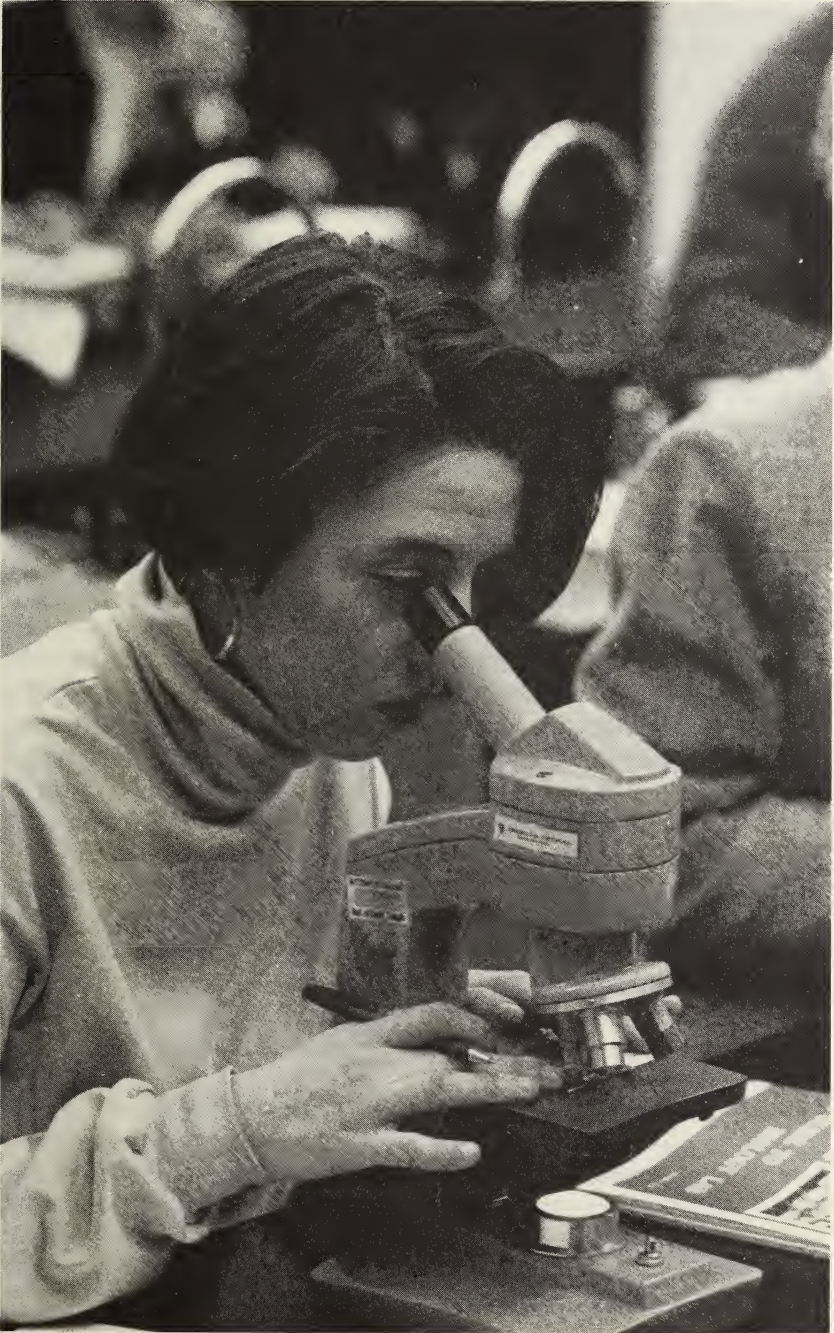
The VA will not approve for enrollment any of the following: (1) course audits (2) independent study (3) telecourses (4) repeated courses previously passed (5) courses not required in chosen curriculum.

6. Work experience
7. More than 2 course substitutions per curriculum.

The NC Student Loan Program for Health, Science, and Mathematics – The purpose of this loan program is to provide financial assistance to and encourage North Carolinians who desire to pursue career opportunities in the health, science, and mathematics disciplines. The General Assembly makes available appropriations for loans for the instructional programs of Radiologic Technology, Microcomputer Systems Technology, and Electronic Engineering Technology at Cleveland Community College.

NC Vocational Technical Student Loan Program — This loan program established April, 1984, makes funds available for loans to students enrolled in the vocational and technical curriculums. A student may borrow a maximum of \$300 each academic year under this program.

DEGREE CREDIT PROGRAMS



Developmental Courses

May be required for degree-seeking students. See admission requirements.

Developmental courses are designed to provide instruction in the basic skills in order that the student will be successful in regular, collegiate-level courses. These courses earn credit hours for the quarter in which they are taken but do not count towards graduation. Students earn satisfactory (S) or unsatisfactory (U) grades. These grades are not computed into grade point averages. These courses may be taken concurrently with other courses except that they must be passed with a grade of (S) before the students can enroll in higher level English, reading, and math courses.

			HOURS		
			CLASS	LAB	CREDIT
ENG	0100	Basic English Skills	3	0	3
MAT	0100	Basic Mathematic Skills	4	0	4
RED	0100	Basic Reading Skills	3	0	3

COLLEGE TRANSFER PROGRAM

A large number of students plan their programs in order to eventually transfer to four-year colleges and universities. Students enroll in what is usually referred to as the transfer, curriculum which offers courses that parallel those offered during the first two years at a four-year institution. Most of the credits earned in this curriculum may be transferred to colleges and universities as the first and second years of a baccalaureate degree program.

Cleveland Community College's transfer program includes many courses designed to prepare students for upper division study in such fields as business, education, engineering, dentistry, law, and medicine. A specially designed general transfer sequence of courses (Pre-Liberal Arts or Pre-Science) is also available for students who have not yet decided upon a major, but who intend to transfer their credits toward a four-year degree.

Students who plan to transfer to a four-year college or university are advised to give careful attention to several important considerations:

1. The transferability of courses taken at Cleveland Community College is determined solely by the institution to which the student transfers. Curricula and courses have been developed to facilitate transfer of credits. However, some four-year institutions have specific requirements which warrant special attention.

2. Students are responsible for meeting the entrance requirements of the institution to which they plan to transfer. Students should work with their faculty advisors to ensure that they take courses which enable them to meet these requirements.
3. Completion time for college transfer studies will be longer than six or seven quarters if the student needs to enroll in developmental courses.
4. Due to course schedules and personal situations, night students will usually need longer periods than two years to complete their studies.

Students enrolled in the college transfer program will earn the Associate in Arts or Associate in Science degree after completing the prescribed 96 credit hours (quarter hours) of study.

Upon completion of liberal arts programs, the student should:

1. Write and speak with clarity and precision, in keeping with the rules of standard English.
2. Read and interpret literature critically and analytically.
3. Write critically and analytically in response to literary themes and ideas.
4. Understand the relationship between the history of western civilization and one's culture.
5. Understand the meaning of the "multicultural" approach to history.
6. Understand sociological principles and concepts.
7. Understand one's culture and its influences on individual and group behavior.
8. Understand major psychological theories and their effects on individual and group behavior.
9. Understand mathematical and scientific principles and concepts.
10. Use logical reasoning to solve mathematical and scientific problems.
11. Understand, appreciate, and enjoy physical activity and its role in enhancing the quality of one's life.

ASSOCIATE OF ARTS DEGREE

Students who select the Associate of Arts degree at Cleveland Community College transfer to senior colleges to pursue such majors as the following:

Art	English	Liberal Arts
Accounting	Foreign Languages	Literature
Business Administration	History	Political Science
Economics	Journalism	Psychology
Education	Law	Religion
		Social Work

An Associate of Arts degree will be granted to students completing the following requirements:

A. General Education Requirements

The satisfactory completion of no fewer than 96 quarter hours.

B. Specific Graduation Requirements

1. Completion of 12 quarter hours of skills in communications as verified by the following sequence: ENG 130, 131, 132, SPH 204.
2. Completion of 12-15 quarter hours from at least two different disciplines of the following humanities and fine arts courses: (3 hour courses)
 - a. ART 101, 205
 - b. DRA 105
 - c. ENG 105, 201; select from 205, 207 or from 221, 222
 - d. MUS 101
 - e. PHI 101
 - f. REL 101
3. Completion of 9 quarter hours of mathematics as follows:
MAT 121, 122, 123
4. Completion of 12 quarter hours of a laboratory science from the following sequences of courses:
 - a. BIO 101, 102, 103
 - b. CHM 101, 102, 103
 - c. PHY 201, 202, 203
5. Completion of 12-15 quarter hours from at least two different disciplines of the following social science courses: (3 hour courses)
 - a. HIS 101, 102, 103; HIS 110, 111, 112
 - b. PSY 101, 201, 202
 - c. SOC 101, 202, 203
6. Completion of 3 quarter hours of physical education, (usually activity courses), chosen from the following:

- a. Lecture Courses: SAF 106; PED 116 (3 hour courses)
- b. Activity Courses: PED 101, 102, 103, 104, 105, 107, 108, 110, 111, 112, 113, 114, 115 (1 hour courses)

Students with a medical disability may substitute lecture courses for activity courses.

C. Elective Graduation Requirements

1. Completion of electives from any of the following areas:
 - a. Humanities (ART 101, 102, 103, 202, 203, 205; DRA 105, 106, 107, 200, 202, 208; ENG 105, 133, 200, 203, 205, 207, 210; ENG 216 & 217 (1 hr courses); 218, 221, 222; MUS 101; PHI 101; REL 101, 102, 103; SPH 204) (3 hour courses)
 - b. Mathematics (MAT 117, 201, 202, 203, 210) (3 hour courses)
 - c. Science (BIO 101, 102, 103; BIO 107, 108, 109; BIO 205, 206; BOT 200, 201, 202; CHM 101, 102, 103; PHY 201, 202, 203) (4 hour classes)
 - d. Social Science (HIS 101, 102, 103, 110, 111, 112; PSY 101, 103, 201, 202, 208, 209, 210, 238, 240; SOC 101, 202, 203, 208) (3 hour courses)
 - e. Business Courses: ACC 120, 121, 222 (6 hour courses); ECO 102, 104 (5 hour courses); CAS 101 (4 hour course), approved elective
 - f. Education Courses (EDU 103, 121, 151, 201, 202) (3 hour courses)
 - g. Foreign Language Courses (SPA 160, 161, 162, 260, 261, 262) (4 hour courses)
 - h. Electives may include up to 6 quarter hours of co-op or work experience.
2. Courses used to satisfy specific graduation requirements may not be used again for elective requirements.

A.A. Pre-Business

The Pre-Business curriculum is a college transfer program designed for students who plan to pursue a four-year degree in business. The program consists of liberal arts, science, and mathematics courses required during the first two-years of college together with college transfer courses in accounting, economics, and data processing.

Upon completion of the Pre-Business program, the student should be able to:

1. Write and speak with clarity and precision, in keeping with the rules of standard English.
2. Read and interpret literature critically and analytically.
3. Write critically and analytically in response to literary themes and ideas.
4. Understand the relationship between the history of western civilization and one's culture.
5. Understand the meaning of the "multicultural" approach to history.
6. Understand sociological principles and concepts.
7. Understand one's culture and its influences on individual and group behavior.
8. Understand major psychological theories and their effects on individual and group behavior.
9. Understand mathematical and scientific principles and concepts.
10. Use logical reasoning to solve mathematical and scientific problems.
11. Understand, appreciate, and enjoy physical activity and its role in enhancing the quality of one's life.
12. Understand principles of accounting.
13. Determine the success or failure of business procedures.
14. Understand economic theories as applied to governments throughout history.
15. Understand macroeconomics and microeconomics in today's world environment and apply this understanding to governments and businesses.

I. **Communications** (12 quarter hours) ENG 130, 131, 132; SPH 204

II. **Humanities and Fine Arts** (12 quarter hours)

Humanities (6 quarter hours) Select two: ENG 105, 201, 205, 221, 222, DRA 105. Select one: PHI 101; REL 101 (3 hour courses)

Fine Arts (6 quarter hours) Select two: ART 101, ART 205, ENG 107; MUS 101 (3 hour courses)

III. Mathematics (9 quarter hours) MAT 121, 122, 123

IV. Science (12 quarter hours) Select BIO 101, 102, 103, or CHM 101, 102, 103 or PHY 201, 202, 203

V. Social Science (12 quarter hours) Select one sequence of courses and one course from one of the other disciplines: HIS 101, 102, 103 (Recommended); HIS 110, 111, 112; PSY 101, 201, 240; SOC 101, 202, 203 (3 hour courses)

VI. Physical Education (3 quarter hours) Select three courses from the following:

PED 101, 102, 103, 104, 105, 107, 108, 109, 110, 111, 112, 113, 114, 115 (1 hour courses). Activity courses recommended for college transfer.

Students with medical disability may take SAF 106 or PED 116 (3 hour courses)

VII. Electives (36 quarter hours) ACC 120, 121, 222; ECO 102, 104; COA 101; four-hours, social science electives.

SUGGESTED SEQUENCE OF COURSES ASSOCIATE OF ARTS - PRE-BUSINESS-C004

		HOURS		
		CLASS	LAB	CREDIT
FIRST YEAR				
Fall Quarter				
ENG	0130	English Grammar & Composition	3	0
		Science Sequence (select one)	3	2
		BIO 0101; CHM 0101; PHY 0201		4
		Social Science Sequence (select one)	3	0
		HIS 0101; PSY 0101; SOC 0101		3
		Fine Arts Selection (select one)	3	0
		ART 0101, ART 0205; DRA 0107; MUS 0101		3
		Physical Education	<u>0</u>	<u>2</u>
			12	4
				14
Winter Quarter				
ENG	0131	Composition & Intro to Literature	3	0
		Science Sequence Continued	3	2
		Bio 0102; CHM 0102; PHY 0202		4
		Social Science Sequence Continued	3	0
		HIS 0102; PSY 0201; SOC 0202		3
		Humanities Selection (select one)	3	0
		ENG 0105, ENG 0201; DRA 0105		3
		Physical Education	<u>0</u>	<u>2</u>
			12	4
				14

			HOURS		
			CLASS	LAB	CREDIT
Spring Quarter					
ENG	0132	Composition/Research/Documentation	3	0	3
		Science Sequence Continued	3	2	4
		BIO 0103; CHM 0103; PHY 0203			
		Social Science Sequence Continued	3	0	3
		HIS 0103; PSY 0240; SOC 203			
		Social Science Elective	3	0	3
		Social Science Elective	3	0	3
		Physical Education	<u>0</u>	<u>2</u>	<u>1</u>
			15	4	17
SECOND YEAR					
Fall Quarter					
MAT	0121	College Algebra I	3	0	3
SPH	0204	Fundamentals of Speech	3	0	3
ACC	0120	Accounting I	4	4	6
ECO	0102	Economics I	<u>5</u>	<u>0</u>	<u>5</u>
			15	4	17
Winter Quarter					
MAT	0122	College Algebra II	3	0	3
		Literature Selection	3	0	3
ACC	0121	Accounting II	4	4	6
ECO	104	Economics II	<u>5</u>	<u>0</u>	<u>5</u>
			15	4	17
Spring Quarter					
MAT	0123	Trigonometry	3	0	3
		Literature Selection	3	0	3
ACC	0222	Accounting III	4	4	6
CAS	0101	Intro to Computer Technology	4	0	4
		Elective	<u>1</u>	<u>0</u>	<u>1</u>
			15	0	17

Total credit hours required for graduation = 96

A.A. Pre-Education: Early Childhood/Elementary

I. **Communications** (12 quarter hours) ENG 130, 131, 132; SPH 204

II. **Humanities and Fine Arts** (18 quarter hours)

Fine Arts (6 quarter hours) Select two: ART 101; DRA 107; MUS 101 (3 hour courses)

Humanities (12 quarter hours) ENG 105, 201 (3 hour courses)
Select 3 hours from Group I: ENG 205, 207 (3 hour courses)

or

Select 3 hours from Group II: ENG 221, 222 (3 hour courses)
and

Select: REL 101 or PHI 101 (3 hour courses)

III. **Mathematics** (9 quarter hours) MAT 121, 122, 123

IV. **Science** (12 quarter hours) Select BIO 101, 102, 103 or CHM 101, 102, 103 or PHY 201, 202, 203

V. **Social Science** (15 quarter hours)

(9 quarter hours) HIS 101, 102, 103 or HIS 110, 111, 112

(3 quarter hours) PSY 101 (Required)

(3 quarter hours) Select one: PSY 201, 202, 208, 209, 210;
SOC 101, 202, 203 (3 hour courses)

VI. **Physical Education** (3 quarter hours)

Select three courses from the following: PED 101, 102, 103, 104, 105, 107, 108, 109, 110, 111, 112, 113, 114, 115 (1 hour courses)
(Activity courses recommended for college transfer)

Students with a medical disability may take SAF 106 or PED 116
(3 hour courses)

VII. Electives

1. Completion of electives from any of the following areas:
 - a. Humanities (ART 101, 102, 103, 202, 203, 205; DRA 105, 106, 107, 200, 202, 208; EDU 151; ENG 105, 133, 200, 203, 205, 207, 210; ENG 216, 217) (1 hr. courses); 218, 221, 222; MUS 101; PHI 101; REL 101, 102, 103; SPH 204 (3 hr. courses)
 - b. Mathematics (MAT 117, 201, 202, 203, 210) (3, 4, and 5 hr. courses)
 - c. Science (BIO 101, 102, 103; CHM 101, 102, 103; PHY 201, 202, 203) (4 hr. courses)

- d. Social Sciences (HIS 101, 102, 103, 110, 111, 112; PSY 101, 103, 201, 202, 208, 209, 210, 238, 240; SOC 101, 202, 203, 208) (3 hr. courses)
 - e. Education Courses (EDU 103, 121, 151, 201, 202) (3 hr. courses)
 - f. Foreign Language (SPA 160, 161, 162, 260, 261, 262) (4 hr. courses)
 - g. Electives may include up to 6 quarter hours of co-op work experience.
2. Courses used to satisfy specific graduation requirements may not be used again for elective requirements.

**SUGGESTED SEQUENCE OF COURSES
ASSOCIATE OF ARTS - PRE-EDUCATION:
EARLY CHILDHOOD/ELEMENTARY -C020**

			HOURS		
			CLASS	LAB	CREDIT
Fall Quarter					
ENG	0130	English Grammar & Composition	3	0	3
		Science Sequence (select one)	3	2	4
		BIO 0101; CHM 0101; PHY 0201			
		History Sequence (select one)	3	0	3
		HIS 0101 or 0110			
		Fine Arts Selection (select one)	3	0	3
		ART 0101; MUS 0101			
		Physical Education	0	2	1
		Elective	<u>3</u>	<u>0</u>	<u>3</u>
			15	4	17
Winter Quarter					
ENG	0131	Composition & Intro to Literature	3	0	3
		Science Sequence Continued	3	2	4
		BIO 0102; CHM 0102; PHY 0202			
		History Sequence Continued	3	0	3
		HIS 0102 or 0111			
		Fine Arts Selection (select one)	3	0	3
		ART 0101; MUS 0101			
		Humanities Selection	3	0	3
		REL 0101 or PHI 101			
		Physical Education	<u>0</u>	<u>2</u>	<u>1</u>
			15	4	17
Spring Quarter					
ENG	0132	Composition/Research/Documentation	3	0	3
		Science Sequence Continued	3	2	4
		BIO 0103; CHM 0103; PHY 0203			
		History Sequence continued	3	0	3
		HIS 0103 or 0112			
		Physical Education	0	2	1
		Elective	3	0	3
		Elective	<u>3</u>	<u>0</u>	<u>3</u>
			15	4	17

		HOURS			
		CLASS	LAB	CREDIT	
SECOND YEAR					
Fall Quarter					
MAT	0121	College Algebra I	3	0	3
SPH	0204	Fundamentals of Speech	3	0	3
		Literature Selection	3	0	3
PSY	0101	Intro to Psychology	3	0	3
		Elective	<u>3</u>	<u>0</u>	<u>3</u>
			15	0	15
Winter Quarter					
MAT	0122	College Algebra II	3	0	3
		Literature Selection	3	0	3
		Psychology/Sociology Selection	3	0	3
		Elective	3	0	3
		Elective	<u>3</u>	<u>0</u>	<u>3</u>
			15	0	15
Spring Quarter					
MAT	0123	Trigonometry	3	0	3
		Literature Selection	3	0	3
		Elective	3	0	3
		Elective	3	0	3
		Elective	<u>3</u>	<u>0</u>	<u>3</u>
			15	0	15

Total credit hours required for graduation = 96

A.A. Pre-Education: Intermediate/Secondary

I. Communications (12 quarter hours) ENG 130, 131, 132; SPH 204

II. Humanities and Fine Arts (18 quarter hours)

Fine Arts (6 quarter hours) Select two: ART 101, DRA 107, MUS 101 (3 hour courses)

Humanities (12 quarter hours) ENG 105, 201 (3 hour courses)
Select 3 hours from Group I: ENG 205, 207 (3 hour courses)

or

Select 3 hours from Group II: ENG 221, 222 (3 hour courses)

and

Select: REL 101 or PHI 101 (3 hour courses)

III. Mathematics (9 quarter hours) MAT 121, 122, 123

IV. Science (12 quarter hours) Select BIO 101, 102, 103 or CHM 101, 102, 103 or PHY 201, 202, 203

V. Social Science (15 quarter hours)

(9 quarter hours) HIS 101, 102, 103 or 110, 111, 112 (3 hour courses)

(3 hour courses) PSY 101 (required)

(3 hour courses) Select one: PSY 103, 201, 202, 208, 210
SOC 101, 202, 203 (3 hour courses)

VI. Physical Education (3 quarter hours)

Select three courses from the following: PED 101, 102, 103, 104, 105, 107, 108, 109, 110, 111, 112, 113, 114, 115 (1 hour courses)

Students with a medical disability may take SAF 106 or PED 116 (3 hour courses) instead of activity class.

VII. Electives

1. a. Humanities (ART 101, 102, 103, 202, 203, 205; DRA 105, 106, 107, 200, 202, 208; EDU 151; ENG 105, 133, 200, 203, 205, 207, 210; ENG 216, 217 (1 hr. courses); 218, 221, 222; MUS 101; PHI 101; REL 101, 102, 103; SPH 204) (3 hr. courses)
- b. Mathematics (MAT 117, 201, 202, 203, 210) (3, 4, and 5 hr. courses)
- c. Science (BIO 101, 102, 103; CHM 101, 102, 103; PHY 201, 202, 203) (4 hr. courses)

- d. Social Sciences (HIS 101, 102, 103, 110, 111, 112; PSY 101, 103, 201, 202, 208, 209, 210, 238, 240; SOC 101, 202, 203, 208) (3 hr. courses)
- e. Education Courses (EDU 103, 121, 151, 201, 202) (3 hr. courses)
- f. Foreign Language Courses (SPA 160, 161, 162, 260, 261, 262) (3 hr. courses)
- g. Electives may include up to 6 quarter hours of co-op or work experience.
- h. Courses used to satisfy specific graduation requirements may not be used again for elective requirements.
- i. Students in Pre-Education should select elective courses in keeping with the program requirements of the college or university to which they plan to transfer.

SUGGESTED SEQUENCE OF COURSES
**ASSOCIATE OF ARTS - PRE-EDUCATION: INTERMEDIATE/
 SECONDARY - C028**

		HOURS		
		CLASS	LAB	CREDIT
Fall Quarter				
ENG	0130	English Grammar & Composition	3	0 3
		Science Sequence (select one)	3	2 4
		BIO 0101; CHM 0101; PHY 0201		
		History Sequence (select one)	3	0 3
		HIS 0101 or 0110		
		Fine Arts Selection (select one)	3	0 3
		ART 0101; DRA 0107; MUS 0101		
		Physical Education	0	2 1
		Elective	<u>3</u>	<u>0 3</u>
			15	4 17
		(ART 0101 & MUS 0101 recommended for education majors)		
Winter Quarter				
ENG	0131	Composition & Intro to Literature	3	0 3
		Science Sequence Cont.	3	2 4
		BIO 0102; CHM 0102; PHY 0202		
		History Sequence Cont.	3	0 3
		HIS 0102 or 0111		
		Fine Arts Selection (select one)	3	0 3
		ART 0101; DRA 0107; MUS 0101		
		Humanities Selection	3	0 3
		REL 0101 or 0103		
		Physical Education	<u>0</u>	<u>2 1</u>
			15	4 17

			HOURS		
			CLASS	LAB	CREDIT
Spring Quarter					
ENG	0132	Composition/Research/Documentation	3	0	3
		Science Sequence Continued	3	2	4
		BIO 0103; CHM 0103; PHY 0203			
		History Sequence Continued	3	0	3
		HIS 0103 or 0112			
		Physical Education	0	2	1
		Elective	3	0	3
		Elective	<u>3</u>	<u>0</u>	<u>3</u>
			15	4	17
SECOND YEAR					
Fall Quarter					
MAT	0121	College Algebra I	3	0	3
SPH	0204	Fundamentals of Speech	3	0	3
		Literature Selection	3	0	3
PSY	0101	Intro to Psychology	3	0	3
		Elective	<u>3</u>	<u>0</u>	<u>3</u>
			15	0	15
Winter Quarter					
MAT	0122	College Algebra II	3	0	3
		Literature Selection	3	0	3
		Psychology/Sociology Selection	3	0	3
		Elective	3	0	3
		Elective	<u>3</u>	<u>0</u>	<u>3</u>
			15	0	15
Spring Quarter					
MAT	0123	Trigonometry	3	0	3
		Literature Selection	3	0	3
		Elective	3	0	3
		Elective	3	0	3
		Elective	<u>3</u>	<u>0</u>	<u>3</u>
			15	0	15

Total credit hours required for graduation = 96

A.A. Pre-Liberal Arts

I. Communications (12 quarter hours) ENG 130, 131, 132; SPH 204

II. Humanities and Fine Arts (18 quarter hours)

Literature (9 quarter hours) ENG 105, 201; Select one: ENG 221, 222, ENG 205, 207 (3 hour courses)

Fine Arts (6 quarter hours) Select two: ART 101, ART 205; DRA 107, MUS 101 (3 hour courses)

Humanities (3 quarter hours) Select PHI 101 or REL 101 (3 hour courses)

III. Mathematics (9 quarter hours) MAT 121, 122, 123

IV. Science (12 quarter hours) Select BIO 101, 102, 103 or CHM 101, 102, 103 or PHY 201, 202, 203

V. Social Science (15 quarter hours)

Select one sequence, HIS 101, 102, 103 or HIS 110, 111, 112 (9 quarter hours)

Select two courses (6 quarter hours) from PSY 101, 201, 202, 240; SOC 101, 202, 203 (3 hour courses)

VI. Physical Education (3 quarter hours)

Select three courses from the following: PED 101, 102, 103, 104, 105, 107, 108, 109, 110, 111, 112, 113, 114, 115 (1 hour courses)
(Activity courses recommended for college transfer)

Students with a medical disability may take SAF 106 or PED 116 (3 hour courses) instead of activity classes.

VII. Electives

1. Completion of electives to be selected from any of the following areas:

a. Humanities (ART 101, 102, 103, 202, 203, 205; DRA 105, 106, 200, 107, 202, 208; ENG 105; ENG 133, 200, 203, 205, 221, 222, 207, 210, 216, 217, 218; MUS 101; PHI 101; REL 101, 102, 103); SPA 160, 161, 162, 261, 262, 263

b. Mathematics (MAT 117, 201, 202, 203, 210) (3 hour courses)

c. Science (BIO 101, 102, 103; CHM 101, 102, 103; PHY 201, 202, 203) (4 hour courses)

d. Social Science (HIS 101, 102, 103, 110, 111, 112; PSY 101, 103, 201, 202, 208, 209, 210, 238, 240; SOC 101, 202, 203, 208) (3 hour courses)

- e. Foreign Language (SPA 160, 161, 162, 260, 261, 262)
 f. Electives may include up to 6 quarter hours of co-op or work experience.
2. Courses selected will depend upon the student's major area of interest. At least two disciplines must be included. Students must have advisor approval in designing the electives block.
 3. Courses used to satisfy specific graduation requirements may not be used again for elective requirements.

SUGGESTED SEQUENCE OF COURSES
ASSOCIATE OF ARTS - PRE-LIBERAL ARTS - C011

		HOURS			
		CLASS	LAB	CREDIT	
FIRST YEAR					
Fall Quarter					
ENG	0130	English Grammar & Composition	3	0	3
		Science Sequence (select one)	3	2	4
		BIO 0101; CHM 0101; PHY 0201			
		History Sequence (select one)	3	0	3
		HIS 0101 or 0110			
		Fine Arts Selection (select one)	3	0	3
		ART 0101, ART 0205; DRA 0107; MUS 0101			
		Physical Education	0	2	1
		Elective	<u>3</u>	<u>0</u>	<u>3</u>
			15	4	17
Winter Quarter					
ENG	0131	Composition & Intro to Literature	3	0	3
		Science Sequence Continued	3	2	4
		BIO 0102; CHM 0102; PHY 0202			
		History Sequence Continued	3	0	3
		HIS 0102 or 0111			
		Fine Arts Selection (select one)	3	0	3
		ART 0101, 0205; DRA 0107; MUS 0101			
		Physical Education	<u>0</u>	<u>2</u>	<u>1</u>
			12	4	14
Spring Quarter					
ENG	0132	Composition/Research/Documentation	3	0	3
		Science Sequence Continued	3	2	4
		BIO 0103; CHM 0103; PHY 0203			
		History Sequence Continued	3	0	3
		HIS 0103 or 0112			
		Social Science Selection	3	0	3
		Physical Education	0	2	1
		Elective	<u>3</u>	<u>0</u>	<u>3</u>
			15	4	17

			HOURS		
			CLASS	LAB	CREDIT
SECOND YEAR					
Fall Quarter					
MAT	0121	College Algebra I	3	0	3
SPH	0204	Fundamentals of Speech	3	0	3
		Literature Selection	3	0	3
		Elective	3	0	3
		Elective	<u>3</u>	<u>0</u>	<u>3</u>
			15	0	15
Winter Quarter					
MAT	0122	College Algebra II	3	0	3
		Literature Selection	3	0	3
		Humanities	3	0	3
		REL 0101 or 0103			
		Elective	3	0	3
		Elective	3	0	3
		Elective	<u>3</u>	<u>0</u>	<u>3</u>
			18	0	18
Spring Quarter					
MAT	0123	Trigonometry	3	0	3
		Literature Selection	3	0	3
		Elective	3	0	3
		Elective	3	0	3
		Elective	<u>3</u>	<u>0</u>	<u>3</u>
			15	0	15

Total credit hours required for graduation = 96

ASSOCIATE OF SCIENCE DEGREE

Students who select the Associate of Science degree at Cleveland Community College transfer to senior colleges to pursue such majors as the following:

Accounting	Economics	Optometry
Agriculture	Education	Physics
Biology	Engineering	Pharmacy
Business Administration	Law	Political Sciences
Chemistry	Mathematics	Social Work
Computer Science	Medicine	Textiles
Dentistry	Nursing	Veterinary Medicine

An Associate of Science degree will be granted to the students completing the following requirements:

A. General Education Requirements

1. The completion of no fewer than 96 quarter hours. The completion of 26 hours in electives. The completion of 70 hours in required courses.

B. Specific Graduation Requirements

1. Completion of 12 quarter hours of skills in communications as verified by the following sequence: ENG 130, 131, 132; SPH 204
2. The completion of 6 quarter hours from the following humanities and fine arts courses:
 - a. ART 101 (3 hour course)
 - b. DRA 107 (3 hour course)
 - c. ENG 105, 201, 205, 207, 221, 222 (3 hour courses)
 - d. PHI 101 (3 hour course)
 - e. REL 101 (3 hour course)
3. Completion of 19 quarter hours of mathematics: MAT 121, 122, 123, 201, 202
4. Completion of 24 quarter hours of sciences from two of the following sequences of courses:
 - a. BIO 101, 102, 103
 - b. CHM 101, 102, 103
 - c. PHY 201, 202, 203
5. Completion of 9 quarter hours of social science from the following:
 - a. HIS 101, 102, 103 (3 hour courses)
 - b. PSY 101, 103, 201, 208, 210 (3 hour courses)
 - c. SOC 101, 202, 203 (3 hour courses)

6. Completion of 3 quarter hours of physical education, (usually activity courses), chosen from the following:
 - a. Lecture courses: SAF 106; PED 116 (3 hour courses)
 - b. Activity courses: PED 101, 102, 103, 104, 105, 107, 108, 109, 110, 111, 112, 113, 114, 115 (1 hour courses)*Students with a medical disability may substitute lecture courses for activity courses. (SAF 106 or PED 116)

*Activity courses are recommended for college transfer.

C. Elective Graduation Courses

1. Completion of electives to be selected from any of the following areas:
 - a. Humanities (ART 101, 103, 205; DRA 105, and 107, 200; ENG 105, 133, 200, 201, 205, 207, 221, 222, 216, 217, MUS 101; PHI 101; REL 101; SPA 160, 161, 162, 260, 261, 262)
 - b. Mathematics (MAT 117, 203) (3 hour courses)
 - c. Science (BIO 101, 102, 103, 107, 108; 205; CHM 101, 102, 103; PHY 201, 202, 203; ZOO 201; BOT 202) (4 hour classes)
 - d. Social Science (HIS 101, 102, 103, 110, 111, 112; PSY 101, 103, 201, 208, 210; SOC 101, 202, 203) (3 hour courses)
 - e. Business Courses (CAS 101) (4 hour course)
 - f. Education Courses (EDU 103, 121, 151, 202, 201) (3 hours)
 - g. Electives may include up to 6 quarter hours of co-op or work experience
6. Courses used to satisfy graduation requirements may not be used again for elective requirements.

II ORAL Communication (5hrs) Speech

A.S. Pre-Science

I. **Communications** (12 quarter hours) ENG 130, 131, 132, ~~SPH 204~~

II. **Humanities and Fine Arts** (6 quarter hours) ^{at least}

Humanities (3 quarter hours) Select one: ENG 105, 201, 205, 207, 221, 222; PHI 101; REL 101 (~~3 hour courses~~)

Fine Arts (~~3 quarter hours~~) Select one: ART 101; DRA 107 (3 hour courses)

III. **Mathematics** (19 quarter hours) MAT 121, 122, 123, 201, 202

IV. **Science** (24 quarter hours)

Select two of the following sequences:

BIO 101, 102, 103 (4 hour courses)

CHM 101, 102, 103 (4 hour courses)

PHY 201, 202, 203 (4 hour courses)

V. **Social Science** (9 quarter hours) ^{at least}

Select one of the following sequences:

HIS 101, 102, 103 (3 hour courses)

PSY ~~101~~, 208 and either PSY ~~103~~ or ~~210~~ (3 hour courses)

SOC ~~101~~, 202, 203 (3 hour courses)

VI. **Physical Education** (3 quarter hours)

Select three courses from the following: PED 101, 102, 103, 104, 105, 107, 108, 109, 110, 111, 112, 113, 114, 115 (1 hour course)

Activity courses are recommended for college transfer.

Students with a medical disability may take SAF 106 or PED 116 (3 hour courses) instead of activity classes.

VII. Electives

1. Elective credit must include CAS 101 and 19 additional hours selected from any of the following areas:
 - a. Humanities (ART 101, 103, 205; DRA 105, 107, 200; ENG 105, 107, 133, 200, 201, 205, 221, 222, 216, 217, MUS 101; PHI 101; REL 101; SPA 160, 161, 162, 260, 261, 262)
 - b. Mathematics (MAT 117, 203) (3 hour courses)
 - c. Science (BIO 101, 102, 103, 107, 108, 205; CHM 101, 102, 103; PHY 201, 202, 203; ZOO 201; BOT 202) (4 hour courses)
 - d. Social Science (HIS 101, 102, 103, 110, 111, 112; PSY 101, 103, 201, 208, 210; SOC 101, 202, 203; CHM 101, 102, 103; PHY 201, 202, 203) (3 hour courses)

- e. Education Courses (EDU 201) (3 hour course)
 f. Electives may include up to 6 quarter hours of co-op or work experience
2. Courses selected will depend upon the student's major area of interest. At least two disciplines must be included. Students must have advisor approval in designing the electives block.
 3. Courses used to satisfy graduation requirements may not be used again for elective requirements.

**SUGGESTED SEQUENCE OF COURSES
 ASSOCIATE OF SCIENCE - PRE-SCIENCE - C018**

		HOURS			
		CLASS	LAB	CREDIT	
FIRST YEAR					
Fall Quarter					
ENG	0130	English Grammar & Composition	3	0	3
MAT	0121	College Algebra I	3	0	3
		Science Sequence (select one)	3	2	4
		BIO 0101; CHM 0101; PHY 0201			
		Social Science Sequence	3	0	3
		HIS 0101; PSY 0101; or SOC 0101			
		Physical Education	0	2	1
		Elective	3	0	3
			15	4	17
Winter Quarter					
ENG	0131	Composition & Intro to Literature	3	0	3
MAT	0122	College Algebra II	3	0	3
		Science Sequence Continued	3	2	4
		BIO 0102; CHM 0102; PHY 0202			
		Social Science Sequence Continued	3	0	3
		HIS 0102; PSY 0208; or SOC 0202			
		Physical Education	0	2	1
		Elective	<u>3</u>	<u>0</u>	<u>3</u>
			15	4	17
Spring Quarter					
ENG	0132	Composition/Research/Documentation	3	0	3
MAT	0123	Trigonometry	3	0	3
		Science Sequence Continued	3	2	4
		BIO 0103; CHM 0103; PHY 0203			
		Social Science Sequence Continued	3	0	3
		HIS 0103; PSY 0103; or SOC 0203			
		Physical Education	<u>0</u>	<u>2</u>	<u>1</u>
			12	4	14
SECOND YEAR					
Fall Quarter					
MAT	0201	Differential Calculus	5	0	5
		Second Science Sequence	3	2	4
		BIO 0101; CHM 0101; PHY 0201			
		Humanities (select one)	3	0	3
		ENG 0105, 0201; PHI 0101; REL 0101			
CAS	0101	Intro to Computer Technology	<u>4</u>	<u>0</u>	<u>4</u>
			15	2	16

			HOURS		
			CLASS	LAB	CREDIT
Winter Quarter					
MAT	0202	Calculus & Analytic Geometry	5	0	5
		Second Science Sequence Continued BIO 0102; CHM 0102; PHY 0202	3	2	4
		Fine Arts (select one) ART 0101 or ENG 0107	3	0	3
		Electives	<u>4</u>	<u>0</u>	<u>4</u>
			15	2	16
Spring Quarter					
		Second Science Sequence Continued BIO 0102; CHM 0103; PHY 0204	3	2	4
SPH	0204	Fundamentals of Speech	3	0	3
		Elective	3	0	3
		Elective	3	0	3
		Elective	3	0	3
		Elective	<u>1</u>	<u>0</u>	<u>1</u>
			16	2	17

Total credit hours required for graduation = 96



ASSOCIATE IN GENERAL EDUCATION DEGREE (G020)

THE CURRICULUM

The required courses in the curriculum are selected to provide the basic general education requirements of liberal arts programs and to meet basic needs for successful progress toward program objectives. Electives should be chosen in accordance with student interests and ultimate objectives. Students may wish to place heavy emphasis on courses in business, technical, or social areas, depending on their educational or occupational plans.

The General Education program is designed for the student who is basically interested in two years of education beyond high school. This program provides a basic core of course work in the following areas:

English and Literature	15 Quarter Hours
Fine Arts	9 Quarter Hours
Social Science and History	24 Quarter Hours
Science and Mathematics	21 Quarter Hours

This introduction into the broad fields of knowledge permits the student to explore self and clarify life goals. With this background one is able to intelligently choose additional course work in terms of interests and social needs.

When the student has completed basic general education requirements and accumulated electives to a total of 96 quarter hours, an Associate in General Education Degree will be granted.

Although the General Education curriculum is broader in scope than college transfer programs, General Education graduates should demonstrate the same general knowledge in the humanities (spoken and written communication, literature, etc.), social sciences (psychology, sociology, and history), mathematics, and natural sciences that their counterparts in college transfer programs must demonstrate. However, General Education students may select from a wide range of liberal arts and professional courses to meet special needs and interests.

Upon successful completion of the program, General Education students should:

1. Demonstrate a broad understanding of social and psychological principles and concepts and their influences on group and individual behavior.
2. Demonstrate a comprehensive overview of fine arts and literature and their contribution to humanity.
3. Understand broad religious and cultural ideas shaping human thought.
4. Understand mathematic and scientific principles and concepts and their application.

REQUIRED COURSES FOR GRADUATION (96 Quarter Hours)

English and Literature (15 Quarter Hours)

			HOURS		
TITLE			CLASS	LAB	CREDIT
ENG	130	English Grammar and Composition	3	0	3
ENG	131	Composition, and Introduction to Literature	3	0	3
ENG	132	Composition, Research, and Documentation	3	0	3
SPH	204	Fundamentals of Speech	3	0	3

Select *one* of the following:

ENG	105	Masterpieces of World Literature	3	0	3
ENG	201	English Literature Survey	3	0	3
ENG	205	Major American Writers	3	0	3
ENG	207	Southern American Writers	3	0	3
ENG	221	American Literature Survey I	3	0	3
ENG	222	American Literature Survey II	3	0	3

Fine Arts (9 Quarter Hours)

Select *three* of the following:

ART	101	Art Appreciation	3	0	3
ART	205	Film Appreciation	3	0	3
DRA	107	Theatre Appreciation	3	0	3
MUS	101	Music Appreciation	3	0	3

Social Science/History/Humanities (24 Quarter Hours)

HUM	101	Dimensions of Human Experience	3	0	3
PHI	101	Introduction to Philosophy	3	0	3
PSY	101	Introduction to Psychology	3	0	3
REL	101	Major World Religions	3	0	3
SOC	101	Introduction to Sociology	3	0	3

Select *one* three course sequence:

HIS	101	World Civilization I	3	0	3
HIS	102	World Civilization II	3	0	3
HIS	103	World Civilization III	3	0	3
or					
HIS	110	American History I	3	0	3
HIS	111	American History II	3	0	3
HIS	112	American History III	3	0	3

Science and Mathematics (21 Quarter Hours)

MAT	121	College Algebra I	3	0	3
MAT	122	College Algebra II	3	0	3
MAT	123	College Algebra III	3	0	3

Select *one* three course sequence:

BIO	101	Biology I-Principles of Biology	3	2	4
BIO	102	Biology II-Zoology	3	2	4
BIO	103	Biology III-Botany	3	2	4
or					
CHM	101	Chemistry I	3	2	4
CHM	102	Chemistry II	3	2	4
CHM	103	Chemistry III	3	2	4
or					
PHY	201	Physics I	3	2	4
PHY	202	Physics II	3	2	4
PHY	203	Physics III	3	2	4

Physical Education (3 Quarter Hours)Select *three*, one-hour courses or PED 116 or SAF 106**Electives (24 Quarter Hours)**

Electives include courses from the Associate in Arts and Associate in Science and technology programs including the following:

ART	105	Western Civilization Art History	3	0	3
ART	204	Advanced Painting Seminar	2	2	3
ART	206	Elements of Film	3	0	3
CHM	100	Chemistry - An Introduction	2	2	3
CHM	110	Introduction to Organic Chemistry	3	2	4
EDU	103	Psychological Development of the child	1	0	1
ENG	100	Basic English Skills	3	0	3
ENG	216	Walden	1	0	1
ENG	217	Poetry of Robert Frost	1	0	1
JOU	116	Journalism I	3	0	3
JOU	117	Journalism II	3	0	3
DES	118	Publication Design and Production I	2	2	3
DES	119	Publication Design and Production II	2	2	3
DES	120	Publication Design and Production III	2	2	3
DES	121	Publication Design and Production IV	2	2	3
ENG	209	Creative Writing Workshop	3	0	3
MAT	106	Math for Pharmacology	3	0	3
POL	204	Great Decisions—Foreign Policy	3	0	3
POL	205	The U.S. Constitution	1	0	1

**SUGGESTED SEQUENCE OF COURSES
ASSOCIATE IN GENERAL EDUCATION- G020**

		HOURS			
		CLASS	LAB	CREDIT	
FIRST YEAR					
Fall Quarter					
ENG	0130	English Grammar & Composition	3	0	3
SPH	0204	Fundamentals of Speech	3	0	3
		Science Sequence (select one)	3	2	4
		BIO 0101; CHM 0101; PHY 0201			
		History Sequence (select one)	3	0	3
		HIS 0101 or 0110;			
		Fine Arts Selection (select one)	3	0	3
		ART 0101, ART 0205; DRA 0107; MUS 0101			
		Physical Education	0	2	1
			15	4	17
Winter Quarter					
ENG	0131	Composition & Intro to Literature	3	0	3
		Science Sequence Continued	3	2	4
		BIO 0102; CHM 0102; PHY 0202			
		History Sequence Continued	3	0	3
		HIS 0102 or 0111			
		Fine Arts Selection (select one)	3	0	3
		ART 0101; 0205; DRA 0107; MUS 0101			
		Social Science/Humanities Selection	3	0	3
			15	2	16

			HOURS		
			CLASS	LAB	CREDIT
Spring Quarter					
ENG	0132	Composition/Research/Documentation	3	0	3
		Science Sequence Continued	3	2	4
		BIO 0103; CHM 0103; PHY 0203			
		History Sequence Continued	3	0	3
		HIS 0103 or 0112			
		Social Science Sequence/Humanities Selection	3	0	3
		Elective	<u>3</u>	<u>0</u>	<u>3</u>
			15	2	16
SECOND YEAR					
Fall Quarter					
MAT	0121	College Algebra I	3	0	3
		Literature Selection	3	0	3
		Physical Education	0	2	1
		Social Science/Humanities Selection	3	0	3
		Fine Arts Selection	3	0	3
		Elective	<u>3</u>	<u>0</u>	<u>3</u>
			15	2	16
Winter Quarter					
MAT	0122	College Algebra II	3	0	3
		Social Science/Humanities Selection	3	0	3
		Physical Education	0	2	1
		Elective	3	0	3
		Elective	3	0	3
		Elective	<u>3</u>	<u>0</u>	<u>3</u>
			15	2	16
Spring Quarter					
Mat	0123	Trigonometry	3	0	3
		Social Sciences/Humanities Selection	3	0	3
		Elective	3	0	3
		Elective	3	0	3
		Elective	<u>3</u>	<u>0</u>	<u>3</u>
			15	0	15

Total credit hours required for graduation = 96

ASSOCIATE IN APPLIED SCIENCE DEGREE PROGRAMS

ASSOCIATE DEGREE NURSING (REGISTERED NURSING) (T059)

The Associate Degree Nursing program is offered through the Foothills Nursing Consortium, a cooperative effort of Cleveland Community College, Isothermal Community College, and McDowell Technical Community College.

The Associate Degree Nursing curriculum is designed to prepare graduates to integrate the principles and theories of nursing and the sciences in utilizing the nursing process in the practice of nursing. The practice of nursing by associate degree nursing graduates consists of assessing the patient's physical and mental health, including the patient's reaction to illness and treatment regimens; recording and reporting the results of the nursing assessment; planning, initiating, delivering, and evaluating appropriate nursing acts; teaching, delegating to or supervising other personnel in implementing the treatment regimen; collaborating with other health care providers in determining the appropriate health care for a patient; implementing the treatment and pharmaceutical regimen prescribed by any person authorized by state law to prescribe such a regimen; providing teaching and counseling about the patient's health care; reporting and recording the plan for care, nursing care given, and the patient's response to that care; and supervising, teaching, and evaluating those who perform or are preparing to perform nursing functions.

Graduates are eligible to take the National Council Licensure Examination (NCLEX-RN) which is required for practice as a registered nurse.

Individuals desiring a career in registered nursing must take biology, algebra and chemistry courses prior to entering the program.

ADMISSION AND PROGRAM REQUIREMENTS

Courses required to meet graduation requirements in this program are offered during daytime hours.

Graduates of this program will be awarded the Associate in Applied Science Degree in Nursing.

ADMISSION PROCESS - First (Year) Level

The following requirements must be met **before** you will be considered for admission to the ADN program. All material must be sent to the Admissions Office of your respective college.

1. Complete application.
2. Provide official high school transcript or GED scores.
3. Submit an official transcript(s) from **all** the colleges you have attended. Each transcript must reflect a 2.0 cumulative grade point average on courses accepted for transfer credit.
4. Submit three (3) references (not relatives or close friends). Example: teachers, employers, guidance counselors. **References that are not more than two years old at the time of the general admission requirement deadline will be acceptable.** (Must use forms provided.)
5. Complete placement tests which will be administered at the college. Applicants will be informed as to the time and place of tests. The placement tests consists of Reading, English/Writing Skills, Numerical Skills and Algebra (4 tests). Applicants who have completed college level courses in English and Algebra at an accredited college(s) with a grade of "C" or better are exempt from the tests. Completion of only one of the above will require testing in the other area. Developmental or Enrichment courses completed at an accredited college with a grade of "C" or better may also be considered in determining placement test exemptions.

Exemption is also granted for those with (a) a minimum SAT score of 450 Verbal and 450 math or (b) an ACT score of 17 or better

6. Complete all developmental courses required as a result of placement tests with a grade of "C" or better.
7. Prerequisite courses: You are required to have completed courses in algebra, chemistry, and biology in high school (complete high school unit) or college with a grade of "C" or better. If you have not taken classes, you must complete them in **college** with a grade of "C" or better **before** consideration into the program. Algebra may be required from placement scores, even if a high school or college algebra course was successful. Prerequisite courses are not accepted from the Adult High School Diploma Program unless the student is a graduate of the program.

You are responsible for making sure these requirements have been met and that all materials have been received by the Admissions Office. Admission requirements currently in effect must be completed.

Completion of these requirements will not guarantee admission into the program.

SELECTION PROCESS

8. All seven general admission requirements must be met.
9. If notified by the Admissions Office, eligible applicants report for the PSB-Nursing School Aptitude Examination-RN. (Fee \$10.00) The Health Form will be provided with the letter of notification for the PSB-RN exam.
10. If indicated, an interview will be scheduled with an admissions counselor and the nursing director/faculty.
11. Final selection for admission is based on a review of the candidates academic record, test results, interview responses and favorable results of the physical, and emotional examinations. Written notification of acceptance will be sent by the Admissions Office and ADN Director.

All students accepted into the Associate Degree Nursing program will be required to carry health insurance.

All students must provide proof of cardiopulmonary resuscitation (CPR) certification on the first day of class Fall quarter.

If there are any questions contact the Admissions Office at your respective college.

Required Courses: Students may take general/related (non-nursing) courses before acceptance in the nursing program.

Required science courses must be completed with a grade of "C" or better.

Completion of these courses will help prepare but no guarantee admission into the program.

Persons admitted to the ADN program will attend an orientation program prior to initial enrollment.

Graduates of the ADN program are eligible to take the National Council Licensure Examination (NCLEX-RN) which is required to practice as a registered nurse.

Enrollment in the Associate Degree Nursing program is limited. Applicants are advised to apply early.

All applicants must be updated annually. If you have applied previously, you must initiate the process including PSB-Nursing Aptitude Exam retesting.

ADMISSION REQUIREMENTS - Second (Year) Level

The following requirements must be met **before** you will be considered for admission to the ADN program. All materials must be sent to the Admissions Office of your respective college.

1. Completed application.
2. Provide official high school transcript or GED scores.
3. Submit an official transcript(s) from all the colleges you have attended. Each transcript must reflect a 2.0 grade point average on courses accepted for transfer credit.
4. Complete placement tests which will be administered at the college to which you apply. Applicants will be informed as to the time and place of tests. The placement tests consists of Reading, English/Writing Skills, Numerical Skills and Algebra (4 tests). Applicants who have completed college level courses in English and Algebra at an accredited college(s) with a grade of "C" or better are exempt from the tests. Development or Enrichment courses completed at an accredited college with a grade of "C" or better may also be considered in determining placement test exemptions. Exemption is also granted for those with (a) minimum SAT score of 450 Verbal and 450 math or (b) an ACT score of 17 or better.
5. Complete all developmental courses required as a result of placement tests with a grade of "C" or better.
6. Prerequisite courses: You are required to have completed courses in algebra, chemistry, and biology* in high school (complete high school unit) or college with a grade of "C" or better. If you have not taken classes, you must complete them in **college** with a grade of "C" or better **before** consideration into the program. Prerequisite courses are not accepted from the Adult High School Diploma Program unless the student is a graduate of the program. Algebra may be required from placement test scores, even if a high school or college algebra course was successful.

*Advance Placement students who have completed non-college Anatomy and Physiology in a Practical Nurse program, with a grade of "C" or above, will be exempt from a prerequisite Biology Course.

7. Submit official copy of college, Practical Nursing or other Nursing Program transcripts (course syllabi may be required).
8. Submit evidence of current unrestricted license as a Practical Nurse in the state of North Carolina. Unrestricted license must also be current at the time of acceptance into the program.
9. Submit (3) three references, (not relatives or close friends) **one of which must be a work reference** if applicable. Example: teachers, employers, counselors. References that are not more than two years old at the time of the general admission requirement deadline will be acceptable. (Must use forms provided.)

10. First year non-nursing courses (general/related) and Anatomy and Physiology II must be in progress if series is not completed.

You are responsible for making sure these requirements have been met and that all materials have been received by the Admissions Office. Admission requirements currently in effect must be completed.

Completion of these requirements will not guarantee admission into the program.

SELECTION PROCESS AND REQUIREMENTS

11. The above criteria must be met to be eligible to take the challenge exam.
12. Report for the challenge exam when notified by the admissions office. (Fee \$35.00)
13. If eligible the Admissions Office will notify students to report for the PSB-Nursing School aptitude Examination R.N. (Fee \$10.00)
14. If indicated, an interview will be scheduled with an admissions counselor and the Nursing Director/Faculty.
15. If eligible, you will be notified when and where to register for the nursing transition course (NUR 100). Health forms will be provided with notification to register for NUR 100.
16. LPNs must complete the nursing role transition course NUR 100 with a grade of "C" or above prior to Summer admission. Anatomy and Physiology III may be taken with NUR 100.
17. Before summer admission **must** complete the first year non-nursing courses with a grade of "C" or above:

ICC	CCC	MTCC
BIO 270	BIO 107	BIO 201
BIO 271	BIO 108	BIO 202
BIO 272	BIO 109	BIO 203
PSY 260	PSY 101	PSY 110 (Prior to 1991)
PSY 261	PSY 238	PSY 111
NUT 160	NUT 101	NUT 101

18. Final selection for admission is based on a review of the candidates academic record, test results, interview responses and favorable results of the physical and emotional examinations. NUR 100 must also be completed with a grade of "C" or better. Written notifications of acceptance will be sent by the Admissions Officer and ADN Director.

APPLICATION DECISION PROCESS FOR FIRST AND SECOND YEAR APPLICANTS

Prospective nursing candidates residing in the four-service area counties of North Carolina should apply to their respective colleges. Other applicants may apply to the college of their convenience. Priority

will be given to service area applicants first, then other North Carolina residents, then out-of-state residents.

Applications will be accepted as openings occur with priority given on the basis of the highest cumulative average on the nursing aptitude exam, nursing challenge exam, and the interview.

Should openings develop for which no qualified service area applicants are available, priority will be given on the basis of highest scores to qualified applicants from the service areas of the other consortium colleges.*

*Any duplication of scores and completion dates will be resolved on the basis of highest average on prerequisite courses.

Any person completing the admissions requirements and not accepted to the fall or summer class may reapply for admission and request PSB-Nursing School Aptitude Exam-RN retesting the following year. The more recent test score will be used for admission consideration.

Persons re-applying will be considered by the above criteria. Applications must be updated annually.

INTRA-CONSORTIUM TRANSFER/RE-ENTRY POLICY

All requests for transfer between consortium-member colleges (including re-entry transfers) into the nursing program must be approved by the Admissions Director and the Nursing Director prior to implementation.

Only one re-entry for course failure will be considered between consortium-member colleges or from other nursing programs.

TRANSFER WITHIN THE FOOTHILLS NURSING CONSORTIUM INSTITUTIONS

Students will comply with the following:

1. Completion of admission requirements as stated in the Admission Policy—Admission for First Year Students or Advanced Placement Students.
2. Written notification by the student, to the Consortium Director and Admissions Director of the desired college of intent to transfer.
3. A student placed on academic warning and/or academic probation at one institution will retain that status with transfer to another institution within the Consortium.
4. Individual consideration will be determined by the circumstances, admission decision process and space availability.

STUDENTS DESIRING ADMITTANCE AND TRANSFER OF CREDITS FROM SCHOOLS OUTSIDE THE CONSORTIUM

Students will comply with the following:

1. Completion of the admission requirements as stated in the Admission Policy—Admission for First Year Students, or Advanced Placement Students.
2. Written notification by the student to the Consortium Director and Admission Director of the desired college of intent to transfer.
3. Submission of transcripts from former nursing program(s) and other post-secondary work for which the student requests transfer credit.
4. Transcripts are evaluated by the designated individual at the institution and the Consortium Director. They determine course eligibility for transfer credit.
5. Individual institutional policy will determine the acceptance of credits for transfer into the nursing curriculum.
6. Completion of Challenge Exams is required if nursing courses submitted for transfer credit are more than two years old as evidenced by the date of completion of the course(s).
7. Admission decision process in the admission policies will be applicable.

Upon completion of the program graduates should be able to:

1. Utilize the nursing process when caring for individuals.
2. Perform technical skills and current technology at a safe level.
3. Function in the role of provider of care, manager of care, and member within the discipline of nursing.
4. Function within a variety of health care settings where there is recourse to supervision from a more experienced, better prepared person (nurse) and where procedures and protocols are established.
5. Be accountable and practice within the ethical and legal framework of nursing.
6. Apply principles of the biological, physical, social and behavioral sciences in performing independent, dependent and interdependent nursing functions.
7. Manage nursing care for patients with common, well-defined health problems.

FOOTHILLS NURSING CONSORTIUM - CURRICULUM PLAN
ASSOCIATE DEGREE NURSING, REGISTERED NURSING (T059)
Cleveland Community College

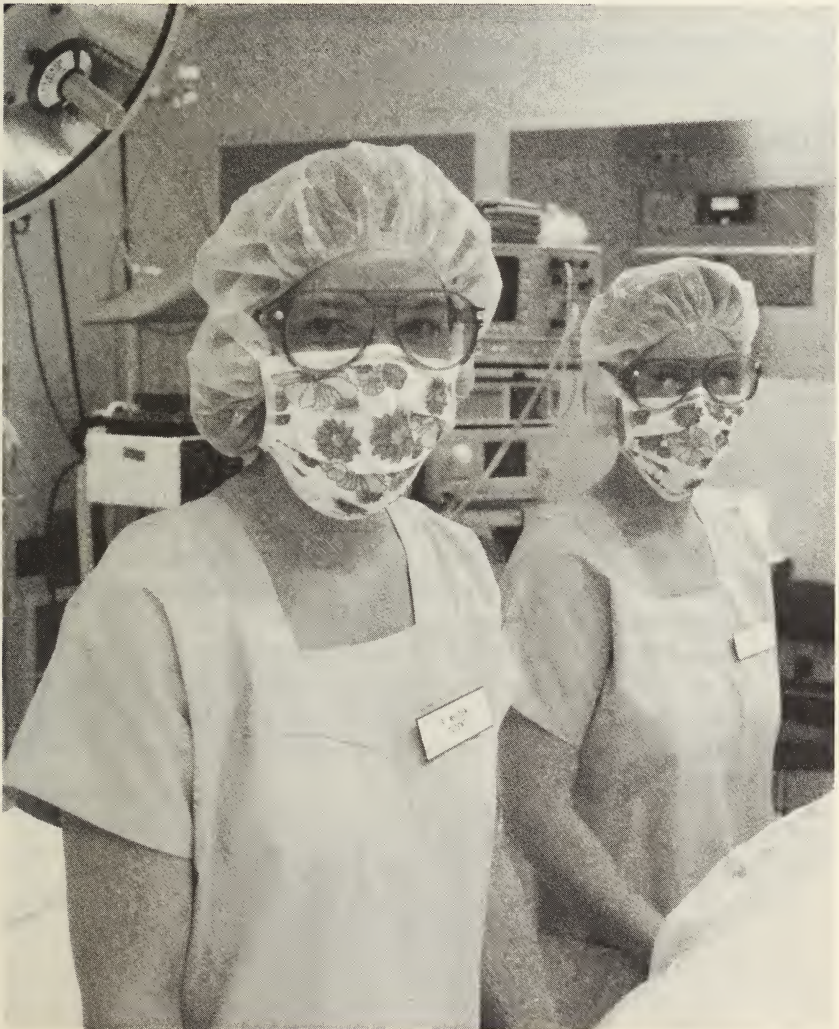
		Class	Hours Per Week		Credit Hours	
			Lab	Clinical		
FIRST YEAR						
First Quarter - Fall						
BIO	0107	Anatomy and Physiology I	3	2	0	4
NUR	0101	Basic Concepts in Nursing	6	4	3	9
PHM	0102	Pharmacological Concepts in Nursing	3	0	0	3
NUT	0101	Nutrition and Diet Therapy	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
			15	6	3	19
Second Quarter - Winter						
BIO	0108	Anatomy and Physiology II	3	2	0	4
NUR	0103	Nursing Care of Adults I	4	2	12	9
PSY	0101	Introduction to Psychology	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
			10	4	12	16
Third Quarter - Spring						
BIO	0109	Anatomy and Physiology III	3	2	0	4
PSY	0208	Human Growth and Development	3	0	0	3
NUR	0104	Nursing Care of Adults II	<u>4</u>	<u>0</u>	<u>12</u>	<u>8</u>
			10	2	12	15
NUR	0100*	Nursing Role Transition	3	2	0	4
(LPN's/Advanced Placement Students only on demand. This course may also be taught at other times.)						
Fourth Quarter - Summer						
BIO	0205	Microbiology I	3	2	0	4
BIO	0206	Microbiology II	2	1	0	2
SOC	0101	Introduction to Sociology	3	0	0	3
NUR	0105	Mental Health Nursing	<u>5</u>	<u>0</u>	<u>12</u>	<u>9</u>
			13	3	12	18
SECOND YEAR						
Fifth Quarter - Fall						
ENG	0130	Grammar and Composition	3	0	0	3
NUR	0201	Nursing Care of Older Adults	4	0	12	8
CAS	0101	Introduction to Computer Technology	4	0	0	4
			<u>11</u>	<u>0</u>	<u>12</u>	<u>15</u>
Sixth Quarter - Winter						
ENG	0131	Composition and Introduction to Literature	3	0	0	3
NUR	0202	Nursing Care of the Childbearing Family (1/2 quarter)	5	0	12	9
NUR	0203	Nursing Care of Children (1/2 quarter)	5	0	12	9
		Free Elective	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
			16	0	24	24

Seventh Quarter - Spring

ENG	0132	Composition/Research/ Documentation	3	0	0	3
NUR	0204	Nursing Care of Adults III	5	0	15	10
NUR	0205	Nursing Perspectives and Issues	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
			11	0	15	16

TOTAL CREDIT HOURS: **123**
(with NUR 100) **127**

A prospective associate degree nursing student may enroll in any course listed above with the exception of those courses with an NUR prefix. SPECIAL NOTE: Science courses (BIO 107, 108, 109, 205, 206) require a grade of "C" or better and may be repeated only once.



ASSOCIATE IN APPLIED SCIENCE DEGREE PROGRAMS

COMMUNICATIONS TECHNOLOGY (T154)

The Communications Technology curriculum prepares individuals to enter the communications field in industry or education. Students will acquire technical and professional experiences in various aspects of media production.

Graduates may be employed as media technicians by industrial education departments, libraries, public schools, community colleges, universities, medical centers or other educational facilities. The program will provide students with a broad range of skills from which they may choose to specialize. Technicians may have duties including photography, graphic arts, producing, directing, equipment maintenance and others.

Upon successful completion of the program Communications Technology students will have the ability to:

1. Demonstrate the use of the equipment in correct procedure and technique in producing composition.
2. Perform the use of the studio equipment for production, titling, effects, lighting, and audio.
3. Demonstrate knowledge of the various formats for effective writing for radio, television, newspaper, and script writing.
4. Demonstrate knowledge of the history of the media development and the means of informing and influencing the public views.
5. Demonstrate knowledge of the performance of the complete videotaping of a production.
6. Understanding mechanical and electrical operations of equipment for locating, troubleshooting, maintenance, and minor repair to equipment.
7. Demonstrate knowledge of and the ability to perform computer-generated television images, from titling to animation.
8. Demonstrate knowledge of the legal and moral principles that have influenced and continue to influence conduct in media communication.

COURSE AND HOUR REQUIREMENTS

Major Courses	Credit Hours	Related Courses	Credit Hours
RTV 100	4	ART 102	3
RTV 101	4	ART 205	3
RTV 102	3	BUS 204	4
RTV 103	4	DRA 105	3
RTV 104	3	DRA 106	3
RTV 200	4	CAS 101	4
RTV 201	5	ELN 100	4
RTV 202	4	MAT 117	<u>4</u>
RTV 205	3		28
RTV 206	3		
RTV 207	4	General Education Courses	
RTV 208	3	ENG 105	3
PHO 101	3	ENG 130	3
PHO 102	3	ENG 131	3
RTV 118	<u>3</u>	ENG 132	3
	53	SPH 204	3
		SOC 101	<u>3</u>
			18
		Work Experience/Elective	6
		Total hours required for graduation =	105

SUGGESTED SEQUENCE OF COURSES COMMUNICATIONS TECHNOLOGY -T154

		HOURS		
		CLASS	LAB	CREDIT
FIRST YEAR				
Fall Quarter				
ELN 0100	Introduction to Electronics	4	0	4
SOC 0101	Introduction to Sociology	3	0	3
RTV 0100	Intro to TV & Cable Production	3	2	4
RTV 0118	Basic Film Technology	2	2	3
ENG 0130	English Grammar & Composition	<u>3</u>	<u>0</u>	<u>3</u>
		15	4	17
Winter Quarter				
ENG 0131	Composition & Intro to Literature	3	0	3
RTV 0101	Advanced TV & Cable Production	3	2	4
RTV 0103	Media Writing	3	2	4
CAS 0101	Intro to Computer Technology	4	0	4
MAT 0117	Intro to Statistics	<u>4</u>	<u>0</u>	<u>4</u>
		17	4	19
Spring Quarter				
ENG 0132	Composition/Research/Documentation	3	0	3
ENG 0105	Masterpieces of World Literature	3	0	3
ART 0102	Beginning Drawing	2	2	3
RTV 0102	Intro to AV Equipment & Basic Prod	2	2	3
RTV 0104	Intro to Mass Communications	3	0	3
	Elective	<u>3</u>	<u>0</u>	<u>3</u>
		16	4	18

SECOND YEAR**Fall Quarter**

ART 0205	Film Appreciation	3	0	3
RTV 0207	Video Graphics	3	2	4
PHO 0101	Fundamentals of Photography	2	2	3
DRA 0105	Theatrical Performance	2	2	3
RTV 0200	Media Production I	<u>3</u>	<u>2</u>	<u>4</u>
		13	8	17

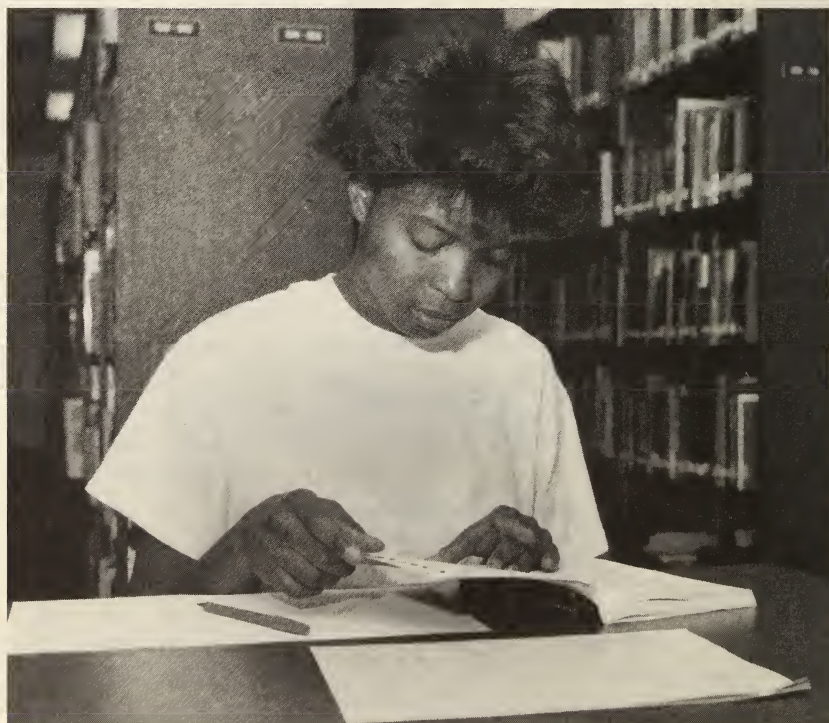
Winter Quarter

PHO 0201	Intro to Color Printing	2	2	3
DRA 0106	Dramatic Production	2	2	3
RTV 0201	Media Production/Lab Project	0	10	5
RTV 0205	Equipment Repair	2	2	3
RTV 0208	Law and Ethics	<u>3</u>	<u>0</u>	<u>3</u>
		9	16	17

Spring Quarter

RTV 0202	Media Production II	3	2	4
RTV 0206	Lighting & Sound	2	2	3
SPH 0204	Fundamentals of Speech	3	0	3
BUS 0204	Business Communications	4	0	4
	Elective	<u>3</u>	<u>0</u>	<u>3</u>
		15	4	17

Total credit hours required for graduation = 105



**CRIMINAL JUSTICE
ASSOCIATE IN APPLIED SCIENCE DEGREE**

**CRIMINAL JUSTICE-PROTECTIVE SERVICE TECHNOLOGY
(T129)**

The criminal justice program is designed to prepare individuals for entry-level positions in law enforcement and correctional agencies and to upgrade the skills of those who are currently employed and seek promotion.

All criminal justice students take courses in psychology, sociology, and criminology in an effort to understand the causes, prevention, and correction of crime in our society.

Many graduates transfer credits to four-year colleges and universities in order to prepare for careers in criminal justice management, probation and parole, and law.

The criminal justice program prepares individuals to apply social science concepts and analytical methods to the complex and rapidly changing system of justice and social control. The development of a broad understanding of the system and general decision-making and problem-solving skills is intended to assist the student in dealing with problems in criminal justice agencies.

Cleveland Community College has chosen to offer the "Generalist Model" for enhancement to the surrounding community.

Upon program completion, the student will be able to:

1. State the functions, responsibilities, and general legal parameters of the criminal justice system, including the courts, corrections, and law enforcement.
2. Perform the tasks of the basic investigator.
3. Perform tasks required of a law enforcement patrol officer.
4. Demonstrate a basic working knowledge of criminalistics.
5. Perform writing skills using correct diction and style as it applies to the work place and society.

COURSE AND HOUR REQUIREMENTS

Major Courses	Credit Hours	Related Courses	Credit Hours
CJC 120	5	POL 102	3
CJC 121	5	POL 103	3
CJC 122	3	PHO 101	3
CJC 123	5	MAT 121	3
CJC 124	5	CAS 101	4
CJC 125	5	CAS 102	4
CJC 126	5	SOC 202	<u>3</u>
CJC 231	5		23
CJC 232	5		
CJC 233	5	Choose <u>7</u> hours from the following	
CJC 234	5	Related Course Electives:	
CJC 235	5	CJC 190	3
CJC 236	5	CJC 191	3
CJC 237	<u>3</u>	CJC 192	3
	66	CJC 193	3
		BIO 101	4
		CHM 100	3
		SPA 160	4
		General Education Courses	
		ENG 130	3
		ENG 131	3
		ENG 132	3
		SPH 204	3
		PSY 101	3
		PSY 201	3
		SOC 101	<u>3</u>
			21
		Work Experience/and/or	
		Internship and/or Free Elective	7
		Total hours required for graduation =	120

SUGGESTED SEQUENCE OF COURSES CRIMINAL JUSTICE/PROTECTIVE SERVICE TECHNOLOGY (T129)

		HOURS			
		CLASS	LAB	CREDIT	
FIRST YEAR					
Fall Quarter					
CJC	120	Introduction to Criminal Justice	5	0	5
CJC	121	Criminology	5	0	5
POL	103	Government - State and Local	3	0	3
ENG	130	English Grammar & Composition	3	0	3
		Elective	<u>3</u>	<u>2</u>	<u>4</u>
			19	2	20

Winter Quarter

CJC	122	Substance Abuse	3	0	3
CJC	123	Juvenile Delinquency	5	0	5
CJC	124	Criminal Law	5	0	5
POL	102	Government - National	3	0	3
MAT	121	College Algebra I	3	0	3
ENG	131	Composition & Intro. to Literature	<u>3</u>	<u>0</u>	<u>3</u>
			22	0	22

Spring Quarter

CJC	125	Constitutional Law	5	0	5
CJC	126	Community Relations and Ethics	5	0	5
PHO	101	Fundamentals of Photography	2	2	3
ENG	132	Composition, Research, & Docu.	3	0	3
SOC	101	Introduction to Sociology	3	0	3
		Elective	<u>3</u>	<u>0</u>	<u>3</u>
			21	2	22

SECOND YEAR**Fall Quarter**

CJC	231	Introduction to Law Enforcement	5	0	5
CJC	232	Crisis Intervention & Management	5	0	5
CAS	101	Introduction to Computer Tech.	4	0	4
SPA	204	Fundamentals of Speech	<u>3</u>	<u>0</u>	<u>3</u>
			17	0	17

Winter Quarter

CJC	233	Introduction to Corrections	5	0	5
CJC	234	Criminal Justice Organization/Supervision	5	0	5
CAS	102	Microcomputer Applications	4	0	4
PSY	101	Introduction to Psychology	<u>3</u>	<u>0</u>	<u>3</u>
			17	0	17

Spring Quarter

CJC	235	Counseling	5	0	5
CJC	236	Security, Protection, and Loss Control	5	0	5
CJC	237	Seminar in Criminal Justice Issues	5	0	5
SOC	202	Marriage and Family	3	0	3
PSY	201	Abnormal Psychology	3	0	3
		Work Experience/Internship/Electives	<u>0</u>	<u>10</u>	<u>1</u>
			21	10	22

Suggested Electives

BIO	101	Biology I - Principles of Biology	3	2	4
CHM	101	Chemistry—An Introduction	2	2	3
CJC	190	Criminal Investigations I	3	0	3
CJC	191	Criminal Investigations II	3	0	3
CJC	192	Introduction to Criminalistics	2	2	3
CJC	193	Correctional Law	3	0	3
SPA	160	Fundamentals of Spanish I	<u>3</u>	<u>2</u>	<u>4</u>
			19	8	23

Total credit hours required for graduation = 118

RADIOLOGIC TECHNOLOGY
ASSOCIATE IN APPLIED
SCIENCE DEGREE
RADIOLOGIC TECHNOLOGY
(RADIOGRAPHY)
(T061)

The Radiologic Technology curriculum prepares graduates to be competent Medical Radiographers. The radiographer is a skilled person qualified by technological education to provide patient services using imaging modalities (as directed by physicians qualified to order and/or perform radiologic procedures) by applying knowledge of the principles of radiation protection for patient, self and others; by applying knowledge of anatomy, positioning, and radiographic techniques to accurately demonstrate anatomical structures on a radiograph; by determining exposure factors to achieve optimum radiographic technique with a minimum of radiation exposure to the patient; by examining radiographs for the purpose of evaluating technique, positioning, and other pertinent technical qualities; by exercising discretion and judgment in the performance of medical imaging procedures; by providing patient care essential to radiologic procedures; and by recognizing emergency patient conditions and initiating life saving first aid.

Graduates may be employed in radiology departments in hospitals, clinics, physicians' offices, research and medical laboratories, federal and state agencies and industry.

Graduates are eligible to take the national examination given by the American Registry of Radiologic Technologists for certification and registration as medical radiographers.

Individuals desiring a career in radiologic technology should take courses in biology, algebra, and chemistry and/or physics prior to entering the program.

Upon completion of the program, the radiographer will be able to:

1. Apply knowledge of the principles of radiation protection for the patient, self and others.
2. Apply knowledge of anatomy, positioning and radiographic techniques to accurately demonstrate anatomical structures on a radiograph.
3. Determine exposure factors to achieve optimum radiographic technique with a minimum of radiation exposure to the patient.
4. Examine radiographs for the purpose of evaluating technique, positioning and other pertinent technical qualities.
5. Exercise discretion and judgment in the performance of medical imaging procedures.
6. Provide patient care essential to radiologic procedures.
7. Recognize emergency patient conditions and initiating lifesaving first aid.

COURSE AND HOUR REQUIREMENTS

Major Courses	Credit Hours	Related Courses	Credit Hours
RAD 101	4	BIO 107	4
RAD 102	4	BIO 108	4
RAD 103	3	PHY 107	4
RAD 104	4	MAT 121	3
RAD 105	1	MAT 122	3
RAD 106	5	MAT 123	3
RAD 110	1	CAS 102	<u>4</u>
RAD 111	4		25
RAD 222	3		
RAD 113	1	General Education Courses	
RAD 114	5	ENG 130	3
RAD 121	4	ENG 131	3
RAD 123	1	ENG 132	3
RAD 124	8	HUM 101	3
RAD 131	4	PSY 101	3
RAD 134	8	PSY 201	3
RAD 141	2	SPH 204	<u>3</u>
RAD 201	4		21
RAD 203	8		
RAD 212	8		
RAD 223	8		
RAD 233	10		
RAD 245	1		
RAD 246	2		
PHY 108	<u>4</u>		
	107		

Total hours required for graduation = 153

**SUGGESTED SEQUENCE OF COURSES
RADIOLOGIC TECHNOLOGY -T061**

	Class	Hours Per Week			Credit Hours
		Lab	Clinical		
FIRST YEAR					
First Quarter - Fall					
RAD 0101	Positioning I	3	2	0	4
RAD 0106	Clinical I	0	0	15	5
RAD 0102	Principles of Radiographic Tech I	3	2	0	4
RAD 0104	Radiographic Anatomy	4	0	0	4
RAD 0110	Intro to Radiologic Technology	1	0	0	1
BIO 0107	Anatomy & Physiology I	<u>3</u>	<u>2</u>	<u>0</u>	<u>4</u>
		14	6	15	22
Second Quarter - Winter					
RAD 0111	Positioning II	3	2	0	4
RAD 0114	Clinical II	0	0	15	5
BIO 0108	Anatomy & Physiology II	3	2	0	4
RAD 0105	Critique I	1	0	0	1
MAT 0121	College Algebra I	3	0	0	3
PSY 0101	Intro to Psychology	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
		13	4	15	20

Third Quarter - Spring

PHY	0107	General Physics	4	0	0	4
MAT	0123	Trigonometry	3	0	0	3
RAD	0121	Positioning III	3	2	0	4
RAD	0113	Critique II	1	0	0	1
RAD	0124	Clinical III	<u>0</u>	<u>0</u>	<u>24</u>	<u>8</u>
			11	2	24	20

Fourth Quarter - Summer

PHY	0108	Radiation Physics	3	2	0	4
RAD	0123	Critique III	1	0	0	1
RAD	0134	Clinical IV	0	0	24	8
RAD	0141	Special Procedures	2	0	0	2
MAT	0122	College Algebra II	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
			9	2	24	18

SECOND YEAR**Fifth Quarter - Fall**

ENG	0130	Grammar & Composition	3	0	0	3
RAD	0201	Radiation Protection	4	0	0	4
RAD	0203	Clinical V	0	0	24	8
RAD	0103	Processing Technique	2	2	0	3
SPH	0204	Fundamentals of Speech	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
			12	2	24	21

Sixth Quarter - Winter

RAD	0131	Positioning IV	4	0	0	4
ENG	0131	Composition/Intro to Literature	3	0	0	3
RAD	0212	Clinical VI	0	0	24	8
CAS	0102	Microcomputer Applications	<u>4</u>	<u>0</u>	<u>0</u>	<u>4</u>
			11	0	24	19

Seventh Quarter - Spring

RAD	0222	Principles of Radiographic Tech II	2	2	0	3
RAD	0223	Clinical VII	0	0	24	8
RAD	0245	Seminar I	1	0	0	1
ENG	0132	Composition/Research/Document	3	0	0	3
HUM	0101	Dimensions of Human Experience	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
			9	2	24	18

Eighth Quarter - Summer

RAD	0233	Clinical VIII	0	0	30	10
RAD	0246	Seminar II	2	0	0	2
PSY	0201	Abnormal Psychology	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
			5	0	30	15

Total credit hours required for graduation = 153

ASSOCIATE IN APPLIED SCIENCE DEGREE ACCOUNTING (T016)

The purpose of the Accounting curriculum is to prepare the individual to enter the accounting profession through study of accounting principles, theories and practices with related study in law, finance, management and data processing operations.

The curriculum is designed to prepare the individual for entry-level accounting positions, such as junior accountant, bookkeeper, accounting clerk, cost clerk, payroll clerk and related data processing occupations.

With experience and additional education, the individual will be able to advance to positions such as systems accountant, cost accountant, budget accountant and property accountant.

In the process of successfully completing this program of study, the student will have demonstrated the ability to:

1. Analyze transactions and end-of-period deferral/accrual situations and prepare journal entries.
2. Post journal entries to general ledger accounts and subsidiary ledgers in a manual or computerized accounting system.
3. Be able to develop and carry through the entire accounting process from transaction through entries, income statement, balance sheet, and cash flows.
4. Know generally accepted accounting principles and the concepts and theories underlying the preparation of financial statements.
5. Know the theories and practices of the accounting process for proprietorships, partnerships, and corporations.
6. Be able to handle accounting for inventories using the various cost and procedure mechanisms that are applied to this accounting process.
7. Know the procedures and processes which are applied to accounting for equity and debt securities.
8. Know the accounting for job order, process and standard cost systems.
9. Prepare income tax returns for individuals and businesses.
10. Know and apply generally accepted auditing standards and the procedures employed in conducting an audit.

COURSE AND HOUR REQUIREMENTS

Major Courses	Credit Hours	Related Courses	Credit Hours
ACC 120	6	BUS 109	4
ACC 121	6	ECO 102	5
ACC 222	6	ECO 104	5
ACC 223	6	CAS 150	4
ACC 224	6	CAS 240	4
ACC 225	3		
ACC 269	3	*Select three of the following:	
ACC 229	4	BUS 115	4
ACC 230	4	BUS 116	4
BUS 123	4	BUS 101	4
BUS 124	4	BUS 219	4
ACC 226	3	BUS 235	4

Select one of the following:

ACC 227	6
ACC 291	<u>3</u>
	58-61

Select one of the following:

MAT 117	4
MAT 121	<u>3</u>
	37-38

General Education Courses

ENG 130	3
ENG 131	3
ENG 132	3
SPH 204	3
HUM 113	4
PSY 101	<u>3</u>
	19

Work Experience/Electives 0

Total hours required for graduation = 114-118

SUGGESTED SEQUENCE OF COURSES ACCOUNTING - T016

			HOURS		
			CLASS	LAB	CREDIT
FIRST YEAR					
Fall Quarter					
ACC	0120	Accounting I	4	4	6
BUS	0123	Business Finance I	4	0	4
BUS	0109	Business Math	4	0	4
		*Elective	<u>4</u>	<u>0</u>	<u>4</u>
			16	4	18
Winter Quarter					
ACC	0121	Accounting II	4	4	6
BUS	0124	Business Finance II	4	0	4
PSY	0101	Introduction to Psychology	3	0	3
ACC	0229	Taxes I	4	0	4
ENG	0130	English Grammar & Composition	<u>3</u>	<u>0</u>	<u>3</u>
			18	4	20

			HOURS		
			CLASS	LAB	CREDIT
Spring Quarter					
ACC	0222	Accounting III	4	4	6
ENG	0131	Composition & Intro to Literature	3	0	3
ACC	0230	Taxes II	4	0	4
ECO	0102	Economics I	<u>5</u>	<u>0</u>	<u>5</u>
			16	4	18
SECOND YEAR					
Fall Quarter					
			4	0	4
ACC	0223	Intermediate Accounting I	4	4	6
ACC	0225	Cost Accounting I	2	2	3
ECO	0104	Economics II	5	0	5
SPH	0204	Fundamentals of Speech	<u>3</u>	<u>0</u>	<u>3</u>
			18	6	21
Winter Quarter					
ACC	0224	Intermediate Accounting II	4	4	6
ACC	0226	Cost Accounting II	2	2	3
CAS	0150	Integrated Spreadsheets	3	2	4
ENG	0132	Composition/Research/Document	3	0	3
			<u>4</u>	<u>0</u>	<u>4</u>
			16	8	20
Spring Quarter					
ACC	0269	Auditing	3	0	3
CAS	0240	Automated Accounting Systems	3	2	4
HUM	0113	Professional Imaging	4	0	4
MAT	0117	Intro to Statistics	4	0	4
			or		
MAT	0121	College Algebra I	3	0	3
ACC	0291	Governmental Accounting	3	0	3
			or		
ACC	0227	Intermediate Accounting III	<u>4</u>	<u>4</u>	<u>6</u>
			17	6	18-21

Total credit hours required for graduation = 114-118

ASSOCIATE IN APPLIED SCIENCE DEGREE BUSINESS ADMINISTRATION (T018)

The Business Administration curriculum is designed to prepare an individual for entry into management positions.

The curriculum develops competencies in the application of management principles. Emphasis is placed on skill development in the area of management functions, computer applications and analysis, critical thinking and decision-making techniques, marketing, finance, legal aspects of business, oral and written communications, and the utilization of human resources.

Through the development of management competencies, the graduate will be able to function as a contributing member of a management team.

In the process of successfully completing this program of study, the student will have demonstrated the ability to:

1. Understand how the various statutes, codes and regulations which form today's legal environment affect the operation of business.
2. Understand the nature of the economic environment and be able to apply this understanding to the operation of business.
3. Acquire a basic understanding of the federal and state tax systems and how they affect the operations of business.
4. Develop self-confidence and leadership skills.
5. Be able to express concepts and ideas to other people by use of oral and written communications.
6. Understand markets and market research and the basic marketing concepts of products, price, promotion and distribution in order to succeed in reaching all consumers with products, services, and ideas.
7. Be able to perform basic tasks on the various machines found in a modern office and have a fundamental knowledge of key-boarding.
8. Acquire some knowledge of basic accounting procedures to enable the learner to keep records of business operations to satisfy the requirements of tax agencies, and to determine the success or failure of business procedures.
9. Understand financial statements and perform other simple analysis of the information.

COURSE AND HOUR REQUIREMENTS

Major Courses	Credit Hours	Related Courses	Credit Hours
BUS 101	4	CAS 150	4
BUS 115	4	ACC 120	6
BUS 116	4	ACC 121	6
ECO 102	5	ACC 222	6
ECO 104	5	BUS 123	4
BUS 204	4	BUS 124	4
BUS 219	4		
ACC 229	4	*Select one of the following:	
ACC 230	4	CAS 101	4
BUS 233	4	BUS 290	4
BUS 235	4	BUS 231	3
CAS 240	4	OSC 102	3
MKT 239	4	ACC 291	3
BUS 109	4		
	<u>4</u>	Select one of the following:	
	58	MAT 117	4
		MAT 121	<u>3</u>
			36-38
		General Education Courses	
		ENG 130	3
		ENG 131	3
		ENG 132	3
		SPH 204	3
		HUM 113	4
		PSY 101	<u>3</u>
			19
		Work Experience/Elective	3

Total credit hours required for graduation = 116-118

SUGGESTED SEQUENCE OF COURSES BUSINESS ADMINISTRATION - T018

			HOURS		
			CLASS	LAB	CREDIT
FIRST YEAR					
Fall Quarter					
ACC	0120	Accounting I	4	4	6
BUS	0109	Business Math	4	0	4
BUS	0115	Business Law I	4	0	4
BUS	0101	Introduction to Business	<u>4</u>	<u>0</u>	<u>4</u>
			16	4	18
Winter Quarter					
ACC	0121	Accounting II	4	4	6
ACC	0229	Taxes I	4	0	4
BUS	0116	Business Law II	4	0	4
BUS	0235	Business Management	4	0	4
ENG	0130	English Grammar & Composition	<u>3</u>	<u>0</u>	<u>3</u>
			19	4	21

			HOURS		
			CLASS	LAB	CREDIT
Spring Quarter					
ACC	0222	Accounting III	4	4	6
ENG	0131	Composition & Intro to Literature	3	0	3
ACC	0230	Taxes II	4	0	4
BUS	0204	Business Communications	4	0	4
CAS	0240	Automated Accounting Systems	<u>3</u>	<u>2</u>	<u>4</u>
			18	6	21
SECOND YEAR					
Fall Quarter					
BUS	0233	Human Resources Management	4	0	4
ENG	0132	Composition/Research/Document	3	0	3
BUS	0123	Business Finance I	4	0	4
CAS	0150	Integrated Spreadsheets	3	2	4
ECO	0102	Economics I	<u>5</u>	<u>0</u>	<u>5</u>
			19	2	20
Winter Quarter					
PSY	0101	Intro to Psychology	3	0	3
BUS	0219	Credit Procedures & Problems	4	0	4
BUS	0124	Business Finance II	4	0	4
ECO	0104	Economics II	5	0	5
		*Elective	<u>4</u>	<u>0</u>	<u>4</u>
			20	0	20
Spring Quarter					
SPH	0204	Fundamentals of Speech	3	0	3
MKT	0239	Marketing	4	0	4
HUM	0113	Professional Imaging	4	0	4
MAT	0117	Intro to Statistics	4	0	4
		or			
MAT	0121	College Algebra I	3	0	3
		*Elective	3	0	3
		or			
COE	0101	Work Experience	<u>0</u>	<u>0</u>	<u>2</u>
			14-21	0	16-18

Total credit hours required for graduation = 116-118

**ASSOCIATE IN APPLIED SCIENCE DEGREE
MICROCOMPUTER SYSTEMS TECHNOLOGY
(T192)**

The purpose of the Microcomputer Systems Technology curriculum is to prepare graduates for employment with business, industry, and government organizations that use or are planning to use computers to process and manage information.

Using microcomputers or other small computer systems, students will learn to apply a variety of commonly used business applications and systems software; set up microcomputer hardware and install software; develop user training programs and user documentation; evaluate and recommend hardware and software; assist users in resolving hardware and software problems; and develop control and security procedures. Students will also learn the fundamentals of microcomputer networking.

In the process of successfully completing this program of study, the student will have demonstrated the ability to:

1. Understand how a computer works, its capabilities and limitations.
2. Master a skilled knowledge of many current software packages including word processing, spreadsheets, databases, graphics, communications, and automated accounting.
3. Be able to provide training and support to people who use microcomputers by using good written and oral communications skills and proven training techniques.
4. Be able to productively use a current operating system, such as DOS/WINDOWS, for maintaining files and installing software.
5. Understand current microcomputer hardware technology in order to provide installation, replacement, and troubleshooting.
6. Understand how the data processing department fits in with the total business environment, providing organizational skills for design and implementation of office systems.
7. Be able to work effectively with both management and technical personnel in regard to using microcomputers for business systems.

COURSE AND HOUR REQUIREMENTS

Major Courses	Credit Hours	Related Courses	Credit Hours
OSC 102	3	BUS 109	4
CAS 101*	4	ACC 120	6
CAS 102	4	ACC 121	6
CAS 120*	4	BUS 204	4
CAS 106*	4	MAT 117	<u>4</u>
CAS 107	4		24
CAS 135	4		
CAS 231	4	General Education Courses	
CAS 150*	4	ENG 130	3
CAS 151	4	ENG 131	3
CAS 212*	4	ENG 103	3
CAS 213	4	SPH 204	3
CAS 130*	4	HUM 113	4
CAS 210*	4	Select three credit hours from the following prefixes:	
CAS 270	4	POL, PSY, SOC	<u>3</u>
CAS 140*	4		19
CAS 230*	4	Work Experience/Electives	3
CAS 240*	4		
CAS 260*	4		
CAS 160	4		
BUS 271	<u>4</u>		
	*		

Students must take a minimum of 70 credit hours from the major course. Classes denoted by an asterisk (*) are required.

Total hours required for graduation = 116

SUGGESTED SEQUENCE OF COURSES MICROCOMPUTER SYSTEMS TECHNOLOGY - T192

		HOURS		
		CLASS	LAB	CREDIT
FIRST YEAR				
Fall Quarter				
CAS	0101	Intro to Computer Technology	4	0 4
OSC	0102	Keyboarding (or Computer Elect)	2	2 3
ENG	0130	English Grammar & Composition	3	0 3
BUS	0109	Business Math	4	0 4
CAS	0102	Microcomputer Applications (or elect)	<u>4</u>	<u>0 4</u>
			17	2 18
Winter Quarter				
CAS	0106	Word Processing I	3	2 4
CAS	0150	Integrated Spreadsheets	3	2 4
ENG	0131	Composition & Intro to Literature	3	0 3
ACC	0120	Accounting I	<u>4</u>	<u>4 6</u>
			13	8 17

			HOURS		
			CLASS	LAB	CREDIT
Spring Quarter					
CAS	0120	Microcomputer Operating Systems	3	2	4
CAS		Computer Elective	4	0	4
SPH	0204	Fundamentals of Speech	3	0	3
ACC	0121	Accounting II	<u>4</u>	<u>4</u>	<u>6</u>
			14	6	17
Summer Quarter					
CAS	0240	Automated Accounting Systems	3	2	4
CAS		Computer Elective	<u>3</u>	<u>2</u>	<u>4</u>
			6	4	8
SECOND YEAR					
Fall Quarter					
CSC	0130	Microcomputer Graphics	3	2	4
CAS	0140	Hardware Maintenance & Install	3	2	4
BUS	0204	Business Communications	4	0	4
COE	0101	Work Experience or Elective	3	0	3
CAS	0230	Data Communications I	<u>3</u>	<u>2</u>	<u>4</u>
			16	6	19
Winter Quarter					
CAS	0212	Database Management	3	2	4
CAS		Computer Elective	4	0	4
HUM	0113	Professional Imaging	4	0	4
CAS		Computer Elective	4	0	4
ENG	103	Report Writing	<u>3</u>	<u>0</u>	<u>3</u>
			18	2	19
Spring Quarter					
CAS	0210	Microcomputer Office Systems	4	0	4
CAS		Computer Elective	4	0	4
SOC/PSY/POL		Social Science Elective	3	0	3
CAS	0260	Microcomputer Training & Support	4	0	4
MAT	0117	Introduction to Statistics	<u>4</u>	<u>0</u>	<u>4</u>
			19	0	19

Total credit hours required for graduation = 116

ASSOCIATE IN APPLIED SCIENCE TECHNOLOGY DEGREE INDUSTRIAL MANAGEMENT (T049)

The Industrial Management curriculum is designed to provide an individual with the ability to function effectively in supervisory and middle-management positions in industry. This program emphasizes study and application in areas such as business and industrial management, production methods and schedules, inventory control, work analysis, motivation techniques and human relations.

This curriculum is designed to prepare the individual to enter supervisory or middle-management positions, to provide an educational program for upgrading or retraining, and to provide an opportunity for the individual wanting to fulfill professional or general interest needs.

In the process of successfully completing this program of study, the student will have demonstrated the ability to:

1. Read, interpret, comprehend, and assimilate management material.
2. Quote and delineate the seven (7) principles of management.
3. Understand the critical role of the manager as one who inspires and leads subordinates to achieve common, pre-determined objectives.
4. Recognize the responsibility of the manager as to environmental laws and issues affecting his particular industry.
5. Understand the role managers **must** play in providing a safe and healthy work environment for **all** employees.
6. Understand the basics of the production process and his responsibility therein.
7. Continue to develop and improve an effective communication style.
8. Recognize the need to promote, nurture, and expand the bond of loyalty between labor and management.
9. Understand and appreciate the **real** meaning of **security**.

COURSE AND HOUR REQUIREMENTS

Major Course	Credit Hours	Related Courses	Credit Hours
ECO 201	4	BUS 123	4
CAS 101	4	MAT 101	4
ENV 206	4	MAT 102	4
ISC 107	4	MAT 117	4
ISC 120	4	ISC 214	<u>4</u>
ISC 121	4		20
BPR 122	4		
ISC 209	4	General Education Courses	
ISC 211	4	ENG 103	3
ISC 213	4	ENG 130	3
ISC 218	4	ENG 131	3
ISC 220	4	ENG 132	3
ISC 224	4	SPH 204	3
ISC 243	4	PSY 101	<u>3</u>
PHY 107	<u>4</u>		18
	60	Work Experience/Electives	12

Total hours required for graduation = 110

SUGGESTED SEQUENCE OF COURSES INDUSTRIAL MANAGEMENT TECHNOLOGY - T049

			HOURS		
			CLASS	LAB	CREDIT
FIRST YEAR					
Fall Quarter					
ENG	0130	English Grammar & Composition	3	0	3
ISC	0120	Principles of Industrial Mangmt I	4	0	4
MAT	0101	Principles of Math	4	0	4
ENV	0205	Environmental Law	<u>4</u>	<u>0</u>	<u>4</u>
			15	0	15
Winter Quarter					
ENG	0131	Composition & Intro to Literature	3	0	3
ISC	0121	Principles of Industrial Mangmt II	4	0	4
MAT	0102	Introduction to Algebra	4	0	4
ISC	0107	OSHA	<u>4</u>	<u>0</u>	<u>4</u>
			15	0	15
Spring Quarter					
ENG	0132	Composition/Research/Document	3	0	3
BPR	0122	Industrial Drawing	4	0	4
MAT	0117	Introduction to Statistics	4	0	4
CAS	0101	Intro to Computer Technology	<u>4</u>	<u>0</u>	<u>4</u>
			15	0	15
Summer Quarter					
ENG	0103	Report Writing	3	0	3
PHY	0107	General Physics	4	0	4
PSY	0101	Introduction to Psychology	<u>3</u>	<u>0</u>	<u>3</u>
			10	0	10

			HOURS		
			CLASS	LAB	CREDIT
SECOND YEAR					
Fall Quarter					
ECO	0201	Labor Economics	4	0	4
ISC	0209	Plant Layout	4	0	4
BUS	0123	Business Finance I	<u>4</u>	<u>0</u>	<u>4</u>
			12	0	12
Winter Quarter					
ISC	0213	Production Planning I	4	0	4
ISC	0218	Plant Security	4	0	4
SPH	0204	Fundamentals of Speech	<u>3</u>	<u>0</u>	<u>3</u>
			11	0	11
Spring Quarter					
ISC	0211	Work Measurement	4	0	4
ISC	0214	Production Planning II	4	0	4
ISC	0224	Elements of Industrial Hygiene	<u>4</u>	<u>0</u>	<u>4</u>
			12	0	12
Summer Quarter					
ISC	0220	Management Problems	4	0	4
ISC	0243	Free Enterprise	<u>4</u>	<u>0</u>	<u>4</u>
			8	0	8

NOTE: Students are required to complete 12 additional quarter hours of electives - 6 of which may be experiential credit from work.

Total credit hours required for graduation = 110



**ASSOCIATE IN APPLIED SCIENCE DEGREE
ADMINISTRATIVE OFFICE TECHNOLOGY
(T030)**

This curriculum prepare individuals to perform secretarial and administrative support duties in a variety of offices including those offices with computerized, automated functions.

Students in this curriculum study keyboarding and word/information processing to develop skills in the preparation of business correspondence, reports, statistical copy, manuscripts and business forms. Administrative support courses emphasize typical office tasks such as scheduling appointments, composing correspondence and performing reprographic duties. Training is also provided in analyzing and coordinating office duties and systems. Skills and knowledge are taught in the areas of electronic document storage and retrieval and computer software utilization.

Graduates of the program may be employed in offices in private business establishments involved in retailing, marketing, advertising, and manufacturing as well as offices in local, state, and federal government.

In the process of successfully completing this program of study, the student will have demonstrated the ability to:

1. Compose and type business correspondence on electronic typewriters and personal computers to produce mailable (error free) typewritten copy from machine transcription and rough draft material.
2. Keyboard, edit, move, format, merge, paginate, and print business correspondence from WordPerfect 5.1 software on personal computers.
3. Communicate effectively using both oral and written communications. Employ necessary skills, technical information, and judgment required in assisting an executive. Learn to work independently.
4. Demonstrate knowledge of manual record management by filing correspondence by alphabetic, numeric, subject, and geographic filing systems, and exhibiting knowledge of database filing, records storage, transfer, retention, disposal, and filing supplies and equipment.
5. Demonstrate positive human relations and the ability to function as a responsible member of the work force and society. Understand the implications of personal appearance for succeeding in the business world.

6. Perform essential accounting skills used in the accounting cycle of the executive office.

COURSE AND HOUR REQUIREMENTS

Major Courses	Credit Hours	Related Courses	Credit Hours
OSC 102	3	CAS 101	4
OSC 103	3	CAS 135	4
OSC 104	3	BUS 271	4
OSC 205	3	CAS 150	4
OSC 106	3	BUS 231	3
OSC 107	3	BUS 109	4
OSC 108	3	CAS 240	4
OSC 206E	3	BUS 204	4
OSC 207E	3		
OSC 208E	3	Select one of the following:	
OSC 211	1		
OSC 214	3	MAT 117	4
OSC 112	3	MAT 121	<u>3</u>
CAS 106	4		34-35
CAS 107	4	General Education Courses	
OSC 201	3	ENG 130	3
ACC 120	6	ENG 131	3
ACC 121	6	ENG 132	3
OSC 210	<u>3</u>	SPH 204	3
	63	HUM 113	4
		PSY 101	<u>3</u>
			19
		Work Experience/Electives	3

Total hours required for graduation = 119-120

SUGGESTED SEQUENCE OF COURSES ADMINISTRATIVE OFFICE TECHNOLOGY - T030

			Hours		
			Class	Lab	Credit
FIRST YEAR					
Fall Quarter					
OSC 0102	Keyboarding/Typewriting		2	2	3
OSC 0106	Shorthand I		2	2	3
ENG 0130	English Grammar & Composition		3	0	3
OSC 0112	Records Management		2	2	3
BUS 0271	Office Management		4	0	4
BUS 0204	Business Communications		<u>4</u>	<u>0</u>	<u>4</u>
			17	6	20
Winter Quarter					
OSC 0103	Document Formatting		2	2	3
PSY 0101	Introduction to Psychology		3	0	3
OSC 0107	Shorthand II		2	2	3
ENG 0131	Composition & Intro to Lit		3	0	3
CAS 0106	Word Processing I		3	2	4
BUS 0109	Business Math		<u>4</u>	<u>0</u>	<u>4</u>
			17	6	20

Spring Quarter

OSC	0104	Document Production/Word Proc	2	2	3
OSC	0108	Shorthand III	2	2	3
ENG	0132	Composition/Research/Document	3	0	3
OSC	0201	Machine Dictation & Transcription	2	2	3
CAS	0150	Integrated Spreadsheets	3	2	4
CAS	0107	Word Processing II	<u>3</u>	<u>2</u>	<u>4</u>
			15	10	20

SECOND YEAR**Fall Quarter**

ACC	0120	Accounting I	4	4	6
BUS	0231	Leadership Development	2	2	3
CAS	0101	Intro to Computer Technology	4	0	4
SPH	0204	Fundamentals of Speech	3	0	3
OSC	0205	Adv. Word Processing App. I	2	2	3
OSC	0206E	Dictation & Transcription I	<u>2</u>	<u>2</u>	<u>3</u>
			17	10	22

Winter Quarter

ACC	0121	Accounting II	4	4	6
CAS	0135	Desktop Publishing	3	2	4
HUM	0113	Professional Imaging	4	0	4
OSC	0210	Adv. Word Processing App. II	2	2	3
OSC	0207E	Dictation & Transcription II	<u>2</u>	<u>2</u>	<u>3</u>
			15	10	20

Spring Quarter

COE	0101	Work Experience or Elective	3	0	3
OSC	0214	Administrative Office Procedures	2	2	3
OSC	0211	Office Machines	0	2	1
MAT	0117	Intro to Statistics or	4	0	4
MAT	0121	College Algebra I	3	0	3
OSC	0208E	Dictation & Transcription III	2	2	3
CAS	0240	Automated Accounting Systems	<u>3</u>	<u>2</u>	<u>4</u>
			13/14	8	17/18

Total credit hours required for graduation = 119-120

**ASSOCIATE IN APPLIED SCIENCE DEGREE
GENERAL OFFICE
(T033)**

The purposes of the General Office curriculum are to prepare the individual to enter clerical office occupations, provide an educational program for individuals wanting education for upgrading (moving from one position to another) or retraining (moving from present position to a clerical position) and provide an opportunity for individuals wanting to fulfill professional or general interest needs.

These purposes will be fulfilled through skill development in the areas of keyboarding, records management and automated office equipment. Through these skills and through development of personal competencies and qualities, the individual will be able to function effectively in office-related activities.

In the process of successfully completing this program of study, the student will have demonstrated the ability to:

1. Compose and type business correspondence on personal computers or word processing equipment and produce mailable (error free) copy from machine transcription and rough draft material.
2. Perform essential secretarial accounting skills used in the accounting cycle of an executive office.
3. Demonstrate positive human relations and the ability to function as a responsible member of the work force and society. Understand the implications of personal appearance for succeeding in the business world.
4. Produce accurate correspondence by keyboarding, editing, page numbering, creating tabulations, storing and merging from WordPerfect 5.1 software on personal computers.
5. Communicate effectively using both oral and written communications. Learn to work independently.
6. Demonstrate knowledge of manual record management by filing correspondence by alphabetic, numeric, subject, and geographical filing systems, and exhibiting knowledge of storage records, transferring, and filing supplies and equipment.

COURSE AND HOUR REQUIREMENTS

Major Courses	Credit Hours	Related Courses	Credit Hours
OSC 102	3	BUS 109	4
OSC 103	3	BUS 204	4
OSC 104	3	CAS 240	4
OSC 205	3	CAS 101	4
OSC 210	3	BUS 231	3
OSC 112	3	CAS 135	4
OSC 201	3	CAS 102	4
OSC 214	3	BUS 101	4
OSC 211	1		
CAS 106	4	Select one of the following:	
CAS 107	4		
BUS 271	4	MAT 117	4
ACC 120	6	MAT 121	<u>3</u>
ACC 121	6		34-35
CAS 150	<u>4</u>	General Education Courses	
	53	ENG 130	3
		ENG 131	3
		ENG 132	3
		SPH 204	3
		HUM 113	4
		PSY 101	<u>3</u>
			19
		Work Experience/Electives	3

Total hours required for graduation = 109-110

SUGGESTED SEQUENCE OF COURSES GENERAL OFFICE - T033

		HOURS		
		CLASS	LAB	CREDIT
FIRST YEAR				
Fall Quarter				
OSC	0102	Keyboarding/Typewriting	2	3
BUS	0101	Introduction to Business	4	4
ENG	0130	English Grammar & Composition	3	3
OSC	0112	Records Management	2	3
CAS	0101	Intro to Computer Technology	4	4
BUS	0204	Business Communications	<u>4</u>	<u>4</u>
			19	21
Winter Quarter				
OSC	0103	Document Formatting	2	3
PSY	0101	Introduction to Psychology	3	3
CAS	0150	Integrated Spreadsheets	3	4
ENG	0131	Composition & Intro to Lit	3	3
CAS	0106	Word Processing I	3	4
BUS	0109	Business Math	<u>4</u>	<u>4</u>
			18	21

			HOURS		
			CLASS	LAB	CREDIT
Spring Quarter					
OSC	0104	Document Production/Word Proc	2	2	3
CAS	0102	Microcomputer Applications	4	0	4
ENG	0132	Composition/Research/Document	3	0	3
OSC	0201	Machine Dictation & Transcription	2	2	3
SPH	0204	Fundamentals of Speech	3	0	3
CAS	0107	Word Processing II	<u>3</u>	<u>2</u>	<u>4</u>
			17	6	20
SECOND YEAR					
Fall Quarter					
ACC	0120	Accounting I	4	4	6
BUS	0271	Office Management	4	0	4
CSC	0135	Desktop Pub.	3	2	4
OSC	0205	Adv. Word Processing App. I	<u>2</u>	<u>2</u>	<u>3</u>
			13	8	17
Winter Quarter					
COE	0101	Work Experience or Elective	3	0	3
ACC	0121	Accounting II	4	4	6
BUS	0231	Leadership Development	2	2	3
OSC	0210	Adv. Word Processing App. II	<u>2</u>	<u>2</u>	<u>3</u>
			11	8	15
Spring Quarter					
OSC	0214	Administrative Office Procedures	2	2	3
OSC	0211	Office Machines	0	2	1
HUM	0113	Professional Imaging	4	0	4
MAT	0117	Intro to Statistics or	4	0	4
MAT	0121	College Algebra I	3	0	3
CAS	0240	Automated Accounting Systems	<u>3</u>	<u>2</u>	<u>4</u>
			12-13	6	15-16

Total credit hours required for graduation = 109-110

**ASSOCIATE IN APPLIED SCIENCE DEGREE
MEDICAL OFFICE TECHNOLOGY
(T032)**

This curriculum prepares the individuals to enter the medical secretarial profession. The medical secretary performs secretarial duties utilizing the knowledge of medical terminology and medical office and/or laboratory procedures.

Skills are taught in processing medical documents using computerized functions and/or manual functions. Compiling and recording medical charts, reports, case histories, and correspondence using the electronic typewriter or automated office equipment, scheduling appointments, and preparing and sending bills to patients are duties that are performed in the medical office and are taught in this curriculum.

Graduates of the curriculum may find employment opportunities with medical supply and equipment manufacturers, medical laboratories, the office of physicians, hospitals, and other medical care providers.

In the process of successfully completing this program of study, the student will have demonstrated the ability to:

1. Type business correspondence and produce accurate medical reports and forms on electronic typewriters and personal computers from shorthand notes and transcription machines.
2. Produce accurate medical reports and correspondence by keyboarding, editing, paginating, creating tabulations, storing paragraphs and executing mail merges from WordPerfect 5.1 software on personal computers.
3. Communicate effectively using both oral and written communications. Employ necessary skills, technical information, and judgment required in assisting a physician. Learn to work independently.
4. Demonstrate knowledge of manual record management by filing correspondence by alphabetic, numeric, subject, and geographic filing systems, and exhibiting knowledge of database filing, records storage, transfer, retention, disposal, filing supplies, and equipment.
5. Demonstrate positive human relations, and function as a responsible member of the work force and society. Understand the implications of personal appearance for succeeding in the business world.
6. Perform essential accounting skills used in the accounting cycle of a medical office.
7. Produce accurate health code books, and follow up on delinquent accounts.

COURSE AND HOUR REQUIREMENTS

Major Courses	Credit Hours	Related Courses	Credit Hours
OSC 102	3	BUS 109	4
OSC 103	3	ACC 120	6
OSC 104	3	ACC 121	6
OSC 205	3	CAS 150	4
OSC 106	3	OSC 248	3
OSC 107	3	BIO 107	4
OSC 108	3	BIO 108	4
OSC 206E	3	CAS 240	4
BUS 271	4		
OSC 183M	4	Select one of the following:	
OSC 284M	4		
OSC 202M	3	MAT 117	4
OSC 203M	3	MAT 121	<u>3</u>
OSC 216	3		38-39
OSC 112	3	General Education Courses	
OSC 211	1	ENG 130	3
BUS 204	4	ENG 131	3
CAS 106	4	ENG 132	3
CAS 107	<u>4</u>	SPH 204	3
	61	HUM 113	4
		PSY 101	<u>3</u>
			19
		Work Experience/Electives	0

Total hours required for graduation = 118-119

SUGGESTED SEQUENCE OF COURSES MEDICAL OFFICE TECHNOLOGY - T032

			HOURS		
			CLASS	LAB	CREDIT
FIRST YEAR					
Fall Quarter					
OSC 0183M	Medical Term. & Vocabulary I	4	0	4	
OSC 0106	Shorthand I	2	2	3	
BUS 0204	Business Communications	4	0	4	
OSC 0102	Keyboarding/Typewriting	2	2	3	
ENG 0130	English Grammar & Composition	3	0	3	
OSC 0112	Records Management	<u>2</u>	<u>2</u>	<u>3</u>	
		17	6	20	
Winter Quarter					
OSC 0284M	Medical Term. & Vocabulary II	4	0	4	
ENG 0131	Composition & Intro to Literature	3	0	3	
OSC 0103	Document Formatting	2	2	3	
OSC 0107	Shorthand II	2	2	3	
BIO 0107	Anatomy & Physiology I	3	2	4	
CAS 0106	Word Processing I	3	2	4	
PSY 0101	Introduction to Psychology	<u>3</u>	<u>0</u>	<u>3</u>	
		20	8	24	

			HOURS		
			CLASS	LAB	CREDIT
Spring Quarter					
OSC	0104	Document Prod/Word Processing	2	2	3
ENG	0132	Composition/Research/Document	3	0	3
OSC	0108	Shorthand III	2	2	3
BIO	0108	Anatomy & Physiology II	3	2	4
CAS	0107	Word Processing II	<u>3</u>	<u>2</u>	<u>4</u>
			13	8	17
SECOND YEAR					
Fall Quarter					
OSC	0202M	Medical Dict/Transcription I	2	2	3
OSC	0205	Adv Word Processing Application I	2	2	3
ACC	0120	Accounting I	4	4	6
OSC	0206E	Dictation & Transcription I	2	2	3
BUS	0109	Business Math	<u>4</u>	<u>0</u>	<u>4</u>
			14	10	19
Winter Quarter					
CAS	0150	Integrated Spreadsheets	3	2	4
OSC	0203M	Medical Dictation II	2	2	3
OSC	0216	Medical Secretarial Procedures	2	2	3
ACC	0121	Accounting II	4	4	6
OSC	0211	Office Machines	0	2	1
HUM	0113	Professional Imaging	<u>4</u>	<u>0</u>	<u>4</u>
			15	12	21
Spring Quarter					
OSC	0248	Medical Insurance	2	2	3
BUS	0271	Office Management	4	0	4
CAS	0240	Automated Accounting Systems	3	2	4
MAT	0117	Intro to Statistics or	4	0	4
MAT	0121	College Algebra I	3	0	3
SPH	0204	Fundamentals of Speech	<u>3</u>	<u>0</u>	<u>3</u>
			15-16	4	17-18

Total credit hours required for graduation = 118-119

ASSOCIATE IN APPLIED SCIENCE DEGREE FASHION MERCHANDISING AND MARKETING (T143)

The Fashion Merchandising and Marketing curriculum is designed to provide individuals with fundamental and transferable skills in fashion merchandising and marketing activities. The individual will become familiar with various areas and the components that make the fashion industry and study the principals that apply to marketing. Emphasis will be placed on merchandising technique, visual merchandising, marketing, buying, selling, human resource management, stock planning and pricing special events, promotional activities, and textiles.

Employment opportunities as assistant buyers, fashion coordinator, fashion stylist, display specialist, merchandise and store managers or owners exist within department store and specialty shops. Other areas of employment are the wholesale and manufacturing industry, buying offices, advertising agencies, special events coordinators and human resource management.

In the process of successfully completing this program of study, the student will have demonstrated the ability to:

1. Coordinate a line of garments, calculate the construction cost and the promotional needs.
2. Know generally the principles and concepts and the theories involved in consumer behavior and fashion merchandising.
3. Generate a promotional plan for a budget, business, or season.
4. Analyze and forecast trends, using knowledge of the history of fashion.
5. Prepare a six-month buying plan that corresponds to the past records and projected profit and promotional needs.
6. Organize and produce special events in a logical, well planned manner.

COURSE AND HOUR REQUIREMENTS

Major Courses	Credit Hours	Related Courses	Credit Hours
MKT 249	4	ART 101	3
MKT 250	4	MKT 221	4
MKT 260	4	OSC 102	3
MKT 101	4	BUS 233	4
MKT 102	3	MKT 245	4
MKT 103	4	ECO 102	5
MKT 104	2	HUM 110	4
MKT 106	4	CAS 101	4
MKT 208	4	MKT 222	4
MKT 209	4	MAT 117	<u>4</u>
MKT 210	4		39
MKT 211	4		
MKT 212	4	General Education Courses	
HUM 113	<u>4</u>	ENG 130	3
	53	ENG 131	3
		ENG 132	3
		SPH 204	3
		REL 101	3
		SOC 101	<u>3</u>
			18
		Work Experience/Electives	6
		Total hours required for graduation =	116

SUGGESTED SEQUENCE OF COURSES
FASHION MERCHANDISING & MARKETING - T143

			HOURS		
			CLASS	LAB	CREDIT
FIRST YEAR					
Fall Quarter					
MKT	0101	Princ of Fashion Merchandising	4	0	4
MKT	0102	Modeling and Social Usage	2	2	3
MKT	0104	Fashion Sketching	2	0	2
ENG	0130	English Grammar & Composition	3	0	3
SOC	0101	Introduction to Sociology	<u>3</u>	<u>0</u>	<u>3</u>
			14	2	15
Winter Quarter					
HUM	0113	Professional Imaging	4	0	4
HUM	0110	History of Dress	4	0	4
MKT	0103	Fashion Accessories	4	0	4
MAT	0117	Intro to Statistics	4	0	4
ART	0101	Art Appreciation	<u>3</u>	<u>0</u>	<u>3</u>
			19	0	19
Spring Quarter					
MKT	0106	Fabric Science	4	0	4
MKT	0222	Bridal Consulting	4	0	4
MKT	0221	Menswear	4	0	4
ENG	0131	Composition/Intro to Literature	3	0	3
SPH	0204	Fundamentals of Speech	3	0	3
OSC	0102	Keyboarding/Typewriting	<u>2</u>	<u>2</u>	<u>3</u>
			20	2	21

			HOURS		
			CLASS	LAB	CREDIT
SECOND YEAR					
Fall Quarter					
MKT	0210	Fashion Advertising & Sales Promo	4	0	4
MKT	0211	Intro to Apparel Design	4	0	4
MKT	0249	Intro to Fashion Buying/Merch	4	0	4
REL	0101	Major World Religions	3	0	3
ENG	0132	Composition/Research/Document	<u>3</u>	<u>0</u>	<u>3</u>
			18	0	18
Winter Quarter					
MKT	0250	Advanced Buying	4	0	4
MKT	0260	Visual Merchandising	4	0	4
MKT	0245	Retailing	4	0	4
CAS	0101	Intro to Computer Technology	4	0	4
ECO	0102	Economics I	<u>5</u>	<u>0</u>	<u>5</u>
			21	0	21
Spring Quarter					
MKT	0208	Fashion Salesmanship	4	0	4
MKT	0209	Fashion Writing & Communications	4	0	4
MKT	0212	Psychology of Dress	4	0	4
BUS	0233	Human Resources Management	4	0	4
MKT	0239	Marketing/Elective	4	0	4
		Elective	<u>2</u>	<u>0</u>	<u>2</u>
			22	0	22

REAL ESTATE (Technical Specialty) (T166)

The purpose of the Real Estate (Technical Specialty) curriculum is to provide the prelicensing education requirements needed for real estate salespersons and brokers.

The courses required by the North Carolina Real Estate Commission for prelicensing which are covered in this curriculum are Fundamentals of Real Estate, Real Estate Law, Real Estate Finance, and Brokerage Operations. In addition to these courses, Real Estate Math is also included.

After successful completion of Fundamentals of Real Estate, an individual may make application with the Real Estate Commission to take the prelicensing real estate salesperson examination. After successful completion of all the courses required by the Real Estate Commission, an individual may make application with the Commission to take the real estate prelicensing broker examination.

Employment opportunities are available in real estate firms as salespersons or brokers as well as a real estate broker in one's own business.

Upon completion of this course a student will have obtained the hours of education required by the North Carolina Real Estate Commission to sit for the Real Estate Salesmen Licensing Examination. Along with obtaining the education hours required, an individual must possess a working knowledge of the following:

1. "Property Ownership and Interest", transfer of title, land use controls, landlord and tenant law, federal income taxation of homeownership, and property management.
2. Real estate brokerage law and practices such as law of agency, fair housing, basic contract law, closing statements, property management.
3. License Law, Real Estate Commission rules and trust account guidelines.
4. How to obtain financing for a buyer and be able to define types of financing, sources of financing and qualify buyers as to the type financing needed to purchase a particular property.
5. Value a house or property according to basic value concepts.
6. Learn to use real estate mathematics such as: finance calculations, appraisal calculations, closing statement prorations and problems; miscellaneous calculations such as: commissions, estimating sale price to net seller a designated amount, profit/loss area, revenue stamps, income tax, real estate tax.

COURSE AND HOUR REQUIREMENTS

Major Courses	Credit Hours	Related Courses	Credit Hours
RLS 162	6	BUS 109	<u>4</u>
RLS 164	3		4
RLS 209	3		
RLS 234	<u>3</u>	Work Experience/Electives	0
	15		

Total hours required for graduation = 19

**ASSOCIATE IN APPLIED
SCIENCE DEGREE
ELECTRONICS ENGINEERING
TECHNOLOGY (T045)**

The Electronics curriculum provides a basic background in electronic related theory, with practical applications of electronics for business and industry. Courses are designed to develop competent electronics technicians who may work as assistants to engineers or as liaisons between engineers and skilled craftpersons.

The electronics technician will start in one or more of the following areas: research, development, production, maintenance or sales. The graduate may begin as an electronics technician, and engineering aide, laboratory technician, supervisor or equipment specialist.

Upon successful completion the student will demonstrate the ability to:

1. Design and build circuits that include semiconductor devices, Zener diodes, transistors, SCRs, and Triacs.
2. Use basic test equipment and measuring instruments.
3. Design, build, and analyze circuits with operational amps, microprocessor chips, RAM, and PROM.
4. Use a personal computer to solve problems relating to circuit layout, design, and analysis.
5. Perform basic electronic experiments and present the results in an accurate, well-written technical report.

COURSE AND HOUR REQUIREMENTS

Major Courses	Credit Hours	Related Courses	Credit Hours
ELN 112	4	CAS 140	4
ELN 113	4	MAT 102	4
ELN 114	4	MAT 121	3
ELC 115	4	MAT 122	3
ELN 103	4	MAT 123	3
ELN 121	4	PHY 201	4
ELN 122	4	PHY 202	4
ELN 123	4	PHY 203	4
ELN 208	4	CAS 102	4
ELN 218	4		33
ELN 219	4		
ELN 235	4	General Education Courses	
ELN 242	4	ART 101	3
ELN 243	4	ENG 130	3
ELN 249	4	ENG 131	3
ELN 246	4	ENG 132	3
ELN 251	4	SPH 204	3
ELN 252 (optional-elective)	4	PSY 101	3
	<hr/>		<hr/>
	68		18
		Work Experiences/Electives	4
		Total hours required for graduation = 123	

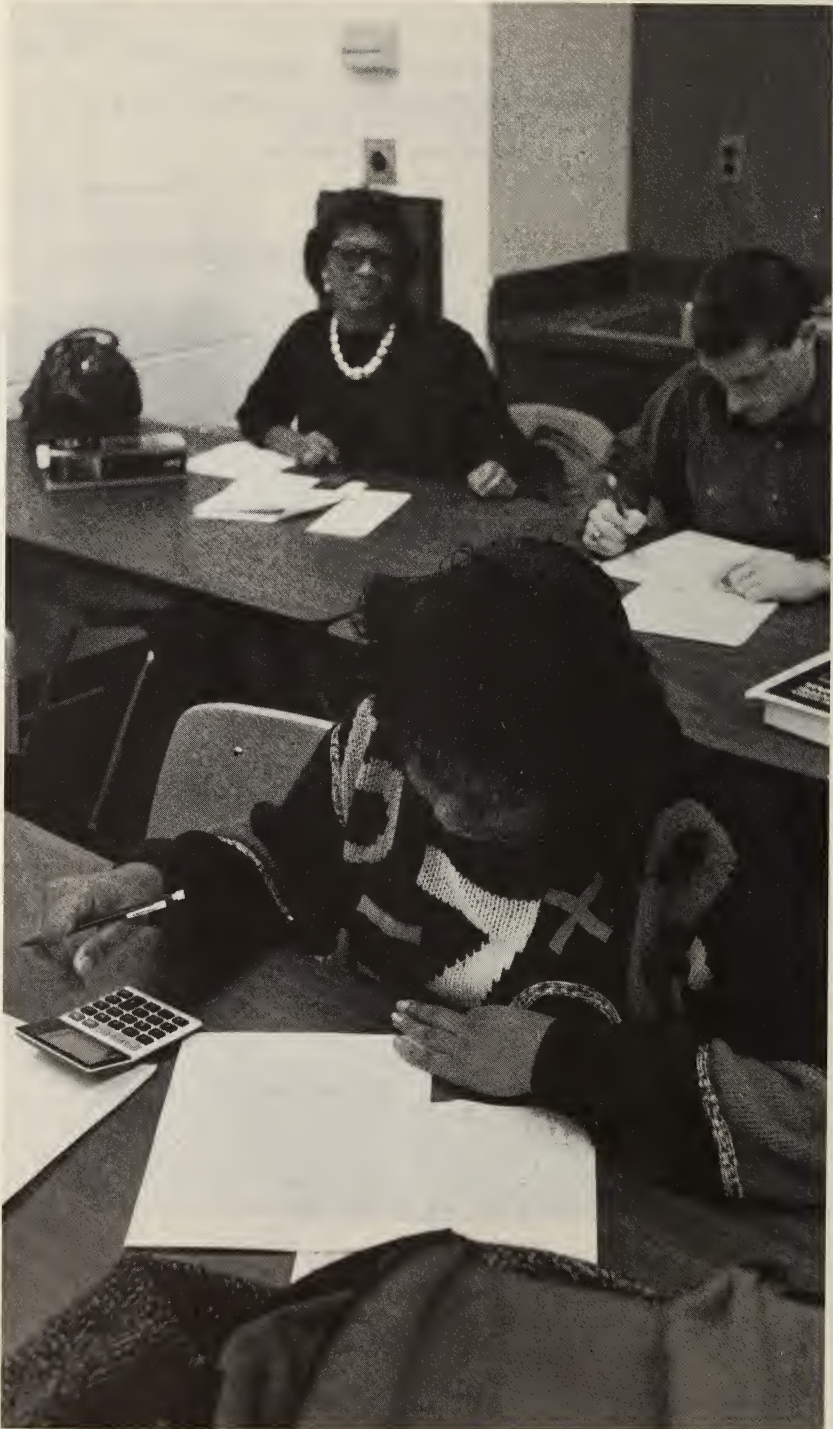
SUGGESTED SEQUENCE OF COURSES ELECTRONICS ENGINEERING TECHNOLOGY - T045

			HOURS		
			CLASS	LAB	CREDIT
FIRST YEAR					
Fall Quarter					
ELN	0112	Electronic Fundamentals I	3	2	4
ELN	0218	Logic Fundamentals	3	2	4
MAT	0102	Introduction to Algebra	4	0	4
ENG	0130	English Grammar & Composition	<u>3</u>	<u>0</u>	<u>3</u>
			13	4	16
Winter Quarter					
ELN	0113	Electronics Fundamentals II	3	2	4
ELN	0219	Pulse & Logic Circuits	3	2	4
MAT	0121	College Algebra I	3	0	3
ENG	0131	Composition/Intro to Literature	3	0	3
CAS	0102	Microcomputer Applications	<u>4</u>	<u>0</u>	<u>4</u>
			16	4	18
Spring Quarter					
ELN	0114	Active Devices	3	2	4
ELN	0123	Introduction to Microprocessors	3	2	4
MAT	0123	Trigonometry	3	0	3
ENG	0132	Composition/Research/Document	<u>3</u>	<u>0</u>	<u>3</u>
			12	4	14
Summer Quarter					
ELN	0242	Electronic Systems I	3	2	4
ELN	0121	Electronic Circuits I	3	2	4
MAT	0122	College Algebra II	<u>3</u>	<u>0</u>	<u>3</u>
			9	4	11
SECOND YEAR					
Fall Quarter					
ELN	0122	Electronic Circuits II	3	2	4
ELN	0243	Electronic Systems II	3	2	4
PHY	0201	Physics I	3	2	4
PSY	0101	Introduction to Psychology	<u>3</u>	<u>0</u>	<u>3</u>
			12	6	15
Winter Quarter					
ELN	0103	Circuit Layout and Design	3	2	4
ELN	0208	Industrial Electronics	3	2	4
PHY	0202	Physics II	3	2	4
ART	0101	Art Appreciation	3	0	3
ELC	0115	Rotary Machines and Control	<u>3</u>	<u>2</u>	<u>4</u>
			15	8	19
Spring Quarter					
ELN	0235	Industrial Instrumentation	3	2	4
ELN	0251	Intr to PLCs	3	2	4
PHY	0203	Physics III	3	2	4
SPH	0204	Fundamentals of Speech	<u>3</u>	<u>0</u>	<u>3</u>
			12	6	15

			HOURS		
			CLASS	LAB	CREDIT
Summer Quarter					
ELN	0246	Electronic Systems Project	3	2	4
ELN	0249	Elect Technique & Problem Solving	3	2	4
CAS	0140	Hardware Maintenance and Installation	3	2	4
		Elective	<u>4</u>	<u>0</u>	<u>4</u>
			13	6	16

Total credit hours required for graduation = 123





DIPLOMA CREDIT PROGRAMS



VOCATIONAL DIPLOMAS

AIR CONDITIONING, HEATING, AND REFRIGERATION (V024)

The Air Conditioning, Heating and Refrigeration curriculum is designed to teach knowledge and skills necessary for servicing and installing residential and light commercial climate control equipment. Instruction will include heating and cooling theory, applied electricity and electronics, and the operating principles for a wide-range of heating and cooling equipment. The diploma program will emphasize start-up and service skills for oil, gas and electric furnaces, air-cooled air conditioning and air-to-air heat pumps.

Advanced diploma level programs will provide for more in-depth study and experience and will also include service and installation of water-cooled air conditioners, water source heat pumps, variable speed heat pumps, conventional hydronic systems and residential and light commercial system design.

Upon successful completion of the program, the student will demonstrate the ability to:

1. Service/install a room heating and cooling unit according to manufacturer's specifications.
2. Service/install residential and light commercial air conditioning equipment.
3. Service/install residential and light heat pumps.
4. Design/install residential and light commercial air distribution systems.
5. Balance air distribution system for heating and cooling.
6. Troubleshoot and repair controls.
7. Evacuate and charge refrigeration and cooling systems.
8. Use all tools and equipment necessary to make repairs on cooling and heating equipment.

COURSE AND HOUR REQUIREMENTS DAY SEQUENCE

Fall Quarter	Title	Hours		
		Class	Shop	Credit
AHR 1121	Principles of Refrigeration	2	6	4
DFT 110	Introduction to Drafting	4	0	4
ELC 1102	Basic Electricity for Air Conditioning, Heating, and Refrigeration	2	6	4
MAT 1101	Vocational Basic Arithmetic	4	0	4
WLD 1101	Basic Gas Welding	1	3	2
		13	15	18

			Hours		Credit
			Class	Lab	
Winter Quarter					
AHR	1115	Fundamentals of Heating	2	6	4
PHY	1101	Applied Physics	4	0	4
AHR	1123	Principles of Air Conditioning I	2	6	4
BPR	1116	Blueprint Reading: Air Conditioning	4	0	4
ISC	1101	General Industrial Survey	<u>4</u>	<u>0</u>	<u>4</u>
			16	12	20
Spring Quarter					
AHR	1128	Automatic Controls	2	6	4
ENG	1102	Communication Skills	4	0	4
AHR	1126	All Year Comfort Systems	2	6	4
PSY	1101	Human Relations	<u>4</u>	<u>0</u>	<u>4</u>
			12	12	16
Summer Quarter					
AHR	1122	Domestic and Commercial Refrigeration	2	6	4
AHR	1131	State AC, Heat, Refrigeration License Law	4	0	4
AHR	1124	Air Condition and Refrigeration Servicing	2	6	4
AHR	1130	Year Around Duct System Design	<u>4</u>	<u>0</u>	<u>4</u>
			12	12	16

Total hours required for graduation = 70

NIGHT SEQUENCE**FIRST YEAR****Fall Quarter**

			Hours		Credit
Title			Class	Shop	
AHR	1121	Principles of Refrigeration	2	6	4
DFT	110	Introduction to Drafting	4	0	4
MAT	1101	Vocational Basic Arithmetic	<u>4</u>	<u>0</u>	<u>4</u>
			10	6	12

Winter Quarter

ELC	1102	Basic Electricity for Air Conditioning, Heating, and Refrigeration	2	6	4
ISC	1101	General Industrial Survey	4	0	4
WLD	1101	Basic Gas Welding	<u>1</u>	<u>3</u>	<u>2</u>
			7	9	10

Spring Quarter

AHR	1115	Fundamentals of Heating	2	6	4
BPR	1116	Blueprint Reading: Air Conditioning	4	0	4
			<u>6</u>	<u>6</u>	<u>8</u>

Summer Quarter

AHR	1123	Principles of Air Conditioning I	2	6	4
PHY	1101	Applied Physics	<u>4</u>	<u>0</u>	<u>4</u>
			6	6	8

			Hours		
			Class	Lab	Credit
SECOND YEAR					
Fall Quarter					
AHR	1128	Automatic Controls	2	6	4
ENG	1102	Communication Skills	<u>4</u>	<u>0</u>	<u>4</u>
			6	6	8
Winter Quarter					
AHR	1126	All Year Comfort Systems	2	6	4
PSY	1101	Human Relations	<u>4</u>	<u>0</u>	<u>4</u>
			6	6	8
Spring Quarter					
AHR	1122	Domestic & Commercial Refrigeration	2	6	4
AHR	1131	State AC, Heat, Refrigeration License Law	4	0	4
			<u>6</u>	<u>6</u>	<u>8</u>
Summer Quarter					
AHR	1124	Air Condition and Refrigeration Servicing	2	6	4
AHR	1130	Year Around Duct System Design	<u>4</u>	<u>0</u>	<u>4</u>
			6	6	8

Total hours required for graduation = 70

AUTO BODY REPAIR (V001)

The Automotive Body Repair curriculum provides training in the use of the equipment and materials of the auto body mechanic trade. The student studies the construction of the automobile body and techniques of auto body repairing, rebuilding and refinishing.

Repairing, straightening, aligning, metal finishing and painting of automobile bodies and frames are typical jobs performed. Job titles include automobile body repairperson, automotive painter, and frame and chassis repairperson. Persons completing this curriculum may find employment with franchised automobile dealers, independent garages, or may start their own business.

Upon successful completion of the program, the student will demonstrate the ability to:

1. Clean and prepare a surface for paint that is properly treated, sanded, primed, and free of dirt, wax or grease.
2. Straighten and align body panels, prepare for and apply body filler, and shape body panels to the right contour making sure that they fit and operate correctly.
3. Cut and weld body metal using approved methods.
4. Remove and replace fixed and movable automobile glass.
5. Repair or replace fixed and movable automobile plastic components as applicable.
6. Check unibody structural alignment using measuring system and appropriate gauges.

COURSE AND HOUR REQUIREMENTS DAY SEQUENCE

Fall Quarter		Title	Hours		
			Class	Shop	Credit
AUT	1111	Auto Body Repair I	2	6	4
AUT	1311	Auto Body Repair II	3	9	6
MAT	1101	Vocational Basic Arithmetic	4	0	4
DFT	110	Introduction to Drafting	4	0	4
			<u>13</u>	<u>15</u>	<u>18</u>
Winter Quarter					
AUT	1112	Auto Body Repair III	2	6	4
AUT	1312	Auto Body Repair IV	3	9	6
PHY	1101	Applied Physics	4	0	4
WLD	1105	Auto Body Welding	1	3	2
			<u>10</u>	<u>18</u>	<u>16</u>
Spring Quarter					
AUT	1113	Metal Finishing and Painting I	2	6	4
AUT	1313	Metal Finishing and Painting II	3	9	6
ENG	1102	Communication Skills	4	0	4
ISC	1101	General Industrial Survey	4	0	4
			<u>13</u>	<u>15</u>	<u>18</u>

			Hours		
			Class	Lab	Credit
Summer Quarter					
AUT	1114	Body Shop Applications I	2	6	4
AUT	1314	Body Shop Applications II	3	9	6
PSY	1101	Human Relations	4	0	4
BUS	287	Small Business Management	<u>4</u>	<u>0</u>	<u>4</u>
			13	15	18

Total hours required for graduation = 70

NIGHT SEQUENCE

FIRST YEAR			Hours		
Fall Quarter			Class	Shop	Credit
Fall Quarter					
AUT	1111	Auto Body Repair I	2	6	4
MAT	1101	Vocational Basic Arithmetic	<u>4</u>	<u>0</u>	<u>4</u>
			6	6	8
Winter Quarter					
AUT	1311	Auto Body Repair II	3	9	6
DFT	110	Introducing to Drafting	<u>4</u>	<u>0</u>	<u>4</u>
			7	9	10
Spring Quarter					
AUT	1112	Auto Body Repair III	2	6	4
PHY	1101	Applied Physics	<u>4</u>	<u>0</u>	<u>4</u>
			6	6	8
Summer Quarter					
AUT	1313	Auto Body Repair IV	3	9	6
WLD	1105	Auto Body Welding	<u>1</u>	<u>3</u>	<u>2</u>
			4	12	8
SECOND YEAR					
Fall Quarter					
AUT	1113	Metal Finishing and Painting I	2	6	4
ISC	1101	General Industrial Survey	<u>4</u>	<u>0</u>	<u>4</u>
			6	6	8
Winter Quarter					
AUT	1313	Metal Finishing and Painting II	3	9	6
ENG	1102	Communication Skills	<u>4</u>	<u>0</u>	<u>4</u>
			7	9	10
Spring Quarter					
AUT	1114	Body Shop Applications I	2	6	4
PSY	1101	Human Relations	<u>4</u>	<u>0</u>	<u>4</u>
			6	6	8
Summer Quarter					
AUT	1314	Body Shop Applications II	3	9	6
BUS	287	Small Business Management	<u>4</u>	<u>0</u>	<u>4</u>
			7	9	10

Total hours required for graduation = 70

AUTOMOTIVE MECHANICS (V003)

The Automotive Mechanics curriculum provides a training program for developing the basic knowledge and skills needed to inspect, diagnose, repair and adjust automotive vehicles. Manual skills are developed in practical shop work and the technical understanding of the operating principles involved in the modern automobile are taught through class assignments, discussions and shop practices.

Automobile mechanics maintain and repair mechanical, electrical and body parts of passenger cars, trucks and buses. In some communities and rural areas they also may service tractors or marine engines and other gasoline-powered equipment. Mechanics inspect and test to determine the causes of faulty operation. They repair or replace defective parts to restore the vehicle or machine to proper operating condition and use shop manuals and other technical publications as references for technical data. Persons completing this curriculum may find employment with franchised automobile dealers, independent garages, or may start their own business.

Upon successful completion of the program, the student will demonstrate ability in the following areas:

1. Rebuilding of internal combustion engines
2. Parts identification
3. Engine problem analysis
4. Charging and trouble-shooting auto air conditioning
5. Diagnosing and repairing alignment problems
6. Analyzing and repairing fuel system problems

COURSE AND HOUR REQUIREMENTS DAY SEQUENCE

		Title	Hours		
			Class	Shop	Credit
Fall Quarter					
AUT	1101	Internal Combustion Engines I	5	3	6
MEC	1199	Automotive Machine Shop	2	6	4
MAT	1101	Vocational Basic Arithmetic	4	0	4
DFT	110	Introduction to Drafting	4	0	4
			<u>15</u>	<u>9</u>	<u>18</u>
Winter Quarter					
AUT	1301	Internal Combustion Engines II	2	6	4
AUT	1103	Automotive Analyzing Equipment	5	3	6
PHY	1101	Applied Physics	4	0	4
			<u>11</u>	<u>9</u>	<u>14</u>
Spring Quarter					
AUT	1123	Brakes	2	6	4
AHR	1101	Auto Air Conditioning	2	6	4
ENG	1102	Communication Skills	4	0	4
AUT	1127	Power Accessories	1	3	2
			<u>9</u>	<u>15</u>	<u>14</u>

			Hours		Credit
			Class	Lab	
Summer Quarter					
AUT	1302	Fuel Systems	5	3	6
AUT	1102	Engine Electrical Systems	5	3	6
AUT	1221	Front Alignment	2	6	4
PSY	1101	Human Relations	<u>4</u>	<u>0</u>	<u>4</u>
			16	12	20

Total hours required for graduation = 66

NIGHT SEQUENCE

FIRST YEAR			Hours		
Fall Quarter			Class	Shop	Credit
AUT	1101	Internal Combustion Engines I	5	3	6
MAT	1101	Vocational Basic Arithmetic	<u>4</u>	<u>0</u>	<u>4</u>
			9	3	10
Winter Quarter					
MEC	1199	Automotive Machine Shop	2	6	4
DFT	110	Introduction to Drafting	<u>4</u>	<u>0</u>	<u>4</u>
			6	6	8
Spring Quarter					
AUT	1301	Internal Combustion Engines II	2	6	4
PHY	1101	Applied Physics	<u>4</u>	<u>0</u>	<u>4</u>
			6	6	8
Summer Quarter					
AUT	1103	Automotive Analyzing Equipment	5	3	6
AUT	1227	Power Accessories	<u>1</u>	<u>3</u>	<u>2</u>
			6	6	8
SECOND YEAR					
Fall Quarter					
AUT	1123	Brakes	2	6	4
ENG	1102	Communication Skills	<u>4</u>	<u>0</u>	<u>4</u>
			6	6	8
Winter Quarter					
AHR	1101	Auto Air Conditioning	<u>2</u>	<u>6</u>	<u>4</u>
			2	6	4
Spring Quarter					
AUT	1302	Fuel Systems	5	3	6
PSY	1101	Human Relations	<u>4</u>	<u>0</u>	<u>4</u>
			9	3	10
Summer Quarter					
AUT	1102	Engine Electrical Systems	5	3	6
AUT	1221	Front Alignment	<u>2</u>	<u>6</u>	<u>4</u>
			7	9	10

Total hours required for graduation = 66

RESIDENTIAL CARPENTRY (V007) (PRISON PROGRAM ONLY)

The Residential Carpentry curriculum trains students to construct and make repairs to residential structures using standard building materials and hand and power tools. This curriculum is designed to teach carpentry skills and a general knowledge of residential construction. Instruction also includes the study of mathematics, blueprint reading, building codes and energy efficient construction.

Graduates will have a working knowledge of building materials, concrete form construction, rough framing, roofing, stair construction, insulation and the application of interior and exterior trim.

Graduates should qualify for employment in the residential building construction field as rough carpenters, framing carpenters, roofers, maintenance carpenters, and other related job titles.

Upon successful completion of the program, the student will demonstrate the ability to:

1. Use and understand basic construction math, including use of rules, "plumb bobs," and the framing square.
2. Interpret blueprints and specifications, and build from a drawing.
3. Understand strengths of material and make appropriate choice.
4. Use most power tools, including saws, and drills.
5. Use safety practices.

COURSE AND HOUR REQUIREMENTS

Fall Quarter		Title	Hours		
			Class	Shop	Credit
CAR	1101	Carpentry I	2	6	4
CAR	1301	Carpentry II	2	6	4
BPR	1001	Blueprint Layout and Design	4	0	4
MAT	1101	Vocational Basic Arithmetic	4	0	4
			12	12	16
Winter Quarter					
CAR	1102	Carpentry III	2	6	4
CAR	1302	Carpentry IV	2	6	4
ENG	1102	Communication Skills	4	0	4
WWK	1306	Introduction to Woodworking	4	0	4
			12	12	16

			Class	Hours Lab	Credit
Spring Quarter					
CAR	1103	Carpentry V	2	6	4
CAR	1303	Carpentry VI	2	6	4
MEC	1135	Mechanical Installation	4	0	4
BUS	287	Small Business Management	4	0	4
MAT	1112	Construction Estimating	<u>4</u>	<u>0</u>	<u>4</u>
			16	12	20
Summer Quarter					
CAR	1104	Carpentry VII	2	6	4
CAR	1304	Carpentry VIII	2	6	4
CAR	1305	Building Code	4	0	4
PSY	1101	Human Relations	4	0	4
CAR	1106	Construction Seminar	<u>4</u>	<u>0</u>	<u>4</u>
			16	12	20

Total hours required for graduation = 72

COSMETOLOGY
(V009)
(Certificate)

If you are interested in a challenging and rewarding career and like to use your creative talents to work with people, hairstyles, makeup and clothes, than a career in cosmetology may be right for you.

The field of cosmetology is based on scientific principles. The Cosmetology curriculum offers instruction in manicuring, shampooing, permanent waving, facials, massages, scalp treatments, hair cutting, and styling and wig service.

Cosmetology is offered day or night by contracting on either a full-time or part-time schedule. Students will register for both classes during a quarter (theory and clinical).

To receive a Cleveland Community College certificate, a student must complete 72 credit hours (1500 contact hours).

Upon completion of this program and successful passing of a comprehensive examination administered by the North Carolina State Board of Cosmetic Arts, a license is given.

The cosmetologist is called upon to advise men and women on problems of makeup and care of the hair, skin and hands including nails. Employment opportunities are available in beauty salons, private clubs, department stores, and women's specialty shops. You may decide to set up your own business.

COURSE AND HOUR REQUIREMENTS

			Hours		
			Class	Lab	Credit
First Quarter					
COS	1001	Scientific Study I	7	15	12
COS	1011	Mannequin Practice	<u>0</u>	<u>18</u>	<u>6</u>
			7	33	18
Second Quarter					
COS	1002	Scientific Study	7	0	7
COS	1022	Clinical Applications I	<u>0</u>	<u>33</u>	<u>18</u>
			7	33	18
Third Quarter					
COS	1003	Scientific Study III	7	0	7
COS	1033	Clinical Applications II	<u>0</u>	<u>33</u>	<u>11</u>
			7	33	18
Fourth Quarter					
COS	1004	Scientific Study IV	7	0	7
COS	1044	Clinical Applications	<u>0</u>	<u>33</u>	<u>18</u>
			7	33	18

Total credit hours = 72

Total contact hours = 1500

Manicuring courses are available.

ELECTRICAL INSTALLATION (V018)

The Electrical Installation and Maintenance curriculum is designed to provide a training program in the basic knowledge, fundamentals and practices involved in the electrical trades. A large segment of the program is laboratory and shop instruction designed to give the student practical knowledge and application experience in the fundamentals taught in class.

The graduate of this curriculum is qualified to enter an electrical trade as an on-the-job trainee or apprentice, assisting in the layout, installation, check out and maintenance systems in residential, commercial or industrial settings.

Upon completion of this program, the student will:

1. Understand current flow, voltage levels and systems, basic motor and transformer connections, and the laws of power.
2. Understand wire and troubleshoot basic motor control circuits.
3. Wire and program basic programmable controllers.
4. Have a working knowledge of residential wiring and all the circuitry involved—lighting, receptacles, appliances, heating, and air conditioning.
5. Have a working knowledge of commercial and industrial systems, conduit bending, identifying and sizing electrical equipment, and basic blueprint reading.
6. Have a basic knowledge of the National Electric Code.

COURSE AND HOUR REQUIREMENTS DAY SEQUENCE

		Title	Hours		
			Class	Shop	Credit
Fall Quarter					
ELC	1111	Basic Electrical Circuits, Machines, and Transformers I	4	3	5
ELC	1311	Basic Electrical Circuits, Machines and Transformers II	4	3	5
MAT	1101	Vocational Basic Arithmetic	4	0	4
DFT	110	Introduction to Drafting	4	0	4
BPR	1113	Blueprint Reading: Electrical	<u>4</u>	<u>0</u>	<u>4</u>
			20	6	22
Winter Quarter					
ELC	1113	AC/DC Machines and Controls I	2	6	4
ELC	1313	AC/DC Machines and Controls II	2	6	4
PHY	1101	Applied Physics	4	0	4
MAT	1110	Electrical Mathematics	<u>4</u>	<u>0</u>	<u>4</u>
			12	12	16

		Hours			
		Class	Lab	Credit	
Spring Quarter					
ELC	1124	Residential Wiring I	2	6	4
ELC	1324	Residential Wiring II	2	6	4
ENG	1102	Communication Skills	4	0	4
ELN	1103	Solid State Devices	<u>4</u>	<u>0</u>	<u>4</u>
		12	12	16	
Summer Quarter					
ELC	1125	Commercial & Industrial Wiring I	2	6	4
ELC	1325	Commercial & Industrial Wiring II	2	6	4
PSY	1101	Human Relations	4	0	4
ELC	1114	National Electric Code	4	0	4
ELN	251	Intro to PLC's	<u>4</u>	<u>0</u>	<u>4</u>
		16	12	20	

Total hours required for graduation = 74

NIGHT SEQUENCE

FIRST YEAR		Hours			
Fall Quarter		Class	Shop	Credit	
ELC	1111	Basic Electrical Circuits, Machines and Transformers I	4	3	5
MAT	1101	Vocational Basic Arithmetic	<u>4</u>	<u>0</u>	<u>4</u>
		8	3	9	
Winter Quarter					
ELC	1311	Basic Electrical Circuits, Machines and Transformers II	4	3	5
MAT	1110	Electrical Mathematics	4	0	4
PHY	1101	Applied Physics	<u>4</u>	<u>0</u>	<u>4</u>
		12	3	13	
Spring Quarter					
ELC	1113	AC/DC Machines and Controls I	2	6	4
BPR	1113	Blueprint Reading: Electrical	4	0	4
ENG	1102	Communication Skills	<u>4</u>	<u>0</u>	<u>4</u>
		10	6	12	
Summer Quarter					
ELC	1313	AC/DC Machines and Controls II	2	6	4
PSY	1101	Human Relations	<u>4</u>	<u>0</u>	<u>4</u>
		6	6	8	
SECOND YEAR					
Fall Quarter					
ELC	1124	Residential Wiring I	2	6	4
DFT	110	Introduction to Drafting	<u>4</u>	<u>0</u>	<u>4</u>
		6	6	8	
Winter Quarter					
ELC	1324	Residential Wiring II	2	6	4
ELN	1103	Solid State Devices	<u>4</u>	<u>0</u>	<u>4</u>
		6	6	8	

			Class	Hours Lab	Credit
Spring Quarter					
ELC	1125	Commercial & Industrial Wiring I	2	6	4
ELN	251	Introduction to PLC's	<u>4</u>	<u>0</u>	<u>4</u>
			6	6	8
Summer Quarter					
ELC	1325	Commercial & Industrial Wiring II	2	6	4
ELC	1114	National Electrical Code	<u>4</u>	<u>0</u>	<u>4</u>
			6	6	8

Total hours required for graduation = 74



FOODSERVICE SPECIALIST (V053) (PRISON PROGRAM ONLY)

The Foodservice Specialist curriculum trains students in the art and science of quantity food preparation with particular emphasis on institutional food service. Using a career ladder concept, it is an open-ended curriculum allowing the students more flexibility in their training. In addition to development of knowledge and skills in the art and science of food preparation, the student must develop an understanding and appreciation of food and equipment purchasing, financial control, recordkeeping, basic nutrition and menu planning, and supervision.

A graduate of this curriculum should be qualified for entry into positions as assistant cook, short-order cook, cook, chef's assistant, cook manager, baker, assistant baker, and pastry cook. Employment needs for graduates of this program are found in hospitals, nursing homes, child care centers, college and university foodservice, school foodservice, industrial cafeterias, private clubs, airline foodservice, food processing manufacturers, foodservice contract companies, and commercial restaurants.

Upon successful completion of this program, the student will have demonstrated the ability to:

1. Observe and follow proper personal hygiene rules in the kitchen.
2. Correctly sanitize a kitchen.
3. Work kitchen equipment properly.
4. Handle small wares correctly.
5. Cook meats and vegetables.
6. Prepare salads.
7. Have a working knowledge of spices.
8. Bake bread and desserts.
9. Cook an entire meal.

COURSE AND HOUR REQUIREMENTS

Fall Quarter	Title	Hours		
		Class	Shop	Credit
FSO 1102	Food Preparation and Baking I	2	6	4
MAT 1101	Vocational Basic Arithmetic	4	0	4
FSO 1103	Sanitation Safety and Equipment	4	0	4
FSO 1302	Food Preparation and Baking II	<u>2</u>	<u>6</u>	<u>4</u>
		12	12	16
Winter Quarter				
FSO 1112	Food Preparation and Baking III	2	6	4
FSO 1105	Purchasing	2	0	2
FSO 1109	Production Management	2	0	2
MAT 1102	Food Service Math	4	0	4
FSO 1312	Food Preparation and Baking IV	<u>2</u>	<u>6</u>	<u>4</u>
		12	12	16

			Hours		
			Class	Lab	Credit
Spring Quarter					
FSO	1122	Food Preparation V	2	6	4
FSO	1106	Menu Planning	3	0	3
ENG	1102	Communication SKills	4	0	4
NUT	101	Nutrition and Diet Therapy	3	0	3
FSO	1322	Food Preparation VI	<u>2</u>	<u>6</u>	<u>4</u>
			14	12	18
Summer Quarter					
FSO	1116	Baking V	2	6	4
FSO	1108	Personnel Management	2	0	2
RED	1101	Reading Improvement	4	0	4
PSY	1101	Human Relations	4	0	4
FSO	1316	Baking VI	<u>2</u>	<u>6</u>	<u>4</u>
			14	12	18

Total hours required for graduation = 68

INDUSTRIAL MAINTENANCE (V028)

The curriculum in Industrial Maintenance prepares students to repair and maintain machinery, electrical wiring and fixtures, and hydraulic and pneumatic devices found in industrial establishments.

Industrial maintenance persons may be required to install, maintain and service mechanical equipment; follow blueprints and sketches; and use hand tools, metalworking machines, measuring instruments and testing instruments. They operate metalworking machines such as lathe, milling machines and drill press to make repairs. They use the micrometer and calipers to verify dimensions. They assemble wires, insulation and electrical components using hand tools and soldering equipment. They test electrical circuits and components to locate shorts, faulty connections and defective parts. They inspect, test and repair hydraulic equipment.

Upon completion, students will have demonstrated ability in the following areas:

1. Electrical circuits and motor controls
2. Basic machining operations
3. Heating, refrigeration, and air conditioning principles
4. Basic welding repairs and fabrication
5. Mechanical maintenance to include:
 - Fasteners
 - Hydraulics
 - Pneumatics
 - Piping and pipe insulation
 - Pumps
 - Rigging

COURSE AND HOUR REQUIREMENTS DAY SEQUENCE

Fall Quarter		Title	Hours		
Course	Number		Class	Shop	Credit
MEC	1101	Machine Shop Theory & Practices I	2	6	4
MEC	1301	Machine Shop Theory & Practices II	2	6	4
MAT	1101	Vocational Basic Arithmetic	4	0	4
DFT	110	Introduction to Drafting	4	0	4
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			12	12	16
Winter Quarter		Title	Class	Shop	Credit
ELC	1113	AC/DC Machines and Controls I	2	6	4
ELC	1313	AC/DC Machines and Controls II	2	6	4
PHY	1101	Applied Physics	4	0	4
BPR	1104	Blueprint Reading: Mechanical	3	0	3
HYD	1105	Hydraulic Fundamentals	4	0	4
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			15	12	19

			Hours		Credit
			Class	Lab	
Spring Quarter					
AHR	1121	Principles of Refrigeration	2	6	4
AHR	1115	Fundamentals of Heating	2	6	4
ENG	1102	Communication Skills	4	0	4
ISC	1101	General Industrial Survey	4	0	4
COE	101	Work Experience (or elective)	<u>3</u>	<u>0</u>	<u>3</u>
			15	12	19
Summer Quarter					
WLD	1122	Commercial and Industrial Practices I	2	6	4
WLD	1322	Commercial and Industrial Practices II	3	9	6
PSY	1101	Human Relations	4	0	4
MNT	1133	Mechanical Maintenance	<u>3</u>	<u>3</u>	<u>4</u>
			12	18	18

Total hours required for graduation = 72

NIGHT SEQUENCE

			Hours		
			Class	Shop	Credit
FIRST YEAR					
Fall Quarter					
MEC	1101	Machine Shop Theory and Practices I	2	6	4
MAT	1101	Vocational Basic Arithmetic	<u>4</u>	<u>0</u>	<u>4</u>
			6	6	8
Winter Quarter					
MEC	1301	Machine Shop Theory and Practices II	2	6	4
DFT	110	Introduction to Drafting	<u>4</u>	<u>0</u>	<u>4</u>
			6	6	8
Spring Quarter					
ELC	1113	AC/DC Machines and Controls I	2	6	4
PHY	1101	Applied Physics	4	0	4
ENV	1105	Hydraulic Fundamentals	<u>4</u>	<u>0</u>	<u>4</u>
			10	6	12
Summer Quarter					
ELC	1313	AC/DC Machines and Controls II	2	6	4
BPR	1104	Blueprint Reading: Mechanical	<u>3</u>	<u>0</u>	<u>3</u>
			5	6	7
SECOND YEAR					
Fall Quarter					
AHR	1121	Principles of Refrigeration	2	6	4
ISC	1101	General Industrial Survey	4	0	4
COE	101	Work Experience (or elective)	<u>3</u>	<u>0</u>	<u>3</u>
			9	6	11
Winter Quarter					
AHR	1115	Fundamentals of Heating	2	6	4
ENG	1102	Communication Skills	<u>4</u>	<u>0</u>	<u>4</u>
			6	6	8

			Hours		Credit
			Class	Lab	
Spring Quarter					
WLD	1122	Commercial and Industrial Practices I	2	6	4
PSY	1101	Human Relations	<u>4</u>	<u>0</u>	<u>4</u>
			6	6	8
Summer Quarter					
WLD	1322	Commercial and Industrial Practices II	3	9	6
MNT	1133	Mechanical Maintenance	<u>3</u>	<u>3</u>	<u>4</u>
			6	12	10

Total hours required for graduation = 72

Electives can be chosen from other curriculum course offerings in the catalog (subject to Department Head's approval).



MACHINIST (V032)

The Machinist curriculum gives the individual the opportunity to acquire basic skills and related technical information necessary to gain employment in the metalworking industries. The machinist is a skilled metalworker who shapes metal by using machine tools and hand tools. Machinists must be able to set up and operate the machine tools found in a modern shop. Computer numerical control (CNC) may be integrated into various phases of the curriculum or as specialized courses.

The machinist is able to select the proper tools and materials required for each job and to plan the cutting and finishing according to blueprints or written specifications. The machinist makes computations relating to dimensions of work, tooling, feeds and speeds of machining. Precision measuring instruments are used to measure the accuracy of work. The machinist also must know the characteristics of metals so that annealing and hardening of tools and metal parts can be accomplished in the process of turning a block of metal into an intricate precise part.

In the process of successfully completing the program of study, the student will have demonstrated the ability to:

1. Use micrometers, vernier calipers, small hole gauge, telescope gauge, and other precision instruments.
2. Operate in a safe manner the basic machines in a modern machine shop such as the lathe, milling machine, drill press, grinders to include lathe taper attachments, milling machine boring head, dial indicators, diving head, and rotary table.
3. Read and interpret blueprints and other written instructions for machining; use shop math, such as trigonometry, to solve machining problems.
4. Demonstrate an understanding of the machining characteristics of different types of metal and the sharpening of cutting tools and drills.
5. Use computer numerical controls to perform machining operations on milling machines and lathes.
6. Operate machine keyways in shafts and broach keyways in gears, set up precision angles with sine bar, and lay out surfaces to be machined or holes to be drilled.
7. Chase threads on a lathe.
8. Work to four plate decimal tolerances.
9. Understand the need for honesty, responsibility, and reliability in the work place.
10. Exhibit safe work habits and an understanding of OSHA and ANSI.

COURSE AND HOUR REQUIREMENTS DAY SEQUENCE

		Title	Class	Hours		Credit
				Shop		
Fall Quarter						
MEC	1101	Machine Shop Theory and Practices I	2	6		4
MEC	1301	Machine Shop Theory and Practices II	2	6		4
MAT	1101	Vocational Basic Arithmetic	4	0		4
WLD	1330	Machine Shop Welding	1	3		2
BPR	1305	Blueprint Reading: Machinist	<u>4</u>	<u>0</u>		<u>4</u>
			13	15		18
Winter Quarter						
MEC	1102	Machine Shop Theory and Practices III	2	6		4
MEC	1302	Machine Shop Theory and Practices IV	2	6		4
MAT	1103	Applied Math: Geometry	4	0		4
PHY	1101	Applied Physics	4	0		4
MEC	1105	Introduction to CNC Lathe and Mill	<u>4</u>	<u>0</u>		<u>4</u>
			16	12		20
Spring Quarter						
MEC	1103	Machine Shop Theory and Practices V	2	6		4
MEC	1303	Machine Shop Theory and Practices VI	2	6		4
MAT	1104	Applied Math: Trigonometry	4	0		4
ENG	1102	Communication Skills	4	0		4
MEC	1106	Programming the CNC Lathe	<u>4</u>	<u>0</u>		<u>4</u>
			16	12		20
Summer Quarter						
MEC	1104	Machine Shop Theory and Practices VII	2	6		4
MEC	1304	Machine Shop Theory and Practices VIII	2	6		4
PSY	1101	Human Relations	4	0		4
MEC	1107	Programming the CNC Mill	<u>4</u>	<u>0</u>		<u>4</u>
			12	12		16

Total hours required for graduation = 74

NIGHT SEQUENCE

FIRST YEAR			Hours		
Fall Quarter		Title	Class	Shop	Credit
MEC	1101	Machine Shop Theory and Practices I	2	6	4
MAT	1101	Vocational Basic Arithmetic	4	0	4
BPR	1305	Blueprint Reading: Machinist	<u>4</u>	<u>0</u>	<u>4</u>
			10	6	12
Winter Quarter					
MEC	1301	Machine Shop Theory and Practices II	2	6	4
PSY	1101	Human Relations	<u>4</u>	<u>0</u>	<u>4</u>
			6	6	8
Spring Quarter					
MEC	1102	Machine Shop Theory and Practices III	2	6	4
MAT	1103	Applied Math: Geometry	4	0	4
WLD	1330	Machine Shop Welding	<u>1</u>	<u>3</u>	<u>2</u>
			7	9	10
Summer Quarter					
MEC	1302	Machine Shop Theory and Practices IV	2	6	4
PHY	1101	Applied Physics	<u>4</u>	<u>0</u>	<u>4</u>
			6	6	8
SECOND YEAR					
Fall Quarter					
MEC	1103	Machine Shop Theory and Practices V	2	6	4
MAT	1104	Applied Math: Trigonometry	4	0	4
MEC	1105	Introduction to CNC Lathe & Mill	<u>4</u>	<u>0</u>	<u>4</u>
			10	6	12
Winter Quarter					
MEC	1303	Machine Shop Theory and Practices VI	2	6	4
ENG	1102	Communication Skills	4	0	4
MEC	1106	Programming the CNC Lathe	<u>4</u>	<u>0</u>	<u>4</u>
			10	6	12
Spring Quarter					
MEC	1104	Machine Shop Theory and Practices VII	2	6	4
MEC	1107	Programming the CNC Mill	<u>4</u>	<u>0</u>	<u>4</u>
			6	6	8
Summer Quarter					
MEC	1304	Machine Shop Theory and Practices VIII	2	6	4

Total hours required for graduation = 74

PLUMBING AND PIPEFITTING (V-037) (PRISON PROGRAM ONLY)

The Plumbing and Pipefitting curriculum is designed to train individuals to repair or install plumbing systems in residences and small commercial buildings. Courses in plumbing practices and pipefitting are included to provide practical experience as well as courses in theory that one must know to advance and keep up to date. Other courses in communication skills, physics, human relations and business operations are provided to assist the individual in occupational growth.

Plumbers are employed by contractors in the building construction fields to install pipe systems which carry water, steam, air or other liquids or gases for sanitation, heating, industrial production and various other uses. They also alter and repair existing pipe systems and install plumbing fixtures, appliances, and heating and refrigeration units.

Upon successful completion of this course, the student will be able to:

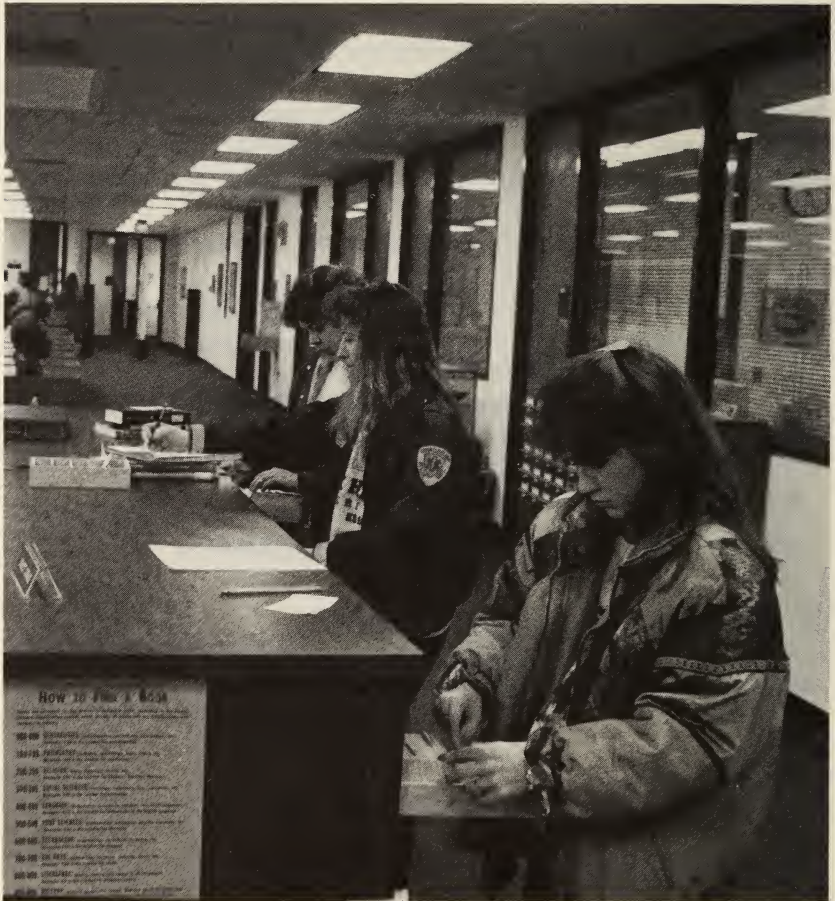
1. Perform elementary mathematical operations associated with this trade.
2. Interpret blueprint and specifications.
3. Route and install motor lines, gas lines and vents.
4. Size drains and install them properly.
5. Install fixtures (tubs, sinks, etc.)
6. Make repairs on existing facilities.

COURSE AND HOUR REQUIREMENTS

		Title	Hours		
			Class	Shop	Credit
Fall Quarter					
PLU	1110	Plumbing Pipework	4	12	8
BPR	1115	Blueprint Reading: Plumbing	4	0	4
MAT	1101	Vocational Basic Arithmetic	4	0	4
ENG	1102	Communication Skills	4	0	4
			<u>16</u>	<u>12</u>	<u>20</u>
Winter Quarter					
PLU	1112	Installation of Plumbing Fixtures	2	6	4
PLU	1125	Industrial Piping	3	9	6
PHY	1101	Applied Physics	4	0	4
PSY	1101	Human Relations	4	0	4
			<u>13</u>	<u>15</u>	<u>18</u>
Spring Quarter					
PLU	1111	Domestic Water Systems	4	9	7
WLD	1101	Basic Gas Welding	1	3	2
PLU	1120	Low Pressure Steam Systems	2	6	4
RED	1101	Reading Improvement	4	0	4
			<u>11</u>	<u>18</u>	<u>17</u>

			Hours		Credit
			Class	Lab	
Summer Quarter					
PLU	1123	Hot Water and Panel Heating	3	6	5
BUS	0287	Small Business Management	4	0	4
PLU	1126	Hydraulic Systems Plumbing	3	3	4
PLU	1128	Plumbing Code	4	0	4
			<u>4</u>	<u>0</u>	<u>4</u>
			14	9	17

Total hours required for graduation = 72



WELDING (V050)

The Welding curriculum gives students sound understanding of the principles, methods, techniques and skills essential for successful employment in the welding field and metals industry. Welders join metals by applying intense heat, and sometimes pressure, to form a permanent bond between intersecting metals.

Welding offers employment in practically any industry: shipbuilding, automotive, aircraft, guided missiles, heavy equipment, railroads, construction pipefitting, production shops, job shops and many others.

Upon completion of this program, the student will be able to:

1. Use oxy welding equipment.
2. Use arc welding equipment, stick, mig-tig, and make welds.
3. Use shop equipment found in industry.
4. Read and understand blueprints.
5. Enter the welding industry as a welder's assistant.
6. Use all equipment safely.

COURSE AND HOUR REQUIREMENTS DAY SEQUENCE

		Title	Hours		
			Class	Shop	Credit
Fall Quarter					
WLD	1120	Oxyacetylene Welding I	2	6	4
WLD	1320	Oxyacetylene Welding II	3	9	6
MAT	1101	Vocational Basic Arithmetic	4	0	4
DFT	0110	Introduction to Drafting	<u>4</u>	<u>0</u>	<u>4</u>
			13	15	18
Winter Quarter					
WLD	1121	Arc Welding I	2	6	4
WLD	1321	Arc Welding II	3	9	6
PHY	1101	Applied Physics	4	0	4
BPR	1104	Blueprint Reading: Mechanical	<u>3</u>	<u>0</u>	<u>3</u>
			12	15	17
Spring Quarter					
WLD	1124	Pipe Welding I	2	6	4
WLD	1324	Pipe Welding II	3	9	6
ENG	1102	Communication Skills	4	0	4
ISC	1101	General Industrial Survey	<u>4</u>	<u>0</u>	<u>4</u>
			13	15	18
Summer Quarter					
WLD	1122	Commercial and Industrial Practices I	2	6	4
WLD	1322	Commercial and Industrial Practices II	3	9	6
PSY	1101	Human Relations	4	0	4
BUS	0287	Small Business Management	4	0	4
RED	1101	Reading Improvement (Required in the Certificate Program only)	<u>4</u>	<u>0</u>	<u>4</u>
			13	15	18

Total hours required for graduation = 71

NIGHT SEQUENCE

FIRST YEAR			Hours		
			Class	Shop	Credit
Fall Quarter					
WLD	1120	Oxyacetylene Welding I	2	6	4
MAT	1101	Vocational Basic Arithmetic	<u>4</u>	<u>0</u>	<u>4</u>
			6	6	8
Winter Quarter					
WLD	1320	Oxyacetylene Welding II	3	9	6
DFT	0110	Introduction to Drafting	<u>4</u>	<u>0</u>	<u>4</u>
			7	9	10
Spring Quarter					
WLD	1121	Arc Welding I	2	6	4
PHY	1101	Applied Physics	<u>4</u>	<u>0</u>	<u>4</u>
			6	6	8
Summer Quarter					
WLD	1321	Arc Welding II	3	9	6
		Blueprint Reading: Mechanical	<u>3</u>	<u>0</u>	<u>3</u>
			6	9	9
SECOND YEAR					
Fall Quarter					
WLD	1124	Pipe Welding I	2	6	4
ISC	1101	General Industrial Survey	<u>4</u>	<u>0</u>	<u>4</u>
			6	6	8
Winter Quarter					
WLD	1324	Pipe Welding II	3	9	6
ENG	1102	Communication Skills	<u>4</u>	<u>0</u>	<u>4</u>
			7	9	10
Spring Quarter					
WLD	1122	Commercial and Industrial Practices I	2	6	4
PSY	1101	Human Relations	<u>4</u>	<u>0</u>	<u>4</u>
			6	6	8
Summer Quarter					
WLD	1322	Commercial and Industrial Practices II	3	9	6
BUS	0287	Small Business Management	<u>4</u>	<u>0</u>	<u>4</u>
			7	9	10

Total hours required for graduation = 71

PRACTICAL NURSE EDUCATION (V038) (DAY SCHEDULE ONLY)

The Practical Nursing curriculum graduates are prepared to take the National Council Licensure Examination required to practice as a licensed practical nurse. The Practical Nursing curriculum is designed to develop competencies in practicing the following five components of practice as defined by the North Carolina **Nursing Practice Act, 1981**: (1) participating in assessing the client's physical and mental health including the client's reaction to illnesses and treatment regimens; (2) recording and reporting the results of the nursing assessment; (3) participating in implementing the health care plan developed by the registered nurse and/or prescribed by any person authorized by State law to prescribe such a plan by performing tasks delegated by and performed under the supervision or under orders or directions of a registered nurse, physician licensed to practice medicine, dentist, or other person authorized by State law to provide such supervision; (4) reinforcing the teaching and counseling of a registered nurse, physician licensed to practice medicine in North Carolina, or dentist; (5) reporting and recording the nursing care rendered and the client's response to that care.

Licensed practical nurses may be employed in hospitals, nursing homes, clinics, doctors' offices, industry, and public health agencies.

Individuals desiring a career in practical nursing should be encouraged to take math and science courses in high school.

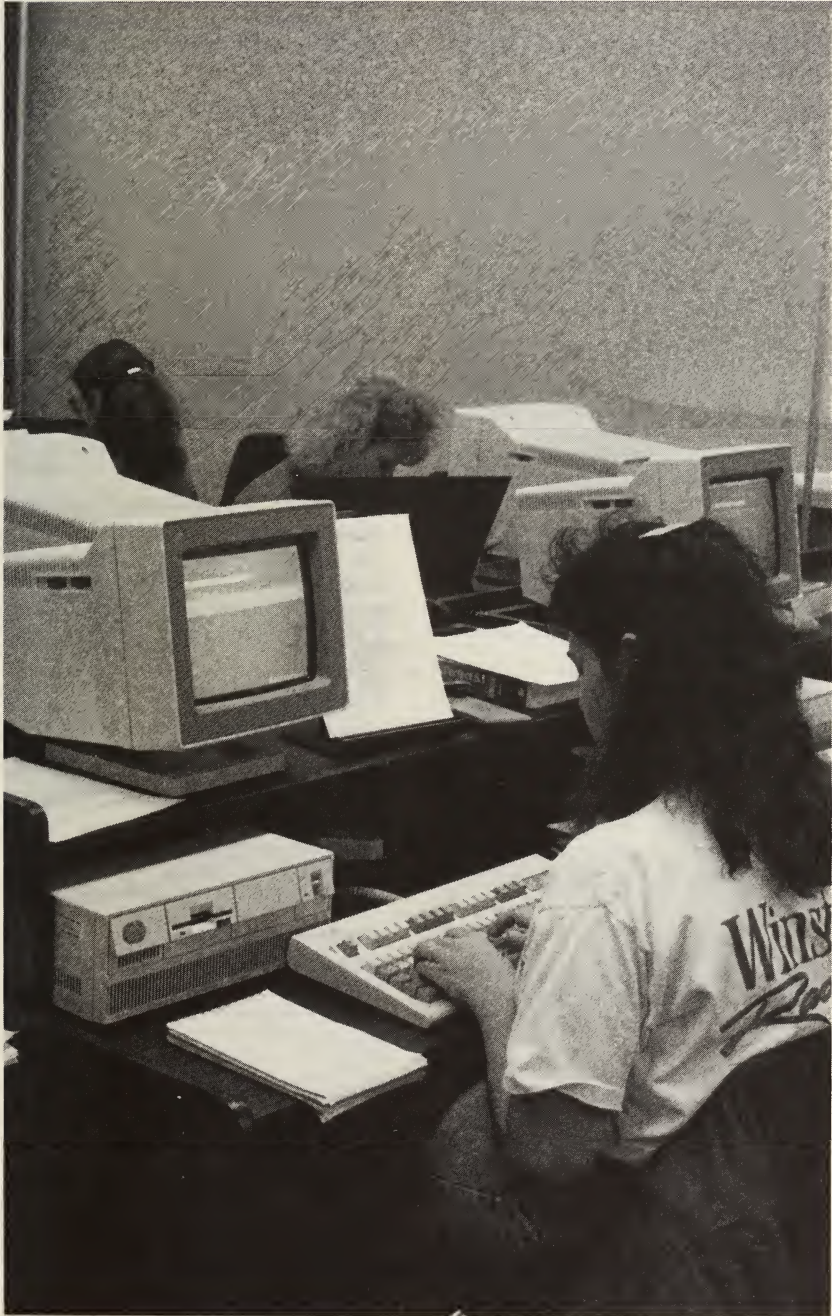
COURSE AND HOUR REQUIREMENTS

First Quarter	Title	Class	Hours Per Week			Credit
			Lab	Clinic		
NUR 1101	Fundamentals of Nursing	9	4	0		11
NUT 0101	Nutrition and Diet Therapy	3	0	0		3
PSY 0101	Introduction to Psychology	3	0	0		3
ENG 0130	English Grammar and Composition	3	0	0		3
BIO 0107	Anatomy and Physiology I	<u>3</u>	<u>2</u>	<u>0</u>		<u>4</u>
		21	6	0		24
Second Quarter						
NUR 1115	Medical-Surgical Nursing I	6	0	0		6
PHM 1104	Basic Pharmacology	3	0	0		3
NUR 1112	Clinical I	0	0	18		6
BIO 0108	Anatomy and Physiology II	<u>.3</u>	<u>2</u>	<u>0</u>		<u>4</u>
		12	2	18		19
Third Quarter						
NUR 1108	Obstetrical Nursing	5	0	0		5
PHM 1111	Pharmacology	2	2	0		3
NUR 1106	Medical-Surgical Nursing II	5	0	0		5
NUR 1113	Clinical II	<u>0</u>	<u>0</u>	<u>18</u>		<u>6</u>
		12	2	18		19

First Quarter	Title	Class	Hours Per Week		
			Lab	Clinic	Credit
Fourth Quarter					
NUR 1109	Pediatric Nursing	6	0	0	6
NUR 1107	Medical-Surgical Nursing III	5	0	0	5
NUR 1110	Vocational Adjustments	1	0	0	1
NUR 1114	Clinical III	<u>0</u>	<u>0</u>	<u>18</u>	<u>6</u>
		12	0	18	18

Total hours required for graduation = 80

COURSE DESCRIPTIONS



ACCOUNTING**ACC 120—Accounting I 4 4 6**

Principles, techniques and tools of accounting, summarizing, analyzing and reporting information about service and mercantile enterprises, to include practical application of the principles learned. Prerequisite: BUS 109.

ACC 121—Accounting II 4 4 6

Partnership and corporation accounting including a study of payrolls, federal and state taxes. Emphasis is placed on the recording, summarizing and interpreting data for management control rather than on bookkeeping skills. Accounting services are shown as they contribute to the recognition and solution to management problems. Prerequisite: ACC 120.

ACC 130—Financial Accounting for Banking 3 0 3

This course is designed especially for those persons who will work in the Banking and Credit Union profession. It will prepare those students who so desire to be able to take the Certified Credit Union Executive Exam. It is being offered at the request of the local credit union and will be elective credit for those completing it. The course includes a study of the Financial Statements from the Bank or Credit Union Point of View, along with the other areas that are unique to the Banking Industry.

ACC 222—Accounting III 4 4 6

Thorough treatment of the field of general accounting, providing the necessary foundation for specialized studies that follow. The course includes among other aspects, the balance sheet, income and surplus statements, fundamental processes of recording, cash and temporary investments, and analysis of working capitals. Prerequisite: ACC 121.

ACC 223—Intermediate Accounting I 4 4 6

This course represents concepts adhered to in modern accounting, including the principles, procedures, and methods that are applied in the preparation of financial statements. Changes in the form of content of basic financial statements receive special emphasis. Prerequisite: ACC 222.

ACC 224—Intermediate Accounting II 4 4 6

This course provides instruction in the organizational, structural, and financial levels of accounting. Special emphasis being given to owners equity, business financing, bonds and notes, etc. Prerequisite: ACC 223.

ACC 225—Cost Accounting I 2 2 3

Nature and purposes of cost accounting; accounting for direct labor, materials and factory burden; job cost and standard cost principles and procedures; selling and distribution cost; budgets and executive use of cost figures. Prerequisite: ACC 222.

ACC 226—Cost Accounting II 2 2 3

Continued study in cost accounting with emphasis on process cost systems, standard cost accounting and cost analysis for management decision making. Prerequisite: ACC 225.

ACC 227—Intermediate Accounting III 4 4 6

This course is designed to complete the student's understanding of accounting procedures. Topics of study are Accounting for Income Taxes, Retained Earnings, Contributed Capital, Non-operating Income, Financial Position Analysis, and Future and Present Value. Prerequisite: ACC 224.

ACC 229—Taxes I 4 0 4

Preparation of Individual Tax Returns — 1040EZ, 1040A, 1040, Schedules A and B — are covered in this course, along with other supporting schedules and forms.

ACC 230—Taxes II 4 0 4

This course provides instruction to Business and Professional Tax Returns. More involved and complicated tax situations — Capital Gains and Losses, Retirement Plans, etc. — are given special emphasis. Instruction in Partnership and Corporation Taxes and Tax Returns is also provided. Prerequisite: ACC 229.

ACC 269—Auditing 3 0 3

Principles of conducting audits and investigations; setting up accounts based upon audits; collecting data on working papers; arranging and systemizing the audit and writing the audit report. Emphasis is placed on detailed audits, internal auditing and internal control. Prerequisite: ACC 223.

ACC 291—Governmental Accounting 3 0 3

This course is designed for persons who are working or would like to work for a governmental agency or nonprofit entity. It would cover topics of study that are unique to this area.

AIR CONDITIONING, HEATING REFRIGERATION

AHR 1101—Auto Air Conditioning 2 6 4

General introduction to the principles of refrigeration, study of the assembly of the components and connections necessary in the mechanisms, the methods of operation and control; proper handling of refrigerants in charging the system.

AHR 1115—Fundamentals of Heating 2 6 4

An introduction to the fundamentals of heating and heat transfer related to various types of heating systems. The use and care of tools, using instruments to measure combustion efficiencies and installing equipment and ductwork to make up a heating system are covered. Also, introduced are comfort surveys, heat loss and gain, equipment selection and maintenance, solar heating and heat distribution systems.

AHR 1121—Principles of Refrigeration 2 6 4

An introduction to the principles of refrigeration, terminology, the use and care of tools and equipment and the identification and function of the components of a system. Other topics to be included will be the basic laws of refrigeration; characteristics and comparison of the various refrigerants; the use and construction of valves, fittings and basic controls. Practical work includes tube bending, flaring and soldering. Standard procedures and safety measures are stressed in the use of special refrigeration service equipment and the handling of refrigerants.

AHR 1122—Domestic and Commercial Refrigeration 2 6 4

Domestic refrigeration servicing of conventional, hermetic and absorption systems. Cabinet care, controls and system maintenance in domestic refrigerators, freezers and window air conditioning units are stressed. Commercial refrigeration servicing of display cabinets, walk-in cooler and freezer units and mobile refrigeration systems is studied. Using manufacturer's catalogs in sizing and matching system components and a study of control, refrigerants servicing methods is made. The American Standard Safety Code for Refrigeration is studied and its principles practiced. Prerequisite: AHR 1121.

AHR 1123—Principles of Air Conditioning I 2 6 4

Work includes the selection of various heating, cooling, and ventilating systems, investigation and control of factors affecting air cleaning, movement, temperature and humidity. Use is made of psychometric charts in determining needs to produce optimum temperature and humidity control. Commercial air conditioning equipment is assembled and tested. Practical sizing and balancing of ductwork is performed as needed. Prerequisite: AHR 1122.

AHR 1124—Air Conditioning and Refrigeration Servicing 2 6 4

Emphasis is placed on the installation, maintenance and servicing of equipment used in the cleaning, changing, humidification and temperature control of air in an air conditioned space. Installation of various ducts and lines needed to connect various components is made. Shop work involves burner operation, controls, testing and adjusting of air conditioning and refrigeration equipment failure. Prerequisite: AHR 1123.

AHR 1126—All Year Comfort System 2 6 4

Equipment used to provide heating and cooling for "all year" comfort will be studied. Included will be heat pumps, oil fired, gas fired, water circulating, electric-resistance and an introduction to solar heating and cooling systems. Specialized controls required for all year comfort systems, preventive maintenance, and balancing are included in the course.

AHR 1128—Automatic Controls 2 6 4

Types of automatic controls and their function in air conditioning systems. Included in the course will be electric and pneumatic controls for domestic and commercial cooling and heating; zone controls, unit heater and ventilator controls, commercial fan systems controls, commercial refrigeration controls and radiant panel controls. Prerequisite: AHR 1126.

AHR 1130—Year Around Duct System Design 4 0 4

This course will enable the Air Conditioning, Heating and Refrigeration student to design the necessary ductwork for residential and light commercial structures. Students will be able to also evaluate existing duct systems for adequate performance. This course is based on ACCA Manual D, D1 and D2 worksheets, thereby assuring a duct system design that will meet all code jurisdictions.

**AHR 1131 – State Air Conditioning-
Heating-Refrigeration
Licensing Law 4 0 4**

An in-depth study of the North Carolina Code for Heating, Air Conditioning and Refrigeration as set forth by General Statute 143-138(b). The purpose of the code, and the effect its provisions will impose upon the pertinent industry, will be covered by this course.

ART**ART 101 – Art Appreciation 3 0 3**

An introduction to fundamental elements and principles of creative art expression emphasizing composition, design, shape, value styles, and movement.

ART 102 – Beginning Drawing 2 2 3

A general introduction for the beginning art student who wishes to develop an ability to create two-dimensional representational images in traditional drawing media.

ART 103 – American Art History 3 0 3

A study of the principal painters, sculptors, architects, and craftsmen in America from pre-Columbian time to the present and the work they produced, which greatly enhanced our cultural heritage.

ART 104 – Beginning Painting 2 2 3

This course is for students who have drawing experience and wish to advance to painting. Students will work with various media, exploring the techniques of each.

**ART 105 – Western Civilization Art
History 3 0 3**

A survey of the history of visual art from ancient times to modern emphasizing the impact of masterpieces of painting, sculpture, and architecture on the past and the present.

ART 202 – Advanced Drawing 2 2 3

A development of the basic skills acquired in Beginning Drawing or other art courses. Topics of study include still life, landscape, and figure drawing.

ART 203 – Painting Seminar 2 2 3

This course is designed for the student who desires further art experience after completing Beginning Painting. A variety of projects are covered in a group seminar setting.

**ART 204 – Advanced Painting
Seminar 2 2 3**

This course is for the advanced painting student who will be able to work independently on assigned art projects approved by the instructor. Students will develop new skills and utilize skills from previous courses.

ART 205 – Film Appreciation 3 0 3

An analysis of the creativity and special techniques that combine to represent the broad range of ideas and emotions of quality motion pictures.

ART 206 – Elements of Film 3 0 3

A study of the pre-production, production, and post-production considerations (i.e., concept, manufacture, and sale) in the making of motion pictures.

**AUTO BODY REPAIR - AUTO
MECHANICS****AUT 1101 – Internal Combustion
Engines I 5 3 6**

Development of a thorough knowledge and ability in using, maintaining and storing the various hand tools and measuring devices needed in engine repair work. Study of the construction and operating of components of internal combustion engines. Testing of engine performance, servicing and maintaining of pistons, valves, cams and camshafts, fuel and exhaust systems, cooling systems, proper lubrication and methods of testing, diagnosing, and repairing.

**AUT 1102 – Engine Electrical
Systems 5 3 6**

A thorough study of the electrical systems in the automobile. Battery cranking mechanism, generator, ignition, accessories and wiring.

**AUT 1103 – Automotive Analyzing
Equipment 5 3 6**

Development of a thorough knowledge of and ability to use engine analyzing equipment. The testing of the ignition systems, fuel system, exhaust, and emissions system.

**AUT 1111 – Auto Body
Repair I 2 6 4**

Basic principles of automobile construction, design and manufacturing. A thorough study of angles, crown and forming of steel into complex contour of the present day vehicles. The student applies the basic principles of straightening, aligning and painting of damaged areas.

**AUT 1112 – Auto Body
Repair III 2 6 4**

A thorough study of the requirements for a metal worker, including the use of essential tools, forming fender flanges and beads, and straightening typical auto body damage. The student begins acquiring skills such as shaping angles, crowns and contours of the metal of the body and fenders. Metal working and painting.

AUT 1113—Metal Finishing and Painting I 2 6 4

Development of the skill to shrink stretched metal, soldering and leading and preparation of the metal for painting. Straightening of doors, hoods and deck lids; fitting and aligning. Painting fenders and panels, spot repairs and complete vehicle painting; the use and application of power tools.

AUT 1114—Body Shop Applications I 2 6 4

General introduction and instruction in the automotive frame and front end suspension systems, the methods of operation and control and the safety of the vehicle. Unit job application covers straightening of frames and front wheel alignment. The student applies all phases of training: repair order writing, parts purchasing, estimates of damage and developing the final settlement with the adjuster.

AUT 1123—Brakes 2 6 4

A complete study of various braking systems employed on automobiles and light trucks.

AUT 1221—Front Alignment 2 6 4

Theory of operation, correct disassembly and mounting of all front suspension parts of various types of frames (car and light truck). A thorough understanding of the function and repair of steering gears (power and standard), shock absorbers, springs, wheels and tires, pumps, rams and other steering parts and accessories is gained. Theory and application of steering geometry, correct diagnosis of problems and use of the alignment and balancing machines; analysis and correction of tire wearing problems, vibrations, hard steering, pulling and other problems.

AUT 1227—Power Accessories 1 3 2

This course will teach the student the principles and operations of the power accessories of the modern automobile. The student will study and repair the power accessory units such as power steering, power windows, power seats, power antennas, power headlights, power tailgates, windshield wipers, and windshield washers.

AUT 1301—Internal Combustion Engines II 2 6 4

A continuation of AUT 1101.

AUT 1302—Fuel Systems 5 3 6

A thorough study of the fuel systems in the automobile, fuel pump carburetors and fuel injectors. The characteristics of fuel, type of fuel system, special tools, and testing equipment.

AUT 1311—Auto Body Repair II 3 9 6

A continuation of AUT 1111.

AUT 1312—Auto Body Repair IV 3 9 6

A continuation of AUT 1112.

AUT 1313—Metal, Finishing and Painting II 3 9 6

A continuation of AUT 1113.

AUT 1314—Body Shop Applications II 3 9 6

A continuation of AUT 1114.

BIOLOGY**BIO 101—Biology I - Principles of Biology** 3 2 4

An introduction to basic biological principles, including elementary chemistry, cell structure and function, genetics, molecular biology, ecology and evolution.

BIO 102—Biology II - Zoology 3 2 4

A study of the animal kingdom including study of selected animals from each of the major groups. Emphasis is placed on the vertebrates.

BIO 103—Biology III - Botany 3 2 4

A survey of the plant kingdom including study of selected plants from each of the major groups, with emphasis on the seed plants.

BIO 107—Anatomy and Physiology I 3 2 0 4

A study of the structure and normal function of the human body with man identified as a living organism composed of living cells, tissues, organs, and systems. Included are the basic physiologic aspects of skin; the skeletal, articular, muscular, and nervous systems; and the special senses. A laboratory portion includes relevant experiments to augment the student's learning of body structure and functions.

BIO 108—Anatomy and Physiology II 3 2 0 4

A continuation of the study of the structure and normal function of man as a living organism. Special emphasis is on the circulatory, lymphatic, respiratory, digestive, urinary, endocrine, and reproductive systems and fluid and electrolyte balance. Laboratory experiences included study of models and small animal dissection for insight into comparative structure and function of man. Prerequisite: BIO 107.

BIO 109—Anatomy and Physiology III 3 2 0 4

This course is the third in a sequential series of three courses on human physiological processes of the body systems. Prerequisites: BIO 107 and BIO 108.

BIO 205—Microbiology I 3 2 4

A study of General Microbiology including identification, classification, morphology and culture methods of the representative groups.

BIO 206—Microbiology II 2 1 2

This course is the second in the sequential series of two courses. The focus of this study will be selected microorganisms; including bacteria, fungi, viruses, and protozoa, and the diseases or problems resulting from their growth and transmission. Prerequisite: BIO 205.

BOTANY**BOT 202—Advanced Botany 3 2 4**

A comprehensive study of the animal kingdom including anatomy, physiology, taxonomy, and ecology. Special emphasis will be placed on the higher plants. Prerequisites: BIO 101, 102, 103, or permission of instructor.

BLUEPRINT READING**BPR 122—Industrial Drawing 4 0 4**

Drafting fundamentals and blueprints interpreting techniques common to commercial buildings covered from a safety technician's point of view. Schematics and diagrams to include electrical, plumbing, and heating installations using appropriate symbols and notes.

BPR 1001—Blueprint Layout and Design 4 0 4

Building Trades-Principles of interpreting blueprints and specifications common to the building trades. Development of proficiency in making three views and pictorial sketches.

BPR 1104—Blueprint Reading: Mechanical 3 0 3

Mechanical-Interpretation and reading of blueprints. Information on the basic principles of the blueprint; lines, views, dimensioning procedures, and notes.

BPR 1113—Blueprint Reading: Electrical 4 0 4

Electrical-Interpretation of schematics, diagrams and blueprints applicable to electrical installations with emphasis on electrical plans for domestic and commercial buildings. Sketching schematics, diagrams and electrical plans for electrical installation using appropriate symbols and notes according to the applicable codes will be a part of this course.

BPR 1115—Blueprint Reading: Plumbing 4 0 4

Sketching diagrams and schematics, and interpretation of blueprints applicable to the plumbing trades. Emphasis will be on plumbing plans for domestic and commercial buildings. Piping symbols, schematics, diagrams and notes will be studied in detail. Applicable building and plumbing codes will be used for reference.

BPR 1116—Blueprint Reading: Air Conditioning 4 0 4

A specialized course in drafting for the heating, air conditioning and refrigeration student. Emphasis will be placed on reading of blueprints that are common to the trade; blueprints of mechanical components, assembly drawings, wiring diagrams, and schematics, floor plans, heating system plans including duct and equipment layout plans and shop sketches. The student will make tracings of floor plans and layout air conditioning.

BPR 1305—Blueprint Reading for Machinist 4 0 4

Advanced blueprint reading as related to actual complete detailed drawings found in machine shops. Discussion as to how pieces will be produced and this relationship to the drawing.

BUSINESS**BUS 101—Introduction to Business 4 0 4**

A survey of the business world with particular attention devoted to the structure of the various types of business organizations, methods of financing, internal organizations and management. Students learn the basic fundamentals of the free enterprise system.

BUS 109—Business Math 4 0 4

This course stresses the fundamental operations and their application to business problems. Topics covered include: fractions, decimals, percents, ratios, payroll, interest, and installment buying. Prerequisite: MAT 100.

BUS 115—Business Law I 4 0 4

A general course designed to acquaint the student with certain fundamentals and principles of business law, including contracts, negotiable instruments and agencies.

BUS 116—Business Law II 4 0 4

Includes the study of laws pertaining to bailments, sales risk-bearing, partnership-corporation, mortgages and property rights. Prerequisite: BUS 115.

BUS 117 – Personal Law 4 0 4

A general survey of law as it affects the individual citizen including the court system and protection of the individual's rights. Emphasis is placed on the Bill of Rights to the U.S. Constitution. Laws governing vehicle operation, domestic relations and consumer protection will also be covered.

BUS 123 – Business Finance I 4 0 4

Financing of business units, as individuals, partnerships, corporations and trusts. A detailed study is made of short-term, long-term and consumer financing.

BUS 124 – Business Finance II 4 0 4

Financing federal, state and local government and the ensuing effects upon the economy. Factors affecting supply of funds, monetary and credit policies. Prerequisite: BUS 123.

BUS 204 – Business Communications 4 0 4

Develops skills and techniques in writing and typing business communications. Emphasis is placed on writing and typing action-getting sales letters and prospectuses. Business reports, letters involving credit, collections, adjustments, complaints, orders, acknowledgments, remittances, and inquiry are covered in this course. Prerequisites: OSC 102 and ENG 130.

BUS 219 – Credit Procedures and Problems 4 0 4

Principles and practices in the extension of credit; collection procedures; laws pertaining to credit extension and collection are included.

BUS 231 – Leadership Development 2 2 3

Leadership Development helps the student attain the personal attributes and managerial skills that foster success on the job. Case histories, self-assessment quizzes, and step-by-step guidelines build students' self-confidence while covering personality development, speech power, memory, creativity, creative selling, telephone technique, management and leadership, personal appearance, business and social success, and employment.

BUS 233 – Human Resources Management 4 0 4

Principles of organization and management of personal, procurement, placement training, performance, checking, supervision, remuneration, labor relations, fringe benefits and security.

BUS 235 – Business Management 4 0 4

Principles of business management including overview of major functions of management, such as planning, staffing, controlling, directing and financing. Clarification of the decision-making function versus the operating function. Role of management in business qualifications and requirements.

BUS 271 – Office Management 4 0 4

Presents the fundamental principles of office management. Emphasis is on the role of office management including its functions, office automation, planning, controlling, organizing, and actuating office problems.

BUS 287 – Small Business Management 4 0 4

"How to" introduction to the practices involved in small business operations. For business people who will one day find themselves financially able to start or buy a business; it provides an overview of the major problems they will face and the pitfalls they must avoid if success is to be assured.

BUS 290 – Personal Finance and Money Management 2 2 4

Personal finance and management presents an in-depth study of personal financial decisions the average person can expect to confront, including the basics of budgeting, the intricacies of home ownership, income tax, and investment, and the wise use of insurance, wills, and trusts.

CARPENTRY**CAR 1101 – Carpentry I 2 6 4**

Carpentry I is a course designed to provide the student with the necessary skills to use power and hand tools safely and according to their recommended use. The student will also be able to correctly identify all power and hand tools relating to the field of carpentry. Lecture and shop will provide experience and knowledge in this course.

CAR 1102 – Carpentry III 2 6 4

Carpentry III is a course designed to enable a student to have competency in building floor systems of various types. The student will be able to correctly estimate and determine floor joist size. The student will learn the limitations of construction grade lumber and how to correctly size lumber for girders, headers and floor joists. Lecture and shop will provide experience and knowledge in this course.

CAR 1103—Carpentry V 2 6 4

Carpentry V is a course designed to enable a student to have competency in building and framing roof structures. The various types of roofs will be covered, and the student will be able to identify each and have a general idea of how each is constructed. How to cut and figure rafters will be covered. Also, truss application will be covered.

CAR 1104—Carpentry VII 2 6 4

Carpentry VII is a course designed to give a student competency in finished carpentry in the interior of a structure. This course will cover interior wall finish and how to run moldings of various types. It will also include how to install various types of hardware (hinges, locks, hasps, rollers) and how to install cabinets and mechanical devices. Stairs and stairway construction will be a major part covered in this course.

CAR 1106—Construction Seminar 4 0 4

Designed to survey current and new techniques in the construction field. This will be done through class research, demonstration, and lecture. Students will participate in all facets of the institutional process. Subject areas will be: innovations in the construction field, site layout, traditional techniques, materials and methods comparison, and approved areas for research such as solar energy and geothermal applications.

CAR 1301—Carpentry II 2 6 4

Carpentry II is a course designed to enable a student to properly lay-off and stake-out a house. Practice in site work (using a transit and builder's level) will be an important topic of study. Carpentry II is a course designed to provide the student with the skills necessary to lay block and brick, to align and also to construct simple corners and foundation walls. Lecture and laboratory will be coordinated to provide development in this skilled area.

CAR 1302—Carpentry IV 2 6 4

Carpentry IV is a course designed to enable a student to have competency in constructing walls. Corner construction and partition intersection framing will enable the student to assemble all exterior and partitioned walls. The course will cover how to properly locate and frame all windows and door openings. Bracing of walls and preparing walls for rafters will also be covered.

CAR 1303—Carpentry VI 2 6 4

Carpentry VI is a course designed to enable a student to have competency in the exterior finish of a structure. Major things covered in this course will be: how to frame and finish overhang gutter work, door and window frames, wall coverings and trim.

CAR 1304—Carpentry VIII 2 6 4

Carpentry VIII is a course designed to give the student general knowledge and experience in cabinet work.

CAR 1305—Building Code 4 0 4

This Building Code is designed to give the student specific knowledge in residential building construction. The *North Carolina Uniform Residential Building Code* will be studied. Lecture will give the student knowledge and experience on how to use this book.

MICROCOMPUTER SYSTEMS TECHNOLOGY**CAS 101—Introduction to Computer Technology 4 0 4**

An introductory course designed to acquaint the student with fundamentals of computers and computer processing. The course is appropriate for Microcomputer Systems Technology students as well as for students in other curriculums which require a computer literacy course. It is designed to help students understand how a computer works, its capabilities and its limitations. Computer terminology, computer hardware, microcomputer operations, and software applications will be emphasized. Prerequisite: none.

CAS 102—Microcomputer Applications 4 0 4

A survey of things personal computers can do. The student learns how to interact with a computer while learning fundamental skills in several computer applications such as word processing, file management, and spreadsheets using integrated software. This course may be taken concurrently with CAS 101. Prerequisite: OSC 102 or demonstration of typing proficiency.

CAS 106—Word Processing I 3 2 4

An extensive course designed to teach computer users word processing skills using WordPerfect. Skills learned include creating, editing, saving and printing documents. Other topics are typing enhancement, multi-page documents, tabs, and block operations. Prerequisite: OSC 102 or demonstration of typing proficiency.

CAS 107—Word Processing II 3 2 4

A continuation of CAS 106 using advanced concepts in WordPerfect, such as merging, graphics, sorting, envelopes, columnar text, tables, labels, and outlines. Prerequisite: CAS 106.

CAS 120—Microcomputer Operating Systems 3 2 4

This course is designed to acquaint the student with microcomputer operating systems. Emphasis is placed on controlling input and output, hard disk management, maintenance utilities, and software installation. Prerequisite: CAS 101.

CAS 130—Microcomputer Graphics 3 2 4

Introductory course designed to acquaint the student with microcomputer graphic software capabilities. Students will use microcomputer graphics software to produce visual displays of processed data. Students will also learn to evaluate, select, maintain and utilize microcomputer graphic software. Prerequisite: CAS 101.

CAS 135—Desktop Publishing 3 2 4

Using a microcomputer and desktop publishing software to assemble words and illustrations on a page will be studied in this course. The students will learn to produce attractive brochures, pamphlets, manuals, newsletters, and other documents. Terminology and skills from printing and publishing, graphic arts, and computers are emphasized. Prerequisite: CAS 106

CAS 140—Hardware Maintenance and Installation 3 2 4

This course is designed to introduce the student to microcomputer hardware components. Topics include diagnostic testing procedures, installation of memory and peripherals, general maintenance and troubleshooting. Prerequisite: CAS 101.

CAS 150—Integrated Spreadsheets 3 2 4

A course designed to teach users how to use an integrated spreadsheet. Learning will be facilitated through the solving of practical business problems in a "hands-on" environment.

CAS 151—Advanced Spreadsheets 3 2 4

An advanced course in the utilization of integrated spreadsheet software. Emphasis will be placed on database functions, multi-level spreadsheets, input screens, advanced spreadsheet commands, and macro programming. Advanced commands and concepts will be taught through the use of realistic examples and practical lab applications. Prerequisite: CAS 150.

CAS 160—Windows 4 0 4

This course is designed to familiarize the student with Windows' capabilities and uses. Topics include working in a graphical user interface environment, program and file management, accessories including Write and Paintbrush, printing, installing applications, and customization. Prerequisite: CAS 101 or CAS 102 or permission of instructor.

CAS 210—Microcomputer Office Systems 4 0 4

A study of the techniques utilized in the development of office automation systems. Emphasis is on organization concepts, skills, and procedures; capturing, storing and retrieving information; traditional and electronic information resources, decision making, and communication systems. Prerequisites: CAS 101, 106, 120, 210, 212, 240.

CAS 212—DataBase Management 3 2 4

An introduction to using database management applications on personal computers. Creation, inquiry, updating and reporting are learned through business applications. The student will gain a working knowledge of database software.

CAS 213—Advanced DataBase Management 3 2 4

This class is designed to teach advanced concepts in database management. Students will gain an understanding of programming concepts to allow customizing of whole multi-file systems for use in business. Prerequisite: CAS 212.

CAS 230—Data Communications I 3 2 4

This course is designed to introduce students to the concepts and technology of data communications in the context of computerized information systems. Includes a study of telecommunications, communications software, FAX, voice mail, and distributed data processing. Other topics include trends in applications and technology, and an overview of local area networks. Prerequisites: CAS 120, or permission of instructor.

CAS 231—Data Communications II 3 2 4

This course is designed to introduce students to the concepts and technology of local area networks. Included are a study of the development of LAN's, LAN standards, and application processing. Other topics include choosing and evaluating LAN's network management, and security and reliability. Learning will be facilitated through using current LAN software in a "hands on" environment. Prerequisite: CAS 230.

CAS 240—Automated Accounting Systems 3 2 4

This course is designed to acquaint the student with integrated accounting software. Components include payroll, general ledger, inventory, billing, and other office functions. (Peachtree Accounting software will be used.) Prerequisite: ACC 120, ACC 121.

CAS 260—Microcomputer Training and Support 4 0 4

This course is designed to introduce the student to training and support techniques. Writing and using documentation; selecting, learning, and teaching software packages; vendor resources; and adult education theory will be included. This course prepares the student to work with management and technical personnel responsible for information processing functions. Prerequisite: CAS 210, or permission of instructor.

CAS 270—Microcomputer System Project 7 6 4

This course is designed to provide the student an opportunity for applying office automation technology. The student will use the skills acquired in previous courses to design and implement an integrated office system. Prerequisite: Permission of instructor.

CHEMISTRY**CHM 100—Chemistry-An Introduction 2 2 3**

An overview of chemical concepts and principles with emphasis on applications to the health sciences.

CHM 101—Chemistry I 3 2 4

Fundamental principles and laws underlying chemical action with special emphasis on the non-metals, their compounds, theories and problems. Laboratory deals with the non-metallic elements and their compounds, and the theories of qualitative and quantitative analysis. A working knowledge of algebra is highly recommended before entry into these courses which must be completed in sequence. Prerequisite: MAT 102.

CHM 102—Chemistry II 3 2 4

A continuation of CHM 101. Prerequisite: CHM 101.

CHM 103—Chemistry III 3 2 4

A continuation of CHM 101 and CHM 102. Prerequisite: CHM 102.

CHM 110—Introduction to Organic Chemistry 3 2 4

Topics to be considered in this course include nomenclature of basic families of organic compounds — hydrocarbons and function group — containing compounds. Synthesis of these families plus representative chemical and physical behaviors will be stressed. Selected topics such as isomerism and reaction mechanisms will be discussed when appropriate. Laboratory experiences will involve application and illustrations of basic organic synthesis techniques.

CRIMINAL JUSTICE**CJC 120—Introduction to Criminal Justice 5 0 0 5**

This course is designed to familiarize students with the philosophy and history of criminal justice agencies, law enforcement, the courts, and corrections. Emphasis will be placed on the duties, responsibilities, and legal limitations of the various agencies. An overview of criminal justice as a career will also be examined.

CJC 121—Criminology 5 0 0 5

This is a general course designed to provide students with an overview of the theoretical causation of crime and delinquency. Criminal behavior and society's reaction to it will be discussed.

CJC 122—Substance Abuse 3 0 0 3

This course examines the development and history of substance abuse in the United States. Emphasis is placed upon identifying the characteristics of various drugs and drug abusers, contemporary health and social problems resulting from drug abuse, and the implications of substance abuse for the criminal justice community.

CJC 123—Juvenile Delinquency 5 0 0 5

This course examines delinquency as an individual and a social problem. The theories of delinquency causation, the involvement of law enforcement personnel in the juvenile courts, current court procedures and policies pertaining to the handling of juveniles. The means of improving the relationship between the law enforcement officer and the juvenile offender.

CJC 124—Criminal Law 5 0 0 5

This course includes a history of the development and philosophy of criminal law to include theoretical and practical application. Major crimes, as defined by the North Carolina General Statutes, will be examined. Prerequisite: CJC 121.

CJC 125—Constitutional Law 5 0 0 5

This course will provide an examination of the United States Constitution and its importance to American jurisprudence. Legal decisions pertinent to contemporary law enforcement, courts, and correctional agencies will be studied. Included will be issues concerning the concepts of federalism, the right to privacy, and the protection of individual and civil rights.

CJC 126—Community Relations and Ethics 5 0 0 5

The course examines ethics as applicable to the criminal justice practitioner. Factors relating to effective community relations, law, psychological and social factors, minorities, social change, planning and community relations. General survey of municipal public relations and their effect on government process.

CJC 190—Criminal Investigations I 3 0 0 3

This course introduces the student to fundamentals of investigation, crime scene search, recording, collection and preservation of evidence. Sources of information, interview and interrogation, case preparation, and court presentation will be discussed.

CJC 191—Criminal Investigations II 3 0 0 3

A continuation of Criminal Investigations I with emphasis on specific offenses such as homicide, burglary, robbery, larceny, narcotics, arson, and sex crimes. Prerequisite: CJC 190.

CJC 192—Introduction to Criminalistics 2 2 0 3

Relationships of forensic science to criminal investigation and development of new laboratory techniques. Proper methods of processing the crime scene for physical evidence and the subsequent collection, presentation, and identification of evidence from the crime scene through introduction into court.

CJC 193—Correctional Law 3 0 0 3

Consideration of major legal issues pertaining to corrections, including sentencing, probation, restitution, prisons, parole, and restoration of rights. Emphasis is given to legal issues typically confronted by correctional administrators, probation/parole, and prison personnel.

CJC 231—Introduction to Law Enforcement 5 0 0 5

The principles of organization and administration of law enforcement, recruitment, selection, training, discipline and promotion; the functional division of the modern police department; and the future professionalism of the police services and patrol operations. Prerequisite: CJC 120.

CJC 232—Crisis Intervention and Management 5 0 0 5

This course introduces the student to theories and practices for the intervention, defusing, mediation, and referral of persons who are experiencing emotional, psychological, and relationship problems. Substance abuse and social and individual crisis situations are discussed, and the student is presented with methods and techniques for handling crisis situations. This is accomplished through lecture, demonstration, and practical exercises.

CJC 233—Introduction to Corrections 5 0 0 5

This course examines a historical analysis of correctional institutions and classifications. The present efforts to change offender behavior. Today's use of community-based corrections, institutional classification strategies, pre-release and temporary release programs. The innovative uses of probation and parole, and community residential programs.

CJC 234—Criminal Justice Organization and Supervision 5 0 0 5

This course is designed to prepare the new supervisor to effectively carry out his law enforcement responsibilities in areas such as management style, leadership, operations, personnel matters, and community relations. Prerequisite: Permission of instructor.

CJC 235—Counseling 5 0 0 5

The study of counseling from a criminal justice perspective. An examination of specific strategies and techniques designed to facilitate changed behavior. Emphasis on self-awareness and skills building.

CJC 236—Security, Protection, and Loss Control 5 0 0 5

This course introduces the student to the historical, philosophical, and legal bases of security, as well as to the fundamental principles of loss prevention to include all aspects of retail security protection. Internal safeguards including employee activities are also covered. The student will be prepared to analyze and comprehend special problems and practices of the security profession. Topics include preparation of a security survey of offices, schools, airports, etc; identification of problem areas and recommended procedures for safeguarding various facilities, preparation of procedures for security of transportation and cargo facilities.

CJC 237—Seminar in Criminal Justice Issues 3 0 0 3

This course offers eighth quarter criminal justice students an opportunity to examine relevant and critical issues facing our society. A seminar format is utilized to encourage the critical analysis of information. Prerequisites: CJC 120 through CJC 231 inclusive.

CJC 290-293—Work Experience: Internship or Free Elective (maximum of 3 hours credit) 0 10 0 1

This course offers eighth quarter criminal justice students an opportunity to experience the workplace of a local criminal justice agency and integrate concepts discussed in class into real-life situations. Students will be supervised by the Criminal Justice Department Chairman and agency staff. Students will complete a minimum of 10 contact hours per week. (10 clinical hours) Prerequisites: Consent of Criminal Justice Department Chair.

COSMETOLOGY**COS 1001—Scientific Study I 7 15 12**

Introduction to cosmetology basics, bacteriology, sanitation and their importance; shampoos, conditioner and proper draping of patrons; anatomy and physiology and their importance.

COS 1002—Scientific Study II 7 0 7

Basic cosmetology chemistry and history of hair shaping, hairstyling, perming, relaxing, thermal curling and hair color; chemistry of make-up.

COS 1003—Scientific Study III 7 0 7

Introduction to advanced cosmetology, theory of massage; electricity and light therapy; high frequency and methods of application; theory of perming; relaxing and hair coloring and lightening; the study of the hair and disorders of the scalp.

COS 1004—Scientific Study IV 7 0 7

Introduction to business and North Carolina law as applied to cosmetology; the study of manicuring, nail diseases and disorders; in-depth study of the skin and its disorders.

COS 1011—Clinical Application I 0 18 6

Proper draping, shampooing, rinsing and scalp examination on models; proper sanitation procedures and mannequin practice; the application of cosmetics.

COS 1022—Clinical Application II 0 33 11

Hair shaping and thinning; hairstyling on mannequins; proper sectioning for perms; hair cuts; marcelling; color; practice in perm wrapping and thermal curling.

COS 1033—Clinical Application III 0 33 11

Massage application and procedures; hair removal; ear piercing; light therapy and electricity applications; color and perming application and chemical relaxing procedures on live models or mannequins.

COS 1044—Clinical Application IV 0 33 11

Practical application of business and North Carolina law pertaining to the operation of cosmetic art shops; manicuring; pedicuring; artificial nails and hand and arm massage on models; the application of proper sanitation procedures.

DESIGN**DES 118—Publications Design and Production I 2 2 3**

A study of techniques and problems in the design and production of publications, including pamphlets, brochures, catalogues, and college yearbook.

DES 119—Publications Design and Production II 2 2 3

A continuation of DES 118.

DES 120—Publications Design and Production III 2 2 3

A continuation of DES 119.

DES 121—Publications Design and Production IV 2 2 3

A continuation of DES 120.

DRAFTING**DFT 110—Introduction to Drafting 4 0 4**

In this course, the student will learn to organize for presentation on prints mechanical, architectural, and geographic information. This information will be presented through use of orthographics, isometrics, sectional drawings, detail drawings, dimensioning, notes and lettering. The course emphasis will be on the general presentation of this information as applied to different areas of drafting and drawing. The student will develop these skills through actual practice with the most common drawing tools.

DRAMA**DRA 105—Theatrical Performance 2 2 3**

Designed to give the student experience in an appreciation of a variety of behind-the-scenes and on-stage procedures that are requisite to a theatrical production.

DRA 106—Dramatic Production 2 2 3

Designed to give the student further experience in theatrical productions with emphasis placed on technical theatre.

DRA 107—Theatre Appreciation 3 0 3

A general survey of theatre history including an investigation of the origins of tragedy and comedy. A study of medieval church drama, Shakespeare, the Renaissance and the Romantic traditions, Ibsen and realism. Theatre of the Absurd and some of its more recent descendants. Appropriate selections from the literature of some of the above-mentioned periods will be included.

DRA 200—Creative Dramatics 1 0 1

A course designed for teachers and other youth leaders who wish to use creative dramatics as a teaching tool. Different types of creative communication appropriate for children and adolescents will be studied. Major topics are Creative Theatre, Formal Theatre, and Oral Interpretation. Projects will include selected readings, improvisations, and skits.

DRA 202—Musical Theatre 3 0 3

The study of musical theatre—its origins, history, etc. Participation in musical skits will be encouraged.

DRA 208—Children's Theatre 3 0 3

This course introduces the student to the different types of theatre appropriate for children. These types include, but are not limited to, Reader's Theatre, Mime, Creative Dramatics, Story Theatre, and Presentation Theatre. A course requirement will be the actual selection, rehearsal and presentation of a mini production for children by adults and/or a production by children.

ECONOMICS**ECO 102—Economics I 5 0 5**

The fundamental principles of economics including the institutions and practice by which people gain a livelihood. Included is a study of the laws of supply and demand and the principles bearing upon production, exchange, distribution and consumption both in relation to the individual enterprises and to society at large.

ECO 104—Economics II 5 0 5

Greater depth in principles of economics, including a penetration into the composition and pricing of national output, distribution of income, international trade of finance and economic problems.

ECO 201—Labor Economics 4 0 4

Emphasis is placed on the history of the labor movements in the United States, the development of methods and strategies by labor organizations and by management, the shift in the means of public control, and the factors on income and economic security.

EDUCATION**EDU 100—Writing Across the Curriculum 1 0 1**

The study of writing in the subject matter areas, a survey of writing across the curriculum programs, including their content, design, teaching strategies and evaluation.

EDU 103—Social and Psychological Development of the Child: A Contemporary Study 1 0 1

A study of child development for pre-school and kindergarten teachers, family care providers, child care center staff, and parents. Includes practical strategies to improve the quality of life for children between birth and age 6 to ensure emotional, physical, and intellectual well-being. Provides valuable child development background for teachers of the older elementary-school child.

EDU 121—Effective Teaching Strategies 3 0 3

Emphasis is placed on learning effective teaching techniques to enhance expertise as an instructor. Practical examples will be studied with use of videotaping to evaluate organization, techniques, and behavior.

EDU 151—Creative Art for Children 2 2 3

A study of art for the elementary grades with concentration on theory, media, methods and creative art activities appropriate for the young child.

EDU 201—Teaching for Thinking 3 0 3

A multidisciplinary course designed to help teachers help their students learn to think for themselves. Techniques and strategies for creating situations in which students must organize, analyze, synthesize, evaluate, guess, imagine, classify, and interpret are demonstrated.

EDU 202 – Reading In the Content Areas 3 0 3

This course, which provides instruction in the teaching of reading in the content areas (such as history, science, social studies) is designed for classroom teachers who teach at the junior high, senior high, and adult level. Basic theories and their practical application to teaching are emphasized. Topics include formal testing, textbook selection, making effective reading assignments, teaching students how to study, and designing strategies for presenting textbook content to students.

ELECTRICITY

ELC 115 – Rotary Machines and Controls 3 2 4

Concepts of motor construction, power requirements, mechanical aspects of electric motors, including DC and stepping AC motors. The course includes wiring, testing, starting, reversing, and speed control of various types of motors. Motor control circuits include electro-mechanical and solid-state devices and times or sequencing switches. Information also aids in proper choice of motor types for specific applications.

ELC 1102 – Basic Electricity for Air Conditioning, Heating, and Refrigeration 2 6 4

The use and care of test instruments and equipment used in servicing electrical apparatus for air conditioning and refrigeration installations. Electrical principles and procedures for trouble-shooting of the various electrical devices used in air conditioning, heating and refrigeration equipment. Included will be transformers, various types of motors and starting devices, switches, electrical heating devices and wiring.

ELC 1111 – Basic Electrical Circuits, Machines, and Transformers I 4 3 5

A student will gain competency in construction and using series and parallel circuits. Single and polyphase rotating machinery, transformers and transformer connections will also be studied. A large portion of lab time will be used to build competency in understanding and practical application of these circuits and machines.

ELC 1113 – Alternating Current and Direct Current Machines and Controls 2 6 4

This course is designed to build competency in the area of magnetic motor controls. Basic start-stop-job circuits and their many variations as well as limiting devices in these circuits will be studied in detail. Large portions of lab time will be spent in developing competency in the use of the circuits as they apply to industry.

ELC 1114 – National Electrical Code 4 0 4

A study of the National Electrical Code in preparation for the licensing examination. Instruction will include the latest code revisions, safety measures and standard practices in the wiring of single and multifamily dwellings, commercial establishments and industrial locations.

ELC 1124 – Residential Wiring I 2 6 4

Provides instruction and application in the fundamentals of blueprint reading, planning, layout and installation of wiring in residential applications such as: services, switchboards, lighting, fusing, wire sizes, branch circuits, conduits, National Electrical Codes regulators in actual building mock-ups.

ELC 1125 – Commercial and Industrial Wiring I 2 6 4

Layout, planning and installation of wiring systems in commercials and industrial complexes, with emphasis upon blueprint reading and symbols, the related National Electrical Codes, and the application of the fundamentals to practical experience in wiring conduit preparation and installation of simple systems.

ELC 1311 – Basic Electrical Circuits, Machines, and Transformers II 4 3 5

A continuation of ELC 1111.

ELC 1313 – AC/DC Machines and Controls II 2 6 4

A continuation of ELC 1113.

ELC 1324 – Residential Wiring II 2 6 4

A continuation of ELC 1124.

ELC 1325 – Commercial and Industrial Wiring II 2 6 4

A continuation of ELC 1125.

ELECTRONICS**ELN 100—Introduction to Electronics 3 2 4**

A survey of electronics with particular attention to what electronics consist of. A non-mathematical approach will be utilized in this course. Students also learn the magnitude of the Electronics Engineering Technology degree requirements.

ELN 103—Circuit Layout and Design 3 2 4

The fundamentals of drafting are presented with an emphasis on applications in the electronics field. Basic skills and techniques are included such as the use of drafting instruments, types of drawings, construction of drawings both with instruments and freehand, lettering and dimensioning, and how to read prints. In addition to basic skills, specialized experience will be included which directly relates to the electronics industry, such as types of drawings common to electronics, special symbols used, schematic diagrams, and layout diagrams with an emphasis on printed circuit work.

ELN 112—Electronics Fundamentals I 3 2 4

Presents fundamental principles of Direct Current electricity including: units of measurement, OHM's law, Kirchoff's laws, simple parallel, and series parallel resistive circuits, R-C & L-R circuits, power resistance, current capacitance, magnetism, and basic circuit components. Lab work will cover the proper use and care of hand tools, and measuring equipment such as the VOM and VTM. Interpretation of schematic diagrams and component identification, and verification of basic electrical laws will be included.

ELN 113—Electronics Fundamentals II 3 2 4

Presents fundamental principles of alternating current electricity including: resistive, capacitive, and inductive circuits, impedance, phase relationships, resonant and nonresonant series and parallel LRC circuits, inductive coupling, and air and iron core transformers concepts. Lab work will include use of the DVM and oscilloscope, and verification of basic electrical laws. Prerequisites: ELN 112, MAT 101.

ELN 114—Active Devices 3 2 4

Covers basics of vacuum tubes and solid state devices including: transistors, diodes, photocells, and thermistors. Lab experiments will verify the function of these components in circuits. Prerequisites: ELN 113, MAT 102.

ELN 121—Electronic Circuits I 3 2 4

Covers the building blocks of electronics such as: power supplies, amplifiers, oscillators, feedback circuits, and tuned circuits. Lab work will give experience in building and troubleshooting these circuits. Prerequisite: ELN 113.

ELN 122—Electronic Circuits II 3 2 4

Allows the student to study the relationships of the circuits covered in ELN 121. Discussion will center around the networks formed by interconnection of these circuits. Prerequisite: ELN 121.

ELN 123—Introduction to Microprocessors 3 2 4

A study of the computer in its smallest physical form. The student will be given practice in BASIC programming and the utilization of the microprocessor in manufacturing situations.

ELN 208—Industrial Electronics 3 2 4

Electronics as applied in industrial control and production systems: study includes types of components and circuits used to control processes and equipment such as DC motors, drives, switching, and control processes and equipment and its installation and safety considerations. Includes the study of circuits used in sensing and control as well as monitoring manufacturing processes.

ELN 218—Logic Fundamentals 3 2 4

Covers basic logic circuit design and application including: OR gates, AND gates, NOR gates, NAND gates, binary numbering systems and Boolean Algebra.

ELN 219—Pulse and Logic Circuits 3 2 4

This course continues the study of topics covered in ELN 218 and introduces bistable and monostable multivibrators, integrators, Schmit trigger circuits, and transistor switches. Prerequisite: ELN 218.

ELN 235—Industrial Instrumentation 3 2 4

Principles of measurement of electrical values and other parameters for use in the automatic control of machinery and equipment are covered. Electronic circuits necessary for the processing of information and display are investigated. Several types of transducers for the detection and conversion of various parameters are studied and their interfacing with indicators and other systems are discussed.

ELN 242—Electronic Systems I 3 2 4

Study of Motorola 6800 series machine language instruction set. This course will cover most of the 72 types of instruction that make up the 6800's instructions set. An assembler will be used to convert programs from assembly language to machine code. Prerequisite: ELN 123.

ELN 243—Electronic Systems II 3 2 4

Covers microprocessor applications and interfacing. Discussion of Basic Input/Outputs, serial and parallel data communication, and Analog to Digital and Digital to Analog Conversions. Prerequisite: ELN 242.

ELN 246—Electronic Systems Project 3 2 4

A class emphasizing independent research and design work by the student. The student will select a project in consultation with the instructor; perform the required research; compile data; formulate a theoretical model; and construct, test, and evaluate a working model of the selected project.

ELN 249—Electronic Technique and Problem Solving 3 2 4

ELN 249 is primarily a "hands-on" course to give the student the opportunity to gain proficiency with tools of the trade by project design, layout, drilling, cutting, fastening and soldering as they carry out assignments from the instructor. The student also gains knowledge of procedures used in problem solving by application of previously learned material as well as troubleshooting procedures for many systems. The course objective is to prepare the student for work-bench applications of electronics and the use of various hand and power tools.

ELN 251—Programmable Logic Controller Programming and Application 3 2 4

This course introduces the student to Programmable Logic Controllers (PLC's) and their application in industry. Topics include selection and installation, boolean programming, ladder programming, I/O characteristics, latch circuits, master control relays, timers and counters, sequencer programming, and troubleshooting. Laboratory exercises include PIC logic and I/O configurations, programming techniques, program de-bugging, and system troubleshooting. Prerequisites: ELC 1113 and/or ELN 115.

ELN 252—Intermediate Programmable Controller Programming and Application 3 2 4

This course deals with some of the more advanced features of Programmable Logic Controllers (PLC's). Topics include sensors, analog I/O, multiple PLC systems, advanced sequencer applications, shift register applications, advanced programming techniques, basic math functions, data manipulation, and basic peripheral applications. The student will also learn about bus configurations, memory organization, and register functions. Laboratory exercises will include sensors, multiple PIC systems, and associated peripheral devices. Prerequisites: ELC 1113 or ELN 115, and ELN 251. (Equivalent industrial experience may be substituted with instructor/advisor approval.)

ELN 1103—Solid State Devices 4 0 4

Basic principals of solid state devices as found in industry. The course focuses on understanding the different symbols and a fundamental understanding of solid state device operations. Prerequisite: ELC 1111 or experience.

ENGLISH**ENG 100—Basic English Skills 3 0 3**

A review of basic English skills which will prepare students for the competencies needed in English 130 and 131. Course content includes a study of major structural errors, grammar, mechanics, punctuation, spelling and study skills. This is a developmental course which will not count for credit toward any degree/diploma or certificate program.

ENG 103—Report Writing 3 0 3

A study of standard English and the organization and techniques of modern report writing. Exercises in developing typical reports using writing techniques and graphic devices. Special emphasis on practical application of occupational writing demands.

ENG 105—Masterpieces of World Literature 3 0 3

A study of novels, short stories, poetry, plays, and non-fiction representative of both classic and contemporary world literature.

ENG 130—English Grammar and Composition 3 0 3

A study of English grammar, usage, punctuation, mechanics, and basic library skills. Special emphasis on the writing process and the development of the paragraph and the essay. Includes a library orientation program for new users, with special attention to individual bibliographic assistance and the use of bibliographic and other library materials.

**ENG 131—Composition, and
Introduction to
Literature 3 0 3**

A continuation of ENG 130 with special emphasis on the development of interpretive essays on thematic and structural topics in four genres: poetry, short story, drama, and the essay. Prerequisite: ENG 130.

**ENG 132—Composition, Research,
and Documentation 3 0 3**

A study of research in the college library including the card catalog. *Reader's Guide to Periodical Literature*, and bibliographic resources. Emphasis on the development of the research paper, including notetaking, paraphrasing, and documentation. Prerequisite: ENG 131.

**ENG 133—Advanced Composition,
Research, and
Documentation 3 0 3**

Advanced study of research methods, documentation, and use of the college library. Required research papers include topics on selected works of literature and non-literary topics. Prerequisites: ENG 130, 131, and 132.

ENG 200—Storytelling 1 0 1

A course designed to motivate students to collect and record stories and legends from both written and oral sources. In addition, students will learn effective storytelling techniques through model presentations and from sharing their own work. Topics of study include sources for stories, types of stories, and effective storytelling techniques.

**ENG 201—English Literature
Survey 3 0 3**

English 201 is a study of selected works of major British writers, including discussion of the milieu in which they wrote. Students papers analyze and criticize authors and their work. ENG 201 covers major British writers beginning with Chaucer and continuing through the twentieth century. Prerequisite: ENG 131 or advisor approval.

ENG 203—Creative Writing 3 0 3

Creative writing laboratory. Emphasis on imaginative writing with special emphasis on essays, short stories and poetry. Prerequisite: ENG 130.

**ENG 205—Major American
Writers 3 0 3**

A study of major American authors representative of literary movements from Romanticism to the present.

**ENG 207—Southern American
Writers 3 0 3**

A study of principal authors, from colonial times to the present, who have made a contribution to a better understanding of the people and institutions of the South.

**ENG 209—Creative Writing
Workshop 3 0 3**

Continuation of ENG 203—Creative Writing is a didactic course. Creative Writing Workshop will be responsible for all phases of the publication of the literary magazine *Foothill Notes*; i.e., writing, editing, typing, distributing, etc.

**ENG 210—Effective
Communication 3 0 3**

A course designed to help participants understand their own communication problems, overcome or prevent communication breakdowns, and improve their relationships with others through more effective listening and speaking skills.

**ENG 216—Walden by Henry David
Thoreau 1 0 1**

A course designed to familiarize students with Thoreau's *Walden*. This book will be read and discussed in a seminar setting. Thoreau's life will also be discussed.

**ENG 217—The Poetry of Robert
Frost 1 0 1**

A course designed to familiarize students with the poetry of Robert Frost. Appropriate selections will be read and discussed in a seminar setting. Frost's life will also be discussed.

**ENG 218—Children's
Literature 3 0 3**

This course is a critical study of those books, both classical and current which are appropriate for the varying needs and developmental stages of children from kindergarten through the ninth grade.

**ENG 221—American Literature
Survey I 3 0 3**

From the foundations of the republic to the late 19th Century, emphasizing distinctive lines of thought.

**ENG 222—American Literature
Survey II 3 0 3**

From naturalism to the present, emphasizing the tension between romantic and neoclassical principles.

ENG 1102—Communication Skills 4 0 4

Explains topics in oral and written communication, including the communication process, listening, oral presentations, non-verbal communications, participation in meetings, writing the letter of application and accompanying resume, and special problems in English grammar and usage. Includes a library orientation program for new users, with special attention to individual assistance for finding materials and using bibliographic and other library materials.

ENVIRONMENTAL**ENV 206—Environmental Law 4 0 4**

A study of local, state, and federal laws and acts concerning environmental quality standards and the use of resources, legal procedure for enforcing laws, and problems concerning enforcement. Included will be environmental standards dealing with polluting sources such as industry, agriculture, municipalities, and individuals.

FOOD SERVICE**FSO 1102—Food Preparation and Baking I 2 6 4**

A study of the scientific principles of baking, food preparation, and cooking procedures; included will be preparation of salads, stocks, sauces, breads, desserts, and beverages.

FSO 1103—Sanitation-Safety Equipment 4 0 4

A study of sanitation standards and safety precautions as related to food storage, preparation, and service. The student will also learn the design, methods and care of kitchen equipment.

FSO 1105—Purchasing 2 0 2

To indicate the functions and administrative operations of the food purchaser's department. Methods and procedures for purchasing foods, standards, grading, and inspecting those items bought. Also, the student will learn how items are to be received, stored, and issued.

FSO 1106—Menu Planning 3 0 3

This course will demonstrate a study of composing a menu. It will reflect the seasonal changes necessary in menu planning, the essential human food requirements and the types of food that produce these requirements.

FSO 1108—Personnel Management 2 0 2

A study of the job responsibilities and duties of the food service worker; his relationship to his associates, with emphasis on understanding human behavior, labor policies and legislation, and the importance of self-development in relation to professional responsibility.

FSO 1109—Production Management 2 0 2

Use of standardized recipes and portion control, work sheets, score sheets for judging food products, plan of work to improve work methods and further emphasis on motion economy.

FSO 1112—Food Preparation and Baking III 2 6 4

This course will develop artistic skills related to cooking and baking. The course will introduce more detailed assignments in the practical shop work to achieve increased skills. The student will learn the principles and preparation of egg cookery. All breakfast preparation will be taught.

FSO 1116—Baking V 2 6 4

A continuation of FSO 1312—Food Preparation and Baking IV.

FSO 1122—Food Preparation V 2 6 4

A continuation of FSO 1312—Food Preparation and Baking IV.

FSO 1302—Food Preparation and Baking II 2 6 4

This course is primarily designed to teach the students the different cuts of meats and their respective cooking methods. Fish, seafood, and poultry will also be stressed. The student will also be required to expand his knowledge in breads, cakes, pies, and other desserts.

FSO 1312—Food Preparation and Baking IV 2 6 4

A continuation of FSO 1112—Food Preparation and Baking III.

FSO 1316—Baking VI 2 6 4

A continuation of FSO 1116—Baking V.

FSO 1322—Food Preparation VI 2 6 4

A continuation of FSO 1122—Food Preparation V.

HISTORY**HIS 101—World Civilization I 3 0 3**

A survey of the cultural beginning of Eastern and Western civilizations, dealing with migrations, cultural diffusion, and the development of governmental and ethical structures through the fall of the Roman Empire.

HIS 102—World Civilization II 3 0 3

A continuation of HIS 101 from the Middle Ages, through the Renaissance, the Voyages of Discovery, Colonization, the Reformation and the Age of Enlightenment.

HIS 103—World Civilization III 3 0 3

A continuation beginning with the Industrial Revolution, the impact of industrial imperialism, the American and French Revolutions; the rise of political democracy and modern nationalism to the present.

HIS 110—American History I 3 0 3

A comprehensive survey of American History from colonial times through the Civil War. It is a study of the political and social history of a pluralistic society with emphasis upon manners, mores, literary and artistic movement, religions and philosophical schools of thought, and the general outlook of the American people on particular subjects.

HIS 111—American History II 3 0 3

A continuation of American History I, beginning with the reconstruction period after the Civil War and proceeding through history up to the present.

HIS 112—American History III 3 0 3

A continuation of American History I and American History II. An in-depth study of the United States Supreme Court Justices and landmark decisions, especially those decisions affecting educational institutions.

HUMANITIES**HUM 101—Dimensions of Human Experience 3 0 3**

An interdisciplinary course in the humanities emphasizing some of the major dimensions of human experience, as reflected in philosophy, art, literature, music, history, religion, and psychology.

HUM 110—History of Dress 4 0 4

A study of the costumes of the ancient world. Europe and American and the effects of the social environment upon appearance and evolution of garments with special emphasis on the influence of history on modern concepts of dress.

HUM 113—Professional Imaging 4 0 4

This course stresses the individual development of the student's potential in enhancing and training mind and body in the following areas: self-esteem and personality, physical conditioning, nutrition and diet, clothing and appearance, habits or orderliness, overall grooming, graciousness, manners, and consumer awareness.

HYDRAULICS**HYD 1105—Hydraulic Fundamentals 4 0 4**

An introduction to basic hydraulic principles including Pascal's Principles of static fluids, Bernoulli's theorem of fluids in motion, viscosity, laminar and turbulent flow, Reynolds' number, dynamic similitude, velocity gradient, etc.

INDUSTRIAL MANAGEMENT**ISC 107—Occupational Safety and Health Act 4 0 4**

A survey of the Williams-Steiger Occupational Safety and Health Act of 1970. Application of the Federal Standards in various industries.

ISC 120—Principles of Industrial Management I 4 0 4

The basic managerial decisions; organizational structure including plant location, building requirements, and internal factory organization; problems of factory organization and control, planning, scheduling, routing factory production, and labor control.

ISC 121—Principles of Industrial Management II 4 0 4

A continuation of Principles of Industrial Management I. Prerequisite: ISC 120.

ISC 209—Plant Layout 4 0 4

A practical study of factory planning with emphasis on the most efficient arrangements of work areas to achieve lower manufacturing costs. Layouts for small and medium-size plant, layout fundamentals, selection of production equipment and materials handling equipment. Effective management of men, money, and materials in a manufacturing operation.

ISC 211—Work Measurement 4 0 4

Principles of work simplification including administration of job methods improvement, motion study fundamentals and time study techniques, use of flow and process charts; multiple activity charts, operation charts, flow diagrams and methods of evaluation are studied.

ISC 213—Production Planning I 4 0 4

Day to day plant direction; forecasting, product planning and control, scheduling, dispatching, work loading. Routing and inventory control are studied.

ISC 214—Production Planning II 4 0 4

The primary emphasis in this unit of study will be on the following: Resource procurement and operations control; project scheduling and resource allocation, development of efficient work methods, work measurement techniques, employee motivation, and quality assurance. Prerequisite: ISC 213.

ISC 218—Plant Security 4 0 4

Survey of the organization and function of the plant security force. Items stressed include: entrance procedures, petty thievery of company owned materials, parking lot security, use of fire arms in an emergency situation, disaster preparedness, and handling of bomb scares.

ISC 220—Management Problems 4 0 4

A study of personnel and production problems from the standpoint of middle management. Includes selection and development of products, control problems and techniques, development of standards, employer-employee relations. Case studies are extensively utilized.

ISC 224—Elements of Industrial Hygiene 4 0 4

Course designed to develop understanding of broad concepts of industrial hygiene and to develop ability to recognize potentially hazardous environmental conditions. A survey of the effects of toxic agents on the body and general methods of control will be included.

ISC 243—Free Enterprise 4 0 4

An in-depth examination of the component parts of the free market, capitalism and the complex interaction of producer, consumer and government. The fundamental principles which have contributed so vitally to the economic and industrial preeminence of the United States are employed. Some of these are relying on industry keeping government in its place, and the encouragement of productivity and ingenuity by the worker.

ISC 250—Statistical Process Control 3 0 3

This course is designed to introduce the student to the fundamentals of Statistical Process Control in manufacturing management. It acquaints the student with terms, symbols, charts, math and graphics necessary to accomplish implementation of a control program using this concept. Prerequisite: MAT 117 or equivalent.

ISC 251—Intermediate Statistical Control 3 0 3

This course is designed to identify a problem and a process in industry, analyze causes, collect data, analyze data, implement corrective action and monitor process control. This is achieved through learning to use the following control charts: Run Chart, XBar Chart, R Chart, S Chart, Moving Range Chart, X Bar-R Chart, X Bar-S Chart, X Moving Range Chart, P Chart, PN Chart, C Chart, U Chart, Bar Chart, Pareto Diagram, Pie Chart, Table, Histogram (Frequency Dist), Frequency Polygon, Ogive (CDF), Scatter Diagram. Prerequisite: ISC 250.

ISC 1101—General Industrial Survey 4 0 4

This course will cover a wide variety of industrial processes, from conception to final production. It includes processes in graphics, wood industries, plastic and metal industry.

JOURNALISM**JOU 116—Journalism I 3 0 3**

A study of journalistic writing with special emphasis on collection, writing, and editing news stories; a study of freedom of the press and basic news legality. Practical application of newswriting through the development of the college newspaper.

JOU 117—Journalism II 3 0 3

A continuation of JOU 116.

MATHEMATICS**MAT 100—Basic Arithmetic Skills 4 0 4**

A review course in the principles and manipulations of arithmetic operations. Topics of study include: whole numbers, common fractions, decimals, percent, ratio and proportion. This is a developmental course which will not count for credit toward any degree, diploma or certificate program.

MAT 101—Principles of Mathematics 4 0 4

A course emphasizing applications of mathematics and geometry. Topics of study include: a brief review of the basic operations, business applications, statistics, measurement, geometry, and integers. Prerequisite: MAT 100 or equivalent.

MAT 102—Introduction to Algebra 4 0 4

An introductory course acquainting students with the basic principles of the study and application of algebra. Topics of study include: The equation, signed numbers, monomials, polynomials, graphing and set theory. Prerequisite: MAT 101 or equivalent.

MAT 106—Math for Pharmacology 3 0 3

A course designed to review the basic mathematics needed for Pharmacology. The course will also include work in the various measurement systems and conversion between the systems. The course is designed for students who are planning to enter an LPN or RN program.

MAT 118—Statistics 5 0 5

An elementary course concerning the basic concepts of probability theory and the methods of statistical inference. Topics are to include: probability, descriptive statistics, sampling, normal and binomial distributions, sampling distributions. Prerequisites: MAT 102 or high school algebra.

MAT 121—College Algebra I 3 0 3

A study of the manipulation of polynomials, rational expressions, and solutions of equations. Topics of study to include: Linear equations, inequalities, exponents, polynomials, rational expressions, powers, roots, radicals, quadratics, and logarithmic functions. Prerequisite: High School Algebra or MAT 102.

MAT 122—College Algebra II 3 0 3

A study of the solution of equations and systems of equations through advanced algebraic techniques. Outline of study includes: functions, graphing, operations with polynomials, solution of quadratics, linear equations, inequalities, matrices, determinants and exponential and logarithmic functions. Prerequisite: MAT 121.

MAT 123—Trigonometry 3 0 3

An intermediate course in the principles and applications of trigonometric functions and algebraic manipulations of trigonometric functions. Outline of study includes: trigonometric functions, solution of triangles, radian measure, trigonometric identities and inverse trigonometric functions. Prerequisite: MAT 102 or equivalent.

MAT 201—Differential Calculus 5 0 5

A course in the principles, concepts, and applications of differential calculus. Outline of study includes: limits, continuity, derivation, and application of the derivative. Prerequisite: MAT 121, 122, 123 or equivalent.

MAT 202—Integral Calculus 5 0 5

The study of the properties and applications of integral calculus with emphasis on: vectors and solid analytical geometry, partial differentiation, multiple integral and vectors and solid analytical geometry, partial differentiation, multiple integral and vector calculus. Prerequisite: MAT 201 or equivalent.

MAT 203—Calculus and Analytic Geometry 5 0 5

The study of the properties and application of the derivative with emphasis on: conic sections, transcendental function, exponential and logarithmic functions. Prerequisite: MAT 202.

MAT 206—Calculus for Business 5 0 5

A one-quarter course which is to cover both differential and integral calculus. This course will use the intuitive approach, with theory applied where necessary. A major aim will be to show application of the tools of calculus. Recommended prerequisites: MAT 121, 122, 123.

MAT 1101—Vocational Basic Arithmetic 4 0 4

A self-paced study of arithmetic skills which may be applied in the vocational areas of study. Topics of study include: whole numbers, decimals, fractions, ratios, proportions, percent and measurement.

MAT 1102—Food Service Math 4 0 4

This course focuses on the essentials of mathematics required in the food service industry. Topics covered include arithmetic operations with whole numbers, rational numbers, decimals, and percentages. Fundamental principles of business mathematics are used in practical problems of food industry.

MAT 1103—Applied Math: Geometry 4 0 4

An exploration of the fundamental properties of plane and solid geometric figures encountered in machine shop processes and other trades.

MAT 1104—Applied Math: Trigonometry 4 0 4

Trigonometric ratios; solving problems with right triangles, using tables and interpolating; solution of oblique triangles using law of sines and law of cosines; graphs of the trigonometric functions; inverse functions, trigonometric equation. All topics are applied to practical problems.

MAT 1110—Electrical Mathematics 4 0 4

A course in algebraic and trigonometric processes involved in theoretical and applied electronics. Topics of study include: factoring roots, use of calculator, electrical equations, electrical units; fractional equations, polynomials, simultaneous equations of two unknown and trigonometric functions.

MAT 1112—Construction Estimating 4 0 4

Construction Estimating is a course designed to give a student specific knowledge in estimating the various phases of a residence or small structure. Quantity takeoff will be taught. Estimating will be a major part of the course. Competency will come with many hours of practice.

MACHINE SHOP**MEC 1101—Machine Shop Theory and Practices I 2 6 4**

An introduction to the machinist trade and the potential it holds for the craftsman. Deals primarily with the identification, care and use of basic hand tools and precision measuring tools.

MEC 1102—Machine Shop Theory and Practices III 2 6 4

Advanced operations in layout tools and procedures, surface grinding, milling machines, lathe, and planer will be taught in this course. The students will also be doing projects showing proper sets and machine operation.

MEC 1103—Machine Shop Theory and Practices V 2 6 4

Advanced work on the engine lathe, turning, boring and threading machine and shaper will be dealt with in this course. The student will be introduced to basic indexing and terminology with additional processes on calculating, cutting and measuring of spur, helical, and worm gears and wheels.

MEC 1104—Machine Shop Theory and Practices VII 2 6 4

Development of class projects using previously learned procedures in planning, blueprint reading, machine operations, final assembly and inspection. Additional processes on the turret lathe, tool and cutter grinder, cylindrical and surface grinder, advanced milling machine operations, etc.

MEC 1105—Introduction to the CNC Lathe and Mill 2 2 3

The student will be oriented to the CNC lathe and mill, tooling safety and basic programming. The student will be instructed in the math and blueprint reading needed to program and operate the CNC lathe and mill.

MEC 1106—Programming the CNC Lathe 2 2 3

An advanced programming course for CNC lathe. As a continuation of MEC 1105, this course will give students advanced training in machine set-up and tooling for CNC. Students will write their own programs, choose tooling, set-up and run the lathe with their programs.

MEC 1107—Programming the CNC Mill 4 0 4

An advanced programming course for the CNC lathe. As a continuation of MEC 1105, this course will give students advanced training in machine set-up and tooling for CNC. Students will write their own programs, choose tooling, set-up and run the lathe with their programs.

MEC 1199—Automotive Machine Shop 2 6 4

This course is designed for the student to gain competency in machine shop processes related to the automotive industry. Such processes include the use of the brake drum lathe, valve grinding equipment, precision measure and use of the boring bar.

MEC 1301—Machine Shop Theory and Practices II 2 6 4

Layout procedure and processes of the power cut-off saw, band saw, drill press, milling machine, lathe, and off hand grinding will be introduced both in theory and practice.

MEC 1302—Machine Shop Theory and Practices IV 2 6 4

The student will be introduced to operations involved in cylindrical, cutter and internal cylindrical grinding. Projects will be selected encompassing proper set-ups and machine operations.

MEC 1303—Machine Shop Theory and Practices VI 2 6 4

The trainee will use precision tools and measuring instruments such as the vernier height gages, protractors, comparators, etc. Basic exercises will be given on the turret lathe and on the tool and cutter guide.

**MEC 1304—Machine Shop
Theory and
Practices VIII 2 6 4**

Special procedures and operations, processes and equipment, observing safety procedures faithfully and establishing of good work habits and attitudes acceptable to the industry.

DISTRIBUTION AND MARKETING

**MKT 101—Principles of Fashion
Merchandising 4 0 4**

This course is designed as an introduction to fashion terminology and the components of fashion. It explores the manner in which economic, sociological, and psychological factors influence fashion demand. A brief history of fashion is discussed along with the roles and responsibilities of designers, manufacturers, and retailers. Great emphasis is also placed on careers in fashion.

**MKT 102—Modeling and Social
Usage 2 2 3**

This course is designed as an introduction to the techniques and skills needed to improve one's stance, posture, carriage and body control and business manners in order that each student can better meet the requirements they will face in the business world.

**MKT 103—Fashion
Accessories 4 0 4**

Concerns itself with properties, characteristics, and construction of leathers, fur, hosiery, intimate apparel, belts, umbrellas, millinery, wigs, jewelry, and cosmetics as they affect the knowledgeable buying and selling of these products.

MKT 104—Fashion Sketching 2 0 2

To help students develop fashion sketching techniques for promotion designs which are already complete, for illustrations in magazines, newspapers, poster design, display, etc. Enables students to acquire knowledge of figure proportions.

MKT 106—Fabric Science 4 0 4

Analyzes textile fibers and the construction of fabrics, with emphasis on the properties that affect their hand, appearance, performance and end use.

**MKT 208—Fashion
Salesmanship 4 0 4**

This course will analyze the basics and nature of selling. The course will study the consumer buying habit, behavior and communications process. A thorough study of the importance of personal selling to our socioeconomic system, the way culture influences the behavior of buyers, background information for identifying prospects, and characteristics for special types of selling and the building of a sales force.

**MKT 209—Fashion Writing
and Communication 4 0 4**

Examines specific areas of fashion writing, such as: Fashion reports, press release, fashion news stories, fashion and trade magazine articles, and fashion show commentary.

**MKT 210—Fashion Advertising
and Sales
Promotion 4 0 4**

This course will serve as an introduction to sales promotion activities for all marketing levels with concentration on the specialized techniques and procedures employed to implement the activities of advertising and copywriting. It will cover the types and objectives of the different sales promotion activities used to sell fashion products and the techniques that are important to implement fashion shows, special events and publicity.

**MKT 211—Introduction to
Apparel Design 4 0 4**

This course examines the job of the designer, how the designer functions in the context of an apparel manufacturing firm, the mechanics of creation and production, and the principles and elements of design.

**MKT 212—Psychology of
Dress 4 0 4**

Examines the interrelationship between clothing and its cultural, social, psychological, physical, economic, and aesthetic implications.

**MKT 215—New York Field
Studies Seminar 1 6 3**

Four days and three nights to New York City's Garment District to offer students of design, retailing and merchandising a behind-the-scenes look at fashion industry along with new perspective on fashion careers. Institutional visits to the Metropolitan Museum's Costume Collection, other museums and the Fashion Group Headquarters. Company visits to design studios, showrooms and factories of apparel-makers, fur, lingerie and accessories, fashion publications and other establishments. Offered upon sufficient enrollment demand once every two years.

MKT 221—Menswear 4 0 4

This course concerns itself with the characteristics of the men's apparel industry. It will enable the student to acquire knowledge of figure proportions, sizing, wardrobe coordination and marketing techniques.

MKT 222 – Bridal Consulting 4 0 4

This course is designed to introduce bridal terminology and the components of the industry. It examines the role of the bridal consultant and the proper etiquette involved in producing a wedding.

MKT 232 – Sales Development 4 0 4

A study of retail, wholesale and specialty selling. Emphasis is placed upon mastering and applying the fundamentals of selling. Preparation for and execution of sales demonstration required.

MKT 239 – Marketing 4 0 4

An overall survey of the field of marketing, with detailed emphasis on marketing policies, functions and institutions involved in the marketing process.

MKT 243 – Advertising 4 0 4

The role of advertising in a free economy and its place in the media of mass communications. A study of advertising appeals; products and market research; selection of media; means of testing effectiveness of advertising. Theory and practice of writing advertising copy for various media.

MKT 245 – Retailing 4 0 4

A study of the role in retailing in the economy including development of present retail structure, functions performed, principles governing effective operation and managerial problems resulting from current economic and social trends.

MKT 249 – Introduction to Fashion Buying and Merchandising 4 0 4

This course examines the responsibilities of the buyer and career opportunities. The course deals with the various types of buying institutions and the effect they have on fashion. An introduction of the fashion cycle is explored showing the student how all parts of the industry work together.

MKT 250 – Advanced Buying 4 0 4

Concerns itself with the scientific use of numbers in merchandising, and the figures and mathematical techniques that are employed to translate fashion into the profit-making activities of planning, pricing, and controlling quantities. Included in the course of study will be extensive dealings with the six-month plan, markdowns, markups, assortment plans and other responsibilities of the actual buyer. Prerequisite: MKT 249.

MKT 260 – Visual Merchandising 4 0 4

Examines display as a visual merchandising medium, and covers the principles of display design and their applications to fashion merchandising environs.

MAINTENANCE**MNT 1133 – Mechanical Maintenance 4 0 4**

To acquaint the student with the basic fundamentals of installation, maintenance and repair of machines. Miscellaneous electrical, mechanical, hydraulic, pneumatic and lubrication devices are installed and maintained. Methods of rigging and use of precision measuring tools and checking for accuracy, squareness, and correct center line distance is stressed for pre-start inspection. Prerequisites: MEC 1101, 1102, BPR 1104, 1113. Corequisite: ELC 1112.

MUSIC**MUS 101 – Music Appreciation 3 0 3**

A basic orientation to music with emphasis on simple form and analysis, instrumentation aesthetics, masterpieces and other significant words.

NURSING – ASSOCIATE DEGREE**NUR 0100 – Nursing Role Transition 3 2 0 4**

This course is designed to facilitate the entry of the practical nurse graduate seeking advance placement into the second year (fourth quarter) of the Foothills Nursing Consortium Associate Degree program. The program's philosophy, Conceptual framework, objectives and the legal roles and responsibilities of registered nurses will be presented and practice skills will be reviewed and supplemented to equate the level of mastery of the generic student specifically in the areas of: nursing practice, nursing process, physical assessment, nursing diagnosis, nursing care planning, patient teaching, and documentation. Practice in calculating dosages and solutions of medications/fluids will also be included. A minimum grade of "C" is required for all advanced placement candidates prior to being accepted into the nursing program and must be updated every three years. Prerequisites: LPNs or PNE graduate of an approved program requesting advanced placement (on demand).

NUR 0101 – Basic Concepts of Nursing 9 6 0 12

Basic Concepts of Nursing is a foundational course which provides the opportunity for students to explore basic facts, principles and concepts related to nursing roles and functions, patient needs, nursing problems, the nursing process,

and the nurse-patient relationship. Units are included in the nurse's role in assessing and meeting patients' needs for comfort, cleanliness, rest, activity, and safety, and the needs of individuals with altered body functions. Prerequisite: Admission to Program. Corequisite: NUR 0102, NUT 0101, BIO 0107.

NUR 0103—Nursing Care of Adults I 4 2 12 9

A study of health care needs of the adult with common problems related to cellular function, sensory, urological, mobility, and oxygenation alterations, utilizing concepts of prevention, psychophysiotherapy, and nursing management. Prerequisite: NUR 0101, 0102, NUT 0101. Corequisite: BIO 0108.

NUR 0104—Nursing Care of Adults II 4 0 12 8

Health care needs of individuals with common health problems related to hematologic, ingestive, absorptive, eliminatory, metabolic regulatory, and reproductive disorders. The concepts of prevention, psychophysiotherapy, and nursing management are utilized to guide the course of study. Prerequisite: NUR 0103. Corequisite: BIO 0109.

NUR 0105—Mental Health Nursing 5 0 12 9

A study of the person experiencing altered patterns of behavior. Major focus is upon coping mechanisms, appropriate nursing intervention, psychotherapeutic modalities, communication skills, and the formation of therapeutic relationships. The concepts of Maslow's Hierarchy of Needs and the nursing process are utilized. Prerequisite: NUR 0105, PSY 0208. Corequisite: none.

NUR 0201—Nursing Care of the Childbearing Family 5 0 12 9

A study of the roles of the associate degree nurse in the health care of the mother, infant, and family during the normal and high-risk childbearing cycle using the nursing process and a human needs theory as guides. (½ quarter). Prerequisite: NUR 0105, SOC 0101. Corequisite: none.

NUR 0202—Nursing Care of Children 5 0 12 9

A study of the health care of children utilizing a human needs theory, the nursing process, the nursing roles, and principles of growth and development. Both health maintenance and care of the ill child are emphasized. Consideration is given to the child within his/her family unit. (½ quarter). Prerequisite: NUR 0105, SOC 0101. Corequisite: none.

NUR 0203—Nursing Care of Older Adults 4 0 12 8

The course provides the student an opportunity to utilize the nursing process in meeting the needs of the older adult in the acute care, long-term care, and the community settings. Special emphasis will be placed on the aging process as it applies to the body systems and development changes. Content will include pathological alterations commonly occurring in the older adult. Planned learning experiences will be designed to give the student contact with the older adult in a variety of situations. Prerequisite: NUR 0202. Corequisite: none.

NUR 0204—Nursing Care of the Adult III 5 0 15 10

Health care needs of the adult experiencing health problems which accompany serious or critical illness. Provides the learner with the opportunity for implementation of the nursing process in complex nursing situations. In addition, emphasis is placed upon integration of concepts, skills, and responsibilities designed to aid in the transition from nursing student to registered nurse. Understanding of the ADN roles are enhanced through a comprehensive clinical practicum in a variety of structured settings. Prerequisite: All NUR courses. Corequisite: NUR 0205.

NUR 0205—Nursing Perspectives and Issues 3 0 0 3

Major trends and issues impacting the profession of nursing. Selected events, organizations, legal and ethical aspects, opportunities, and responsibilities related to the practice of nursing are addressed. The role and functions of the associate degree nurse within the scope of nursing practice and the health care system are considered. Maslow's Hierarchy of Needs provides a framework for focusing on the student, client, and society. Prerequisite: NUR 0203. Corequisite: NUR 0204.

NURSING — PRACTICAL NURSE EDUCATION

NUR 1101—Fundamentals of Nursing 9 4 0 11

This course is a presentation of nursing knowledge and skills necessary to meet the basic needs of patients. Areas of study include ethical and legal responsibilities; communication; and assessing, recording, and reporting pertinent patient information. Implementation of basic nursing skills are demonstrated and practiced in the nursing laboratory. Corequisites: BIO 107, NUT 101.

NUR 1115—Medical-Surgical Nursing I 6 0 0 6

This course is an introduction to common adult health problems with emphasis on understanding the nursing care of patients with infections, cancer, long-term illness, terminal illness, and respiratory problems. Basic concepts in health promotion, illness processes, diagnostic procedures, therapy, and rehabilitation are explored in terms of nursing intervention, assessment, and evaluation. Prerequisites: NUR 1101, BIO 107, NUT 101. Corequisites: NUR 1112, PHM 1104, BIO 108.

NUR 1106—Medical-Surgical Nursing II 5 0 0 5

This course is a study of the nursing assessment, intervention, and evaluation in the care of patients with surgical conditions; and disorders affecting the circulatory, gastrointestinal urinary, and endocrine systems. Prerequisite: NUR 1115. Corequisite: NUR 1113.

NUR 1107—Medical-Surgical Nursing III 5 0 0 5

This course is a study of the nursing assessment, intervention, and evaluation in the care of patients with problems affecting sexuality, mobility, neurological function, vision, hearing, skin integrity, and the immune response. Prerequisite: NUR 1106. Corequisite: NUR 1114.

NUR 1108—Obstetrical Nursing 5 0 0 5

This course is an introduction to the needs of the mother during normal pregnancy, labor, delivery, and postpartum states. It includes a study of the needs of the newborn and an introduction to common complications of the obstetrical patient. Prerequisites: NUR 1112, NUR 1115. Corequisites: PHM 1104, NUR 1113.

NUR 1109—Pediatric Nursing 6 0 0 6

This course is a study of the well child, adaptation of nursing skills to various levels of development and maturation, and the nursing management of children with common pediatric illnesses. Prerequisite: PHM 1111. Corequisite: NUR 1114.

NUR 1110—Vocational Adjustments 1 0 0 1

This course is designed to help the student make the adjustment from the role of a student to that of a graduate practical nurse. It involves a study of ethical and legal aspects, provisions of the Nurse Practice Act, employment and continuing education relevant to the graduate practical nurse. Prerequisite: NUR 1113. Corequisite: NUR 1114.

NUR 1112—Clinical I 0 0 18 6

Beginning clinical experience in the care of adult medical patients with clinical activities planned in assessing basic needs, planning nursing care, and implementation of basic nursing skills. Prerequisites: NUR 1101, BIO 107, NUT 101, PSY 101, ENG 101. Corequisites: NUR 1115, PHM 1104, BIO 108.

NUR 1113—Clinical II 0 0 18 6

Clinical experience in the assessment of nursing needs, planning, implementation, and evaluation of nursing care for the adult surgical patient, the obstetrical patient, and the newborn infant. Prerequisites: PHM 1104, NUR 1115, NUR 1112. Corequisites: NUR 1106, NUR 1108, NUR 1111.

NUR 1114—Clinical III 0 0 18 6

Clinical experience in the assessment of nursing needs, implementation and evaluation of nursing care for adult surgical and pediatric patients. Prerequisites: PHM 1111, NUR 1106. Corequisites: NUR 1107, NUR 1109

NUTRITION**NUT 101—Nutrition and Diet Therapy 3 0 3**

This course focuses on the nutritional requirements of growth and the contribution to good health by proper nutrition. The harmful effects of inadequate diet are discussed. Fundamentals of normal nutrition are used to introduce the student to diet changes, made necessary by illness. The principles of meal planning and the selection, preparation, and storage of foods are included.

SECRETARIAL**OSC 102—Keyboarding/Typewriting 2 2 3**

Introduction to the touch typewriting system with emphasis on current techniques, mastery of the keyboard, simple business correspondence and tabulation.

OSC 103—Document Formatting 2 2 3

Instruction emphasizes the development of speed and accuracy with further mastery of correct typewriting techniques. These skills and techniques are applied in tabulation, manuscript, correspondence and business forms. Prerequisite: OSC 102 or equivalent.

**OSC 104—Document
Production/Word
Processing 2 2 3**

Emphasis on production typing problems and speed building. Attention to the development of the student's ability to function as an expert typist, producing mailable copies. The production units are tabulation, manuscript, correspondence, and business forms. Prerequisite: OSC 102 or equivalent.

OSC 106—Shorthand I 2 2 3

A beginning course in the theory and practice of reading and writing shorthand. Emphasis on phonetics, penmanship, word families, brief forms and phrases.

OSC 107—Shorthand II 2 2 3

Continued study of theory with greater emphasis on dictation and elementary transcription. Prerequisite: OSC 106 or equivalent.

OSC 108—Shorthand III 2 2 3

Theory and speed building. Introduction to office style dictation. Emphasis on development of speed in dictation and accuracy in transcription. Prerequisite: OSC 107.

**OSC 112—Records
Management 2 2 3**

Fundamentals of indexing and filing, combining theory and practice by the use of miniature letters, filing boxes and guides. Methods covered are Alphabetic, Numeric, Geographic, Subject, Soundrex and Chronological filing.

**OSC 183M—Medical Terminology
and Vocabulary I 4 0 4**

This course teaches the student the mechanics of understanding medical words—their roots, prefixes and suffixes. Students learn to spell, pronounce and define medical terms that may be encountered by a medical secretary.

**OSC 201—Machine Dictation
and Transcription 2 2 3**

Objectives of this course are to develop skill in using various transcription machines and to transcribe correctly at the typewriter. The student will gain a knowledge of many kinds of business correspondence, increase business vocabulary and develop an understanding of secretarial procedures.

**OSC 202M—Medical Dictation and
Transcription I 2 2 3**

This course prepares the student to become a skilled medical transcriptionist using a typewriter, transcribing unit and pre-recorded cassettes and belts. Material covered includes case studies, physical examinations, operation records, medical correspondence, and x-ray or pathological reports, etc. Prerequisites: OSC 183M, OSC 205.

**OSC 203M—Medical Dictation and
Transcription II 2 2 3**

This course is a continuation of OSC 202M. The student continues to build skill and speed in transcribing various medical records at the typewriter. Upon successful completion of course requirements the student will receive the AMRA certificate. Prerequisite: OSC 202M.

**OSC 205—Advanced Word
Processing
Application I 2 2 3**

Emphasis is placed on the development of individual production rates. The student learns the techniques needed in planning and in typing projects that closely approximate the work appropriate to the field of study. These projects include review of letter forms, statistical tabulation, and the typing of reports, manuscripts and legal documents. Prerequisite: OSC 104.

**OSC 206E—Dictation and
Transcription I 2 2 3**

Develops the skills of taking dictation and transcription at the typewriter, materials appropriate to the course of study, which includes a review of theory and dictation of familiar and unfamiliar material at varying rates of speed. Prerequisite: OSC 108.

**OSC 207E—Dictation and
Transcription II 2 2 3**

Covering materials appropriate to meet the course of study, the student develops the accuracy, speed and vocabulary to meet the stenographic requirements of business and professional offices. Prerequisite: OSC 207E.

**BUS 208E—Dictation and
Transcription III 2 2 3**

Principally, a speed building course covering materials appropriate to the course of study, with emphasis on building transcription speed and the producing of mailable copies. Prerequisite: BUS 207E.

**OSC 210—Advanced Word
Processing
Applications II 2 2 3**

A course designed to familiarize the student with the correct typing of business correspondence. Emphasis is placed upon correct procedures and adaptability of varying office methods. Prerequisite: OSC 205.

OSC 211—Office Machines 0 2 1

This course is designed to teach the student the correct procedures to follow in preparing, copying and duplicating masters. In addition, the student learns to operate various types of copying and duplicating equipment. Prerequisite: OSC 104.

OSC 214—Administrative Office Procedures 2 2 3

Designed to acquaint the student with the responsibilities encountered by a secretary during a work day. Among these are the following: receptionist duties, handling mail, telephone techniques, telegrams, office records, travel information, purchasing of supplies, office organization and insurance claims. Prerequisite: OSC 104.

OSC 216—Medical Secretarial Procedures 2 2 3

This course introduces the medical secretary to the activities, responsibilities, skills and work habits encountered in the professional office. Some of these are meeting and handling patients, processing medical records and forms, managing the office and assisting the doctor. Suggested prerequisite: OSC 104.

OSC 248—Medical Insurance 2 2 3

This course is designed to provide medical office personnel with a basic understanding of medical insurance, terminology, types of health insurance available and claims processing for the medical secretary.

OSC 284M—Medical Terminology and Vocabulary II 4 0 4

This course emphasizes a more detailed and comprehensive study of medical terms. The student's ability to spell, define and pronounce medical words is enhanced while studying basic anatomical terminology. Suggested prerequisite: OSC 183M.

PHYSICAL EDUCATION**PED 101—Physical Conditioning I 0 2 1**

A course designed to teach the student basic conditioning techniques with an overall objective of the physical fitness.

PED 102—Softball 0 2 1

A course designed to teach the basic fundamental skills of softball. Emphasis is placed on conditioning, rules and skills.

PED 103—Tumbling 0 2 1

The fundamentals of rolls, cartwheels, and pyramids are taught using the springboard and mats. Major emphasis of the course is to learn how to fall without injury. Group stunts are also covered.

PED 104—Basketball 0 2 1

This course introduces the student to various rules, skills, and fundamental techniques of basketball.

PED 105—Weight Training 0 2 1

Introduction to the proper skills in the execution of the various lifts and instruction in the health and safety factors that are related to the development of an individualized weight training program.

PED 107—Low Impact Aerobics 0 2 1

A course designed to improve muscular strength, muscular and cardiovascular endurance, flexibility and body composition through the use of low impact aerobics routines.

PED 108—Tennis I 0 2 1

A course designed to develop a higher level of neuromuscular skill, coordination, balance, endurance and tennis strategy.

PED 109—Modern Dance 0 2 1

A course designed to develop and improve fundamental skills in dance movements and techniques and to encourage appreciation of dance as an art form and medium of education.

PED 110—Volleyball 0 2 1

A course designed to include the fundamental skills, history, rules, and strategy of the game with special emphasis on carry-over value of activity.

PED 111—Golf 0 2 1

A course designed to teach the student the rules, regulations, etiquette and fundamental skills of beginning golf.

PED 112—Physical Conditioning by Circuit Training 0 2 1

A second course in physical conditioning designed to provide the student with advanced participation in physical conditioning and circuit training. The student also develops a personal physical maintenance program. Prerequisite: PED 101.

PED 113—Tennis II 0 2 1

A course designed to teach strategy and execution of successful skills used in a tennis match. Emphasis is placed on execution of forehand, backhand, serve, volley, and double plays and strategy. Prerequisite: PED 108.

PED 114—Physical Fitness 0 2 1

In this course students are taught aerobic exercises, composed of light to vigorous choreographed movements, designed to improve and maintain cardiovascular endurance. A major goal of the class is to lower the resting heart rate of all students.

PED 115—Self Defense 0 2 1

This course is designed to help students learn and understand basic self defense techniques. Philosophies and attitudes regarding personal security are disclosed.

PED 116—Personal and Community Health 3 0 3

This course, a basic study of personal and community health, includes topics such as proper health habits and attitudes, diet, drugs, and health service agencies.

PHILOSOPHY**PHI 101—Introduction to Philosophy 3 0 3**

A survey course of the major philosophical writings from ancient to modern times, with special emphasis on the philosophical concepts including naturalism, idealism, systematic philosophy, realism, British empiricism, and existentialism. Representative thinkers include Plato, Decartes, Berkeley, Kant, Aristotle, St. Augustine, Hegel, Bacon, Kirkegaard, Sartre, and Camus.

PHARMACOLOGY**PHM 0102—Pharmacological Concepts in Nursing 3 0 0 3**

A study of principles and skills utilized in the computation and administration of medications. Major classifications of drugs are introduced as a basic continued study of pharmacology. The course emphasizes the nursing roles of provider of care, and client/patient teacher. Pharmacological agents are considered as a means of promoting health and treating illness in individuals throughout the life span. The nursing process is presented as a means of assessing and providing for optimum safety, and legal implications. (Lab time is shared with NUR 1010). Prerequisite: Admission to Program. Corequisite: NUR 0101.

PHM 1104—Basic Pharmacology 3 0 0 3

This course is an introduction to drug therapy. A foundation of general knowledge in sources of drugs, legal control of drugs, computing dosages, classification and action of common drugs, and safety factors the nurse must use in administering drugs. Prerequisite: NUR 1101. Corequisites: NUR 1112, NUR 1115.

PHM 1111—Pharmacology II 2 2 0 3

This is a continuation of basic pharmacology with emphasis on the nurse's responsibilities in administration of intradermal, subcutaneous, and intramuscular injections. It includes basic knowledge and skills in peripheral venous access, administration of therapeutic agents via bolus and continuous infusion and monitoring patients response to therapeutic agents. Prerequisite: PHM 1104. Corequisite: NUR 1113.

PHOTOGRAPHY**PHO 101—Fundamentals of Photography 2 2 3**

An introduction to the field of photography, photographic equipment and materials. A study of the fundamental techniques of the camera and its expressive possibilities in relation to the field of design and visual communications. Assigned camera projects, darkroom procedures and equipment.

PHO 102—Intermediate Photography 2 2 3

A continuation of PHO 101.

PHO 119—View Camera and Zone System 2 2 3

A comprehensive study of the capabilities of the view camera, including: tilts, swings, shifts, plane of focus, depth of field and shape modifications. Perspective control as it pertains to architectural photography will be principle focus. A thorough study of the zone system from Ansel Adams to Phil Davis, from guesstimation to exactitude will be taught. The use of computer technology in exposure and development control will be introduced, as well as sheet film handling and processing. Prerequisites: PHO 101 and PHO 102.

PHO 201—Introduction to Color Printing 2 2 3

Introduction to Color Printing is a continuation of the learning experience begun in Fundamentals of Photography and Intermediate Photography. (These courses will not be prerequisites to Introduction to Color Printing.) Many aspects and techniques involved with photographing in color beyond those normally encountered in black and white photography will be covered in detail. The processing and printing in color images from color negatives and color slides will give each student a thorough working knowledge of new lab procedures and color printing techniques.

PHO 202—Color Printing II 2 2 3

A continuation of PHO 201 with emphasis on production of large color prints up to 20" x 24". Use of various electronic color analyzers to determine color balance and exposure. Emphasis on craftsmanship. Prerequisites: PHO 101 and PHO 201.

PHYSICS**PHY 107—General Physics 4 0 0 4**

This course is designed to take the student from basic fundamentals through advanced physics covering such areas as: structure of matter; electric current; electrostatics, units of measurement; electrodynamics; magnetism and electromagnetism, electric generators and motors.

PHY 108—Radiation Physics 3 2 0 4

The production and control of high voltage and rectification; x-ray tubes and rectifiers and an introduction to therapy and nuclear medicine. Prerequisite: PHY 107.

PHY 201—Physics I 3 2 4

The first quarter of college physics; mechanics (with emphasis on measurement); vectors and scalars; force systems, translational and rotational motion; work and energy; hydraulics. Prerequisite: MAT 102.

PHY 202—Physics II 3 2 4

The second quarter of college physics; kinetic theory of matter, heat, thermodynamics, wave motion and sound, and the properties of light. Prerequisite: PHY 201.

PHY 203—Physics III 3 2 4

The third quarter of college physics; electricity and magnetism—static electricity, potential, Ohm's law, parallel and series circuits, Kirchoff's Laws, magnets, induced electromotive force, motors and generators. Also modern physics: relativity; Bohr atom, x-ray and gamma rays, and atomic structure, Prerequisite: PHY 202.

PHY 1101—Applied Physics 4 0 4

An introduction to physical principle and their application in industry. Topics in this course include measurements, properties of solids, liquids, gases and basic electrical principles.

PLUMBING**PLU 1110—Plumbing
Pipework 4 12 8**

This course will introduce students to the tools, fittings, and small equipment used by plumbers. Most of the time will be spent in the shop, where the student can learn how to handle these materials correctly. The student will perform operations such as threading, cutting, caulking, and sweating of the various kinds of pipe and tubing used in the trade.

**PLU 1111—Domestic Water
Systems 4 9 7**

The installation of water distribution systems, beginning with the source of supply and including the location of pipes, valves and pumps in both single-story and multi-story buildings will be studied. Heating devices and drainage systems, including their ventilation, are part of this course. Field trips will be taken to study various types of installations.

**PLU 1112—Installation of
Plumbing Fixtures 2 6 4**

The difference in materials and styles of lavatories, bathtubs and sinks, and the many ways that these fixtures can be installed will form the basis of this course. The proper use of traps is included. The student will get actual practice by making installations.

**PLU 1120—Low Pressure
Steam Systems 2 6 4**

The student will become acquainted with types of low pressure steam boilers, the principles of boiler operation. Boiler accessories such as connectors, fittings, and insulation are to be included. Low pressure steam systems, their layout, and component parts will be studied and installed. Equipment used in heat transmission, such as radiators, coils and connectors will be included.

**PLU 1123—Hot Water and
Panel Heating 3 6 5**

The piping and accessory equipment needed to transfer hot water to radiators, heaters, and coils, and the advantages and disadvantages of each of these units will be studied, including apparatus for radiant heating and panel heating. Methods of "sizing" equipment for various installations will be included. Practical application will be provided in installing this equipment.

PLU 1125—Industrial Piping 3 9 6

Piping systems of boilers, turbines, and steam engines especially as they are used in steam power plants and process piping such as in the chemical industries will be major emphasis of this course.

**PLU 1126—Hydraulic Systems
Plumbing 3 3 4**

Plumbing application in hydraulic systems. Hydraulic principles, circuits, control valves, actuators, pumps, fluids and various accessories that complete hydraulic systems will be studied. Installation and servicing methods of these systems will be undertaken.

**PLU 1128—North Carolina
Plumbing Code 4 0 4**

A study of the North Carolina plumbing code, in preparation for the licensing examination. Instruction will include the latest code revisions, safety measures and standard practices in the plumbing of single and multi-family dwellings, commercial establishments and industrial locations.

POLITICAL SCIENCE**POL 102—Government-
National 3 0 3**

English and Colonial background, the Articles of Confederation and the framing of the Federal constitution will be discussed. The nature of the Federal Union, Federal powers, and political parties will be studied, as will the general organization and functions of the national government.

**POL 103—Government-State
and Local 3 0 3**

A study of the state government, state-federal inter-relationships, the functions and prerogatives of the branches will be made. Problems of administration, legal procedures, law enforcement, police power, revenues and appropriations, with special attention to North Carolina will be discussed.

**POL 204—Great Decisions—Foreign
Policy 3 0 3**

A discussion of key foreign policy issues faced by the United States and its citizens in the current year.

**POL 205—The U.S.
Constitution 1 0 1**

The U.S. Constitution will be studied and discussed. In addition, the role of the U.S. Supreme Court will be analyzed.

PSYCHOLOGY**PSY 101—Introduction to
Psychology 3 0 3**

A survey of major psychological theories (behavioral, cognitive, psychoanalytic, and humanistic) including the developmental process, motivation, emotion, frustration and adjustment, attention and perception, and problems of group living. Attention is given to application of these topics, to problems of study, self-understanding, and adjustment to demands of society.

**PSY 103—Adolescent
Psychology 3 0 3**

A study of the nature and source of the problems of adolescents in western culture; physical, emotional, social, intellectual, and personality development of adolescents.

**PSY 201—Abnormal
Psychology 3 0 3**

Abnormal psychology studied in the context of modern life: Case studies, differential diagnosis, psychological dynamics of abnormal behavior, including theoretical, clinical and experimental contributions in the field. Prerequisite: PSY 101.

PSY 202—Group Processes 3 0 3

A study of dynamics and leadership roles utilizing group experimentations. Applicability to other settings is also explored.

**PSY 208—Human Growth
and Development 3 0 3**

A developmental approach in examining processes of growth physically, intellectually, psychologically, and socially. Covers infancy, adolescence, adulthood, and aging.

**PSY 209—Living With Ten-to-Fifteen
Year Olds 3 0 3**

The study of the processes of development for a specific age group, such as adolescence. (Only one age grouping will be covered each time the course is taught and will depend upon interest.)

PSY 210—Child Psychology 3 0 3

A study of the child from conception through pre-adolescence. Social, intellectual, emotional and personality development are emphasized.

**PSY 238—Dynamics of
Group Encounter 3 0 3**

A close in-depth study of sensitivity training. Student participation will enhance this course in actual group situations. Explorations of group behavior of others and role playing techniques of individuals is analyzed along with the dynamics of group relations and interrelations.

**PSY 240—Motivating the
Individual 3 0 3**

This course introduces the student to the principles that are considered the basis for self-confidence, for goal achievement and success in the competitive career world, for recognition and personal achievement, and for successful living.

PSY 1101—Human Relations 4 0 4

A study of basic principles of human behavior. The problems of the individual are studied in relation to society, group membership, and relationship within the work situation.

RADIOGRAPHY**RAD 101 – Positioning I 3 2 0 4**

This course will cover basic radiographic positions for the upper and lower extremities. Basic radiographic terminology will be taught.

RAD 102 – Principles of Radiographic Technique I 3 2 0 4

The student will be taught the fundamental principles of radiographic exposure. This course will include all technical information of proper contrast and technical selections needed for radiography conversion of techniques, evaluation of technical quality, and technical changes necessary to improve quality.

RAD 103 – Processing Technique 2 2 0 3

This course will deal with automatic processing and film critique for darkroom application, the chemical uses, their purpose in processing and methods of quality control.

RAD 104 – Radiographic Anatomy 4 0 4

A study of the anatomy of the nine systems of the body with special emphasis on the skeletal system.

RAD 105 – Critique I 1 0 0 1

Evaluation of repeated radiographs and high quality radiographs to instruct students in prevention of technical and positioning errors and how to attain quality radiographs. Special emphasis will be placed on positions taught in Positioning I.

RAD 106 – Clinical I 0 0 15 5

Practical experience in a clinical setting. This experience will include practice in ethical and attitudinal situations during patient contact, patient care and basic positioning for radiologic studies of the chest, upper and lower limbs, and the abdomen. The student will process radiographs and apply basic principles in radiographic exposure. Departmental professional procedures will be initiated into the student's clinical routine.

RAD 110 – Introduction to Radiologic Technology 1 0 0 1

An introduction to the field of radiology with an overall view of Radiologic Technology and the part radiology plays in medicine. The student will become completely acquainted with the ethics and basic radiation protection and will be acquainted with the administrative structure of the hospital and departmental functions. Basic patient care is also presented.

RAD 111 – Positioning II 3 2 0 4

This course will cover basic radiographic positions of the spine and skull. Prerequisite: RAD 101.

RAD 113 – Critique II 1 0 0 1

A continuation of Critique I with special emphasis on positions taught in Positioning II.

RAD 114 – Clinical II 0 0 15 5

The student will apply, in the hospital, what they have learned in class. All students will be under the supervision of an instructor or a registered technologist.

RAD 121 – Positioning III 3 2 0 4

This course will cover basic radiographic positions of examinations using contrast media and advanced skull positioning. Prerequisite: RAD 111.

RAD 123 – Critique III 1 0 0 1

A continuation of Critique II with special emphasis on positions taught in Positioning III.

RAD 124 – Clinical III 0 0 24 8

Three days of practicum in the hospital to apply all the didactical knowledge acquired in the two previous quarters.

RAD 131 – Positioning IV 4 0 0 4

The final study of radiographic positioning including nonroutine positions and pediatric radiology.

RAD 134 – Clinical IV 0 0 24 8

Intensified practicum in the hospital to apply all the didactical knowledge the student has acquired in the past year.

RAD 141 – Special Procedures I 2 0 0 2

Detailed studies of special procedures, the related pathology and anatomy demonstrated and the contrast media used.

RAD 201 – Radiologic Protection 4 0 0 4

This course deals with the effects of radiation on the body, ways of patient and personal protection and governmental regulations.

RAD 203 – Clinical V 0 0 24 8

Continuation of practicum with emphasis on finer details of improvements to attain a high quality in practicum.

RAD 212 – Clinical VI 0 0 24 8

Practicum with emphasis on special procedures and examinations not commonly performed on a routine basis.

RAD 222 – Principles of Radiographic Technique II 2 2 0 3

Advanced formulation of techniques for all phases of radiography. Experimentation on various technical procedures with written reports to coordinate results of experiments. Prerequisite: RAD 201.

RAD 223—Clinical VII 0 0 24 8
Detailed practicum preparing for graduation.

RAD 233—Clinical VIII 0 0 36 12
Practicum within the hospital with oral and practical examination. General evaluation of the student's practicum capabilities will be summarized.

RAD 245—Seminar I 1 0 0 1
A general course that will prepare the student for national certification.

RAD 246—Seminar II 2 0 0 2
A continuation of RAD 245. Students will become certified in CPR.

READING

RED 100—Basic Reading Skills 3 0 3
A course designed to improve the student's basic reading skills. Content includes reading comprehension, vocabulary, word attack skills and word recognition skills. This is a developmental course which will not count for credit toward any degree, diploma or certificate program.

RED 104—Reading Dynamics 3 0 3
An aid to improve the student's ability to read rapidly and accurately. Special emphasis on comprehensive, vocabulary, critical and analytical reading skills, and the study of reading materials related to the student's curriculum.

RED 1101—Reading Improvement 4 0 4
Designed to improve overall efficiency with special emphasis on purpose, comprehension, word recognition skills, and the study of reading material related to the student's curriculum.

RELIGION

REL 101—Major World Religions 3 0 3
A comparative religion course examining six major religions: Hinduism, Buddhism, Zoroastrianism, Islam, Judaism, and Christianity.

REL 102—Old Testament Survey 3 0 3
A survey of the history, literature, personalities and religion of the Old Testament.

REL 103—New Testament Survey 3 0 3
A general survey of the New Testament literature including the Hellenistic background, the life and teaching of Jesus, the growth and faith of the church, the letters of Paul and other writings.

REAL ESTATE

RLS 162—Fundamentals of Real Estate 6 0 6

This course consists of instruction in fundamental real estate principles and practices, including real estate law, financing, brokerage, closing, valuation, management, taxation and mathematics. Also included is instruction on residential building, construction, land use, the real estate market and the North Carolina Real Estate Commission. Upon completion of this course, the student will have met the educational requirements of the North Carolina Real Estate Licensing Board for admission to the real estate broker licensing examination. The primary objectives of this course are (1) to provide students with the basic knowledge and skills necessary for entry-level estate salesmen and (2) to prepare students for the real estate salesman licensing examination.

RLS 164—Real Estate Law 3 0 3
This course consists of advanced-level instruction in real property ownership and interests, transfer of title to real property, land use controls, real estate brokerage and law of agency, real estate contracts, landlord and tenant law, mortgages/deeds of trust, property insurance, federal income taxation of real estate, the N.C. Real Estate Licensing Law, Rules/Regulations of the N.C. Real Estate Licensing Board, and the Licensing Board's "Trust Account Guideline." Prerequisite: RLS 162 or possession of a current salesman's license.

RLS 209—Real Estate Finance 3 0 3

This course consists of advanced-level instruction on the major aspects of financing real estate transaction, including sources of mortgage funds, the secondary mortgage market, financing instruments, types of mortgage loans, underwriting mortgage loans, consumer legislation affecting real estate financing, real property valuation, closing real estate sales, transactions and finance mathematics. Prerequisite: RLS 162.

RLS 234—Real Estate Sales and Brokerage 3 0 3

This course consists of basic instruction in the various aspects of real estate brokerage operations including establishing a brokerage firm, management concepts and practices, personnel and training, marketing operations, records and bookkeeping systems (including trust account bookkeeping), and financial operations. Prerequisite: RLS 162 or possession of a current salesman's license.

RADIO, TELEVISION**RTV 100—Introduction to Television and Cable Production** 3 2 4

An introduction to creative techniques, materials, and equipment involved in television taping. Pre-production, production, and post-production principles and methods are designed for beginning and intermediate students to improve their use of home and professional systems.

RTV 101—Advanced Television and Cable Production 3 2 4

A continuation of RTV 100; use of studio equipment for titling and effects; special projects on television production.

RTV 102—Introduction to Audio-Visual Equipment and Basic Production 2 2 3

A study of the operation of projection equipment, tape recorders, record players and synchronization equipment.

RTV 103—Media Writing 3 2 4

The study and production of the various formats for effective writing for radio, television, and film.

RTV 104—Introduction to Mass Communication 3 0 3

History and review of media development and means of informing and influencing public views.

RTV 118—Basic Film Technology 2 2 3

A study of basic film techniques including camera use, lighting, exposure, editing, emphasis on distinction between film and video; animation; projects in "Super-8mm."

RTV 200—Media Production I 3 2 4

Planning, scripting, and developing sequences for transparencies, audiotapes, displays, videotapes, films, titling, audio mixing, displaying materials. Prerequisite: RTV 102.

RTV 201—Media Production Lab Project 0 10 5

Student will work in cooperation with the photography and the audio-visual services department in the production of instructional and institutional media.

RTV 205—Equipment Repair 2 2 3

This course is designed to help the student understand the mechanical and electrical operations of projection equipment, tape recorders, record players, cable and television equipment, etc. Emphasis will be on locating, troubleshooting, and repairing equipment.

RTV 206—Lighting and Sound 2 2 3

A study of the use of lighting for stage, film, and video; a study of studio sound problems, microphone types, and use of audio mixers.

RTV 207—Video Graphics 3 2 4

A study of and creation of computer-generated television images, from titling to animation.

RTV 208—Law and Ethics 3 0 3

A review of the legal and moral principles that have influenced and continue to influence conduct in media communication.

SAFETY**SAF 106—First Aid and Safety** 3 0 3

Students taking this course should acquire a better understanding of first aid and emergency care products.

SOCIOLOGY**SOC 101—Introduction to Sociology** 3 0 3

An introductory course in the principles of sociology, culture, personality development, social class, and social control. Presents the scientific study of man's behavior in relation to other men, the general laws affecting the organization of such relationships, and the effects of social life on human personality and behavior.

SOC 202—Marriage and Family 3 0 3

A course designed to provide understanding of family relationships; a functional approach to the interpersonal relationships of courtship, marriage, and family life.

SOC 203—Contemporary Issues 3 0 3

A culminating interdisciplinary course dealing with basic economic, social, scientific and moral issues confronting human society.

SOC 208—Black Studies 3 0 3

This course is designed to provide opportunities for students to review, discuss and evaluate the experience of Black Americans through the use of films, filmstrips, records and tapes as well as selected readings from autobiographies and biographies of distinguished Black Americans, historical records and documents, and outstanding works of literature and art. Resource people in the community are used whenever possible.

SPANISH**SPA 160—Fundamentals of Spanish I 3 2 4**

This is a program of study designed to teach understanding, speaking, reading, and writing of Spanish and to grant an awareness of Spain and its people.

SPA 161—Fundamentals of Spanish II 3 2 4

A continuation of Fundamentals of Spanish I. Prerequisite: SPA 101.

SPA 162—Fundamentals of Spanish III 3 2 4

A continuation of Fundamentals of Spanish II. Prerequisites: SPA 101, 102.

SPA 260—Intermediate Spanish I 3 2 4

In this course of study, the fundamentals of Spanish are used in the background for a basic study of culture, civilization and literature of Spain with further development of language skills. Prerequisite: Fundamentals of Spanish I, II, III or two years of high school Spanish.

SPA 261—Intermediate Spanish II 3 2 4

A continuation of Intermediate Spanish I. Prerequisite: SPA 202.

SPA 262—Intermediate Spanish III 3 2 4

A continuation of Intermediate Spanish II. Prerequisites: SPA 201, 202.

SPEECH**SPH 204—Fundamentals of Speech 3 0 3**

A study of basic concepts and principles of oral communication to enable the student to communicate with others. Emphasis on the speaker's attitude, improving diction, voice and the application of techniques to correct speaking errors and improve oral presentations.

WELDING**WLD 1101—Basic Gas Welding 1 3 2**

Welding demonstrations by the instructor and practice by the students in the welding shop. Safe and correct methods of assembly and operating the welding equipment. Practice will be given for surface welding; bronze welding, silver soldering, and flame cutting methods applicable to mechanical repair work.

WLD 1105—Auto Body Welding 1 3 2

Welding practices on material applicable to the installation of body panels and repairs to doors, fenders, hoods and deck lids. Student runs beads, does butt and fillet welding. Performs tests to detect strength and weaknesses of welded joints. Safety procedures are emphasized throughout the course.

WLD 1120—Oxyacetylene Welding I 2 6 4

This course is designed to acquaint the student with the safety rules of welding, identification, set-up and operation of oxyacetylene welding equipment. The student will be able to carry a puddle without filler rods, weld in the vertical, horizontal and overhead positions, weld heavy steel plates, identify, weld and braze cast iron, and operate a cutting torch efficiently. The student will be introduced to welding symbols and metallurgy as it relates to oxyacetylene welding.

WLD 1121—Arc Welding I 2 6 4

The student will learn the safety rules of welding, understanding the operation and use of the arc welding machine, identify and know the importance of personal protective equipment, identify welding tools and types of electrodes, strike an arc and run a bend, and bond two pieces of metal together. The student will be introduced to welding symbols and metallurgy as it applies to arc welding. The student will also become acquainted with blueprints and how they relate to arc welding.

WLD 1122—Commercial and Industrial Practices I 2 6 4

This course is designed to instruct the student in the proper procedure for repairing broken equipment, to fabricate and build parts from new stock. The student will learn the inert gas welding process, practice and become proficient in flat-plate welding and also become familiar with the welding codes, specifications, and certification of the American Welding Society.

WLD 1124—Pipe Welding I 2 6 4

This course is designed to give the student knowledge in the operation of pipe welding equipment and accessories, specific welding operations, preparing a welding joint, welding in specified positions, obtaining knowledge of designing and fabrication of pipe and duct ways. The student will be introduced to welding symbols and metallurgy as it applies to pipe welding.

**WLD 1320—Oxyacetylene
Welding II** 3 9 6

A continuation of WLD 1120.

WLD 1321—Arc Welding II 3 9 6

A continuation of WLD 1121.

**WLD 1322—Commercial and
Industrial
Practices II** 3 9 6

A continuation of WLD 1122.

WLD 1324—Pipe Welding II 3 9 6

A continuation of WLD 1124.

**WLD 1330—Machine Shop
Welding** 1 3 2

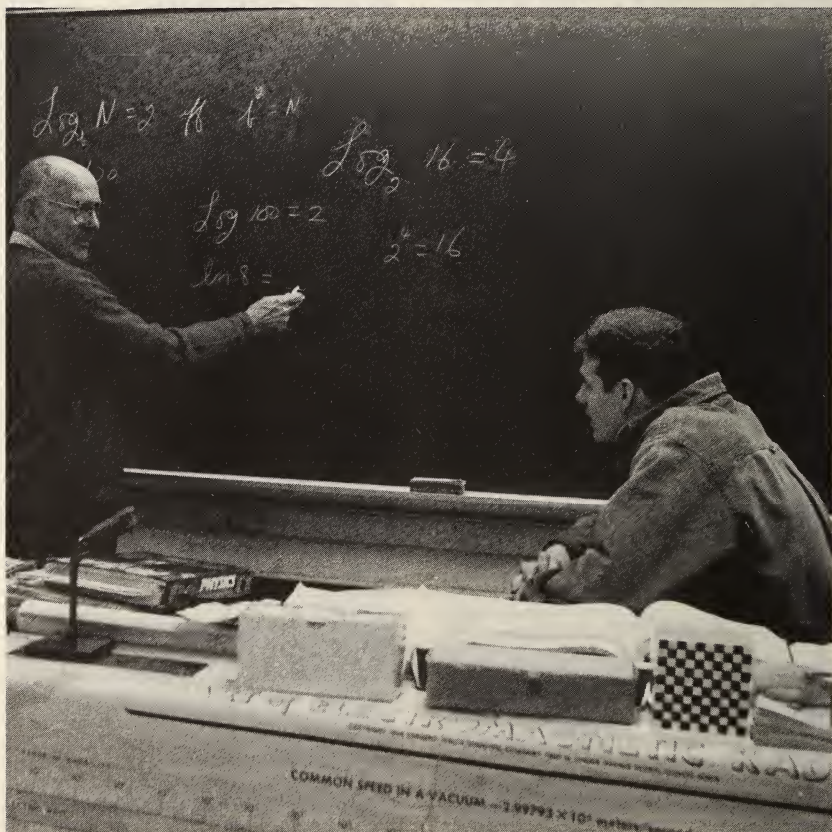
Arc welding demonstrations by the instructor and practice by the students. The operation of AC and DC arc welding machines. Studies are made of welding heats, polarities and electrodes. Practice will be given for masking groove and fillet type welds. Also deals with the physical and chemical behavior of the metals during shaping, welding, and treating operation.

WOODWORKING**WWK 1306—Introduction to
Woodworking** 4 0 4

A beginning course in hand woodworking tools and use. This course covers major hand working tools, their care, maintenance and use; types of wood and their use as related to industrial, commercial and residential use.

ZOOLOGY**ZOO 201—Advanced Zoology** 3 2 4

A comprehensive study of the animal kingdom including anatomy, physiology, taxonomy, and ecology. Special emphasis will be placed on the invertebrates, and local animals. Prerequisites: BIO 101, 102, 103, or permission of instructor.



NON-CREDIT PROGRAMS



INDUSTRY AND COMMUNITY SERVICES

CONTINUING EDUCATION PROGRAMS

Adult or Continuing Education as defined in this catalog includes activities designed to meet the needs of people beyond compulsory school age whose major occupation may not be that of a full time student. It is the purpose of Cleveland Community College to afford this opportunity to each individual to develop to the fullest potential in vocational, intellectual or cultural areas. It is also the aim of the College to be of service to area industries, businesses and public agencies by providing training and upgrading for employees. In order to meet these aims the Extension and Adult Education Division of the College will help make continuing education available by offering a variety of courses and programs.

The extent of different programs and courses is based upon the interest shown by the community, availability of competent instructors and the limitations of available equipment, space and funds. Whenever possible, courses are scheduled as community needs or interests are indicated. Some classes, constantly in demand, are offered on a continuing basis. Others are started at the request of individuals or organizations. The College welcomes such requests and suggestions for additional courses.

Continuing education classes conducted by Cleveland Community College have four separate classifications: occupational, academic, practical skills, and avocational. The classes are non-curriculum, vary in length, conducted both day and evening, and are taught by qualified instructors selected by the College. A schedule of some classes being offered is announced by the College prior to each quarter and other classes are announced during the quarter, as they are arranged.

ADMISSION

Any adult 18 years or older or any public school student 16 years or older with valid dual enrollment forms are eligible to enroll.

REGISTRATION

Registration will be held at the first class meeting unless specified otherwise. In some instances when enrollment is limited, adults should notify the College by phone, letter, or personal visit to place their names on the pre-registration list for classes.

EXPENSES

Continuing Education classes have a \$35.00 registration fee. The only exceptions to the fees are in Fire Service and Law Enforcement Training programs including Civil Preparedness courses and programs for Emergency Medical personnel. Also, registration fees are waived for North Carolina residents 65 years of age or older in all courses. A charge may be necessary in some courses for class supplies. Books, when required, are available through the College Store for both campus and off-campus classes.

REFUNDS

Registration fees for Continuing Education classes are collected for the State and are generally non-refundable. Refunds will be granted if the class is canceled by the College except in the case of poor attendance.

CLASS LOCATIONS

Many of the Continuing Education classes are held on the campus at Cleveland Community College. Others are conducted throughout Cleveland County in local public schools, community centers, churches, industries, businesses or wherever a suitable meeting place can be arranged. Classes may be organized in any community whenever a sufficient number of prospective class members indicate an interest.

ATTENDANCE

A minimum enrollment of 15 persons is needed to conduct a class. Adults are expected to attend class regularly. Attendance records are maintained by the instructors. Insufficient enrollment or attendance may result in cancellation of the class.

CERTIFICATES

Certificates are awarded in certain classes to students successfully completing course requirements. Also, a certificate of High School Equivalency (GED) is awarded to adults who successfully complete the high school equivalency tests.

INSTRUCTORS

Qualified instructors, as determined by the Extension and Adult Education Divisions, will be employed for Continuing Education classes.

OCCUPATIONAL EXTENSION EDUCATIONAL PROGRAMS

Extension classes are designed to meet the needs of industry, business and other areas of occupational endeavor. Specifically, classes may be organized when there is a need for:

1. Upgrading for those within a specific occupation.
2. Retraining classes for those wishing to change their vocation.
3. Preparation of individuals for initial employment.

All classes are organized where a demand for certain skills is required, based upon the needs of the firm or group as represented. The classes may be arranged on a short or long-range schedule as needed. Flexibility is the key asset in the Occupational Extension Program.

The following is a partial list of the many broad areas of instruction in which training is available:

Fire Service Training
Law Enforcement Training
Industrial Training

NEW INDUSTRY TRAINING

One of the primary functions of Cleveland Community College is to stimulate the creation of more challenging and rewarding jobs for the people of our area by providing a type of training geared to the needs of new and/or expanding industries. With some limitations, this institution, in cooperation with the Industrial Services Division of the State Department of Community Colleges, will design and administer special programs for training the production manpower required by any new or expanding industry which results in creating new job opportunities for North Carolina.

In addition to helping any new or expanding industry meet its immediate manpower needs the program seeks to encourage each industry to develop a long-range training program of its own to satisfy its continuing replacement and retraining needs.

For further information on the New or Expanding Industry program, please contact the Department of Continuing Education, Cleveland Community College, or the Director of the Industrial Services Division, North Carolina Department of Community Colleges, Raleigh, North Carolina.

GENERAL ADULT EDUCATION

General Adult and Community Service classes and programs are offered through the Extension Division of Cleveland Community College to enable individuals to gain personal satisfaction and knowledge through self-advancement. These programs include opportunities for intellectual growth, the development of creative skills or talents, the learning of hobby or leisure time activities, and the opportunity of gaining civic and cultural awareness.

TEACHERS' CERTIFICATE RENEWAL

Teachers' certificate renewal courses and workshops are provided by Cleveland Community College in cooperation with the local public school systems within the county.

The courses and workshops are initiated by the College or the public school systems based on interests and needs expressed by school teachers and officials. In the past, these have included such courses as Great Decisions, Psychology, Guitar, Drawing and Sketching, Anthropology, Computer Training, and media workshops.

When a need for a particular course has been determined, Cleveland Community College, working cooperatively with the public schools in-service directors, plans and organizes the class, scheduling it for a time convenient to the participants.

Teachers receive one (1) C.E.U. toward certificate renewal for each 10 hours of successfully completed work.

FOCUSED INDUSTRIAL TRAINING

The primary goal of the program is to provide a comprehensive training program capable of meeting the expressed training needs of the industries of Cleveland County. The College works jointly with industrial representatives to assess their needs and provides appropriate training to upgrade their employees' skill levels.

Working cooperatively with industry, the staff selects course content, decides on the length, time and location for the course to be offered. Instructional personnel is selected for training courses on the basis of competence in the specific subject area to be taught.

The training is conducted on a competency based instructional mode. External and internal evaluation of trainee progress by the program staff and the trainee's employer is a cooperative venture.

COMPREHENSIVE EDUCATION PROJECT

The Comprehensive Education Project which is located at the correctional institute is structured toward meeting the academic, vocational, and social needs of selected medium custody inmates who plan to reside in the South Piedmont area when paroled.

Upon completion of the program, the inmates receive a certificate in the vocational areas of Electrical Installation and Maintenance (9 months), Welding (6 months), Residential Carpentry (9 months), Plumbing (6 months), Food Service Management or Cooking and Baking (6 months). The inmates attend class 30 hours a week.

Related subjects are required in the areas of reading, math, and human relations. Preparation for the GED examination is also available with the test being administered monthly.

It is anticipated that each inmate who completes the Comprehensive Education Project will acquire the necessary vocational skills to obtain permanent employment under the work-release program and retain this employment upon his release.

CONTINUING EDUCATION

ACADEMIC COURSE DESCRIPTIONS

Algebra: A course designed to teach the basic fundamental concepts and operations of algebraic computations including grouping, factoring ratio and proportion, and quadratic equations. Application to practical problems will be stressed. 33 hours.

Anthropology: The Ascent of Man, a series of 13 outstanding films that dramatically portray the interrelations of science and the humanities throughout history, is used as a basis for this course. The main interest is on the cultural evolution of man from pre-historic times up to the present. 20 hours.

Business Mathematics: A study of mathematical solutions to business problems including graphical representation of business data and the concepts of various functions as tools for analyzing pertinent business data. 24 hours.

Genealogy/Local History (N.C.): This course has a two-fold purpose; to teach the mechanics of genealogy with opportunities to apply the lessons learned; and to teach the history of North Carolina with special emphasis on local history. Several field trips are included. 100 hours.

Great Decisions: A yearly study and discussion of the eight most important issues facing our nation at the current time. 20 hours.

Income Tax Preparation: Instructions are offered in basic fundamentals of individual income tax preparation. Topics considered are gross income, deductions and exemptions, joint and separate returns, tax computations, and methods of reporting income. Both state and federal forms are covered in this class. 30 hours.

Metric System: A basic course in the use of the Metric System. Conversion tables are used in the class in order that students may become familiar with metrical computations as compared to conventional methods. 24 hours.

Music Theory: The course is designed for pianist, organists, and other musicians with no formal training in music theory. Course includes major and minor scales; major, minor and dominant seventh chords; elementary harmony; simple modulation, transposition of simple pieces; sight singing; and an investigation of rhythm. 20 hours.

Psychology: The basic principles of psychology are explored and how they may be applied to practical problems of every day life. The aim of the course is to help people get along better in school, jobs and human relations. 33 hours.

Sign Language: Instruction is designed for the parents of deaf children and for others who come in contact with deaf people. Classes begin with finger spelling and continue through the more difficult signs. 33 hours.

Sociology: A course designed to create a knowledge and awareness of the problems in society today and to fit the students for involvement in those problems that affect their personal lives. Information from other fields in the social sciences have a bearing on major social problems will be incorporated in the course. 33 hours.

Effective Speaking: Theory and practice in the art of effective speaking. Instruction will center around methods of planning and presenting the talk. Class reactions will be used as a method of evaluation and emphasis placed on the dynamics of public speaking. Self-confidence, poise, creative thinking, personality development, and effective communications with others will be stressed. 20 hours.

Securities and Investments: Stocks, bonds, and mutual funds will be the central area of focus in this course. Discussions will include the operation of the stock exchanges, buying and selling procedures, analysis of stocks and bonds for investment purposes, and when to buy and sell. 33 hours.

Short Story Writing: This course will provide the beginning writer with an understanding of the basic concepts of the elements and structure of short story. Content will include characterization, mood, perspective, plot and use of symbolism. 24 hours.

Speed Reading: A program designed for the average adult reader who needs to improve overall reading efficiency including speed, comprehension and flexibility. This course welcomes the supervisors and others in management positions who have much paper work and whose jobs require much reading. 24 hours.

CONTINUING EDUCATION OCCUPATIONAL COURSE DESCRIPTIONS

Amateur Radio Operations: A course which deals with basic electronics and a working knowledge of Morse Code. Successful completion of the course prepares students for taking the FCC Amateur Radio Licensing examination. 45 hours.

Auto Mechanics: General troubleshooting of the automobile engine electrical system and fuel system including replacement of spark plugs, ignition points, condenser, rotor, distributor cap, coil, ignition, cables and wires. Setting up of engine with instruments such as a dwell meter, timing light, volt and amp meter, vacuum gauge and general carburetor repair such as fuel filter replacement and adjustment of automatic choke is also included. 33 hours.

Basic Horticulture: A course designed to familiarize participants with the fundamentals of soil fertility, the principles of attractive home landscaping, the characteristics of various ornamental plants suitable for home landscaping, vegetable gardening, plant maintenance, and small greenhouse structures. 20 hours.

Bookkeeping: A course dealing with methods of recording and reporting business records. Practical work is done involving business, individual and family bookkeeping. 30 hours.

Bricklaying: Instruction will be geared to practical work in how to mix and spread mortar, lay bricks, and proper use of the masonry rule. Simple construction projects will constitute a large part of the course. 88 hours.

Cardio-Pulmonary Resuscitation: A special class dealing with the various techniques of cardio-pulmonary resuscitation. 10 hours.

Emergency Medical Technician (EMT): A more detailed course with emphasis on the development of skill in recognition of systems of illness and

injuries and proper procedures of emergency care. Much stress will be given in demonstration and practice as a teaching method. Ten hours of in-hospital observations is included. 142 hours.

Emergency Medical Technician (EMT) Refresher: A course in skills training and retraining for Emergency Medical Technicians required once every two years. A minimum of 33 hours.

Emergency Medical Technician Intermediate (EMT-I): A course in addition to the skills of an EMT-I will learn to perform the following under the direction of a physician at a sponsor hospital: to insert an esophageal airway; establish peripheral venous access; obtain venous blood sample for laboratory analysis; administer medications on EMT-I formulary; and utilize advanced life support equipment on EMT-I performance list. 156 hours.

First Aid: This course is taught by an approved American Red Cross instructor and is open to anyone interested in learning how to care for the victims of an accident or illness. Topics covered include bandage application, use of tourniquets and temporary splints, care of eye and burn injuries, artificial respiration and safe use and storage of medicines. Students completing the course are certified by the American Red Cross. 15 hours.

Funeral Service Training: An annual variety of topics relating to funeral service personnel to meet continuing education requirements of the North Carolina State Board of Mortuary Science. Each topic is of five hours duration.

General Contractor's Seminar: A course designed to help those wishing to take the North Carolina General Contractor's Exam. This course helps students to become familiar with the latest code revision and standard practices in construction. 33 hours.

Inservice classes: Inservice classes are offered to various groups who are required to complete annual inservice training. Examples are electrical contractors, tanning bed, day care workers, nursing assistants, etc.

Medical Terminology: A course designed to build a workable medical vocabulary for office and hospital clerical personnel.. Terminology commonly used in the medical setting will be presented. Hours of course flexible to needs.

Multimedia First Aid: A course covering the same topics but using American Red Cross films for demonstration followed by actual practice of the techniques by the students. 8 contact hours.

National Electric Code: This course is provided for those who wish to study the National Electric Code in preparation for the licensing examination. Instruction will include the latest code revisions, safety measures and standard practices in the wiring of single and multi-family dwellings, commercial establishments and industrial locations. 80 hours.

Notary Public: This 4-hour class is designed to prepare participants to be commissioned as a Notary Public with the State of North Carolina. Topics to be covered are requirements for collecting fees, general powers and limitations, oaths and affirmations, depositions, affidavits and negotiable instruments. Participants must reside or work in the state of North Carolina, read and write English and purchase the approved manual Notary Public Guidebook.

Nursing Assistant: A program designed to give instruction and practice in basic bedside care of the sick, especially the hospitalized patient. Basic procedures such as bathing, bedmaking, taking vital signs, collecting specimens, feeding the patient, moving, lifting and positioning the patient are included. The class consists of lectures and laboratory work in addition to some clinical practice in a local hospital. 120 hours.

Office Practice: A course for all clerical personnel stressing techniques of letter writing, correct spelling, communication skills both oral and written, and proper telephone usage. Hours adjusted to needs of students.

Practical Welding: Students will be given basic practice in all types of welding procedures and flame-cutting methods which are associated with mechanical and farm repair work. Safety procedures are stressed throughout the course in the use of tools and equipment. 33 hours.

Recreational Therapy: A course using modifications and adaptations in recreation and physical education activities for nursing home and handicapped persons. A combination of physical activities and arts and crafts is used in order to bring about a well-rounded adjustment. Class hours flexible according to need.

Upholstery: Instruction includes the techniques of general furniture upholstery including webbing, springing, stuffing, trimming, sewing, restoring, repairing, mounting and tying springs. Equipment is furnished but students supply their own materials and may work on their own furniture with direction and assistance from the instructor. 60 hours.

CONTINUING EDUCATION

PRACTICAL SKILLS COURSE DESCRIPTIONS

Auto Tune-Ups: General troubleshooting of the automobile engine electrical system and fuel system including replacement of spark plugs, ignition points, condenser, rotor, distributor cap, coil, ignition, cables and wires. Setting up of vacuum gauge and general carburetor repair such as fuel filter replacement and adjustment of automatic choke is also included. 33 hours.

Clothing Construction I: Designed for new sewer or anyone who wishes to brush up on basic sewing techniques. Time will be devoted to learning the necessary equipment for successful sewing, proper selection and fitting of pattern and materials; step by step construction of one or more garments; lectures, demonstrations, practical applications of sewing procedures; individual instruction in use of machines during class time. 33 hours.

Clothing Construction II: More detailed instruction for more complicated assembling of garments such as underlining, different sleeves, collars, pockets, trims, buttonholes, and other items. Fashion and styling will also receive attention in this class. 33 hours.

Custom Sewing: An advanced course for those students who wish to progress beyond dressmaking. Students will make suits, coats, men's and ladies' sportswear and other projects as desired by individual members of the class. 60 hours.

Jewelry Making: Instruction will be given in the basics of good design and creativity in various types of jewelry making. The use of jewelry tools in sawing,

filing, soldering, setting, etc., will be stressed. Students will be responsible for their own supplies and materials. 33 hours.

Microwave Cooking: Basic instruction will be offered in the many functions of a microwave oven. The cooking of all types of food including vegetables, meats, and desserts will be covered. Proper utensils for microwave cooking will also be stressed. 33 hours.

Motorcycle Mechanics: This course is especially designed for those people interested in servicing their own motorcycle and other small engines. Students who complete this course will be able to service and repair their own motorcycle. 36 hours.

Nutrition and Weight Control: Training in selection of proper diet for best health, avoiding obesity and related disease, determining one's proper weight, how to achieve and maintain it. 18 hours.

Picture Framing and Matting: A general course in introduction to picture framing and matting. The course will introduce students to proper tool selection, measuring, wood selection, mitering and selection and proper mat cutting. 33 hours.

Quilting: Instruction in the techniques of quilting which will include: patchwork, applique, shadow appliques, soft shading, lap quilting, making pillows, drafting patterns, and continuous bias binding. 33 hours.

Small Engine Repair: Instruction in the techniques of two and four cycle engine repair including reconditioning, tune-ups, replacement of parts and detection of engine trouble. 48 hours.

Taxidermy: A basic course in the fundamental principles of taxidermy. Step-by-step methods are used beginning with birds and fish. Advanced classes progress to larger and more complex animals. A practical course. 33 hours.

CONTINUING EDUCATION

AVOCATIONAL COURSE DESCRIPTIONS

Basketweaving: Students will learn the history and techniques of various basketweaving styles, such as: market baskets, key baskets, egg baskets, round baskets using a variety of weaving techniques and materials. 33 hours.

Cake Decorating I: An ideal course for the homemaker who would like to learn the art and techniques of decorating cakes for all occasions. Instruction will include preparation and application of various icings, borders, writing, drawing and making flowers for cakes. 33 hours.

Calligraphy: This course teaches the art of calligraphy, a beautiful and elegant handwriting. Students will become familiar with pen styles, basic strokes, commercial script, line and letter placement. 33 hours.

Candy Making: Instruction in how to make professional looking candies will be stressed. Recipes, correct cooking procedures, and use of candy thermometer will be covered. 33 hours.

Ceramics: A popular class where students learn of the formation, finishing and firing of creative pottery. Finishing processes will include pouring, cleaning the greenware, decorating, glazing and firing for the finished product. 33 hours.

China Painting: A course in which various types of designs and flowers are applied to chinaware and tiles. Practice in painting and firing is included in the course. 33 hours.

Community Chorus: A mixed voice musical organization open to all adult members of the community service area with audition. Two or three major concerts featuring a variety of music are given by participants each year. Each rehearsal contains vocal technique and instruction in music reading. 32 hours.

Copper Tooling: A fascinating craft class where students make beautiful and useful objects for the home. Simple tools are used for various patterns on copper and brass which are then used to make pictures, plaques, waste baskets, flower urns, etc. 30 hours.

Crewel Embroidery: The class will learn a variety of stitches with different types of threads; needlepoint and cross stitching. Students are encouraged to create their own designs. 33 hours.

Crochet: A course in the basic principles and art of crocheting, including the actual construction of articles and designs from simple to complex. Students furnish their own materials. 33 hours.

Decoupage and Repousse: An interesting and inexpensive leisure time activity involving painting, sanding and finishing items such as table tops, ash trays, picture frames and other similar items which can be used for decorative purposes in the home. 24 hours.

Drawing: The course includes one-minute gesture drawings, contour drawings, modelled drawings and quick form studies. Media used are pencil, pen and ink, ink wash, crayon and water colors. Perspective and drapery studies are included. 33 hours.

Floral Design: A practical course related to actual arrangements of live and artificial flowers. Students learn uses of flowers, containers and accessories, design principles, color and texture, and arrangements for special occasions. 33 hours.

Holiday Decorations: (Arts and Crafts). An exciting class with emphasis on handcrafts and hobbies for home decorating and other occasions. Students will learn to make useful items from such things as bottles, cards and numerous other scrap materials. 33 hours.

Interior Decorating: Primary attention will be given to art and practice of decorating. Emphasis will be given to choice and arrangement of furniture; color and how to use it; flooring surfaces and floor covering; window treatment with draperies and curtains. 33 hours.

Knitting: Instruction will be given in the basic stitches; knitting language—its terms, definitions, symbols and abbreviations; pattern reading; knit tips. Each student is asked to complete a small project during the course. 33 hours.

Macrame: A popular and fascinating craft class using various knot-tying materials to make hanging basket holders and other useful objects and designs for the home. 33 hours.

Needlepoint: The student learns to do background stitches; a variety of novelty stitches; transfer of graphs and charts to blank needlepoint canvas, and from that step to transfer on mesh canvas. Finally the student has learned to

create a design to be worked in needlepoint for whatever purpose the student intends--upholstery material, draperies, framing, wall hanging, etc. 33 hours.

Painting with Acrylics: Same as for oils with more emphasis on modern techniques in the use of the versatile material which is easy to handle, fast drying, waterproof, and easy to mix for different colors. Instruction will involve mixed media and various painting methods. 33 hours.

Painting with Oils: Classes are organized for both beginners and more advanced students. Techniques used include brush and palette knife painting, color mixing, composition and design, canvas stretching. Types of painting include academic, impressionistic, expressionistic, abstract and modern. 33 hours.

Photography: Introduces the student to fundamental factors influencing the quality of image captured in the photograph. Students may study lighting, the primary subject, the field of view, color and camera techniques. 33 hours.

Porcelain: Advanced students will learn complete process of porcelain doll making as well as other porcelain items; pouring, cleaning greenware; cutting out eyes and insertion; painting dolls; assembling and wiggling. Some dressing instruction. Heritage heirloom instruction. Can produce (3) three dolls in class. 33 hours.

Prepared Childbirth: This class prepares the prospective mother emotionally, intellectually, psychologically, and physically for childbirth. Together, both prospective parents are actively involved in the birth of their child. Instruction includes techniques of body building exercises, stretching and breathing exercising, and neuro-muscular control (relaxation). 21 hours.

Sketching: An interesting and basic class for the art student who wishes to learn more about drawing simple shapes, one and two-point perspective drawing, and shadowing. Practice exercises with various drawing materials will be used. 33 hours.

Stained Glass: The course is designed to teach all techniques in cutting and fitting stained glass in the making of lamps, planters, decorative ornaments, jewel boxes, pictures, etc. 33 hours.

Tole Painting: An interesting technique, rather than talent, where patterns of decorative design are painted on pine, wood, glass and metal. Designs are stenciled on material and painted in acrylics or oils. The art of tole painting is the way the brush is held and turned to make details. 33 hours.

Water Colors: In this class art students will work with various materials and equipment, color mixing, using wet and dry paper, composition and design. Other techniques will include watercolor tricks, inks and calligraphy. 33 hours.

Woodworking: This course is designed to help the woodworking enthusiast in the use, care and safe practice of basic hand and power tools. Considerable time will be spent in the shop in practical use of skills learned. Woodworking projects completed by the student may be retained for personal use. 45 hours.

BASIC SKILLS PROGRAM

The Basic Skills Program provides a variety of educational experiences for adults by guiding them in the development of individual strategies to improve the necessary skills for coping with change in today's complex society.

Striving to meet the spectrum of needs of the College and the community, the staff of the Basic Skills Program provide flexibility within each program. The goal of the department is to assist participants as they strive to become independent learners and productive citizens.

Educational, cultural, economic and social needs are considered when students apply for various programs. Class sites are on campus and at various locations in Cleveland County.

Following are the programs and services available through the Basic Skills Programs:

- Adult High School Diploma Program
- Adult Basic Education Program
- G.E.D. Preparatory Program and Examination
- Learning Lab Programs
- Human Resources Development Program
- English As A Second Language
- Compensatory Education Program

Adults, eighteen years of age or older, desiring to make application for any of the Basic Skills Programs should contact the appropriate departments for additional information.

ADULT BASIC EDUCATION PROGRAM

(Grades 1-8)

Adults who have less than a high school education may enroll in the Adult Basic Education Program. The program includes instruction in reading, writing, mathematics, social studies, science, and health education. In each of these areas, instruction is designed to assist students in meeting adult responsibilities by improving fundamental skills. Learning opportunities range from instruction for those who have received no formal education to those who have received as much as eight years of instruction.

Classes are organized into two groups. The first group is for those who need individual instructional guidance in basic reading and writing skills. In the second group, instruction is offered in reading and writing at a more advanced level than that of group one. The second group also receives instruction in basic science and social studies.

With successful completion of the subject matter taught in group two, the student may then advance into the high school program.

Students may enter ABE classes at any time. However, the staff recommends that individuals enter during the registration period at the

beginning of each quarter. In order to take advantage of the complete program being offered, the College encourages students to maintain attendance in these classes over a period of several school quarters.

There is no registration fee for ABE classes. Classes are held on campus and at various locations throughout the county.

ADULT HIGH SCHOOL DIPLOMA PROGRAM

(Grades 9-12)

The Adult High School Program is a cooperative program between the College and the local school systems. It is available to Cleveland County adults who have passed the eighth grade or the Eighth Grade Equivalent Test and wish to complete the high school program. The successful completion of twenty units and a passing score on the North Carolina Competency Test are required for graduation from the Adult High School Program. Any previously earned high school units are usually accepted toward the total requirements. The program is free, although there may be a small fee for textbooks. A graduation fee is charged to each student completing the high school requirements. The graduate will be issued a diploma or certificate from the school district in which he or she lives.

Adult High School students may arrange a schedule to complete high school through the Learning Lab program or the classroom program on campus, or at various locations throughout the county. Interested persons may enroll in the Adult High School Program at any time.

Requirements for graduation include the following:

English.....	4 units
Social Studies.....	3 units
Mathematics	3 units
Science	3 units
Electives.....	7 units

N.C. Competency Test (Passing Scores)

Upon Completion of the Adult High School Program, graduates may enroll in one of the curriculum programs at Cleveland Community College or some other college.

GENERAL EDUCATIONAL DEVELOPMENT (GED) PREPARATORY

The GED (high school equivalency) Preparatory Program is designed for adults preparing to take the GED examination. After the administration of the required Pre-GED examination, each student's academic skills are evaluated to determine specific instructional needs. The student primarily studies in the areas of English, reading

and math. After achieving specific skills and knowledge, the student is prepared to take the GED examination.

LEARNING LAB PROGRAM

The Learning Lab, located on the campus, includes free high school programs in addition to the free General Interest Programs. General Interest Programs are available for adults who have already completed high school or college work but who want to continue their educational development in a free non-credit curriculum.

For their own self-improvement and personal interest, many community residents choose self-instructional courses such as reading improvement, math or English.

Because there are no organized classes in the Learning Lab, the staff will assist the student in arranging a study schedule to meet his or her needs. The student may attend the hours and days which are most convenient for him or her. The Learning Lab is open from 8:00 AM to 10:00 PM, Monday through Thursday and 8:00 AM to 4:00 PM on Friday.

HUMAN RESOURCES DEVELOPMENT PROGRAM

The Human Resources Development Program provides prevocational training and counseling for unemployed and underemployed adults. Upon graduation, participants receive assistance with job placement or opportunities for skills training.

The goal of the Human Resources Development Program is to prepare persons for successful performance in the work force. The primary objective of the program is to reduce unemployment and underemployment by making it possible for the participants to become and remain productive employees.

Students in the Human Resources Development Program enroll for approximately eight weeks of instruction. The curriculum includes an orientation to the workplace, instruction in reading, writing and arithmetic skills, and instruction in human relations, which are essential to securing and maintaining employment.

Classes are held on campus from 8:30 AM to 12:30 PM, Monday through Friday.

ENGLISH AS A SECOND LANGUAGE

English language for the foreign born is taught as written English and as conversational English. Classes are free of charge to those seeking English language skills and citizenship instruction. Classes are available for refugees, migrant workers and other aliens.

COMPENSATORY EDUCATION PROGRAMS

The Compensatory Education Program provides classes in basic education, socialization, and community living skills for the adult mentally retarded.

This program is a cooperative effort through Cleveland County Mental Health, Cleveland Vocational Industries, Inc., Cleveland Community College, and other service provider agencies.

Certification of mental retardation is required prior to enrollment.

SMALL BUSINESS CENTER

The Small Business Center of Cleveland Community College provides workshops, seminars, counseling, information and referral services for small business owners and operators in Cleveland County. The Center's objectives are:

- * To provide accessible and flexible training programs for small business operators including workshops, seminars, and continuing education courses.
- * To provide a resource center of print and non-print reference materials for use by small business operators and employees.
- * To offer special assistance to small business owners and would-be owners via a network of referral services to the chambers of commerce banks, the Small Business Administration, and other agencies such as the Department of Commerce.
- * To offer consultative services on a direct one-to-one basis.

A variety of seminars have been presented including Managing Customer Complaint, Time Management, Effective Selling, Low Cost Advertising, Telephone Professionalism, and Tax Reform. For more information call the Small Business Center Director at 484-4040.

LEARNING RESOURCES CENTER

Hours 7:30 a.m. - 10:00 p.m. Monday - Thursday
7:30 a.m. - 4:00 p.m. Friday

The Learning Resources Center (LRC) is a multimedia facility designed to support the total educational program at Cleveland Community College. The LRC includes two areas of service: Library Services and Audiovisual Services. The merger of these components provides a broad range of services to meet the instructional and individual needs of the students, beginning at his/her skill level and assisting in that student's development and improvement. These services also include support of the various programs of the college and the enhancement of the teaching/learning process for students, faculty, administration, and community patrons. The LRC staff offers both professional and technical assistance to meet the total institutional and community needs by the careful selection of instructional materials (both print and non-print) and by providing instructional materials in basic library skills and assistance for the students/patrons to most effectively use the materials available. The LRC provides opportunities for life-long learning to adults in the community. As well as providing materials that enhance the productive use of leisure time, the LRC has materials available which allow adults to improve and upgrade their skills for employment, either part-time or full-time. Citizens and students of Cleveland County may take advantage of the offerings and assistance by working at their own pace to teach themselves new skills.

LIBRARY SERVICES

The library has a growing collection of approximately 26,331 volumes (at end of Summer Qtr. '92), most of which are related to the Degree and Diploma programs. The selection of materials is done in consultation with faculty, students, and administration. The library has a collection of local history materials that is used in conjunction with Continuing Education courses as well as for anyone who wishes to research local history and genealogy. The open shelf concept is used to encourage browsing and study. The library subscribes to approximately 260 periodicals. For better accessibility, the audio-visual collection is intershelved with the books.

AUDIO-VISUAL SERVICES

Functions of the audiovisual services section of the LRC include the coordination of AV instructional materials and equipment and media productions.

There are over 5,514 AV acquisitions in the collection including films, cassette tapes, slides, records, filmstrips, film loops, transparencies, video tapes, etc. The department maintains the most up-to-date equipment for all software. This includes portable equipment which is used in the classroom as well as the closed circuit TV system that is available in sixty classrooms, the LRC, and various offices and lobbies as well.

The Audiovisual Department is responsible for the operation of the College's community cable access Channel 22, which began broadcasting September, 1982. The community cable channel provides capabilities for delivery of educational, cultural, and public service programming to approximately 10,000 cable subscribers. This includes Shelby, Boiling Springs, Polkville, Patterson Springs, Fallston, Lawndale and surrounding areas.

CLEVELAND COMMUNITY COLLEGE

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Lavon Laye	
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Marilyn Neisler	

PERSONNEL OF THE COLLEGE (FULL-TIME)

OFFICE OF THE PRESIDENT

PresidentL. Steve Thornburg (1990)
 B.A.J., University of North Carolina at Chapel Hill
 M.P.A., University of North Carolina at Chapel Hill
 Ed.D., North Carolina State University in Raleigh

GENERAL ADMINISTRATION

Associate Vice President of College Relations/Development
 Executive Director, Cleveland Community
 College FoundationDorothy P. McIntyre (1970)
 A.A., Gardner-Webb College
 B.A., Limestone College
 M.A., University of North Carolina at Charlotte
 Ed.S., Appalachian State University
 CAGS, Ed.D., Virginia Polytechnic Institute and State University

Director of Administrative Computing and
 Research and PlanningHugh Walker, Jr. (1973)
 A.A.S., Cleveland Technical College
 B.S., North Carolina State University
 M.A.Ed., Western Carolina University
 Advanced Study, Appalachian State University

BUSINESS AFFAIRS

Vice President of Business AffairsJames E. Greene (1971)
 A.A., Gardner-Webb College
 B.S., Limestone College
 M.A., Appalachian State University

Comptroller/Office Manager Jane Webb (1965)
 Southern Business College
 A.A.S., Cleveland Technical College

Bookkeeper Carolyn Queen (1974)
 Gardner-Webb College
 A.A.S., Cleveland Technical College

Security OfficerGlenn Poston (1984)
 22 years experience with Cleveland County Sheriff's Department

Purchasing OfficerKay Allen (1979)
 A.A.S., Cleveland Community College
 B.S., Limestone College

Bookstore ManagerLydia McSwain (1986)
A.A.S., Cleveland Community College

Printshop Operator/Mail Room ClerkDanny Dedmon (1986)
A.G.E., Cleveland Technical College
B.A., Limestone College

INDUSTRY AND COMMUNITY SERVICE

Vice President of Industry and
Community Service Joe M. Hamrick (1975)
B.S., North Carolina State University
M.A., Appalachian State University
Doctoral Studies, North Carolina State University

Dean of Continuing Education David M. (Pete) Stamey (1973)
B.S., North Carolina State University
M.A.Ed., Western Carolina University
Ed.S., Western Carolina University

Director of Continuing Education John Kilby (1975)
B.S., Appalachian State University
M.A., Appalachian State University
Ed.S., Western Carolina University
North Carolina State University

Director of Small Business Center Barbara Greene (1989)
B.S., Gardner-Webb College
M.A., Gardner-Webb College

Director of Prison Program Donald Smith (1967)
B.S., Clemson University
M.A., Appalachian State University
Ed.S., Western Carolina University

GED Testing CoordinatorWilliam Jones (1973)
A.A.S., Cleveland Technical College
B.S., Western Carolina University

Emergency Services Coordinator Bob Watson (1992)
B.S., Gardner-Webb College

Dean of Skills Development ProgramsRebecca K. Cook (1970)
A.A., Gardner-Webb College
B.A., Appalachian State University
M.Ed., University of North Carolina at Charlotte

Basic Skills Programs CoordinatorKatherine Wallace (1990)
B.S., Gardner-Webb College

Basic Skills Records Coordinator Louise H. Martin (1974)
B.A., Meredith College
M.A.Ed., Western Carolina University

- Basic Skills Learning Lab CoordinatorW. Cobern Pruitt (1976)
 B.S., Western Carolina University
 M.A., Western Carolina University
 Ed.S., Western Carolina University
 Doctoral Studies, University of North Carolina at Greensboro
- Recruiter/Computer Lab CoordinatorNancy N. Hopper (1976)
 A.A.S., Cleveland Technical College
 B.S., Gardner-Webb College
 Queens College
 M.A., Appalachian State University
- Coordinator, HRD Program Carolyn Petty (1979)
 A.A.S., Cleveland Technical College
 North Carolina A and T University
 Limestone College
 B.S., Gardner-Webb College
- HRD Recruiter/ InstructorJoyce Hosch (1979)
 A.A.S., Cleveland Technical College
 B.S., Gardner-Webb College

ACADEMIC PROGRAMS

- Vice President of Academic
 Programs T. Elizabeth Cartwright (1992)
 B.A., University of North Carolina at Greensboro
 M.A.Ed., University of North Carolina at Greensboro
 Ed.D., University of North Carolina at Greensboro
- Dean of Arts, Sciences, and Public ServicesRonald Wright (1973)
 A.A., Gardner-Webb College
 B.A., Gardner-Webb College
 M.A., Western Carolina University
 Ph.D., University of South Carolina
- Dean of Business Technologies Madge Wray (1971)
 B.S., North Carolina A and T University
 M.A., Winthrop College
- Dean of Vocational and Engineering
 TechnologiesGene C. Cox (1973)
 B.S., Western Carolina University
 M.A., Gardner-Webb College
- Dean of Learning Resources/Affirmative
 Action Officer Nettie Washington (1980)
 B.S., Winston-Salem State University
 M.L.S., North Carolina Central University
 Appalachian State University

- Director of Library ServicesBarbara Peeler (1991)
 B.A., Gardner-Webb College
 M.S.L.S., University of North Carolina at Chapel Hill
- Director of Channel 22 and
 Communications Technology
 Instructor..... Shellie Hamrick-White (1989)
 B.A., Gardner-Webb College
- Coordinator of Audiovisual ServicesDanny Wray Morton (1986)
 A.A., Isothermal Community College
 University of North Carolina at Charlotte
 A.A.S., Cleveland Technical College
- Graphics/Photo CoordinatorSteve Martin (1987)
 Western Carolina University
 McDowell Technical Community College
 17 years professional photography experience

STUDENT SERVICES

- Vice President for Student ServicesSandra W. Hardin (1970)
 B.B.A., University of Houston
 M.A.Ed., Western Carolina University
- Dean of Enrollment Management LouAnn Bridges (1976)
 A.A.S., Cleveland Technical College
 B.S., Gardner-Webb College
 M.A., Gardner-Webb College
 University of South Carolina at Spartanburg
- Director of Financial Aid and Veterans AffairsAlan Price (1976)
 B.S., Western Carolina University
 M.A., Appalachian State University
- Admissions CounselorCaroline Moore (1991)
 B.A., East Carolina University
- Director of Testing, Student Activities, Job Placement,
 and Alumni Affairs Jana Pruett (1992)
 B.S., Appalachian State University

CLERICAL STAFF

- Secretary, President's Office Pat Anderson (1981)
 Appalachian State University
 Cleveland Technical College
 University of South Carolina at Spartanburg
- Secretary, Academic Programs..... Lee Bryant (1976)
 A.A.S., Cleveland Technical College
 A.G.E., Cleveland Technical College

- Secretary, ReceptionistSeverne L. Budd (1992)
B.S., Livingston College
- Secretary, Continuing Education Nancy W. Carpenter (1981)
Jr. Secretarial Degree, Kings College
A.A.S., Cleveland Community College
- Secretary, Business OfficePhyllis Champion (1987)
A.A.S., Cleveland Community College
- Secretary, Academic Programs..... Jane Gibson (1988)
A.A.S., Cleveland Community College
- Computer System Technician..... Phyllis Haynes (1985)
A.A.S., Cleveland Community College
- Secretary, Evening ReceptionistBillie Jenks (1977)
Shelby Business College
A.A.S., Cleveland Technical College
Gardner-Webb College
- Secretary, Student ServicesAudrea Jimson (1993)
Cleveland Community College
- Secretary, Small Business Center and
Continuing EducationSusan Martin (1990)
Western Carolina University
A.A.S., Cleveland Community College
- Applications/Transcript CoordinatorPearl J. Mauney (1986)
A.A.S., Cleveland Technical College
B.S., Gardner-Webb College
- Secretary, Vocational and Engineering
TechnologiesPeggy Oates (1990)
B.S., Gardner-Webb College
- Secretary, Financial Aid Beverly Ponder (1973)
Gardner-Webb College
A.S., Kings College
- Secretary, Learning Resources Shirley Rodriguez (1976)
A.A.S., Cleveland Technical College
B.S., Limestone College
- Secretary, Student ServicesAngela Rudd (1992)
B.A., Emory and Henry College
- Records Processing Technician..... Carolyn Smith (1976)
A.A.S., Cleveland Technical College
B.S., Gardner-Webb College
- Secretary, College Relations/
Development Susanne J. Studioso (1992)
A.A.S., Cleveland Community College

HOUSEKEEPING AND MAINTENANCE STAFF

Supt. of Buildings and Grounds	Carroll Hamrick (1982)
Housekeeping Supervisor	Gene Lail (1993)
Maintenance	Terry Toney (1990)
Maintenance	Keith Willis (1989)
Housekeeper	Dorothy Linda Black (1977)
Housekeeper	Donna Ingle (1992)
Housekeeper	Jessie J. Lott (1975)
Housekeeper	Ronnie Moon (1991)
Housekeeper	Barbara Smarr (1988)
Housekeeper	Dorothy Surratt (1976)
Housekeeper	Lucille Wilson (1992)
Housekeeper	Patricia Wilson (1976)

FACULTY

- Alex Alexander (1979) Instructor-Food Service, Prison Program
John Hopkins University
Johnson and Wales Culinary Arts College
University of North Carolina at Greensboro
A.A.S., Cleveland Technical College
B.S., Western Carolina University
Queens College
- Renee Allison (1983) Instructor-Microcomputer Systems
Technology
B.S., Appalachian State University
M.A., Appalachian State University
University of North Carolina at Charlotte
- Ada Blankenship (1981) Instructor-Ceramics, Pottery, Porcelain
University of South Carolina
University of Louisville
Certified Mayco Teacher
Certified Duncan Ceramic Products Teacher
Certified Seeley Porcelain Teacher
Over 20 years experience teaching ceramics
- Hal Bryant, Jr. (1975) Instructor-Art
B.A., Gardner-Webb College
M.A., University of South Carolina at Columbia
- Joe Collum (1992) Instructor-Plumbing, Prison Program
Cleveland Community College
10 years experience in construction
- Tom Cook (1990) Program Coordinator-A/C, Heat & Refrig.
20 years Electronics Technician in Air Force
Diplomas in Air Conditioning/Refrigeration, Electrical Installation
and Maintenance
Cleveland Technical Institute
North Carolina State University
- Joanne Cox (1991) Instructor-Chemistry
B.A., Shippensburg State College
M.A., Shippensburg State College
- Ray Fisher (1977) Program Coordinator-Electrical Installation
and Maintenance
A.A., Gaston College
B.S., Western Carolina College

- James Walter Fite (1975) Instructor-Biology
 B.S., Appalachian State University
 M.A., Appalachian State University
 Additional Study, Indiana State University, University of South
 Carolina, University of North Colorado
- Jean Francis (1971)Instructor-Psychology
 A.A.S., Cleveland Technical College
 B.S., Limestone College
 M.A., University of South Carolina at Spartanburg
 University of North Carolina at Charlotte
- Woodrow Glenn (1976) Instructor-Business Administration
 B.S., Gardner-Webb College
 Western Carolina University
 M.A., Appalachian State University
- Paula Greene (1992)Instructor-Nursing
 B.S.N., Berea College
- Julie Holt (1992) Instructor-Accounting
 B.S., East Tennessee State University
 M.A., East Tennessee State University
- Rosalyn Hunt (1976) ...Instructor-General Education, Prison Program
 B.S., Fayetteville State University
 Western Carolina University
 M.A., Appalachian State University
 Ed.S., Appalachian State University
- Bo Jones (1973) Instructor-Continuing Education/
 GED Testing Coordinator
 16 years experience in automotive mechanics
 B.S., Western Carolina University
- Katherine Jones (1975) Department Head-Practical
 Nurse Education
 A.A., Gardner-Webb College
 R.N., Rex Hospital School of Nursing
 B.S.N., North Carolina Wesleyan College
 M.S.N., East Carolina University
- Patty Lawing (1992)Instructor-Nursing
 B.S.N., Western Carolina University
- Jody Ledford (1989) ..Instructor-Microcomputer Systems Technology
 B.S., Gardner-Webb College
 M.A., Gardner-Webb College
- Doug Lovelace (1993) Instructor-Industrial Management
 B.S., Auburn University
 M.B.A., University of Richmond

- Wilbur McBride (1975) Instructor-Physics and Math
 B.A., Wofford College
 M.A.Ed., University of North Carolina at Chapel Hill
 Advanced Study, University of Arkansas, University of Michigan,
 University of Kansas, New Mexico State University, University of
 North Carolina at Chapel Hill
- Fred McFarland (1970) Instructor-Accounting
 A.A., Gardner-Webb College
 B.A., Carson-Newman College
 M.A., Appalachian State University
- Mike McSwain (1983) Instructor-Electronics
 Engineering Technology
 A.A.S., United Electronics Institute
 B.S., Western Carolina University
- Joyce Meade (1973) Department Head-Business Administration,
 Secretarial, and Fashion
 B.S., University of North Carolina at Greensboro
 M.A., Winthrop College
- Jean Mitchell (1976) Instructor-Secretarial Science
 B.S., North Carolina Central University
 M.A., Appalachian State University
- Hilda Moore (1991) Instructor-Spanish
 B.A., Gardner-Webb College
 M.A.T., Appalachian State University
- Starr Morrow (1992) Instructor-History
 A.A., Isothermal Community College
 B.A., University of North Carolina at Charlotte
 M.A., University of North Carolina at Charlotte
 Doctoral Studies, University of South Carolina at Columbia
- Claman Parker (1989) Instructor-Carpentry, Prison Program
 10 years experience in carpentry
- Becky W. Parrish (1990) Fashion Merchandising-Retail Marketing
 Technology Coordinator
 A.A.S., Cleveland Technical College
 B.S., Winthrop College
- Frank Polk (1992) Department Head, Criminal Justice
 B.A., Appalachian State University
 24 years experience in the U.S. Army Special Forces

- Franklin Pullen (1971) Instructor-Health & Physical Education
 B.S., North Carolina A and T University
 M.A., University of Rhode Island
 Rhode Island College
 Appalachian State University
- Robert Putnam (1984) Instructor-Electrical Installation and
 Maintenance-Prison Program
 North Carolina Vocational Textile School
 22 years electrical experience
 B.S., Western Carolina University
- Bill Quarles (1990) Instructor-Psychology and Religion/Counselor
 B.A., Baptist College
 M.R.E., Southeastern Seminary
 University of North Carolina
 M.A., Appalachian State University
 M.DIV., Erskine Theological Seminary
- Roger Randall (1979) Program Coordinator-Auto Body Shop
 National Institute Automotive Service Excellence Certification
 21 years experience in automotive service
 B.S., Western Carolina University
- Kay Rast (1982) Instructor-Microcomputer Systems Technology
 University of Georgia
 Georgia State University
 B.S., Gardner-Webb College
- Charles D. H. Reynolds (1982) Instructor-English
 B.A., Williams College
 M.A., University of Chicago
 Ph.D., University of Nebraska
 Northwestern University
 University of California at Berkeley
 Rhode Island School of Design
- Maxine Romney (1976) Instructor-Business Administration
 B.B.A., City University of New York
 M.Ed., Northeastern University
- Linda Ross (1978) Instructor-Business Administration
 LPN Diploma, A.A.S., Cleveland Technical College
 B.A., Limestone College
 M.S., North Carolina A and T University
 North Carolina State University
 Winthrop College

- JoAnn Schilling (1977)Department Head-Radiologic Technology
 R.T., Lewis-Gale Hospital School of Radiologic Technology
 B.G.S., University of South Carolina
 M.A.Ed., Western Carolina University
 Ed.S., Appalachian State University
- Danny Scruggs (1983)Department Head-Accounting,
 Microcomputer Systems Technology
 B.S, Appalachian State University
 M.A., Appalachian State University
 Cleveland Technical College
- Priscilla Sheppard (1992)Instructor-Nursing
 B.S.N., University of South Carolina at Columbia
 M.S.N., Medical College of Georgia
 Additional study at University of North Carolina at Charlotte, Lenoir
 Rhyne College
- Joseph M. Southards (1981) Department Head-Math and Science
 B.S., Gardner-Webb College
 M.A., Appalachian State University
- John Swofford (1977) Program Coordinator-Welding
 U.S. Army welding schools
 22 years experience in commercial welding
 B.S., Western Carolina University
- Barbara Taylor (1974) Department Head-Liberal Arts
 B.S., Mississippi University for Women
 M.A., Appalachian State University
- Ken Vassy (1977)Instructor-Electronics Engineering Technology
 Diploma-RCA Institute
 A.A.S., Cleveland Technical Institute
 B.S., Western Carolina University
- Bob G. Wells (1981) Program Coordinator-Machinist
 Military training school
 26 years experience as machinist
 A.G.E., Cleveland Technical College
 B.S., Western Carolina University
- Tom Whitaker (1993)Instructor-Welding, Prison Program
 Welding Diploma, Isothermal Community College
 Machine Shop Diploma, Isothermal Community College

INDEX

Academic Advising	30
Academic Regulations.....	22
Academic Placement Tests.....	30
Academic Programs	14
Degree Credit Programs.....	53
College Transfer Credit.....	13
College Transfer Programs	54
Associate of Arts Degree.....	56
Pre-Business	58
Pre-Education: Early Childhood/Elementary	61
Pre-Education: Intermediate/Secondary	65
Pre-Liberal Arts.....	67
Associate of Science Degree	70
Pre-Science	72
Associate of General Education Degree	75
Associate in Applied Science Degree Programs.....	79
Accounting	97
Administrative Office Technology.....	109
Associate Degree Nursing (RN).....	79
Business Administration	100
Communications Technology.....	88
Criminal Justice	91
Electronics Engineering Technology	123
Fashion Merchandising and Marketing.....	118
General Office.....	112
Industrial Management	106
Medical Office Technology.....	115
Microcomputer Systems Technology.....	103
Radiologic Technology	94
Real Estate (Technical Specialty).....	121
Diploma Programs	127
Air Conditioning-Heating-Refrigeration	128
Auto Body Repair	131
Automotive Mechanics	133
Residential Carpentry.....	135
Cosmetology (Certificate)	137
Electrical Installation.....	138
Food Service Specialist (Prison Program Only)	141
Industrial Maintenance	143
Machinist	146
Plumbing and Pipefitting (Prison Program Only)	149
Practical Nurse Education (LPN)	153
Welding	151

Academic Progress	24
Accreditation	10
Administration	210
Admissions	15
Admissions Procedures	17
Admissions-Provisional	17
Readmission	18
Advanced Placement	25
Alumni	32
Americans with Disabilities Act	12
Athletics/Sports	35
Audit	18
Basic Skills Programs	203
Board of Trustees	209
Calendar of Events	3
Career Center	32
Career Guidance	30
Children on Campus	11
Class Attendance Policy	23
CLEP	19
Cleveland Community College Foundation, Inc.	209
College Store (Bookstore)	42
College Workstudy Program	49
Communicable Disease Policy	34
Continuing Education	192
Course Descriptions	155
Course Load	25
Course Repeat Regulation	25
Credit by Exam	26
Credit for Experiential Learning	26
Crime Awareness/Campus Security Act	12
Dean's List-President's List	23
Developmental Courses	54
Drop-Add Period	22
Drug-Free Workplace Policy	33
Due Process	38
Financial Aid Information	45
Financial Information	41
Grading System	22
Graduation Fee	43
Graduation Honors	26
Graduation Requirements	27

History of the College.....	9
Housing	32
HRD Program	205
Inclement Weather	39
Job Placement.....	31
Learning Resources Center	207
Military Experience	19
Nondiscrimination Policy	12
Orientation	32
Outstanding Student Awards	27
Parking Regulations	43
Personal Counseling	30
Personnel of the College.....	210
Purpose	10
Quality Point Average.....	23
Release of Information from Records	31
Registration.....	21
Retention and Disposal of Records	30
Returned Checks.....	43
Servicemembers Opportunity Colleges	19
Sexual Harassment Policy.....	12
Small Business Center	206
Snackbar.....	37
Special Credit Classification.....	17
Student Activities Center	37
Student Behavior	37
Student Clubs.....	36
Student Code of Conduct	38
Student Government Association.....	37
Student Health.....	33
Students of the Quarter.....	39
Student Publications.....	35
Students' Rights	37
Student's Role in Decision Making	29
Student Services	28
Transcript.....	30
Transfer Credit Information	18
Veterans' Affairs.....	51
Visitors	11
Who's Who Among Students In American Junior Colleges.....	40
Withdrawal	18

NOTES



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