

Cleveland County Technical Institute

MASTER PLAN DEVELOPMENT

CLEVELAND COUNTY
NORTH CAROLINA

Shelby,
North
Carolina

General
Catalog
1976-77



- KEY:**
- PHASE 1 - EXISTING
 - PHASE 2 - 1980-81
 - PHASE 3 - 1985-86
 - ULTIMATE PHASE

NOTE

Cleveland County Technical Institute issues this catalog for the purpose of furnishing prospective students and other interested persons with information about the institution 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 Institute 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 Education, the Department of Community Colleges, or by local conditions may make some alterations in curriculums, fees, etc., necessary.

VISITORS

Visitors, and in particular prospective students, are always welcome at Cleveland County Technical Institute. The Student Services office will provide guide service for groups or individuals between 8:30 a.m. and 5:30 p.m. Monday through Thursday and 8:30 a.m. and 4:00 p.m. on Friday. The school is open until 10:00 p.m. Monday through Thursday 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
American Medical Association for Radiologic Technology

MEMBER INSTITUTION OF

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

FULLY ACCREDITED BY

Southern Association of Colleges and Schools
North Carolina State Board of Education

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GENERAL CATALOG

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CLEVELAND COUNTY TECHNICAL INSTITUTE
"An Equal Opportunity Educational Institution"



DIRECTORY OF CORRESPONDENCE

Inquires will receive prompt attention if addressed to the Administrative Offices below at Cleveland County Technical Institute, 137 South Post Road, Shelby, North Carolina 28150:

Academic Affairs	Dean of Instruction
Administrative Affairs	The President
Admission	Director of Admissions
Adult Basic Education	Director-Adult Basic Education
Entrance Procedures	Director of Admissions
Evaluation of Credits	Director of Admissions
Financial and Business Affairs	Vice President-Business Affairs
Gifts and Bequests	The President
High School Program	Dean of Continuing Education
Job Placement Service	Director of Student Placement
Non-Credit Courses	Dean of Continuing Education
Registration	Registrar
Student Financial Aid	Director of Financial Aid
Student Affairs	Vice President-Student Services
Transcripts	Registrar
Veteran's Affairs	Director of Veterans Affairs



GENERAL INFORMATION

CALENDARS

HISTORY

PURPOSE

ACCREDITATION

POLICY STATEMENTS

PERSONNEL

CURRICULUM PROGRAMS

CALENDAR OF EVENTS

1975-76

FALL QUARTER

September 23-24	Tuesday, Wednesday	Orientation and Registration
September 25	Thursday	First Day of Classes
October 2	Thursday	*Late Registration Ends
November 21	Friday	Last Day to Drop Courses
November 27-28	Thursday, Friday	Thanksgiving Holidays
December 12	Friday	Fall Quarter Ends
November 27-28	Thursday, Friday	Thanksgiving Holidays
December 12	Friday	Fall Quarter Ends
December 15	Monday	Graduation Rehearsal
December 16	Tuesday	Graduation Exercises

WINTER QUARTER

January 5-6	Monday, Tuesday	Orientation and Registration
January 7	Wednesday	First Day of Classes
January 14	Wednesday	*Late Registration Ends
March 2	Tuesday	Last Day to Drop Courses
March 23	Tuesday	Winter Quarter Ends

SPRING QUARTER

March 25-26	Thursday, Friday	Orientation and Registration
March 29	Monday	First Day of Classes
April 2	Friday	*Late Registration Ends
April 16-19	Friday, Monday	Easter Holidays
May 24	Monday	Last Day to Drop Courses
June 15	Tuesday	Spring Quarter Ends
June 17	Thursday	Graduation Rehearsal
June 18	Friday	Graduation

SUMMER QUARTER

June 29-30	Tuesday, Wednesday	Orientation and Registration
July 6	Tuesday	First Day of Classes
July 9	Friday	*Late Registration Ends
August 30	Monday	Last Day to Drop Courses
September 6	Monday	Labor Day Holiday
September 21	Tuesday	Summer Quarter Ends

*Late registration is permitted for new students only.

CALENDAR OF EVENTS

1976-77

FALL QUARTER

September 28-29	Tuesday, Wednesday	Orientation and Registration
September 30	Thursday	First Day of Classes
October 7	Thursday	*Late Registration Ends
November 24	Wednesday	Last Day to Drop Classes
November 25-26	Thursday, Friday	Thanksgiving Holidays
December 17	Friday	Fall Quarter Ends
December 17	Friday	Graduation

WINTER QUARTER

January 3-4	Monday, Tuesday	Orientation and Registration
January 5	Wednesday	First Day of Classes
January 12	Wednesday	*Late Registration Ends
March 1	Tuesday	Last Day to Drop Classes
March 22	Tuesday	Winter Quarter Ends

SPRING QUARTER

March 22-23	Tuesday, Wednesday	Orientation and Registration
April 4	Monday	First Day of Classes
April 8	Friday	*Late Registration Ends
April 11	Monday	Easter Holiday
May 30	Monday	Last Day to Drop Courses
June 17	Friday	Graduation
June 20	Monday	Spring Quarter Ends

SUMMER QUARTER

June 20-21	Monday, Tuesday	Orientation and Registration
July 7	Thursday	First Day of Classes
July 14	Thursday	*Late Registration Ends
September 1	Thursday	Last Day to Drop Courses
September 5	Monday	Labor Day Holiday
September 22	Thursday	Summer Quarter Ends

*Late registration is permitted for new students only.

CALENDAR OF EVENTS

1977-78

FALL QUARTER

September 27-28	Tuesday, Wednesday	Orientation and Registration
September 29	Thursday	First Day of Classes
October 6	Thursday	*Late Registration Ends
November 23	Wednesday	Last Day to Drop Courses
November 24-25	Thursday, Friday	Thanksgiving Holidays
December 16	Friday	Fall Quarter Ends
December 16	Friday	Graduation

WINTER QUARTER

January 3-4	Tuesday, Wednesday	Orientation and Registration
January 5	Thursday	First Day of Classes
January 12	Thursday	*Late Registration Ends
March 1	Wednesday	Last Day to Drop Courses
March 22	Wednesday	Winter Quarter Ends

SPRING QUARTER

March 21-22	Tuesday, Wednesday	Orientation and Registration
April 6	Thursday	First Day of Classes
April 13	Thursday	*Late Registration Ends
May 26	Friday	Last Day to Drop Courses
June 21	Wednesday	Spring Quarter Ends
June 22	Thursday	Graduation Rehearsal
June 23	Friday	Graduation

SUMMER QUARTER

June 21-22	Wednesday, Thursday	Orientation and Registration
July 6	Thursday	First Day of Classes
July 13	Thursday	*Late Registration Ends
August 31	Thursday	Last Day to Drop Courses
September 4	Monday	Labor Day Holiday
September 21	Thursday	Summer Quarter Ends

*Late registration is permitted for new students only.

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 \$500,00 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 new buildings were completed and placed in use for the Fall Quarter 1974.

PURPOSE

Cleveland County Technical Institute is a learning institution where persons of all educational levels, abilities, and interests have an opportunity to further their education. The Institute will offer low cost educational programs which will provide opportunities for growth in knowledge and development of skills to enable individuals to become gainfully employed, enhance their personal growth and exercise the privileges and responsibilities of citizenship. The ultimate goal is to assist persons to experience the fullest possible meaning in human life in a changing world of challenge and responsibility.

To fulfill this purpose the Institute will provide:

1. Educational programs at the general education, technical and vocational trade levels for initial employment qualifications, for upgrading and improving their skills in their present employment through curriculum credit courses and continuing education non-credit courses, and for improving the general educational level of persons served by the Institute.
2. Numerous programs and courses providing adults opportunities to continue their education through adult basic and adult high school levels as well as courses for avocational interest and personal growth.
3. Counseling and other guidance services to enable persons to identify programs suited to their abilities, interest, experience and goals and to perform effectively in the areas selected.

ACCREDITATION

Cleveland County Technical Institute is a member institution of the Department of Community Colleges of North Carolina and is accredited by the Carolina State Board of Education and the Southern Association of Colleges and Schools. All curriculum programs of the Institute have been approved for veteran benefits under the "G.I. Bill", or under legislation covering war orphans. The Institute is approved for the training and education of personnel who qualify under the provisions of the North Carolina Division of Vocational Rehabilitation, Department of Human Resources.

STUDENT CONDUCT

Self-discipline is an essential element of individual growth and development. Accordingly, students are expected to display the qualities of courtesy and integrity that characterize the behavior of mature ladies and gentlemen.

It is expected that students will be governed by such rules and regulations as may be established by the Institute.

The Institute does not permit the use of or possession of alcoholic beverages or narcotics in any form on the campus or at Institute sponsored functions. Violations of rules and regulations may subject the student to disciplinary measures or dismissal. (See Due Process Procedures in Student Services section of this catalog.)

VISITORS

Visitors need to receive permission from the main office prior to visiting classrooms, shops, or labs.

NIGHT OFFERINGS

The Institute 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 re-training.

The availability of credit courses at night allows the student who must work while attending school the opportunity to coordinate his 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 Institute reserves the right to cancel any class, day or night, for which there is insufficient enrollment.

NOTICE OF INSTITUTE REGULATIONS

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

NON-DISCRIMINATION POLICY

Cleveland County Technical Institute's Board of Trustees and Staff recognize the importance of equal opportunity in all phases of the Institute's operations and adheres to a policy of non-discrimination on the basis of race, color, sex, age, religion, national origin or other non-relevant factors. This policy applies 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.

BOARD OF TRUSTEES

APPOINTED BY THE CLEVELAND COUNTY COMMISSIONERS:

Jerry C. Ausband	1979
East Marion Street, Shelby, North Carolina	
James Cornwell	1981
Lattimore, North Carolina	
C. G. Poston	1977
Metcalf Road, Shelby, North Carolina	
John Schenck, III, Vice Chairman	1983
Cleveland Mills, Lawndale, North Carolina	

APPOINTED BY THE SCHOOL BOARDS OF CLEVELAND COUNTY:

Mrs. Mary Lou Barrier	1979
Route 3, Lawndale, North Carolina	
Carl J. Dockery, Jr.	1977
509 Crawford Street, Shelby, North Carolina	
Cecil Gilliatt, Chairman	1981
East Marion Street, Shelby, North Carolina	
Donald L. Parker	1983
800 Henry Street, Kings Mountain, North Carolina	

APPOINTED BY THE GOVERNOR OF NORTH CAROLINA:

Richard G. Kelly	1981
1223 Timberland Drive, Shelby, North Carolina	
Ralph W. Dixon	1977
Fallston, North Carolina	
H. Eugene LeGrand	1979
1000 West Blanton Avenue, Shelby, North Carolina	
Mrs. Betty M. Roberts	1983
25 Fanning Drive, Shelby, North Carolina	

Personnel Of The Institute (Full Time Status)

ADMINISTRATION

President James B. Petty
B.S., Vocational Education, Clemson University
M.A., Administration, Appalachian State University
Ed.D., Nova University

DEPARTMENT OF INSTRUCTION

Vice-President Alvin M. Sherlin
B.S., Western Carolina University
M.A., Appalachian State University
Ed.D., Nova University

Dean of Instruction Harry M. Matthews
B.S., High Point College
M.A., Appalachian State University
Ed.D., Nova University

Director of Occupational Education C. Edwin White
B.S., North Carolina State University
M.A., Appalachian State University

Dean of Continuing Education Dan T. Camp
A.A., Gardner-Webb College
B.S., Appalachian State University
M.Ed., University of North Carolina
Advanced study, Appalachian State University

Assistant Director, General Adult Education Donald E. Smith
B.S., Clemson University
M.A., Appalachian State University

Assistant Director, General Adult Education David M. (Pete) Stamey
B.S., North Carolina State University
M.D. Ed., Western Carolina University

Director, Adult Basic Education and Disadvantaged and Handicapped . Louise H. Laney
B.A., Meredith College
M.A. Ed., Western Carolina University

Director of Public Relations Thomas C. Poston
B.A., Limestone College
M.A., Appalachian State University
Advanced study, Western Carolina University

DEPARTMENT OF STUDENT SERVICES

- Vice-President for Student Services Noel R. Lykins
B.A., University of Louisville
B.D., Th.M., Southeastern Baptist Theological Seminary
Ed.D., North Carolina State University
- Counselor; Student Activities Georgianna Smevog
B.S., M.A. Ed., Western Carolina University
- Counselor; Recruitment Joe Hamrick
B.S., North Carolina State University
M.A., Appalachian State University
Ed.D. Candidate, North Carolina State University
- Director of Veterans Affairs; Job Placement James D. Kelly
B.A., Atlantic Christian College
M.Ed., UNC-Charlotte
- Counselor; Registrar Bobby L. Poston
A.A., Gardner-Webb College
B.A., University of North Carolina
M.A., Appalachian State University
Advanced study, Appalachian State University
- Counselor; Financial Aid Franklin J. Pullen
B.S., North Carolina A & T University
M.S., University of Rhode Island
Advanced study, Rhode Island College
Appalachian State University
- Counselor; Director of Admissions Adrian Wyrick
B.A., M.A., North Carolina Central University

BUSINESS OFFICE

- Vice-President For Business Affairs James E. Greene
A.A., Gardner-Webb College
B.S., Limestone College
M.A., Appalachian State University
- Bookkeeper Mrs. Jane B. Webb
Southern Business College
Cleveland County Technical Institute

Assistant Bookkeeper Mrs. Jean H. Francis
A.A.S., Cleveland County Technical Institute

Bookstore Manager Mrs. Daphine Ware
Southern Business College
A.A.S., Cleveland County Technical Institute
Diploma, National Association of College Stores
Additional study, Appalachian State University

Food Service Supervisor Don Eaker
Howard's Business College

LEARNING RESOURCES CENTER

Dean of Learning Resources, Librarian Haley C. Dedmond
A.A., Gardner-Webb College
B.A., Limestone College
M.A.L.S., Appalachian State University
Advanced study, University of North Carolina at Chapel Hill

Media Coordinator (Self-study Materials) Mrs. Rebecca K. Cook
A.A., Gardner-Webb College
B.A., Appalachian State University
M.Ed., University of North Carolina at Charlotte

Media Coordinator (Audiovisual Materials) Melvin Campos
B.A., Gardner-Webb College
M.A.Ed., Western Carolina University

Media Coordinator (Audiovisual Materials) Mrs. Dorothy Roark
B.S., M.A., Michigan State University
Ed.S., Appalachian State University

Media Coordinator (Print Materials) Rebecca Howard
B.S., M.A.L.S., Appalachian State University

Learning Resources Technician Mrs. Elizabeth Patrick
A.A.S., County Technical Institute
Appalachian State University

Learning Resources Technician Mrs. Beverly Ponder
Gardner-Webb College
A.S., Kings College

SECRETARIAL STAFF

Secretary-Continuing Education Carolyn M. Smith
A.A.S., Cleveland County Technical Institute

Secretary-Continuing Education Mrs. Anna L. Rankin
University of North Carolina at Greensboro
Carolina Commercial College

Secretary-Instruction	Mrs. Rebecca E. Kiser
A.A.S., Cleveland County Technical Institute	
Advanced study, Appalachian State University	
Secretary-Instruction	Miss Patricia Neal
A.A.S., Cleveland County Technical Institute	
Secretary-Learning Resources Center	Miss Nancy Ross
A.A.S., Cleveland County Technical Institute	
Secretary-Learning Resources Center.	Mrs. Pamela Vess
A.A.S., Cleveland County Technical Institute	
Secretary-President's Office.	Mrs. Frances Morgan
A.A.S., Cleveland County Technical Institute	
Secretary-Purchasing Clerk	Mrs. Carolyn Queen
Gardner-Webb College	
Secretary-Receptionist	Miss Louise Hamrick
A.A., Gardner-Webb College	
Secretary-Student Services.	Mrs. Cathy Hoyle
A.A.S., Cleveland County Technical Institute	
Secretary-Student Services	Mrs. Joyce G. Morgan
A.A.S., Cleveland County Technical Institute	
Secretary-Student Services	Mrs. Karen H. Smith
Western Carolina University	
A.A.S., Cleveland County Technical Institute	
Secretary-Student Services	Miss Bernice Wimbush
A.A.S., Cleveland County Technical Institute	
Secretary-Student Services	Miss LouAnn Greene
A.A.S., Cleveland County Technical Institute	

MAINTENANCE STAFF

Maintenance-Supervisor	Aaron A. Edwards
Maintenance	Marvin R. Philbeck
Custodian.	Jesse J. Lott
Custodian	James W. Marion
Housekeeping-Supervisor	Columbus Church
Housekeeper	Myrl Blanton
Housekeeper	Ethel Shell
Housekeeper.	Patricia Johnson

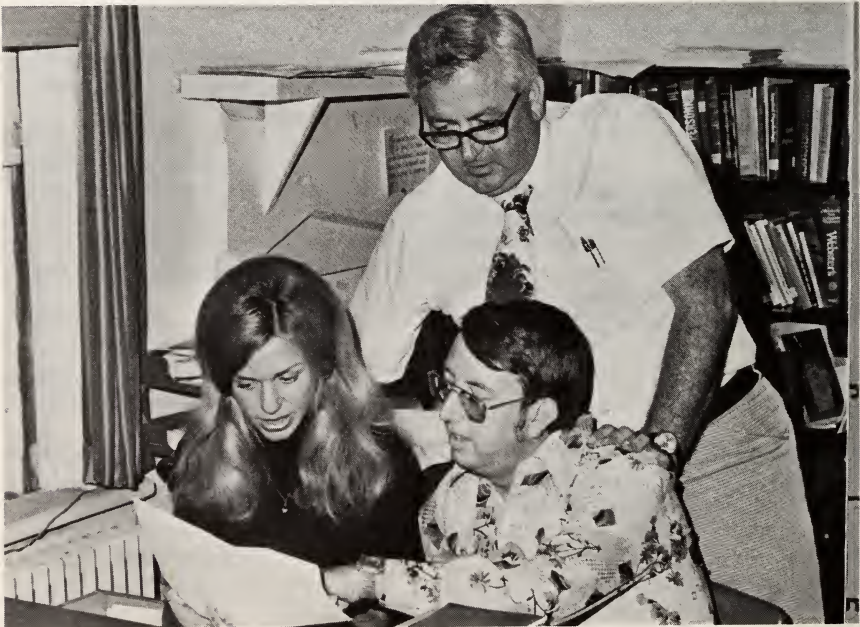
FACULTY

- Henry P. (Hal) Bryant, Jr. Instructor-General Education
B.A., Gardner-Webb College
- Lou Ann Buff. Teacher's Aide
B.A., Appalachian State University
Advanced Study, Appalachian State University
- Robert W. Buff Instructor-Allied Services
Diploma, Auto Body Repair, Cleveland County Technical Institute
- John P. Butler. Instructor-Industrial
B.S., Regis College
B.S., Ohio State University
M.A. Ed., Western Carolina University
- Robert J. Callahan Instructor-Industrial
A.A., Gardner-Webb College
B.S., Wake Forest University
Advanced Study, Appalachian State University
- Lallage Carouthers Instructor-Allied Health
R.N., Good Samaritan Hospital School of Nursing
- Ted F. Cash Instructor-General Education
B.S., North Carolina State University
M.A. Ed., Western Carolina University
- Gene C. Cox. Department Head-Allied Services
B.S., Western Carolina University
- Sandra A. Daniels. Instructor-Secretarial and Fashion Sciences
B.S., UNC-Greensboro
- M. Eugene Eskridge Department Head-Business
B.S., M.A., Appalachian State University
- James Walter Fite Instructor-General Education
B.S., M.A., Appalachian State University
Additional study, Indiana University, University of South Carolina
- Albert Patton Hamner Department Head-Industrial
B.A., University of Alabama
M.A. Ed., Western Carolina University
- J.O. Hamrick Instructor-Allied Services
U.S. Army Welding School
26 years experience in Commercial Welding
- Sandra W. Hardin Department Head-Secretarial
B.B.A., University of Houston and Fashion Sciences
M.A. Ed., Western Carolina University
- Charles Harding Instructor-Allied Services
B.S., Rutgers University

- Ann O. Harmon Teacher's Aide
B.S., University of North Carolina at Greensboro
- Walter Robert Henningson Instructor-Industrial
B.S., Siena College
M.S., Rensselaer Polytechnic Institute
- Everett Hollifield Instructor-Allied Services
General Motors Training School
Dupont Training Center
35 years experience in Auto Body Repair
- Bobby Hoover Instructor-General Education
B.A., University of North Carolina at Chapel Hill
M.A., University of North Carolina at Charlotte
Advanced study, Appalachian State University
- Betty Lou Hunter Instructor-Allied Health
U.S. Navy O.R. Technician and Hospital Corpsman Schools
R.T., Catawba Memorial Hospital
- David James Instructor-Allied Services
General Motors Training School
U.S. Army Mechanics School
Several Company sponsored schools
35 years experience in Automotive Mechanics
- William S. Jones Instructor-Allied Services
16 years experience in Automotive Mechanics
- John Kilby Instructor-Business
B.S., M.A., Appalachian State University
Advanced study, North Carolina State University
- Wilbur R. McBride Instructor-General Education
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 Instructor-Business
A.A., Gardner-Webb College
B.A., Carson-Newman College
M.A., Appalachian State University
- Dorothy P. McIntyre Department Head-General Education
A.A., Gardner-Webb College
B.A., Limestone College
M.A., University of North Carolina at Charlotte
Ed. S., Appalachian State University

- Ronald McKinney Department Head-Public Service
 A.A.S., Central Piedmont Community College
 A.B., Catawba College
 Advanced study, University of South Carolina
- Frank Martin Instructor-Allied Services
 Gaston College
- John B. Martin Instructor-Industrial
 A.A., Gardner-Webb College
 B.S., M.A., Appalachian State University
 Advanced study, North Carolina State University
- Joyce Meade Instructor-Secretarial and
 B.S., University of North Carolina at Greensboro Fashion Sciences
 M.A., Winthrop College
- David C. Mobley Instructor Public Service
 A.A.S., Central Piedmont Community College
- James B. Newsome, II Instructor-Coordinator-Allied Health
 R.T., North Carolina Baptist Hospital School of Radiologic Technology
- Molly F. Pople Instructor-Business
 B.S., Mississippi College
 M.A. Ed., Western Carolina University
- Susan Robillard Instructor Public Service
 B.A., Michigan State University
- Sherry Royster Instructor-Allied Health
 R.T., Charlotte Memorial Hospital School of Radiologic Technology
- Wylie Sanders Instructor-Allied Services
 Armed Forces and Electronics Industries Training Schools
 40 years experience in Radio and TV Servicing
- Iverson Smith Instructor-Industrial
 B.S., North Carolina State University
 M.A. Ed., Western Carolina University
- Ruth Stamey Department Head-Allied Health
 A.A., Lenoir Rhyne College
 R.N., Shelby School of Nursing
- Elwin Stillwell Media Technician-Teacher's Aide
 Brevard College
- Barbara Taylor Instructor-General Education
 B.S., Mississippi State College For Women
 M.A., Appalachian State University
- Evans Thompson Instructor-Business
 B.A., Warren Wilson College
 M.A., Appalachian State University

- Howard Lee Wacaster Instructor-Allied Services
Diploma, Electrical Installation and Maintenance, Cleveland County Technical
Institute.
- Hugh L. Walker, Jr..... Instructor-Industrial
B.S., North Carolina State University
M.A. Ed., Western Carolina University
- Bobby Wiggins Instructor-Industrial
A.A., Gardner-Webb College
North Carolina State University
- Katherine Williams Instructor-Allied Health
A.A., Gardner-Webb College
- Rosalyn D. Wilson Instructor-General Education
B.S., Fayetteville State University
- John Henry Winston, III Instructor-General Education
B.A., Fisk University
Advanced Study, Fisk University
- Madge Wray Instructor-Secretarial
B.S., North Carolina A & T University
M.A., Winthrop College
- Ronald Wright Instructor-General Education
A.A., B.A., Gardner-Webb College
M.A., Western Carolina University
Advanced study, Appalachian State University



CURRICULUM PROGRAMS OF STUDY

***ASSOCIATE IN GENERAL EDUCATION DEGREE**

ASSOCIATE IN APPLIED SCIENCE DEGREE PROGRAMS:

***ACCOUNTING**

**AGRICULTURAL SCIENCE AND MECHANIZATION
(NIGHT SCHEDULE ONLY)**

***BUSINESS ADMINISTRATION**

***EXECUTIVE SECRETARIAL SCIENCE**

***FASHION MERCHANDISING AND MARKETING TECHNOLOGY**

***GENERAL OFFICE TECHNOLOGY**

***INDUSTRIAL MANAGEMENT TECHNOLOGY**

***INDUSTRIAL SAFETY & HEALTH TECHNOLOGY**

***MEDICAL SECRETARIAL SCIENCE**

***POLICE SCIENCE TECHNOLOGY**

***POSTAL SERVICE TECHNOLOGY**

RADIOLOGIC TECHNOLOGY (DAY SCHEDULE ONLY)

DIPLOMA PROGRAMS

***AIR CONDITIONING AND REFRIGERATION**

***AUTO BODY REPAIR**

***AUTO MECHANICS**

***ELECTRICAL INSTALLATION AND MAINTENANCE
PLUMBING AND HEATING (NIGHT SCHEDULE ONLY)
PRACTICAL NURSING (DAY SCHEDULE ONLY)**

***ELECTRONICS SERVICING**

***WELDING TRADE**

***CURRICULUMS OFFERED IN BOTH DAY AND NIGHT SCHEDULES.**

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



STUDENT SERVICES INFORMATION

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ADMISSIONS INFORMATION

POLICY AND PROCEDURE

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

As a part of the admissions process for curriculum students, placement tests may be given for guidance purposes, transcripts of previous education are required, and a personal interview is held with each student prior to his placement in a program of instruction.

Application for admission forms and detailed information on programs of instruction offered may be secured by writing to: Student Services Office, Cleveland County Technical Institute, 137 South Post Road, Shelby, North Carolina 28150.

GENERAL REQUIREMENTS

Admission is available to persons who are eighteen years of age or older. In case a person is less than eighteen and a high school graduate, he is considered to have met the minimum age requirement.

High School graduation or its equivalent is ordinarily required for admission to curriculum programs. However, exceptions may be made in certain circumstances. Adult education and Learning Laboratory courses are offered for students who need to strengthen their general education or eliminate deficiencies.

A person is expected to be in an acceptable condition of physical and mental health to be admitted. A general medical examination may be required for some programs.

The Institute reserves the right to refuse admission to a student if it appears that such action is in the best interests of the Institute and/or the student. Any student so refused admission may appeal this action through due process.

Specific procedures for admission to continuing educational programs will be found under that section of this catalog.

ADMISSION REQUIREMENTS FOR ALL CURRICULUM PROGRAMS

1. Be at least eighteen years of age, or the applicant's high school class must have graduated.

2. Take local placement test if requested by admissions office. These tests are used to assist the applicant in the selection of a program of study suited to both his interest and general capabilities and in registering for the appropriate sections in English and Mathematics.
3. Be in acceptable condition of physical and mental health.*
4. Have a personal interview with the Director of Admissions and/or the Department head for applicants to allied health programs.
5. High School graduation or its equivalent is ordinarily required for curriculum programs. However, exceptions may be made in certain circumstances where other evidence is available to indicate the applicant can profit from the program for which the person has applied. (Equivalency certificates from states other than North Carolina held by applicants must meet North Carolina requirements: minimum of 225 points).

*A complete physical and dental examination is required for Practical Nurse applicants; a complete physical examination is required for Radiologic Technology applicants.

ADMISSION PROCEDURE FOR ALL CURRICULUM PROGRAMS

1. Submit completed application and medical history form.
2. Have transcripts of all previous education mailed to the Institute.
3. Have counseling interview (after taking the test battery if this has been requested by the admissions office).
4. Receive a letter of acceptance from the Director of Admissions.

PROVISIONAL ACCEPTANCE

An applicant for admission who has not met the requirements listed above of submission of transcripts of previous education, evidence of high school graduation or equivalency, and/or testing before the beginning of the quarter for which entry is desired, may be granted provisional acceptance for one academic quarter. All admission requirements must be met within that quarter to be eligible to register for the following quarter.

SPECIAL STUDENT CLASSIFICATION

Special 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. They will be limited to a maximum of ten credit hours in one quarter and a cumulative total of fifteen credit

hours before declaring a particular curriculum and meeting normal admission requirements for that curriculum. Students enrolled on this basis must do so through arrangement with the Student Services Office.

COUNSELING

The Student Services Department includes counseling services provided by trained personnel. These services are available to students from preadmission to job placement following graduation.

The counselors are willing to help students with any problem that arises. It is a professional staff that is bound by a code of ethical standards, one of which is the confidentiality of each meeting. Students may come by the counseling office with educational, vocational or personal problems. The counselors are willing to help you explore the alternatives to any problem you may have; thereby, helping you reach a decision on your own. No one has all the answers, with counselors being no exception, but they can be a sounding block for you to develop self understanding and self acceptance to face the realities of life.

The entire counseling staff invites you to visit any time and requests you let them help you in any way they can.

ACADEMIC ADVISING

To assist students in their academic programs, the Institute has established a system of academic advising wherein the student is assigned to a faculty member or staff member who serves as his advisor. The advisor helps to plan the student's academic program, particularly during pre-registration and registration periods; keeps a record of his progress; and is available throughout the year for additional advising.

TESTING

Counseling and testing services are available for students to aid them in determining special interests or abilities. Interest tests can be given at the request of the individual student who may be uncertain of the appropriateness of his program or who wishes to utilize this service during pre-registration to aid him in determining his initial choice of programs. The testing services will also be used to insure the homogeneity of classes.

THE OFFICIAL ACADEMIC RECORD (TRANSCRIPT)

A report of grades earned in each course is sent to the student at the end of each term. A student may be placed on probation or suspended from his program of studies if his work is unsatisfactory.

An official record of all the student's courses, credits, and grades earned (transcript) is kept in the Registrar's office. The student should maintain a record of his courses, credits, and grades each term and check from time to time to see that his record agrees with that of the Registrar. The record may also help him determine his eligibility for any activity that requires him to meet specific scholastic standards. Copies of the official record are available to the student upon request.

RELEASE OF INFORMATION FROM STUDENT OFFICIAL ACADEMIC RECORDS

The Institute 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 Institute. The following general principles and procedures govern the release of information from student official records:

1. Written consent of the student concerned is required before a transcript or information from his or her official record may be released. Exceptions to the above statement are outlined below:
 - a. The Registrar may release transcripts or information from official records including reports of academic standing to academic and administrative members of the Institute staff whose responsibilities require this information and to other educational institutions for transfer purposes.
 - b. The Registrar may honor appropriate requests for public or directory information from student records which includes the following: student's name, address, telephone number, date and place of birth, major field of study, participation in officially recognized activities and sports, weight and height of members of athletic teams, dates of enrollment, degrees and awards received, and the most recent previous educational agency or institution attended by the student.
 - c. The Registrar may release information pertaining to honor achievements for publication.
2. A student's identification photograph is available to Institute personnel only.
3. 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 his official record upon request.

4. 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 Institute.

STUDENT ACTIVITIES

All students enrolled for seven or more credit hours are required to pay a student activity fee of \$7.00 each quarter. The fee covers the cost of a school annual and various student activities which will be arranged in consultation with student representatives. Clubs, sports, and publications work closely with student activities and the Student Advisory Committees. There is a day committee to represent the day student body and a separate night committee to represent the night student body.

FINANCIAL AID—APPLICATION FOR FINANCIAL AID

Any student who wants to apply for financial aid should contact the Financial Aid officer in the Student Services Office and request the proper application forms. The Institute uses two forms for applying for the college work-study programs.

FINANCIAL AID—PROCEDURES

1. The applicant must apply and be accepted for enrollment for the term before receiving financial aid. (Applications for BEOG may be processed at any time.)
2. The applicant must submit a Parent's Confidential Statement to the financial aid office.
3. After the Financial Aid committee reviews the applicant's PCS, he will be notified of its decision of approval or disapproval.
4. If the applicant is approved for financial aid, he will be asked to complete a Financial Aid Questionnaire to determine the amount of aid he will receive.
5. As soon as the FAQ is evaluated, the applicant will be notified of the amount of aid he will receive.

FINANCIAL AID—REVOLVING LOAN FUNDS

Civitan Revolving Loan Fund—The Civitan Club of Shelby donates funds each year to loan students so they can meet their tuition and book fees at Cleveland Tech.

General Revolving Loan Fund—Private individuals, civic clubs, and industries contribute to this fund to help students meet their school expenses.

FINANCIAL AID—WORK-STUDY PROGRAMS

College Work-Study—Students from low-income families who need a part-time job to help pay their college expenses are eligible for employment at the technical institute under the federal work-study program. A student must be at least a half-time student to participate in this program.

Vocational Work-Study—Students who need help in meeting school expenses may participate in the State's vocational work-study program. The student must be at least eighteen years of age and less than twenty-one years of age at the date employment commences.

(These programs are limited by funds and jobs available at a given time.)

FINANCIAL AID—SPECIAL FINANCIAL AID PROGRAMS

Basic Educational Opportunity Grant Program—The BEOG is a Federal Aid program designed to provide financial assistance to those who need it to attend post high school educational institutions. The amount of your Basic Grant is determined on the basis of your own and your family's financial resources. The Basic Education Opportunity Grant Award is a grant and, unlike a loan, does not have to be repaid. An application can be obtained from the Student Services Offices, your high school counselor, or any Federal agency.

G. I. Bill—Veterans who were discharged from military service under conditions other than dishonorable and who were on active duty for a continuous period of 181 days or more after January 31, 1955 are eligible for educational benefits. Information about eligibility may be obtained from the Veteran's Representative in the Student Services Office at Cleveland County Technical Institute.

Survivor's Benefits—Applicants who are children of deceased or disabled veterans may be eligible for financial aid. Information about eligibility may be obtained from the Veteran's Representative in the Student Services Office at Cleveland Tech.

Vocational Rehabilitation—The state of North Carolina provides financial assistance for residents who have permanent handicaps. Information about eligibility may be obtained from the Vocational Rehabilitation counselor, 821 West Warren Street, Shelby, North Carolina 28150.

Comprehensive Employment Training Act—under the Comprehensive Employment Training Act, Cleveland Tech works with the Employment Security Office to train people not able to obtain training through their own means. Cleveland Tech operates a class size stenography program, a greenhouse program, and also works with individual referral students who enter the school's regular curriculum.

Nurses' Auxiliary Scholarships—The Nurses' Auxiliary of Cleveland Memorial Hospital provides several scholarships each year for nursing students. Any student entering the Practical Nursing Program may obtain information about the scholarships in the Student Services Office.

JOB PLACEMENT

Cleveland County Technical Institute maintains a placement service to help interested students and alumni find employment. The job placement office tries to help students find part-time employment while in school and full-time employment after graduation.

STUDENT HOUSING

The Institute does not have dormitory accommodations available. Any student who needs to locate housing in Shelby should contact the local Chamber of Commerce or local Realtors.

STUDENT HEALTH

The Institute does not provide medical, hospital, or surgical services nor does the Institute 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.

Students with 7 or more credit hours carry accident insurance which is made available through the student activity fee.

ORIENTATION

To promote rapid and sound adjustment to the educational philosophy, program, and standards of the Institute new students are expected to participate in an orientation program. The objectives of the orientation program are:

1. To acquaint the new student with the Institute, its facilities, resources, services, activities, policies, and organizations.
2. To assist him in taking full advantage of the opportunities offered by the Institute.
3. To help him in developing effective approaches to the problems frequently encountered by beginning students.

STUDENT CLUBS

Student clubs may be organized with the approval of the Student Advisory Committee and the President. These may be related to vocational goals of students or civic service organizations or special interest areas of students.

DUE PROCESS PROCEDURES ON GRIEVANCES

1. A student wishing to appeal any decision affecting his status at the Institute 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 of the Institute 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 the written appeal and the forwarded recommendations of the President and Due Process Committee.



FINANCIAL INFORMATION

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FINANCIAL INFORMATION

Cleveland County Technical Institute 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 minimum. Tuition cost is set by the State Board of Education and is subject to change.

TUITION

Current rates for all general education, technical or vocational curriculum students:

North Carolina Students:

Full-time (12 or more credit hours)	\$33.00 per quarter
Part-time (less than 12 credit hours)	\$2.75 per quarter hour credit

Out-Of-State Students:

Full-time (12 or more credit hours)	\$162.50 per quarter
Part-time (less than 12 credit hours)	\$13.50 per quarter hour credit

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 Institute.

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 the 12 months immediately prior to his classification as a 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 purposes of maintaining a 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 knowing 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 prescribed in the curriculum he is pursuing. An average cost of books will vary from \$30 to \$75 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 maintained in effect by the Institute. The cost of the insurance is approximately \$4.00 per student. Students who are taking seven or more credit hours in a quarter will pay the student activity fee which covers the insurance cost. Students enrolled for less than seven credit hours may pay the \$4.00 insurance fee the first quarter they are in attendance during the school year and be covered by the policy.

CHARGE FOR RETURNED BANK CHECKS

There will be a charge of \$5.00 assessed any student who gives the Institute 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 Institute cancel a class or program.

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. The fee covers the cost of graduation (cap and gown, diploma or degree with case).

PARKING (MOTOR VEHICLE AND TRAFFIC REGULATIONS FOR CLEVELAND COUNTY TECHNICAL INSTITUTE)

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 County Technical Institute.

- A. In the following information the term campus shall refer to that property operated by Cleveland County Technical Institute and those other properties when used by CCTI 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 may receive end-of-quarter grades until he has clearance from Campus Security Committee and paid all fines.

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 left rear bumper. 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

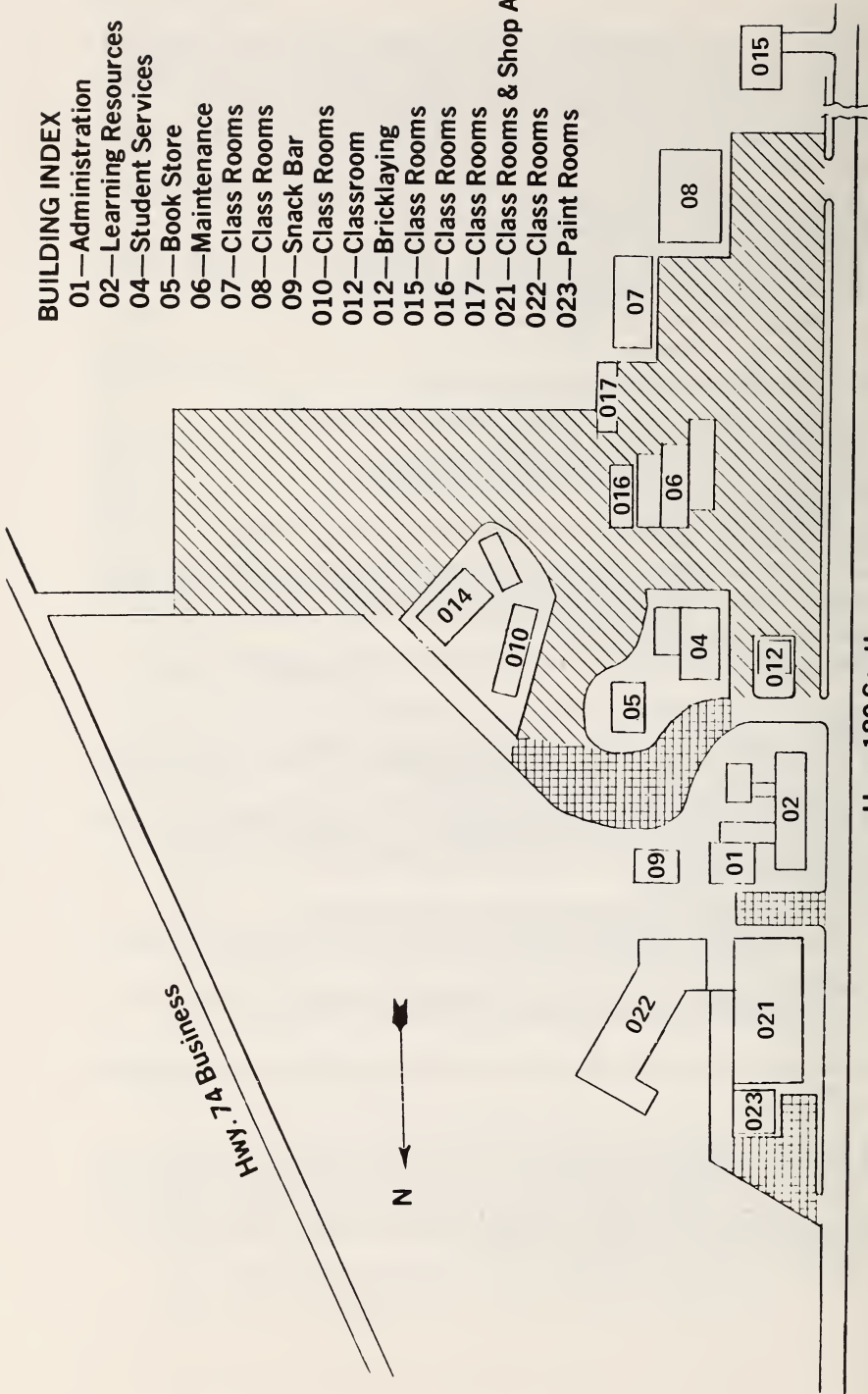
- A. It shall be the responsibility of the Campus Security Committee to recommend traffic regulations to the President of the Institute for presentation to the Board of Trustees for approval.
- B. Enforcement of regulations shall be administered by the Campus Security Committee.
- C. Those students assessed 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 area 3.00
 - 3. Parking by backing vehicle into area 1.00
 - 4. Double parking or blocking a legally parked vehicle 3.00
 - 5. Speeding in excess of 10 mph 3.00
 - 6. Failure to yield right-of-way to pedestrian 3.00
 - 7. Reckless driving 5.00
- E. This Institute reserves the right to remove any illegally parked vehicle by an Institute 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 his vehicle.



IV. Redress

- A. A committee shall be made to exist which will be known as the Campus Safety 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 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 Advisory Committee, 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 County Technical Institute.

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-  Student Parking
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Hwy. 180 South

CLEVELAND TECH CAMPUS MAP AND PARKING AREAS



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SCHEDULE CHANGES

At the beginning of every quarter there is a period for students to change schedules and to drop and add courses. The time limit for such changes is one week from the first day of classes. No student is to make a schedule change without first being cleared through his Academic Advisor and the Registrar. After this change period courses may be dropped but courses may not be added. Courses dropped (within the last three weeks of a quarter) will result in a grade of no credit (NC) being entered on the student's transcript.

GRADING SYSTEM

Students will be evaluated on the achievement of technical skills, ability to work under supervision, interest in work, initiative, and ability to apply related information.

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

<i>Letter Grade</i>	<i>Numerical Grade</i>	<i>Explanation</i>	<i>Quality Points</i>
A	93-100	Excellent	4 Quality points per qtr./hr.
B	85-92	Good	3 Quality points per qtr./hr.
C	77-84	Average	2 Quality points per qtr./hr.
D	70-76	Below average	1 Quality point per qtr./hr.
NC	Below 70 or work not completed	(No Credit) Non-Completion of course requirements	0 Quality point per qtr./hr.
I		Requirements may be completed in next qtr.	0 Quality point per qtr./hr.
W		Official Withdrawal	0 Quality point per qtr./hr. (No credit hours earned)
CE		Credit by Examination	0 Quality point per qtr./hr.
Y		Audit	0 Quality 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 a no credit (NC) 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 (quality point average) is a general message of the quality of a student's work. The QPA is determined by dividing the total number of quality points earned by the total number of quarter hours attempted (excluding I, W, CE, and Y grades).

HONORS

Students who receive a 3.5 QPA at the end of a quarter will be on the Honors List for that quarter. To be eligible for the Honors List a student must be enrolled for at least 7 quarter hours credit and receive no grade lower than C on any course.

CLASS ATTENDANCE POLICY

Absences are a serious deterrent to good scholarship; it is impossible to receive instruction, obtain knowledge or gain skill when absent. Some absences may be excused when caused by personal illness, death in the immediate family, or unexpected emergencies (considered on an individual basis by your instructor).

A student, who, during a quarter, incurs in any course one 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 assignments. 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 through due process.

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 point average is required for graduation.

ASSOCIATE DEGREE PROGRAMS

<i>Cumulative Quarter Hours</i>	<i>Minimum Grade Point Average</i>
0-24	1.20
25-48	1.40
49-72	1.60
73-96	1.80
	(2.00 for Gen. Edu. Degree)
97 or more	2.00

VOCATIONAL DIPLOMA 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.* If he attains the minimum for his credit hour total by the end of his probation quarter he will be taken off probation—if he does not reach that minimum in his probation quarter he will be suspended from his program for at least one school quarter.

Re-entry in cases of suspended students is handled on an individual basis, but will often result in an extended delay due to the course sequence of his curriculum. Re-entry is affected by applying under the same procedures as an original application.

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

*In certain specialty programs (such as Practical Nursing) every major specialty course must be passed each quarter before enrolling for the following quarter.

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 supervisor 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 are as follows: (1) For diploma vocational programs—full-time attendance equals 12 or more credit hours **and** 22 or more clock hours per week; 3/4 time attendance equals 9-11 credit hours **and** 16-21 clock hours per week; 1/2 time attendance equals 6-8 credit hours **and** 11-15 clock hours per week; (2) For degree programs—full-time attendance equals 12 or more credit hours per quarter; 3/4 time attendance equals 9-11 credit hours per quarter; 1/2 time attendance equals 6-8 credit hours per quarter. (For less than 1/2 time attendance in any program the VA does not pay a monthly allowance but will only pay the actual cost of tuition and books.)

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.

TRANSFER CREDIT TO OTHER SCHOOLS OR COLLEGES

There are an increasing number of schools and colleges who are accepting course work completed in a technical program or in the general education program at CCTI for credit toward the Bachelor's Degree. Most of these colleges consider each applicant and his 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 do desire to continue their education after graduation from CCTI there are expanding opportunities to do so.

TRANSFER RESPONSIBILITY

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

The acceptance of courses taken at Cleveland County Technical Institute is determined solely by the institution to which the student transfers.

The student planning to transfer will have less difficulty in completing his transfer satisfactorily if he follows these steps:

1. Decide early which senior college to attend. Contact the college for recommendations concerning appropriate courses.
2. Obtain a current copy of the catalog of that college and study its entrance requirements.
3. Confer with his faculty advisor at CCTI about his transfer plans.
4. Check carefully at least a quarter or two before transfer to be sure that all necessary requirements are being met and all necessary steps are taken.

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

COURSE REPEAT REGULATIONS

A student who does not complete a required course in his major curriculum must repeat the course until he does complete it to be eligible to graduate with the Associate Degree or the diploma.

When a course is repeated, the first attempt will be omitted from computation of minimum graduation requirements and only the second grade will count.

REQUIREMENT 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 General Education degree, 108 credit hours for the Associate in Applied Science degree, or 60 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 check list which is to be submitted to the Registrar. The Registrar will make a complete check of the student's record and either notify the Vice-President for Student Services that everything is in order or notify the student through the advisor that it is not.
4. A graduation fee of \$15.00 is required at the time of submission of the graduation check list.
5. Fulfill all financial obligations to the Institute and secure clearance from the Library.

6. Be present for graduation exercises which are held at the end of the spring and fall quarters each year. Exceptions to this requirement, in case of unavoidable absence, may only be granted by the Vice-President for Student Services.
7. All prospective graduates must complete one full quarter of work (at least 12 credit hours) at this Institute before graduation.

CREDIT BY PROFICIENCY EXAMINATION

A student may be allowed credit toward graduation for past schooling or work experience through proficiency examinations. The student should confer with his Faculty Advisor to see if he qualifies 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.

WITHDRAWAL

Students desiring withdrawal from the Institute should contact the Office of Student Services to obtain the necessary forms and procedures for official withdrawal. A student who fails to withdraw officially will receive a grade of "NC" for each course in which he is enrolled. Withdrawal with a grade of W will be allowed except during the final three weeks of a quarter. After that point a grade of NC will be assigned.

TRANSFER CREDIT

Cleveland County Technical Institute permits admission with transfer credit for students from member institutions of the North Carolina Department of Community Colleges and other reputable institutions.* Content of such courses must closely parallel those for which credit is sought at the Institute. Each application for transfer of credit will be evaluated according to the individual situation. Transfer courses will transfer at the grade level received in the other institution. Quality points earned at the other institution do not transfer. Credits older than ten years will not be accepted in transfer.

*Provided the transfer student is eligible to return to the last institution he attended.

TRANSFER OF CREDIT WITHIN CLEVELAND COUNTY TECHNICAL INSTITUTE

Credit earned in any institutional degree program may be credited toward a 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 his original enrollment or the new requirements.

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

1. Submit an application stating the desired curriculum and quarter of entrance.
2. Meet the admission requirements for the desired program as stated in the school 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.

SCHEDULE OF CURRICULUM CLASSES

Shortly before registration each quarter, the Institute will announce a master schedule of courses to be offered. This will generally include those courses required for a student to complete the work as outlined in the catalog for his curriculum. In some instances, however, it will be necessary for the Institute to rearrange the sequence of course offerings. Every effort will be made to enable a student to complete his program in the minimum possible time. Whenever practical, make-up classes and special courses will be offered to those needing them. Using this master schedule of courses, each student should consult with his advisor prior to registration to arrange a class schedule to meet his own particular requirements.

READMISSION

Any student who officially withdraws from the Institute and later wishes readmission must 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 he can work out an appropriate course schedule.

A former student will not be readmitted until he has met all former and current expenses obligations to any program or activity under the administrative jurisdiction of the Institute.

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





ASSOCIATE IN GENERAL EDUCATION

DEGREE PROGRAM

Associate in General Education Degree Curriculum

PURPOSE OF CURRICULUM

The General Education Curriculum has two main purposes. One is to provide the student with two years of general education and interest type course work culminating in an Associate Degree in General Education. The second purpose is to provide the student with freshman and sophomore level course work that will be transferable to many colleges and universities. The Institute will have on file agreements with some institutions concerning transferability. If the student is interested in transferring to a different institution than one of these the student should contact the admissions office of the college in question to determine possible transfer status. Transfer credit is always the prerogative of the receiving institution. If transfer of credit is the student's purpose, the student and his advisor should outline a program of study to correspond to the requirements of the college of interest.

Courses included in the General Education curriculum are those which are usually the entire requirements of the freshman and sophomore program in four-year colleges of arts and sciences (exclusive of foreign languages required by some colleges).

ADMISSION REQUIREMENTS

The minimum admission requirement is high school graduation (diploma or state high school equivalency certificate). Students who do not meet all academic requirements may be granted provision admission for one quarter, after which they must either have met entrance requirements or be classified as non-degree students. The Institute offers an Adult High School Diploma Program and administers the High School Equivalency Examination (GED).

THE CURRICULUM

The Specified 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. A student may wish to place heavy emphasis on courses in business, technical, or social science areas, depending on his educational or occupational plan.

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

English and Literature	12 Quarter Hours
Fine Arts	8 Quarter Hours
Social Science and History	24 Quarter Hours
Science and Mathematics	20 Quarter Hours

This introduction into the broad fields of knowledge permits the student to find himself and clarify his life goals. With his background he is able to intelligently choose additional course work in terms of his own interests and social needs.

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

REQUIRED COURSES FOR GRADUATION

	Course Title	Hours Class	Per Week Lab	Credit Hours
ART 101	Art Appreciation*	4	0	4
BIO 101	General Biology I	3	2	4
BIO 102	General Biology II	3	2	4
BIO 103	General Biology III	3	2	4
ENG 101	English Grammar and Composition I	4	0	4
ENG 102	English Grammar and Composition II	4	0	4
ENG 105	Masterpieces of World Literature	4	0	4
ENG 107	Introduction to Theatre*	4	0	4
HIS 101	World Civilization I	4	0	4
HIS 102	World Civilization II	4	0	4
HIS 103	World Civilization III	4	0	4
MAT 110	Principles of Mathematics I	4	0	4
MAT 111	Principles of Mathematics II	4	0	4
MUS 101	Music Appreciation*	4	0	4
PSY 101	Introduction to Psychology	4	0	4
SOC 101	Introduction to Sociology	4	0	4
SSC 201	Social Science Survey	4	0	4

Total Credit Hours Required Courses 64

*Choose two of these three courses.

Elective Hours 32

Total Credit Hours Required to Graduate . . . 96

ELECTIVES (RECOMMENDED FOR TRANSFERABILITY):

BIO 201	Zoology	3	2	4
BIO 202	Botany	3	2	4
DRA 105	Theatrical Performances	4	0	4
ECO 102	Economics I	4	0	4
ECO 104	Economics II	4	0	4
ECO 108	Consumer Economics	4	0	4
ENG 100	Reading Dynamics	4	0	4
ENG 116	Journalism I	4	0	4
ENG 117	Journalism II	4	0	4
ENG 133	Composition and Documentation	4	0	4
ENG 203	Creative Writing	4	0	4
ENG 204	Fundamentals of Speech	4	0	4
ENG 205	Major American Writers	4	0	4
ENG 207	Southern American Authors	4	0	4
MAT 112	Introduction to Metrics	4	0	4
MAT 113	Elementary Statistics	4	0	4
NSC 102	Environmental Studies	4	0	4
PHI 202	Introduction to Philosophy	4	0	4

POL 102	Government—National	4	0	4
POL 103	Government—State and Local	4	0	4
POL 204	Great Decisions—Foreign Policy	4	0	4
PSC 103	The Art of Self Defense	4	0	4
PSY 103	Adolescent Psychology	4	0	4
PSY 201	Abnormal Psychology	4	0	4
PSY 202	Group Processes	4	0	4
SOC 202	Marriage and the Family	4	0	4
SOC 203	Contemporary Issues	4	0	4
SOC 208	Black Studies	4	0	4
SSC 205	American Institutions	4	0	4

OTHER ELECTIVES (WHICH MIGHT OR MIGHT NOT TRANSFER):

Any course from the associate in applied science degree curriculums with approval of department head.

COURSE DESCRIPTIONS

Each course listing begins with three capitalized letters and a number. This is the abbreviation of the course name and the number is the position in the curriculum. Following the number is the name of the course and a brief description of the course. Following the description may be a PR or CR or both. This means that there is a course that is a prerequisite or a corequisite. The numbers in parenthesis indicate the number of lecture and laboratory hours. The last number indicates the number of credit hours for completion of the course. The courses are listed alphabetically by the abbreviation of prefix letters.

ART 101—Art Appreciation: An introduction to fundamental elements and principles of creative art expression emphasizing composition, design, shape, value styles, and movements. (4-0) 4

BIO 101—General Biology: An introduction to biological principles including survey of living organisms and their relationship to their environment. (3-2) 4

BIO 102—General Biology II: A comprehensive study of the animal kingdom, with special emphasis on morphology, anatomy and physiology. (3-2) 4.

BIO 103—General Biology III: A comprehensive study of the plant kingdom with special emphasis on morphology, anatomy and physiology. (3-2) 4.

BIO 201—Zoology: A comprehensive study of the animal kingdom including anatomy, physiology, taxonomy, and ecology. Special emphasis will be placed on the invertebrates, and local animals. Prerequisite: BIO 101, 102, 103, or permission of instructor. (3-2) 4.

BIO 202—Botany: A comprehensive study of the plant 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. (3-2) 4.

DRA 105—Theatrical Performances: Drama 105 is designed to give the student experience in and an appreciation of a variety of behind-the-scene and on-stage procedures that are requisite to a theatrical production. (4-0) 4.

ECO 102—Economics I: The fundamental principles of economics including the institutions and practices by which people gain a livelihood. Included in 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 enterprise and to society at large. (4-0) 4

ECO 104—Economics II: Greater depth in principles of economics, including a penetration into the composition and pricing of national output, distribution of income, international trade and finance and economic problems. (4-0) 4

ECO 108—Consumer Economics: Designed to help the student use his resources of time, energy and money to get the most out of life. It gives the student an opportunity to build useful skills in buying, managing his finances, increasing his resources and to understand better the economy in which he lives. (4-0) 4

ENG 100—Reading Dynamics: Designed to improve the student's ability to read rapidly and accurately with special emphasis on comprehension, vocabulary, critical and analytical reading skills, and the study of reading materials related to the student's curriculum. (4-0) 4

ENG 101—English Grammar and Composition I: Offers an historical survey of the English language, a review of English grammar, and an opportunity to improve written self-expression through expository essays and both primary and secondary research. (4-0) 4

ENG 102—English Grammar and Composition II: A continuation of ENG 101 with special emphasis on reading, expository writing and speaking in order to develop and enhance skills in basic rhetoric, simplified grammar, expanded vocabulary, and accurate spelling. Composition is designed to help the student write more easily by giving specific instruction regarding sentence structure, topic sentences, and paragraph development. (4-0) 4

ENG 105—Masterpieces of World Literature: A study of novels, short stories, poetry, plays, and non-fiction representative of both classic and contemporary world literature. (4-0) 4

ENG 107—Introduction to the Theatre: A general survey of theatre history including an investigation of the origins of tragedy and comedy, Medieval church drama, Shakespeare, the Renaissance and 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. (4-0) 4

ENG 116—Journalism I: Emphasis will be placed on journalistic techniques and problems, developing an awareness of news, and questions of press freedom and responsibility. Practical experience will be gained through the production of the newspaper and yearbook. (4-0) 4

ENG 117—Journalism II: Continuation of ENG 116. (4-0) 4

ENG 133—Composition and Documentation: Offers a study of research materials (card catalog, *Readers' Guide to Periodical Literature*, dictionary, thesaurus, atlas, almanac, newspaper, encyclopedia) available in the Learning Resources Center and instructions in the use of these materials. The student will write extended compositions, summaries, and a library paper to convey his understanding of research methods. (4-0) 4.

ENG 203—Creative Writing: Creative writing laboratory. Emphasis on imaginative writing with special emphasis on essays, short stories and poetry. PR ENG 101 (4-0) 4

ENG 204—Fundamentals of Speech: A study of basic concepts and principles of oral communications to enable the student to communicate with others. Emphasis is placed on the speaker's attitude, improving diction, voice and the application of particular techniques of theory to correct speaking habits and to produce effective oral presentation. Particular attention given to conducting meetings, conferences and interviews. (4-0) 4

ENG 205—Major American Writers: An anthology of major American authors representative of literary movements from Romanticism to the present. (4-0) 4

ENG 207—Southern American Authors: 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. (4-0) 4

HIS 101—World Civilization I: 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. (4-0) 4

HIS 102—World Civilization II: A continuation of HIS 101 from the Middle Ages, through the Renaissance, the Voyages of Discovery, Colonization, the Reformation and the Ages of Enlightenment. (4-0) 4

HIS 103—World Civilization III: 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. (4-0) 4

MAT 110—Principles of Mathematics I: A general course reviewing fundamental operations in math with emphasis on the use of fractions, ratios, percentages, proportions, and basic algebra used in practical problem solving. A general introduction to the metric system is included to help give the student a sound background in analyzing and solving several types of problems. (4-0) 4

MAT 111—Principles of Mathematics II: A continuation of MAT 110, this course develops the use of algebra, trigonometry, geometry, and basic statistics for use in several types of problem solving. PR MAT 110(4-0)4

MAT 112—Introduction to Metrics: A practical course involving the mathematical and algebraic solutions of problems encountered when using the metric system of measurements. (4-0) 4

MAT 113—Elementary Statistics: A beginning course in practical statistics and probability which develops several methods of collecting and analyzing information to aid in decision making (4-0) 4

MUS 101—Music Appreciation: Designed to give a basic orientation to music with emphasis on simple form and analysis, instrumentation aesthetics, masterpieces and other significant works. (4-0) 4

NSC 102—Environmental Studies: A study of man's interaction with his physical environment, human problems arising from misuse of natural resources, and planning for and control of man's use of his environment with consideration for the future. (4-0) 4

PHI 202—Introduction to Philosophy: An introduction to philosophic world frames emphasizing cosmology, ontology, epistemology and axiology. (4-0) 4

POL 102—Government-National: 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, political parties will be studied, as will the general organization and functions of the national government. (4-0) 4

POL 103—Government-State and Local: A study of 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. (4-0) 4

POL 204—Great Decisions-Foreign Policy: A discussion study of key foreign policy issues faced by the United States and its citizens in the current year. (4-0) 4

PSC 103—The Art of Self Defense: It is becoming increasingly important in our society for men and women to learn how to recognize and react to potentially violent situations. This course is designed to instill the basic skills required for one to react in a positive and confident manner when such confrontations cannot be avoided. (4-0) 4.

PSY 101—Introduction to Psychology: A survey of the various fields of psychology, including the developmental process, motivation, emotion, frustration, and adjustment, attention and perception, and problems of group living. Attention is given to applications of these topics, to problems of study, self-understanding, and adjustment to the demands of society. (4-0) 4

PSY 103—Adolescent Psychology: A study of the nature and source of the problems of adolescents in western culture; physical, emotional, social, intellectual, and personality development of adolescents. (4-0) 4

PSY 201—Abnormal Psychology: Abnormal behavior studied in the context of modern life: Case studies, differential diagnoses, psychological dynamics of abnormal behavior, including theoretical, clinical and experimental contributions in the field. (4-0) 4

PSY 202—Group Processes: A study of group dynamics and leadership roles utilizing group experimentations. Applicability to other settings is also explored. (4-0) 4

SOC 101— Introduction to Sociology: 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. (4-0) 4

SOC 202— Marriage and the Family: A course designed to provide understanding of family relationships; a functional approach to the interpersonal relationships of courtship, marriage, and family life. (4-0) 4

SOC 203— Contemporary Issues: A culminating interdisciplinary course dealing with the basic economic, social, scientific and moral issues confronting human society. (4-0) 4

SOC 208—Black Studies: This course is designed to provide opportunities for students to review, discuss and evaluate the experience of Black America 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. (4-0) 4

SSC 201—Social Science Survey: An integrated course in the social science, drawing from the fields of anthropology, psychology, history and sociology. (4-0)

SSC 205—American Institutions: A study of the effect of American social economic and political institutions upon the individual as a citizen and as a worker. The course dwells upon current local, national and global problems viewed in the light of our political and economic heritage. (4-0) 4



ASSOCIATE IN APPLIED SCIENCE

DEGREE PROGRAMS

ACCOUNTING

Accounting is often called "the language of business." It is the language employed to communicate financial information. The accounting profession is important to the complete spectrum of business fields, ranging from governmental to small private businesses. Accountants are found in such forms of business operation as the sole proprietorship, partnership and corporation. Positions are available to accountants in general accounting, auditing, payroll accounting, credit and other specialized fields.

The Accounting curriculum is designed to provide sound academic training in the accumulation and maintenance of accounting. The student learns to perform such duties as: maintaining journals and ledgers, preparing financial statements, making special reports and analyses, preparing cost data and summarizing tax information. The degree Associate in Applied Science in Accounting will be awarded upon successful completion of this curriculum.

ACCOUNTING

REQUIRED COURSES FOR GRADUATION

	<i>Course Title</i>	<i>Hours Class</i>	<i>Per Week Lab</i>	<i>Credit Hours</i>
BUS 101	Introduction to Business	4	0	4
BUS 109✓	Business Mathematics	4	0	4
BUS 110✓	Office Machines I	2	2	3
BUS 115✓	Business Law I	4	0	4
BUS 116✓	Business Law II	4	0	4
BUS 120✓	Accounting I	4	4	6
BUS 121	Accounting II	4	4	6
BUS 123✓	Business Finance I	4	0	4
BUS 124✓	Business Finance II	4	0	4
BUS 204✓	Business Communications	4	0	4
BUS 219	Credit Procedures and Problems	4	0	4
BUS 222✓	Accounting III	4	4	6
BUS 223	Intermediate Accounting	4	4	6
BUS 225	Cost Accounting	2	2	3
BUS 229	Taxes	4	0	4
BUS 233✓	Personnel Management	4	0	4
BUS 235✓	Business Management	4	0	4
BUS 269	Auditing	2	2	3
ECO 102✓	Economics I	4	0	4
ECO 104✓	Economics II	4	0	4
ENG 100✓	Reading Dynamics	4	0	4
	(may be credited by exam)			
ENG 101✓	Grammar and Composition I	4	0	4
ENG 102✓	Grammar and Composition II	4	0	4

Total Credit Hours Required Courses 97
 Elective Hours 11
 Total Credit Hours Required to Graduate . . . 108

ELECTIVE COURSES (SELECT 11 CREDIT HOURS)

BUS 102	Typewriting I	2	2	3
BUS 117	Personal Law	4	0	4
BUS 232	Sales Development	4	0	4
BUS 271	Office Management	4	0	4
BUS 272	Principles of Supervision	4	0	4
ENG 105	Masterpieces of World Literature	4	0	4
ENG 204	Fundamentals of Speech	4	0	4
POL 102	Government—National	4	0	4
PSY 101	Introduction to Psychology	4	0	4
SSC 201	Social Science Survey	4	0	4

Courses from other associate degree programs would be considered with consent of the Business Department head.

COURSE DESCRIPTIONS

Each course listing begins with three capitalized letters and a number. This is the abbreviation of the course name and the number is the position in the curriculum. Following the number is the name of the course and a brief description of the course. Following the description may be a PR or CR or both. This means that there is a course that is a prerequisite or a corequisite. The numbers in parenthesis indicate the number of credit hours for completion of the course. The courses are listed alphabetically by the abbreviation of prefix letters.

BUS 101—Introduction to Business: 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. Student learns the basic fundamentals of the free enterprise system. (4-0) 4

BUS 102—Typewriting I: Introduction to the touch typewriting system with emphasis on correct techniques, mastery of the keyboard, simple business correspondence, and tabulation. (2-2) 3

BUS 109—Business Mathematics: This course stresses the fundamental operations and their application to business problems. Topics covered include: payrolls, price marketing, interest and discount, commission taxes, and pertinent uses of mathematics in the field of business. (4-0) 4.

BUS 110—Office Machines I: A general survey of the business and office machines. Students will receive training in techniques, processes, operation and application of the ten-key adding machines, full keyboard adding machines and calculators. (2-2) 3

BUS 115—Business Law I: A general course designed to acquaint the student with certain fundamentals and principles of business law, including contracts, negotiable instruments and agencies. (4-0) 4

BUS 116—Business Law II: Includes the study of laws pertaining to bailments, sales risk-bearing, partnership-corporation, mortgages and property rights. PR BUS 115 (4-0) 4

BUS 117—Personal Law: 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 for the U.S. Constitution. Laws governing vehicle operation, domestic relations and consumer protection will also be covered. (4-0) 4.

BUS 120—Accounting I: Principles, techniques and tools of accounting, summarizing, analyzing and reporting information about service and mercantile enterprises, to include practical application of the principles learned. PR MAT 110. (4-4) 6

BUS 121—Accounting II: 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 of management problems. PR BUS 120 (4-4) 6

BUS 123—Business Finance I: Financing of business units, as individuals, partnerships, corporations and trusts. A detailed study is made of short-term, long-term and consumer financing. (4-0) 4

BUS 124—Business Finance II: Financing, federal, state and local government and the ensuing effects upon the economy. Factors affecting supply of funds; monetary and credit policies. PR BUS 123 (4-0) 4

BUS 204—Business Communications: Develops skills in techniques in writing business communications to enable the student to communicate with others. Emphasis is placed on writing action—getting sales letters and prospectuses. Business reports, summaries of business conferences, letters involving credit, collections, adjustments, complaints, orders, acknowledgements, remittances and inquiry. (4-0) 4

BUS 219—Credit Procedures and Problems: Principles and practices in the extension of credit; collection procedures; laws pertaining to credit extension and collection are included. PR BUS 120 (4-0) 4

BUS 222—Accounting III: 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 capital. PR BUS 121 (4-4) 6

BUS 223—Intermediate Accounting: This course presents concepts adhered to in modern accounting, which includes the principles procedures, and methods that are applied in the preparation of financial statements. Changes in the form and content of the basic financial statements receive special emphasis. PR BUS 222 (4-4) 6

BUS 225—Cost Accounting: 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. PR BUS 222 (2-2) 3

BUS 229—Taxes: Application of federal and state taxes to various business conditions. A study of the following taxes; income, payroll, intangible, capital gain, sales and use, excise and inheritance. (4-0) 4

BUS 232—Sales Development: 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. (4-0) 4

BUS 233—Personnel Management: Principles of organization and management of personnel, procurement, placement, training, performance checking, supervision, remuneration, labor relations, fringe benefits and security. (4-0) 4

BUS 235—Business Management: 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. (4-0) 4

BUS 269—Auditing: 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 placed on detailed audits, internal auditing and internal control. PR BUS 223 (2-2) 3

BUS 271—Office Management: 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. (4-0) 4

BUS 272—Principles of Supervision: Introduces the basic responsibilities and duties of the supervisor and his relationship to superiors, subordinates and associates. Emphasis on securing an effective work force and the role of the supervisor. Methods of supervision are stressed. (4-0) 4

ECO 102—Economics I: The fundamental principles of economics including the institutions and practices 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 enterprise and to society at large. (4-0) 4

ECO 104: Economics II: Greater depth in principles of economics, including a penetration into the composition and pricing of national output, distribution of income, international trade and finance and economic problems. PR ECO 102 (4-0) 4

EDP 101—Introduction to Data Processing: Fundamental concepts and operational principles of data processing systems, as an aid in developing a basic knowledge of computers, prerequisite to the detailed study of particular computer problems. (4-0) 4

ENG 100—Reading Dynamics: Designed to improve the student's ability to read rapidly and accurately with special emphasis on comprehension, vocabulary, critical and analytical reading skills, and the study of reading materials related to the student's curriculum. (4-0) 4

ENG 101—Grammar and Composition I: Offers an historical survey of the English language, a review of English grammar, and an opportunity to improve written self-expression through expository essays and both primary and secondary research. (4-0) 4

ENG 102—Grammar and Composition II; A continuation of ENG 101 with special emphasis on reading, expository writing and speaking in order to develop and enhance skills in basic rhetoric, simplified grammar, expanded vocabulary, and accurate spelling. Composition is designed to help the student write more easily by giving specific instruction regarding sentence structure, topic sentences, and paragraph development. PR ENG 101 (4-0) 4.

ENG 105—Masterpieces of World Literature: A study of novels, short stories, poetry, and non-fiction representative of both classic and contemporary world literature. (4-0) 4

ENG 204—Fundamentals of Speech: A study of basic concepts and principles of oral communications to enable the student to communicate with others. Emphasis is placed on the speaker's attitude, improving diction, voice and the application of particular techniques of theory to correct speaking habits and to produce effective oral presentation. Particular attention given to conducting meetings, conferences and interviews. (4-0) 4

POL 102—Government-National: 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, political parties will be studied, as will the general organization and functions of the national government. (4-0) 4

PSY 101—Introduction to Psychology: A survey of the various fields of psychology, including the developmental process, motivation, emotion, frustration, and adjustment, attention and perception, and problems of group living. Attention is given to applications of these topics, to problems of study, self-understanding, and adjustment to the demands of society. (4-0) 4

SSC 201—Social Science Survey: An integrated course in the social sciences, drawing from the fields of anthropology, psychology, history and sociology. (4-0) 4

AGRICULTURAL SCIENCE AND MECHANIZATION

This curriculum is designed to develop the basic skills needed to successfully operate and manage an agricultural program involving commercial crops, poultry and livestock. Emphasis is placed upon mechanization as well as managerial skills. Technical specialty courses are offered throughout the curriculum to enable students to develop the specific skills related to an actual farming situation.

There is increasingly a need for trained personnel in the areas of Agricultural Science and Mechanization. Sophisticated farming methods and increased capital requirements have elevated farming to big business status, thus increasing the need for greater efficiency in farm management and production. Graduates of this program should be able to function effectively in farm operation and management.

AGRICULTURAL SCIENCE AND MECHANIZATION

SEQUENCE OF COURSES BY QUARTERS

	<i>Course Title</i>	<i>Hours Class</i>	<i>Per Week Lab</i>	<i>Credit Hours</i>
FIRST QUARTER: (Fall)				
ASM 101	Farm Machinery Operation and Main.	3	4	5
ASM 102	Farm Record and Taxes	<u>3</u>	<u>0</u>	<u>3</u>
		6	4	8
SECOND QUARTER: (Winter)				
ASM 103	Techniques of Welding	2	2	3
ASM 104	Soil Science and Fertilization	<u>4</u>	<u>2</u>	<u>5</u>
		6	4	8
THIRD QUARTER: (Spring)				
ASM 105	Agricultural Chemicals	4	2	5
ASM 106	Farm and Home Construction	<u>2</u>	<u>2</u>	<u>3</u>
		6	4	8
FOURTH QUARTER: (Summer)				
ASM 107	Farm Electrification	4	2	5
ASM 108	Farm Electrification Workshop	<u>2</u>	<u>2</u>	<u>3</u>
		6	6	8
FIFTH QUARTER: (Fall)				
ASM 109	Agricultural Mechanics	3	2	4
MEC 111	Internal Combustion Engines	<u>3</u>	<u>2</u>	<u>4</u>
		6	4	8

SIXTH QUARTER: (Winter)

ASM 110	Conservation of Natural Resources	3	2	4
ASM 111	Swine Production	<u>3</u>	<u>2</u>	<u>4</u>
		6	4	8

SEVENTH QUARTER: (Spring)

ASM 202	Livestock Housing and Equipment	3	4	5
ASM 203	Fruit and Vegetable Production	<u>3</u>	<u>0</u>	<u>3</u>
		6	4	8

EIGHTH QUARTER: (Summer)

MEC 118	Small Engine Repair	3	2	4
ASM 201	Agricultural Marketing (I)	<u>3</u>	<u>2</u>	<u>4</u>
		6	4	8

NINTH QUARTER: (Fall)

ASM 201	Agricultural Marketing II	3	0	3
ASM 204	Beef and Dairy Production	<u>3</u>	<u>4</u>	<u>5</u>
		6	4	8

TENTH QUARTER: (Winter)

ASM 205	Farm Machinery Repair	3	4	5
ASM 206	Livestock Diseases and Parasites	<u>3</u>	<u>0</u>	<u>3</u>
		6	4	8

ELEVENTH QUARTER: (Spring)

ASM 207	Poultry Enterprises	3	2	4
ASM 208	Pastures and Forage Crops	<u>3</u>	<u>2</u>	<u>4</u>
		6	4	8

TWELFTH QUARTER: (Summer)

ASM 209	Agricultural Programs and Agencies I	3	2	4
ASM 210	Farm Forest Management	<u>3</u>	<u>2</u>	<u>4</u>
		6	4	8

THIRTEENTH QUARTER: (Fall)

ASM 209 II	Agricultural Programs and Agencies II	3	2	4
ASM 211 I	General Poultry Science I	<u>3</u>	<u>2</u>	<u>4</u>
		6	4	8

FOURTEENTH QUARTER: (Winter)

ASM 211 II	General Poultry Science II	3	2	4
	Elective	<u>3</u>	<u>2</u>	<u>4</u>
		6	4	8

Course Descriptions— Agricultural Science and Mechanization

ASM 101—Farm Machinery Operation and Maintenance: Care, repair, and selection of the large units of farm equipment operating principles of self-propelled and tractor-drawn equipment will be studied in the classroom and the field. Such equipment as balers, combines, corn pickers, cotton pickers and peanut harvesters will be included. (3-4) 5.

ASM 102—Farm Records and Taxes: An introductory course to accounting methods related to the farm business which acquaints the student with terminology, basic principles and techniques used in recording transactions. Practical application of the principles learned are made by working with actual farm situations. A study of taxes as related to farm income, forms, deductions, depreciation, and tax schedules applicable to farms. (3-0) 3.

ASM 103—Techniques of Welding: Principles of oxyacetylene and electrical welding, cutting and brazing. Principles, procedures, safety precautions and experience in using oxyacetylene and arc equipment. Projects are assigned to develop skill in the use of equipment. Includes the study of metals, rods, gases, and special electric welding machinery. (2-2) 3.

ASM 104—Soil Science and Fertilization: A course dealing with basic principles of efficient classification, evaluation and management of soils; care, cultivation and fertilization of the soil and conservation of soil fertility. (4-2) 5.

ASM 105—Agricultural Chemicals: A study of farm chemical pesticides, their ingredients, formulation, and farm application, with emphasis on the effective and safe use of chemicals in agricultural pest control. (4-2) 5.

ASM 106—Farm and Home Construction: This course deals with the fundamentals of farm carpentry, fences, concrete and masonry. Part of the course gives students an opportunity to learn and practice home construction projects such as kitchen cabinets. The study also includes the farm water needs and waste disposal. Attention is given to planning farm water and plumbing systems and their proper care and maintenance. (2-2) 3.

ASM 107—Farm Electrification: A study of the basic principles and systems and their application of agricultural production with emphasis upon equipment for controlling the utilization of electricity. (4-2) 5.

ASM 108—Farm Electrification Workshop: Practical application of farm electrification techniques to accompany classroom instruction. (2-2) 3.

ASM 109—Agricultural Mechanics: The student receives current trends in agricultural mechanization in addition to practical shop application. The principles and fundamentals of tractor operation, agricultural chemicals application equipment, and the repair, modification, and maintenance of these items is covered. (3-2) 4.

ASM 110—Conservation of Natural Resources: An introduction to soil conservation, covering what is included in soil and water conservation, the public interest in soil and water conservation, who is involved in soil and water conservation, the available resources to carry out soil and water conservation measures, and the relationship of specialized knowledge in agronomy, biology, economics, engineering, soils, forestry and recreation. (3-2) 4.

ASM 111—Swine Production: Development of the swine producing and marketing industries; principles and practices of selection, breeding, feeding, housing, marketing, and management of swine. (3-2) 4.

ASM 201—Agricultural Marketing: An analysis of the functions of marketing in the economy and a survey of the problems marketing faces. A review of the market structure and the relationship of local, terminal, wholesale, retail and foreign markets. Problems in the operations of marketing firms including buying and selling, processing, standardization and grading, risk taking and storage, financing, efficiency, and cooperation. Discussion of procedures of marketing such commodities as grain, cotton, livestock and tobacco. PR ECO 102. (3-2) 4.

ASM 202—Livestock Housing and Equipment: A study of the housing and equipment utilized in efficient livestock production and marketing. Farm livestock structures. Automatic feeding and watering systems. Specialized equipment for care of livestock and maintenance of quality of livestock products. (3-4) 5.

ASM 203—Fruit and Vegetable Production: A course dealing with fruit and vegetable production. A study of the importance and principles of production and marketing of the major vegetable crops. Identification and methods of production and marketing of the principal tree and small fruits. (3-0) 3.

ASM 204—Beef and Dairy Production: A study of beef and dairy production. This includes their selection, breeding, feeding, care and management. (3-4) 5.

ASM 205—Farm Machinery Repair: A study of the maintenance and repair of basic farm machinery and equipment. Emphasis is placed upon preventive maintenance through appropriate use and care. (3-4) 5.

ASM 206—Livestock Diseases and Parasites: A course dealing with the common diseases and parasites of livestock; sanitation practices and procedures with emphasis on the cause, damage, symptoms, prevention and treatment of parasites and diseases, and management factors relating to disease and parasite prevention and control. PR BIO 125. (3-0) 3.

ASM 207—Poultry Enterprise: A review of the growth of the various poultry enterprises—including market eggs, hatching eggs, and broiler production; marketing procedures; determining and controlling costs and production; choosing breeds and determining flock size, feeding systems, conversion ratios, labor efficiency, and other management factors. (3-2) 4.

ASM 208—Pastures and Forage Crops: A study of the major grasses and legumes of economic importance in North Carolina. Attention will be given to management, soil types, fertilization, harvesting and nutrient value. (3-2) 4.

ASM 209—Agricultural Programs and Agencies: A review of the public agricultural programs and agencies that provide services, including financial aid for agricultural procedures. The objectives, organization, functions and services of these organizations. (3-2) 4.

ASM 210—Farm Forest Management: A course dealing with the fundamentals of forestry and farm forestry problems, including planting, thinning, harvesting and marketing. (3-2) 4.

ASM 211—General Poultry Science: An introduction to the science of poultry production. The major phases of the study include the history of the poultry industry; the anatomy and physiology of the chicken; the breeds and varieties; the breeding principles; the principles of incubation, brooding, rearing, feeding, housing, and management; marketing poultry products; and the science of disease and parasite prevention and control. (3-2) 4.

MEC 111—Internal Combustion Engines: Tractor engine fundamentals. Principles of engine operation, including horsepower calculations, efficiency, combustion theory, types engines, cylinder and valve arrangements, lubrication, fuel and cooling systems. Laboratory work consisting of demonstrations, disassembly, inspection and reassembly of various engines. (3-2) 4.

MEC 118—Small Engine Repair: This course is designed to give the student mechanical knowledge in order to adjust, maintain, and repair small gasoline engines. (3-2) 4.

BUSINESS ADMINISTRATION

In North Carolina the opportunities in business are increasing. With the increasing population and industrial development in the state, business has become more competitive and automated. Better opportunities in business will be filled by students with specialized education beyond the high school level. The Business Administration Curriculum is designed to prepare the student for employment in one of many occupations common to business. Training is aimed at preparing the student in many phases of administrative work that might be encountered in the average business.

The specific objectives of the Business Administration Curriculum are to develop: (1) Understanding of the principles of organization and management in business operations; (2) Understanding our economy through study and analysis of the role of production and marketing; (3) Knowledge in specific elements of accounting, finance and business law; (4) Understanding and skill in effective communication for business; (5) Knowledge of human relations as they apply to successful business operations in a rapidly expanding economy.

The graduate of the Business Administration Curriculum may enter a variety of career opportunities from beginning sales person or office clerk to manager trainee. The duties and responsibilities of this graduate vary in different firms. These duties might include: making up and filing reports, tabulating and posting data in various books, sending out bills, checking calculations, adjusting complaints, operating various office machines, and assisting managers in supervising. Positions are available in businesses such as advertising; banking; credit, finance, retailing; wholesaling; hotel, tourist and travel industry; insurance; transportation; manufacturing and communications.

BUSINESS ADMINISTRATION

REQUIRED COURSES FOR GRADUATION

	<i>Course Title</i>	<i>Hours Class</i>	<i>Per Week Lab</i>	<i>Credit Hours</i>
BUS 101	Introduction to Business	4	0	4
BUS 109 ✓	Business Mathematics	4	0	4
BUS 110 ✓	Office Machines I	2	2	3
BUS 115 ✓	Business Law I	4	0	4
BUS 116 ✓	Business Law II	4	0	4
BUS 120 ✓	Accounting I	4	4	6
BUS 121 ✓	Accounting II	4	4	6
BUS 123 ✓	Business Finance I	4	0	4
BUS 124 ✓	Business Finance II	4	0	4
BUS 204 ✓	Business Communications	4	0	4
BUS 222 ✓	Accounting III	4	4	6
BUS 229 ✓	Taxes	4	0	4
BUS 233 ✓	Personnel Management	4	0	4
BUS 235 ✓	Business Management	4	0	4
BUS 239 ✓	Marketing	4	0	4
ECO 102 ✓	Economics I	4	0	4
ECO 104 ✓	Economics II	4	0	4
ENG 100 ✓	Reading Dynamics	4	0	4
	(may be credited by exam)			
ENG 101 ✓	Grammar and Composition I	4	0	4
ENG 102 ✓	Grammar and Composition II	4	0	4

Total credit hours required courses 85

Elective hours 23

Total credit hours required to graduate 108

ELECTIVE COURSES (SELECT AT LEAST 23 HOURS)

BUS 102 ✓	Typewriting I	2	2	3
BUS 117 ✓	Personal Law	4	0	4
BUS 219 ✓	Credit Procedures and Problems	4	0	4
BUS 223 ✓	Intermediate Accounting	4	4	6
BUS 232 ✓	Sales Development	4	0	4
BUS 243 ✓	Advertising	4	0	4
BUS 245 ✓	Retailing	4	0	4
BUS 247 ✓	Business Insurance	4	0	4
BUS 267 ✓	Money and Banking	4	0	4
BUS 285 ✓	Real Estate	4	0	4
EDP 101 ✓	Introduction to Data Processing	4	0	4
ENG 105 ✓	Masterpieces of World Literature	4	0	4
ENG 204 ✓	Fundamentals of Speech	4	0	4
POL 102 ✓	Government—National	4	0	4
PSY 101 ✓	Introduction to Psychology	4	0	4
SSC 201 ✓	Social Science Survey	4	0	4

Courses from other associate degree programs would be considered with consent of the Business Department head.

COURSE DESCRIPTIONS—BUSINESS ADMINISTRATION

Each course listing begins with three capitalized letters and a number. This is the abbreviation of the course name and the number is the position in the curriculum. Following the number is the name of the course and a brief description of the course. Following the description may be a PR or CR or both. This means that there is a course that is a prerequisite or a corequisite. The numbers in parenthesis indicate the number of lecture and laboratory hours. The last number indicates the number of credit hours for completion of the course. The courses are listed alphabetically by the abbreviation of prefix letters.

BUS 101—Introduction to Business: 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. Student learns the basic fundamentals of the free enterprise system. (4-0) 4

BUS 102—Typewriting I: Introduction to the touch typewriting system with emphasis on correct techniques, mastery of the keyboard, simple business correspondence, and tabulation. (2-2) 3

BUS 109—Business Mathematics: This course stresses the fundamental operations and their application to business problems. Topics covered include: payrolls, price marketing, interest and discount, commission taxes, and pertinent uses of mathematics in the field of business. (4-0) 4.

BUS 110—Office Machines I: A general survey of the business and office machines. Students will receive training in techniques, processes, operation and application of the ten-key adding machines, full keyboard adding machines and calculators. (2-2) 3.

BUS 115—Business Law I: A general course designed to acquaint the student with certain fundamentals and principles of business law, including contracts, negotiable instruments and agencies. (4-0) 4

BUS 116—Business Law II: Includes the study of laws pertaining to bailments, sales risk-bearing, partnership-corporation, mortgages and property rights. PR BUS 115 (4-0) 4

BUS 117—Personal Law: 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. (4-0) 4

BUS 120—Accounting I: Principles, techniques and tools of accounting, summarizing, analyzing and reporting information about service and mercantile enterprises, to include practical application of the principles learned. PR MAT 110 (4-4) 6

BUS 121—Accounting II: 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 of management problems. PR BUS 120 (4-4) 6

BUS 123—Business Finance I: Financing of business units, as individuals, partnerships, corporations and trusts. A detailed study is made of short-term, long-term and consumer financing. (4-0) 4

BUS 124—Business Finance II: Financing federal, state and local government and the ensuing effects upon the economy. Factors affecting supply of funds, monetary and credit policies. PR BUS 123 (4-0) 4

BUS 204—Business Communications: Develops skills in techniques in writing business communications. Emphasis is placed on writing action-getting sales letters and prospectuses. Business reports, summaries of business conferences, letters involving credit, collections, adjustments, complaints, orders, acknowledgements, remittances and inquiry. (4-0) 4

BUS 219—Credit Procedures and Problems: Principles and practices in the extension of credit; collection procedures; laws pertaining to credit extension and collection are included. PR BUS 120 (4-0) 4

BUS 222—Accounting III: 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 capital. PR BUS 121 (4-4) 6

BUS 223—Intermediate Accounting: This course presents concepts adhered to in modern accounting; which includes the principles, procedures, and methods that are applied in the preparation of financial statements. Changes in the form and content of the basic financial statements receive special emphasis. PR BUS 222 (4-4) 6

BUS 229—Taxes: Application of federal and state taxes to various business conditions. A study of the following taxes; income, payroll, intangible, capital gain, sales and use, excise and inheritance. (4-0) 4

BUS 232—Sales Development: 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. (4-0) 4

BUS 233—Personnel Management: Principles of organization and management of personnel, procurement, placement, training, performance checking, supervision, remuneration, labor relations, fringe benefits and security. (4-0) 4

BUS 235—Business Management: 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. (4-0) 4

BUS 239—Marketing: An overall survey of the field of marketing; with detailed emphasis being placed on marketing policies, functions and institutions involved in the marketing process. (4-0) 4

BUS 243—Advertising: 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. (4-0) 4

BUS 245—Retailing: 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. (4-0) 4

BUS 247—Business Insurance: An introduction to insurance, what it is, what it does, and how it can best serve the individual and the business. Included are a brief history of insurance, theories of risk and discussion of all types of modern-day insurance. (4-0) 4

BUS 267—Money and Banking: A course designed to stimulate interest in the commercial banking process used today along with the Federal Reserve System, business cycles and monetary policies, financial institutions and commercial banks. The types of money in use and early theories of the value of money are discussed thoroughly in this study. (4-0) 4

BUS 285—Real Estate: The course treats the “why” and “how” of real estate as it affects individuals and business firms. It presents the legal framework, the economic significance and the social implications and practices that make up today’s real estate market. (4-0) 4

ECO 102—Economics I: The fundamental principles of economics including the institutions and practices 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 enterprise and to society at large. (4-0) 4

ECO 104: Economics II: Greater depth in principles of economics, including a penetration into the composition and pricing of national output, distribution of income, international trade and finance and economic problems. PR ECO 102 (4-0) 4

EDP 101—Introduction to Data Processing: Fundamental concepts and operational principles of data processing systems, as an aid in developing a basic knowledge of computers, prerequisite to the detailed study of particular computer problems. (4-0) 4

ENG 100—Reading Dynamics: Designed to improve the student's ability to read rapidly and accurately with special emphasis on comprehension, vocabulary, critical and analytical reading skills, and the study of reading materials related to the student's curriculum. (4-0) 4

ENG 101—Grammar and Composition I: Offers an historical survey of the English language, a review of English grammar, and an opportunity to improve written self-expression through expository essays and both primary and secondary research. (4-0) 4

ENG 102—English Grammar and Composition II: A continuation of ENG 101 with special emphasis on reading, expository writing and speaking in order to develop and enhance skills in basic rhetoric, simplified grammar, expanded vocabulary, and accurate spelling. Composition is designed to help the student write more easily by giving specific instruction regarding sentence structure, topic sentences, and paragraph development. (4-0) 4

ENG 105—Masterpieces of World Literature: A study of novels, short stories, poetry, and non-fiction representative of both classic and contemporary world literature. (4-0) 4

ENG 204—Fundamentals of Speech: A study of basic concepts and principles of oral communications to enable the student to communicate with others. Emphasis is placed on the speaker's attitude, improving diction, voice and the application of particular techniques of theory to correct speaking habits and to produce effective oral presentation. Particular attention given to conducting meetings, conferences and interviews. (4-0) 4

POL 102—Government-National: 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, political parties will be studied, as will the general organization and functions of the national government. (4-0) 4

PSY 101—Introduction to Psychology: A survey of the various fields of psychology, including the developmental process, motivation, emotion, frustration, and adjustment, attention and perception, and problems of group living. Attention is given to applications of these topics, to problems of study, self-understanding, and adjustment to the demands of society. (4-0) 4

SSC 201—Social Science Survey: An integrated course in the social sciences, drawing from the fields of anthropology, psychology, history and sociology. (4-0) 4



EXECUTIVE SECRETARIAL SCIENCE

Almost 11 million people were employed in clerical or some other closely related type of work in 1965. More than 2 million of these were employed in occupations requiring stenographic skills. In fact, more individuals are employed in the clerical fields than in any other category.

The Executive Secretary graduate may be employed as a stenographer or a secretary as well as in a variety of other clerical occupations. Stenographers are primarily responsible for taking dictation and transcribing letters, memoranda, or reports. The secretary, in addition to taking dictation and transcribing, is given more responsibility in connection with meeting office callers, screening telephone calls, handling numerous routine duties, private and confidential records, and a variety of business details on her own initiative.

GENERAL OFFICE TECHNOLOGY

(RECEPTIONISTS OR CLERK-TYPIST)

More and more people are now employed in clerical occupations than in any other single job category. Automation and increased production will mean that these people will need more technical skills and a greater adaptability for diversified types of jobs.

The General Office Technology curriculum is designed to develop the necessary variety of skills for employment in the business world. Specialized training in skill areas is supplemented by related courses in mathematics, accounting, business law and applied psychology.

The graduate of the General Office Technology curriculum may be employed as an administrative assistant, accounting clerk, assistant office manager, bookkeeper, receptionist, file clerk, machine transcriptionist, or a variety of other clerical-related jobs.

MEDICAL SECRETARIAL SCIENCE

The demand for better qualified medical secretaries in our ever-expanding medical profession is becoming more acute. The purpose of this curriculum is to outline a training program that will provide specialized training in the accepted procedures required by the medical profession, and to enable persons to become proficient soon after accepting employment in the medical and health occupations.

The Medical Secretary Curriculum is designed to offer the students the necessary secretarial skills in typing, dictation, transcription and terminology for employment in the medical profession. The special training in secretarial subjects is supplemented by related courses in mathematics, accounting, business law and personality development.

The graduate of the Medical Secretary Curriculum should have a knowledge of medical terminology, skill in dictation and accurate transcriptions of medical records, reports and letters.

EXECUTIVE SECRETARIAL SCIENCE

REQUIRED COURSES FOR GRADUATION

	<i>Course Title</i>	<i>Hours Class</i>	<i>Per Week Lab</i>	<i>Credit Hours</i>
BUS 101	Introduction to Business	4	0	4
BUS 102	Typewriting I (may be credited by exam)	2	2	3
BUS 103	Typewriting II (may be credited by exam)	2	2	3
BUS 104	Typewriting III	2	2	3
BUS 106	Shorthand I (may be credited by exam)	2	2	3
BUS 107	Shorthand II	2	2	3
BUS 108	Shorthand III	2	2	3
BUS 109	Business Mathematics	4	0	4
BUS 110	Office Machines I	2	2	3
BUS 112	Filing	2	2	3
BUS 118	Secretarial Accounting I	4	4	6
BUS 119	Secretarial Accounting II	4	4	6
BUS 122	Payroll Accounting	2	2	3
BUS 204	Business Communications	4	0	4
BUS 205	Advanced Typewriting	2	2	3
BUS 206	Dictation and Transcription I	2	2	3
BUS 207	Dictation and Transcription II	2	2	3
BUS 208	Dictation and Transcription III	2	2	3
BUS 211	Office Machines II- Duplicating Processes	0	2	1
BUS 214	Secretarial Procedures	2	2	3
BUS 271	Office Management	4	0	4
ENG 100	Reading Dynamics (may be credited by exam)	4	0	4
ENG 101	Grammar and Composition I	4	0	4
ENG 102	Grammar and Composition II	4	0	4
Total credit hours required courses				83
Elective Hours				25
				108

ELECTIVE COURSES (SELECT AT LEAST 25 HOURS)

BUS 113	Charm and Personal Development	0	2	1
BUS 115	Business Law	4	0	4
BUS 117	Personal Law	4	0	4
BUS 229	Taxes	4	0	4
EDP 101	Introduction to Data Processing	4	0	4
ENG 105	Masterpieces of World Literature	4	0	4
ENG 204	Fundamentals of Speech	4	0	4
POL 102	Government—National	4	0	4
PSY 101	Introduction to Psychology	4	0	4
SSC 201	Social Science Survey	4	0	4

Courses from other associate degree programs would be considered with consent of Business Department head.

Course Descriptions—Executive Secretarial Science

Each course listing begins with three capitalized letters and a number. This is the abbreviation of the course name and the number is the position in the curriculum. Following the number is the name of the course and a brief description of the course. Following the description may be a PR or CR or both. This means that there is a course that is a prerequisite or a corequisite. The numbers in parenthesis indicate the number of lecture and laboratory hours. The last number indicates the number of credit hours for completion of the course. The courses are listed alphabetically by the abbreviation of prefix letters.

BUS 101—Introduction to Business: 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. Student learns the basic fundamentals of the free enterprise system. (4-0) 4

BUS 102—Typewriting I: Introduction to the touch typewriting system with emphasis on correct techniques, mastery of the keyboard, simple business correspondence and tabulation. (2-2) 3

BUS 103—Typewriting II: 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. PR BUS 102 or equivalent. (2-2) 3

BUS 104—Typewriting III: 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. PR BUS 102 or equivalent. (2-2) 3.

BUS 106—Shorthand I: A beginning course in the theory and practice of reading and writing shorthand. Emphasis on phonetics, penmanship, word families, brief forms and phrases. (2-2) 3

BUS 107—Shorthand II: Continued study of theory with greater emphasis on dictation and elementary transcription. PR BUS 106 or equivalent (2-2) 3

BUS 108—Shorthand III: Theory and speed building. Introduction to office style dictation. Emphasis on development of speed in dictation and accuracy in transcription. PR BUS 107 (2-2) 3

BUS 109—Business Mathematics: This course stresses the fundamental operations and their application to business problems. Topics covered include: payrolls, price marking, interest and discount, commission taxes, and pertinent uses of mathematics in the field of business. (4-0) 4.

BUS 110—Office Machines I: A general survey of the business and office machines. Students will receive training in techniques, processes, operation and application of the ten-key adding machines, full keyboard adding machines and calculators. (2-2) 3

BUS 112—Filing: 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, Soundex and Chronological filing. (2-2) 3

BUS 113—Charm and Personal Development: This course is designed to acquaint the secretarial student with various aspects of personal development that will enhance her femininity both on and away from the job. (0-2) 1

BUS 115—Business Law: A general course designed to acquaint the student with certain fundamentals and principles of business law, including contracts, negotiable instruments and agencies.

BUS 117—Personal Law: 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. (4-0) 4.

BUS 118—Secretarial Accounting I: This course is designed to teach the students the processes of recording, sorting, and summarizing data related to business transactions and events in a manner that facilitates classifying and summarizing the information and reporting and interpreting the results. Emphasis is placed on the sole proprietorship personal service enterprise. (4-4) 6

BUS 119—Secretarial Accounting II: This course is designed to further develop the students' ability to analyze and record business transactions and report and interpret the results. Students are given an opportunity to apply accounting principles and skills in a unifying manner through the use of a practice set. (4-4) 6 PR BUS 118

BUS 122—Payroll Accounting: A detailed study of federal and state regulations, computations, deductions and general accounting for payrolls. PR BUS 118 (2-2) 3

BUS 201—Machine Dictation and Transcription: Objective of this course is to develop skill in using various transcription machines and to transcribe correctly at the typewriter. The student will thereby, gain a knowledge of many kinds of business correspondence, increase her business vocabulary and develop an understanding of secretarial procedures. (2-2) 3

BUS 204—Business Communications: Develops skills in techniques in writing business communications. Emphasis is placed on writing action-getting sales letters and prospectuses. Business reports, summaries of business conferences, letters involving credit, collections, adjustments, complaints, orders, acknowledgements, remittances and inquiry. (4-0) 4

BUS 205—Advanced Typewriting: 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, methods of duplication, statistical tabulation, and the typ-

ing of reports, manuscripts and legal documents. PR BUS 104 (2-2) 3

BUS 206—Dictation and Transcription I: Develops the skill of taking dictation and of transcription at the typewriter materials appropriate to the course of study, which includes a review of the theory and the dictation of familiar and unfamiliar material at varying rates of speed. PR BUS 108 (2-2) 3

BUS 207—Dictation and Transcription II: Covering materials appropriate to the course of study, the student develops the accuracy, speed and vocabulary that will enable her to meet the stenographic requirements of business and professional offices. PR BUS 206 (2-2) 3

BUS 208—Dictation and Transcription III: 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. PR BUS 207 (2-2) 3

BUS 211—Office Machines II—Duplicating Processes: 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. PR BUS 104 (0-2) 1.

BUS 214—Secretarial Procedures: Designed to acquaint the student with the responsibilities encountered by a secretary during a work day. Among these are the following: receptionist duties, handling the mail, telephone techniques, telegrams, office records, travel information, purchasing of supplies, office organization and insurance claims. (2-2) 3 PR BUS 104

BUS 271—Office Management: 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. (4-0) 4

EDP 101—Introduction to Data Processing Systems: Fundamental concepts and operational principles of data processing systems, as an aid in developing a basic knowledge of computer, prerequisite to the detailed study of particular computer problems. (4-0) 4

ENG 100—Reading Dynamics: Designed to improve the student's ability to read rapidly and accurately with special emphasis on comprehension, vocabulary, critical and analytical reading skills, and the study of reading materials related to the student's curriculum. (4-0) 4

ENG 101—English Grammar and Composition I: Offers an historical survey of the English language, a review of English grammar, and an opportunity to improve written self-expression through expository essays and both primary and secondary research. (4-0) 4

ENG 102—English Grammar and Composition II: A continuation of ENG 101 with special emphasis on reading, expository writing and speaking in order to develop and enhance skills in basic rhetoric, simplified grammar, expanded vocabulary, and accurate spelling. Composition is designed to help the student write more easily by giving speci-

fic instruction regarding sentence structure, topic sentences, and paragraph development. PR ENG 101 (4-0) 4

ENG 105—Masterpieces of World Literature: A study of novels, short stories, poetry, plays and non-fiction representative of both classic and contemporary world literature. (4-0) 4

ENG 204—Fundamentals of Speech: A study of basic concepts and principles of oral communications to enable the student to communicate with others. Emphasis is placed on the speaker's attitude, improving diction, voice and the application of particular techniques of theory to correct speaking habits and to produce effective oral presentation. Particular attention given to conducting meetings, conferences and interviews. (4-0) 4

POL 102—Government-National: 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, political parties will be studied, as will the general organization and functions of the national government. (4-0) 4

PSY 101—Introduction to Psychology: A survey of the various fields of psychology, including the developmental process, motivation, emotion, frustration, and adjustment, attention and perception, and problems of group living. Attention is given to applications of these topics, to problems of study, self-understanding, and adjustment to the demands of society. (4-0) 4

SSC 201—Social Science Survey: An integrated course in the social sciences, drawing from the fields of anthropology, psychology, history and sociology. (4-0) 4



FASHION MERCHANDISING AND MARKETING TECHNOLOGY

This curriculum is designed to prepare the individual to be a productive employee in an entry-level job and to provide the knowledge and skills necessary for career advancement in mid-management positions in various fashion merchandising and marketing businesses and industries.

Through study and application in areas such as: fabric science, fundamentals of art and design, elements of fashion, salesmanship, fashion buying and merchandising, display design, merchandise planning and control, apparel fitting, credit procedures and problems, the individual will be able to enter jobs such as: merchandise clerk, assistant to fashion coordinator, executive trainee, advertising assistant, display assistant, merchandise distributor in retail stores, wholesale firms, manufacturing firms, central buying offices, retail distribution centers and advertising agencies.

FASHION MERCHANDISING & MARKETING TECHNOLOGY REQUIRED COURSES FOR GRADUATION

	<i>Course Title</i>	<i>Hours Class</i>	<i>Per Week Lab</i>	<i>Credit Hours</i>
ART 125	Fundamentals of Art & Design	2	2	3
BUS 101	Introduction to Business	4	0	4
BUS 204	Business Communications	4	0	4
CAT 116	Photography I	2	4	4
DMK 240	Merchandise Planning & Control	4	0	4
DMK 249	Fashion Buying and Merchandising	4	0	4
DMK 260	Commercial Display Design	2	4	4
ENG 101	Grammar and Composition I	4	0	4
ENG 103	Report Writing	4	0	4
ENG 204	Fundamentals of Speech	4	0	4
FAS 101	Introduction to Fashion Marketing	4	0	4
FAS 102	Elements and Coordination of Fashion	4	0	4
FAS 103	Fashion Accessories	4	0	4
FAS 104	Fashion Sketching	2	2	3
FAS 108	Fashion Salesmanship	4	0	4
FAS 208	Applied Fashion Merchandising (or approved elective)	1	4	3
FAS 210	Fashion Sales Promotion I	3	2	4
FAS 211	Fashion Sales Promotion II	4	0	4
HUM 110	History of Costume	4	0	4
MAT 110	Principles of Math I	4	0	4
TEX 100	Fabric Science I	4	0	4
TEX 101	Fabric Science II	4	0	4
Total Credit Hours Required Courses				85
Elective Hours				<u>23</u>
Total Credit Hours Required to Graduate . . .				108

ART 101	Art Appreciation	4	0	4
BUS 102	Typewriting I	2	2	3
BUS 110	Office Machines	2	2	3
BUS 115	Business Law I	4	0	4
BUS 219	Credit Procedures and Problems	4	0	4
BUS 229	Taxes	4	0	4
BUS 235	Business Management	4	0	4
BUS 247	Business Insurance	4	0	4
DES 120	Life Drawing	2	2	3
ENG 116	Journalism I	4	0	4
ENG 117	Journalism II	4	0	4
FAS 202	Modeling	1	2	2
PSY 206	Applied Psychology	4	0	4

Courses from other associate degree programs would be considered with consent of the Department head.

Course Descriptions

ART 101—Art Appreciation: An introduction to fundamental elements and principles of creative art expression emphasizing composition, design, shape, value styles, and movements. (4-0) 4

ART 125—Fundamentals of Art and Design: Includes fashion drawing, the study of color, line, design and motifs to develop ability to recognize style detail and trends. (2-2) 3

BUS 101—Introduction to Business: 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. Student learns the basic fundamentals of the free enterprise system. (4-0) 4

BUS 102—Typewriting I: Introduction to the touch typewriting system with emphasis on correct techniques, mastery of the keyboard, simple business correspondence, and tabulation. (2-2) 3

BUS 110—Office Machines I: A general survey of the business and office machines. Students will receive training in techniques, processes, operation and application of the ten-key adding machines, full keyboard adding machines and calculator. (2-2) 3

BUS 115—Business Law I: A general course designed to acquaint the student with certain fundamentals and principles of business law, including contracts, negotiable instruments and agencies. (4-0) 4

BUS 204—Business Communications: Develops skills in techniques in writing business communications. Emphasis is placed on writing action-getting sales letters and prospectuses. Business reports, summaries of business conferences, letters involving credit, collections, adjustments, complaints, orders, acknowledgements, remittances and inquiry. (4-0) 4

BUS 219—Credit Procedures and Problems: Principles and practices in the extension of credit; collection procedures; laws pertaining to credit extension and collection are included. PR BUS 120 (4-0) 4

BUS 229—Taxes: Application of federal and state taxes to various business conditions. A study of the following taxes; income, payroll, intangible, capital gain, sales and use, excise and inheritance. (4-0) 4

BUS 235—Business Management: 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. (4-0) 4

BUS 247—Business Insurance: An introduction to insurance, what it is, what it does, and how it can best serve the individual and the business. Included are a brief history of insurance, theories of risk and discussion of all types of modern-day insurance. (4-0) 4

CAT 116—Photography I: 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. (2-4) 4

DES 120—Life Drawing: A study of the body structure with emphasis on the skeletal and muscular systems, movement and the aging process. Graphical interpretation and response to live models with emphasis on proportioning, masses and movement. (2-2) 3

DMK 240—Merchandise Planning and Control: Concerns itself with the scientific use of numbers in merchandising, and the figures and mathematical techniques that are employed to translate fashions into the profit-making activities of planning, pricing, and controlling quantities. (2-4) 4

DMK 249—Fashion Buying and Merchandising: Analyzes the buying function and the career opportunities in different types of fashion retailing enterprises, and studies the merchandising techniques that are used to forecast fashions, plan assortments, determine sources of supply, select merchandise, negotiate buying arrangements, and follow through on the sale of merchandise. (4-0) 4

DMK 260—Commercial Display Design: Examines display as a visual merchandising medium, and covers the principles of display design and their applications to fashion merchandising environs. (2-4) 4

ENG 101—Grammar and Composition I: Offers an historical survey of the English language, a review of English grammar, and an opportunity to improve written self-expression through expository essays and both primary and secondary research. (4-0) 4

ENG 103—Report Writing: The fundamentals of standard English are utilized as a background for the organization and techniques of modern report writing. Exercises in developing typical reports using writing techniques and graphic devices are completed by the students. The emphasis is on practical application of occupational writing demands. (4-0) 4

ENG 116—Journalism I: Emphasis will be placed on journalistic techniques and problems, developing an awareness of news, and questions of press freedom and responsibility. Practical experience will be gained through the production of the newspaper and yearbook. (4-0) 4

ENG 117—Journalism II: Continuation of ENG 116. (4-0) 4

ENG 204—Fundamentals of Speech: A study of basic concepts and principles of oral communications to enable the student to communicate with others. Emphasis is placed on the speaker's attitude, improving diction, voice and the application of particular techniques of theory to correct speaking habits and to produce effective oral presentation. Particular attention given to conducting meetings, conferences and interviews. (4-0) 4

FAS 101—Introduction to Fashion Marketing: Covers the nature of the business enterprises, and the industrial practices involved in the design, production, retailing and consumption of fashion products, with major emphasis on marketing activities and interrelationships. (4-0) 4

FAS 102—Elements and Coordination of Fashion: Examines the dynamics, language and coordination of fashion and analyzes the basic styles, sizes, construction, and workmanship of apparel products. (4-0) 4

FAS 103—Fashion Accessories: Concerns itself with the properties, characteristics, and construction of leather, fur, hosiery, intimate apparel, belts, umbrellas, millinery, wigs, jewelry, and cosmetics as they affect the knowledgeable buying and selling of these products. (4-0) 4

FAS 104—Fashion Sketching: To help students develop fashion sketching techniques for promoting designs which are already complete, for illustrations in magazines, newspapers, poster design, display, etc. Enables student to acquire knowledge of figure proportions. (2-2) 3.

FAS 108—Fashion Salesmanship: Covers the principles of salesmanship and their application to creative and effective techniques for selling fashion products, by means of role-playing selling situations. (4-0) 4

FAS 202—Modeling: A course in figure control, stance, carriage, and posture. (1-2) 2

FAS 208—Applied Fashion Merchandising: Provides students with opportunities to test and apply retail merchandising principles, practices and techniques, through the actual operation and management of a retail store. (1-4) 3

FAS 210—Fashion Sales Promotion I: 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. (3-2) 4

FAS 211—Fashion Sales Promotion II: Covers the types and objectives of the different sales promotion activities that are used to sell fashion products, and the specialized techniques and procedures that are employed to implement fashion shows, special events and publicity, culminating with the presentation of a fashion show. (4-0) 4

HUM 110—History of Costume: A study of the costumes of the ancient world, Europe and America and the effects of the social environment upon appearance and the evaluation of garments with special emphasis on the influence of history on modern concepts of dress. (4-0) 4

MAT 110—Principles of Mathematics I: A general course reviewing fundamental operations in math with emphasis on the use of fractions, ratios, percentages, proportions, and basic algebra used in practical problem solving. A general introduction to the metric system is included to help give the student a sound background in analyzing and solving several types of problems. (4-0) 4

PSY 206—Applied Psychology: A study of the principles of psychology that will be of assistance in the understanding of interpersonal relations of the job. Motivation, feelings and emotions are considered with particular reference to on-the-job problems. (4-0) 4

TEX 100—Fabric Science I: Analyzes textile fibers and the construction of fabrics, with emphasis on the properties that affect their hand, appearance, performance and end use. (4-0) 4.

TEX 101—Fabric Science II: Emphasizes the importance of the selection of appropriate fabrics for specific uses in apparel and home furnishings and discusses factors to be considered in examining the construction of garments or household textiles. (4-0) 4.

GENERAL OFFICE TECHNOLOGY

(RECEPTIONIST OR CLERK-TYPIST)

REQUIRED COURSES FOR GRADUATION

	<i>Course Title</i>	<i>Hours Class</i>	<i>Per Week Lab</i>	<i>Credit Hours</i>
BUS 101	Introduction to Business	4	0	4
BUS 102	Typewriting I (may be credited by exam)	2	2	3
BUS 103	Typewriting II (may be credited by exam)	2	2	3
BUS 104	Typewriting III (may be credited by exam)	2	2	3
BUS 109	Business Mathematics	4	0	4
BUS 110	Office Machines I	2	2	3
BUS 112	Filing	2	2	3
BUS 118	Secretarial Accounting I	4	4	6
BUS 119	Secretarial Accounting II	4	4	6
BUS 122	Payroll Accounting	2	2	3
BUS 201	Machine Dictation and Transcription	2	2	3
BUS 204	Business Communications	4	0	4
BUS 205	Advanced Typewriting	2	2	3
BUS 210	Typing Office Practice	2	2	3
BUS 211	Office Machines II- Duplicating Processes	0	2	1
BUS 214	Secretarial Procedures	2	2	3
ECO 102	Economics I	4	0	4
ECO 104	Economics II	4	0	4
ENG 100	Reading Dynamics (may be credited by exam)	4	0	4
ENG 101	Grammar and Composition I	4	0	4
ENG 102	Grammar and Composition II	4	0	4

Total credit hours required courses 75

Elective hours 33

Total credit hours required to graduate . . 108

ELECTIVE COURSES (SELECT AT LEAST 33 HOURS)

BUS 113	Charm and Personal Development	0	2	1
BUS 115	Business Law	4	0	4
BUS 117	Personal Law	4	0	4
BUS 219	Credit Procedures and Problems	4	0	4
BUS 229	Taxes	4	0	4
BUS 247	Business Insurance	4	0	4
BUS 271	Office Management	4	0	4
BUS 271	Office Management	4	0	4
EDP 101	Introduction to Data Processing	4	0	4
ENG 105	Masterpieces of World Literature	4	0	4
ENG 204	Fundamentals of Speech	4	0	4
POL 102	Government—National	4	0	4
PSY 101	Introduction to Psychology	4	0	4
SSC 201	Social Science Survey	4	0	4

Courses from other associate degree programs would be considered with consent of Business Department head.

Course Descriptions—General Office Technology

Each course listing begins with three capitalized letters and a number. This is the abbreviation of the course name and the number is the position in the curriculum. Following the number is the name of the course and a brief description of the course. Following the description may be a PR or CR or both. This means that there is a course that is a prerequisite or a corequisite. The numbers in parenthesis indicate the number of lecture and laboratory hours. The last number indicates the number of credit hours for completion of the course. The courses are listed alphabetically by the abbreviation of prefix letters.

BUS 101—Introduction to Business: 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. Student learns the basic fundamentals of the free enterprise system. (4-0) 4

BUS 102—Typewriting I: Introduction to the touch typewriting system with emphasis on correct techniques, mastery of the keyboard, simple business correspondence and tabulation. (2-2) 3

BUS 103—Typewriting II: 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. PR BUS 102 or equivalent. (2-2) 3.

BUS 104—Typewriting III: 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. PR BUS 103 (2-2) 3

BUS 109—Business Mathematics: This course stresses the fundamental operations and their application to business problems. Topics covered include: payrolls, price marking, interest and discount, commission taxes, and pertinent uses of mathematics in the field of business. (4-0) 4.

BUS 115—Business Law: A general course designed to acquaint the student with certain fundamentals and principles of business law, including contracts, negotiable instruments and agencies. (4-0) 4.

BUS 117—Personal Law: 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. (4-0) 4.

BUS 118—Secretarial Accounting I: This course is designed to teach the students the processes of recording, sorting, and summarizing data related to business transactions and events in a manner that facilitates classifying and summarizing the information and reporting and interpreting the results. Emphasis is placed on the sole proprietorship personal service enterprise. PR MAT 110 (4-4) 6.

BUS 119—Secretarial Accounting II: This course is designed to further develop the students' ability to analyze and record business transactions and report and interpret the results. Students are given an opportunity to apply accounting principles and skill in a unifying manner through the use of a practice set. PR BUS 118 (4-4) 6.

BUS 122—Payroll Accounting: A detailed study of federal and state regulations, computations, deductions and general accounting for payrolls. PR BUS 118 (2-2) 3

BUS 201—Machine Dictation and Transcription: Objective of this course is to develop skill in using various transcription machines and to transcribe correctly at the typewriter. The student will thereby, gain a knowledge of many kinds of business correspondence, increase her business vocabulary and develop an understanding of secretarial procedures. PR BUS 104 (2-2) 3.

BUS 204—Business Communications: Develops skills in techniques in writing business communications. Emphasis is placed on writing action-getting sales letters and prospectuses. Business reports, summaries of business conferences, letters involving credit, collections, adjustments, complaints, orders, acknowledgements, remittances and inquiry. (4-0) 4

BUS 205—Advanced Typewriting: 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 letters forms, methods of duplication, statistical tabulation, and the typing of reports, manuscripts and legal documents. PR BUS 104 (2-2) 3

BUS 210—Typing Office Practice: A course designed to familiarize the student with the correct typing of business correspondence. Emphasis is placed upon correct procedures and adaptability to varying office methods. PR BUS 205 (2-2) 3

BUS 211—Office Machines II-Duplicating Processes: 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. PR BUS 104 (0-2) 1.

BUS 214—Secretarial Procedures: Designed to acquaint the student with the responsibilities encountered by a secretary during a work day. Among these are the following: receptionist duties, handling the mail, telephone techniques, telegrams, office records, travel information,

purchasing of supplies, office organization and insurance claims. PR BUS 104 (2-2) 3.

BUS 219—Credit Procedures and Problems: Principles and practices in the extension of credit; collection procedures; laws pertaining to credit extension and collection are included. PR BUS 120 (4-0) 4

BUS 229—Taxes: Application of federal and state taxes to various business conditions. A study of the following taxes: income, payroll, intangible, capital gain, sales and use, excise and inheritance. (4-0) 4

BUS 247—Business Insurance: An introduction to insurance, what it is, what it does, and how it can best serve the individual and the business. Included are a brief history of insurance, theories of risk and discussion of all types of modern-day insurance. (4-0) 4

BUS 271—Office Management: 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. (4-0) 4

ECO 102—Economics I: The fundamental principles of economics including the institutions and practices 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 enterprise and to society at large. (4-0) 4

ECO 104—Economics II: Creates depth in principles of economics, including a penetration into the composition and pricing of national output, distribution of income, international trade and finance and economics problems. PR ECO 102 (4-0) 4.

EDP 101—Introduction to Data Processing: Fundamental concepts and operational principles of data processing systems, as an aid in developing a basic knowledge of computers, prerequisite to the detailed study of particular computer problems. (4-0) 4

ENG 100—Reading Dynamics: Designed to improve the student's ability to read rapidly and accurately with special emphasis on comprehension, vocabulary, critical and analytical reading skills, and the study of reading materials related to the student's curriculum. (4-0) 4

ENG 101—English Grammar and Composition I: Offers an historical survey of the English language, a review of English grammar, and an opportunity to improve written self-expression through expository essays and both primary and secondary research. (4-0) 4

ENG 102—English Grammar and Composition II: A continuation of ENG 101 with special emphasis on reading, expository writing and speaking in order to develop and enhance skills in basic rhetoric, simplified grammar, expanded vocabulary, and accurate spelling. Composition is designed to help the student write more easily by giving specific instruction regarding sentence structure, topic sentences, and paragraph development. PR ENG 101 (4-0) 4.

ENG 105—Masterpieces of World Literature: A study of novels, short stories, poetry, and non-fiction representative of both classic and contemporary world literature. (4-0) 4

ENG 204—Fundamentals of Speech: A study of basic concepts and principles of oral communications to enable the student to communicate with others. Emphasis is placed on the speaker's attitude, improving diction, voice and the application of particular techniques of theory to correct speaking habits and to produce effective oral presentation. Particular attention given to conducting meetings, conferences and interviews. (4-0) 4

MAT 110—Principles of Math I: A general course reviewing fundamental operations in math with emphasis on the use of fractions, ratios, percentages, proportions, and basic algebra used in practical problem solving. A general introduction to the metric system is included to help give the student a sound background in analyzing and solving several types of problems. (4-0) 4

POL 102—Government-National: 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, political parties will be studied, as will the general organization and function of the national government. (4-0) 4

PSY 101—Introduction to Psychology: A survey of the various fields of psychology, including the developmental process, motivation, emotion, frustration, and adjustment, attention and perception, and problems of group living. Attention is given to applications of these topics, to problems of study, self-understanding, and adjustment to the demands of society. (4-0) 4

SSC 201—Social Science Survey: An integrated course in the social sciences, drawing from the fields of anthropology, psychology, history and sociology. (4-0) 4

MEDICAL SECRETARIAL SCIENCE

REQUIRED COURSES FOR GRADUATION

	<i>Course Title</i>	<i>Hours Class</i>	<i>Per Week Lab</i>	<i>Credit Hours</i>
BIO 125	Anatomy and Physiology	4	0	4
BUS 101	Introduction to Business	4	0	4
BUS 102	Typewriting I (may be credited by exam)	2	2	3
BUS 103	Typewriting II (may be credited by exam)	2	2	3
BUS 104	Typewriting III	2	2	3
BUS 106	Shorthand I (may be credited by exam)	2	2	3
BUS 107	Shorthand II	2	2	3
BUS 108	Shorthand III	2	2	3
BUS 109	Business Math	4	0	4
BUS 110	Office Machines I	2	2	3
BUS 112	Filing	2	2	3
BUS 118	Secretarial Accounting I	4	4	6
BUS 119	Secretarial Accounting II	4	4	6
BUS 122	Payroll Accounting	2	2	3
BUS 183	Medical Terminology & Vocabulary I	4	0	4
BUS 202	Medical Dictation & Transcription I	2	2	3
BUS 203	Medical Dictation & Transcription II	2	2	3
BUS 204	Business Communication	4	0	4
BUS 205	Advanced Typewriting	2	2	3
BUS 206	Dictation & Transcription I	2	4 2	3
BUS 211	Office Machines II- Duplicating Processes	0	2	1
BUS 216	Medical Secretarial Procedures	2	2	3
BUS 229	Taxes	4	0	4
BUS 284	Medical Terminology & Vocabulary II	4	0	4
ENG 100	Reading Dynamics (may be credited by exam)	4	0	4
ENG 101	Grammar and Composition I	4	0	4
ENG 102	Grammar and Composition II	4	0	4

Total credit hours required courses 92

Elective hours 16

Total credit hours required to graduate . . . 108

ELECTIVE COURSES (SELECT AT LEAST 17 HOURS)

BUS 113	Charm and Personal Development	0	2	1
BUS 115	Business Law	4	0	4
BUS 117	Personal Law	4	0	4
BUS 229	Taxes	4	0	4
BUS 271	Office Management	4	0	4
ENG 105	Masterpieces of World Literature	4	0	4
ENG 204	Fundamentals of Speech	4	0	4
POL 102	Government—National	4	0	4
PSY 101	Introduction to Psychology	4	0	4
SSC 201	Social Science Survey	4	0	4

Courses from other associate degree programs would be considered with consent of Business Department head.

Course Descriptions

Each course listing begins with three capitalized letters and a number. This is the abbreviation of the course name and the number is the position in the curriculum. Following the number is the name of the course and a brief description of the course. Following the description may be a PR or CR or both. This means that there is a course that is a prerequisite or a corequisite. The numbers in parenthesis indicate the number of lecture and laboratory hours. The last number indicates the number of credit hours for completion of the course. The courses are listed alphabetically by the abbreviation of prefix letters.

BIO 125—Anatomy and Physiology: A study of the normal structures, functions and organ systems of the human body as an integrated unit. Suggested prerequisite: BUS 183 (4-0) 4

BUS 101—Introduction to Business: 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. Student learns the basic fundamentals of the free enterprise system. (4-0) 4

BUS 102—Typewriting I: Introduction to the touch typewriting system with emphasis on correct techniques, mastery of the keyboard, simple business correspondence, and tabulation. (2-2) 3

BUS 103—Typewriting II: 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. PR BUS 102 or equivalent. (2-2) 3

BUS 104—Typewriting III: 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. PR BUS 103 or equivalent (2-2) 3.

BUS 106—Shorthand I: A beginning course in the theory and practice of reading and writing shorthand. Emphasis on phonetics, penmanship, word families, brief forms and phrases. (2-2) 3

BUS 107—Shorthand II: Continued study of theory with greater emphasis on dictation and elementary transcription. PR BUS 106 or equivalent. (2-2) 3

BUS 108—Shorthand III: Theory and speed building. Introduction to office style dictation. Emphasis on development of speed in dictation and accuracy in transcription. PR BUS 107 (2-2) 3

BUS 109—Business Mathematics: This course stresses the fundamental operations and their application to business problems. Topics covered include: payrolls, price marking, interest and discount, commission taxes, and pertinent uses of mathematics in the field of business. (4-0) 4.

BUS 110—Office Machines I: A general survey of the business and office machines. Students will receive training in techniques, processes, operation and application of the ten-key adding machines, full keyboard adding machines and calculators. (2-2) 3

BUS 113—Charm and Personal Development: This course is designed to acquaint the secretarial student with various aspects of personal development that will enhance her femininity both on and away from the job. (0-2) 1

BUS 115—Business Law: A general course designed to acquaint the student with certain fundamentals and principles of business law, including contracts, negotiable instruments and agencies. (4-0) 4.

BUS 117—Personal Law: 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. (4-0) 4.

BUS 118—Secretarial Accounting I: This course is designed to teach the students the processes of recording, sorting, and summarizing data related to business transactions and events in a manner that facilitates classifying and summarizing the information and reporting and interpreting the results. Emphasis is placed on the sole proprietorship personal service enterprise. (4-4) 6

BUS 119—Secretarial Accounting II: This course is designed to further develop the student's ability to analyze and record business transactions and report and interpret the results. Students are given an opportunity to apply accounting principles and skill in a unifying manner through the use of a practice set. PR BUS 118 (4-4) 6.

BUS 122—Payroll Accounting: A detailed study of federal and state regulations, computations, deductions and general accounting for payrolls. PR BUS 118 (2-2) 3.

BUS 183—Medical Terminology and Vocabulary I: This course teaches the student the mechanics of understanding medical words—their roots, prefixes and suffixes. Student learns to spell, pronounce and define medical terms that she may encounter as a medical secretary. (4-0) 4

BUS 202—Medical Dictation and Transcription I: 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. PR BUS 183, BUS 205 (2-2) 3.

BUS 203—Medical Dictation and Transcription II: This course is a continuation of BUS 202. 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. PR BUS 202. (2-2) 3.

BUS 204—Business Communications: Develops skills in techniques in writing business communications. Emphasis is placed on writing action-getting sales letters and prospectuses. Business reports, summaries of business conferences, letters involving credit, collections, adjustments, complaints, orders, acknowledgements, remittances and inquiry. (4-0) 4

BUS 206—Dictation and Transcription I: Develops the skill of taking dictation and of transcription at the typewriter materials appropriate to the course of study, which includes a review of the theory and the dictation of familiar and unfamiliar material at varying rates of speed. PR BUS 108 (2-2) 3

BUS 211—Office Machines II—Duplicating Processes: This course is designed to prepare students to operate machines used in duplicating and copying processes. The student will develop an understanding of the functions of each machine and how to care for them. PR BUS 104. (0-2) 1.

BUS 216—Medical Secretarial Procedures: This course introduces the medical secretary to the activities, responsibilities, skills and work habits that she will encounter 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 PR BUS 104 (2-2) 3

BUS 229—Taxes: Application of federal and state taxes to various business conditions. A study of the following taxes: income, payroll, intangible, capital gain, sales and use, excise and inheritance. (4-0) 4

BUS 271—Office Management: 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. (4-0) 4

BUS 284—Medical Terminology and Vocabulary II: 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 as she studies basic anatomical terminology. Suggested PR BUS 183 (4-0) 4

ENG 100—Reading Dynamics: Designed to improve the student's ability to read rapidly and accurately with special emphasis on comprehension, vocabulary, critical and analytical reading skills, and the study of reading materials related to the student's curriculum. (4-0) 4

ENG 101—English Grammar and Composition I: Offers an historical survey of the English language, a review of English grammar, and an opportunity to improve written self-expression through expository essays

and both primary and secondary research. (4-0) 4

ENG 102—English Grammar and Composition II: English: A continuation of ENG 101 with special emphasis on reading, expository writing and speaking in order to develop and enhance skills in basic rhetoric, simplified grammar, expanded vocabulary, and accurate spelling. Composition is designed to help the student write more easily by giving specific instruction regarding sentence structure, topic sentences, and paragraph development. (4-0) 4 PR ENG 101

ENG 105—Masterpieces of World Literature: A study of novels, short stories, poetry, and non-fiction representative of both classic and contemporary world literature. (4-0) 4

ENG 204—Fundamentals of Speech: A study of basic concepts and principles of oral communications to enable the student to communicate with others. Emphasis is placed on the speaker's attitude, improving diction, voice and the application of particular techniques of theory to correct speaking habits and to produce effective oral presentation. Particular attention given to conducting meetings, conferences and interviews. (4-0) 4

POL 102—Government-National: 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, political parties will be studied, as will the general organization and functions of the national government. (4-0) 4

PSY 101—Introduction to Psychology: A survey of the various fields of psychology, including the developmental process, motivation, emotion, frustration and adjustment, attention and perception, and problems of group living. Attention is given to applications of these topics, to problems of study, self-understanding, and adjustment to the demands of society. (4-0) 4

SSC 201—Social Science Survey: An integrated course in the social sciences, drawing from the fields of anthropology, psychology, history and sociology. (4-0) 4

INDUSTRIAL MANAGEMENT TECHNOLOGY

Industry's needs in positions of supervision and mid-management have grown extensively with the development of new methods of manufacturing and with the increase in the national economy. This need has added emphasis to the necessity for well-trained individuals who can understand new methods and keep abreast of trends in the economy. The supervisor and persons in mid-management must be concerned daily with human behavior and the psychological factors which affect personnel working under their direction. They must also be conscious of the responsibilities of their position toward the total economic well-being of the industry.

These requirements have set forth the objectives in developing this program to prepare people for supervisory and mid-management responsibilities in industry.

The program is prepared to develop the individual's abilities in the art of communicating with his fellow worker by providing him with training in business and industrial management, psychology, production methods, and the general and social education that broadens one's perspective. This training should provide one with the opportunity to enter into an industrial occupation and, with experience, assume the responsibilities that go with mid-management positions in industry.

JOB DESCRIPTION:

The supervisor or foreman in industry coordinates the activities of workers. His duties may include interpretation of company policies to employees, planning production schedules, estimating manhour requirements for job completion, establishing or adjusting work procedures, analyzing and resolving work problems and motivating workers.

INDUSTRIAL MANAGEMENT TECHNOLOGY

REQUIRED COURSES FOR GRADUATION

	<i>Course Title</i>	<i>Class Hours</i>	<i>Lab Hours</i>	<i>Credit Hours</i>
BUS 233	Personnel Management	4	0	4
DFT 118	Graphics	4	0	4
ECO 201	Labor Economics	4	0	4
ENG 101	Grammar and Composition I	4	0	4
ENG 103	Report Writing	4	0	4
ENG 204	Fundamentals of Speech	4	0	4
ISC 101	Intro. to Occupational Safety and Health	4	0	4
ISC 120	Principles of Industrial Management I	4	0	4
ISC 121	Principles of Industrial Management II (Pre requisite ISC 120)	4	0	4
ISC 130	Industrial Mathematics I	4	0	4
ISC 131	Industrial Mathematics II (Pre requisite ISC 130)	4	0	4
ISC 202	Quality Control (Pre requisite ISC 131)	4	0	4
ISC 209	Plant Layout	4	0	4
ISC 210	Job Evaluation	4	0	4
ISC 211	Work Measurement	4	0	4
ISC 231	Production Planning I	4	0	4
ISC 214	Production Planning II (Pre requisite ISC 213)	4	0	4
ISC 218	Plant Security	4	0	4
ISC 220	Management Problems	4	0	4
PSY 125	The Art of Motivation	4	0	4
Total Credit Hours Required Courses				80
Electives				28
Total Credit Hours Required to Graduate. . .				108

ELECTIVE COURSES

BUS 115	Business Law I	4	0	4
BUS 116	Business Law II	4	0	4
BUS 117	Personal Law	4	0	4
BUS 123	Business Finance I	4	0	4
BUS 124	Business Finance II	4	0	4
BUS 255	Interpreting Accounting Records	4	0	4
EDP 104	Intro. to Data Processing Systems	4	0	4
ENG 100	Reading Dynamics	4	0	4
ISC 107	OSHA	4	0	4
ISC 113	Industrial Statistics	4	0	4
ISC 204	Value Analysis	4	0	4
ISC 212	Work Measurement II	4	0	4
NSC 102	Environmental Studies	4	0	4
POL 102	Government—National	4	0	4
POL 103	Government—State and Local	4	0	4
PSY 206	Applied Psychology	4	0	4

Other Courses in Associate Degree Programs may be substituted upon approval of Industrial Department Head.

Course Descriptions—Industrial Management

Each course listing begins with three capitalized letters and a number. This is the abbreviation of the course name and the number is the position in the curriculum. Following the number is the name of the course and a brief description of the course. Following the Description may be a PR or CR or both. This means that there is a course that is a prerequisite or a corequisite. The numbers in parenthesis indicate the number of lecture and laboratory hours. The last number indicates the number of credit hours for completion of the course. The courses are listed alphabetically by the abbreviation of prefix letters.

BUS 115—Business Law I: A general course designed to acquaint the student with certain fundamentals and principles of business law, including contracts, negotiable instruments and agencies. (4-0) 4.

BUS 116—Business Law II: Includes the study of laws pertaining to bailments, sales risk-bearing, partnership-corporation, mortgages and property rights. PR BUS 115 (4-0) 4.

BUS 117—Personal Law: 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. (4-0) 4.

BUS 123—Business Finance I: Financing of business units, as individuals, partnerships, corporations and trusts. A detailed study is made of short-term, long-term and consumer financing. (4-0) 4.

BUS 124—Business Finance II: Financing federal, state and local government and the ensuing effects upon the economy. Factors affecting supply of funds, monetary and credit policies. PR BUS 123 (4-0) 4.

BUS 233—Personnel Management: Principles of organization and management of personnel, procurement, placement, training, performance checking, supervision, remuneration, labor relations, fringe benefits, and security. (4-0) 4.

BUS 255—Interpreting Accounting Records: Designed to aid the student in developing a "use understanding" of accounting records, reports, and financial statements. Interpretation, analysis and utilization of accounting statements. (4-0) 4.

DFT 118—Graphics: Basic drafting fundamentals and blueprint reading are covered from a management point of view. The student will learn to use, read, and understand basic drafting techniques, blueprints, and scale drawing. (4-0) 4.

ECO 201—Labor Economics: Emphasis is placed on the history of the labor movement 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. (4-0) 4.

EDP 104—Introduction to Data Processing Systems: Fundamental concepts and operational principles of data processing systems, as an aid in developing a basic knowledge of computers, prerequisite to the detailed study of particular computer problems. (4-0) 4.

ENG 100—Reading Dynamics: Designed to improve the student's ability to read rapidly and accurately with special emphasis on comprehension, vocabulary, critical and analytical reading skills, and the study of reading materials related to the student's curriculum. (4-0) 4.

ENG 101—English Grammar and Composition I: Offers an historical survey of the English language, a review of English grammar, and an opportunity to improve written self-expression through expository essays and both primary and secondary research. (4-0) 4.

ENG 103—Report Writing: The fundamentals of standard English are utilized as a background for the organization and techniques of modern report writing. Exercises in developing typical reports using writing techniques and graphic devices are completed by the students. The emphasis is on practical application of occupational writing demands. (4-0) 4.

ENG 204—Fundamentals of Speech: A study of basic concepts and principles of oral communications to enable the student to communicate with others. Emphasis is placed on the speaker's attitude, improving diction, voice, and the application of particular techniques of theory to correct speaking habits and to produce effective oral presentation. Particular attention given to conducting meetings, conferences, and interviews. (4-0) 4.

ISC 101—Introduction to Occupational Safety and Health: An introduction to the principles of occupational safety and health and the hazards faced by persons employed in industrial plants. A survey course covering record-keeping requirements, first aid and the key man development preparing potential management and supervisory personnel for certificates in these areas. (4-0) 4.

ISC 107—Occupational Safety and Health Act: A survey of the Williams-Steiger Occupational Safety and Health Act of 1970. Application of the Federal Standards in various industries. (4-0) 4.

ISC 113—Industrial Statistics: An introduction to Descriptive and Inferential Statistics including the nature of statistics, elementary probability, random variables, statistical inference, analysis of variance and lineary regression. (4-0) 4.

ISC 120—Principles of Industrial Management I: 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 are studied. (4-0) 4.

ISC 121—Principles of Industrial Management II: Continuation of ISC 120. PR ISC 120 (4-0) 4.

ISC 130—Industrial Math I: Emphasis is placed on problem solving, research, and the metric system as they apply to actual and simulated management problems involving math. (4-0) 4.

ISC 131—Industrial Math II: Continuation of ISC 130. PR ISC 130 (4-0) 4.

ISC 202—Quality Control: Principles and techniques of quality control, organization, procedures, sampling inspections, quality control and tests for significance stressed. PR ISC 131 (4-0) 4.

ISC 204—Value Analysis: The modern concept in the manufacturing production. This course will provide the student an opportunity to study a production system with the specific purpose of identifying unnecessary cost by the use of sound decisions through a common sense approach. (4-0) 4.

ISC 209—Plant Layout: 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-sized plant, layout fundamentals, selection of production equipment and materials handling equipment. Effective management of men, money, and materials in a manufacturing operation. (4-0) 4.

ISC 210—Job Evaluation: This study is based on product studies as well as personnel and usage programs. The course utilized the study of product designs, value analysis, materials and process as an intricate part of productive procedures. (4-0) 4.

ISC 211—Work Measurement I: 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, operations charts, flow diagram and methods of evaluation are studied. (4-0) 4.

ISC 212—Work Measurement II: Continuation of ISC 211. PR ISC 211 (4-0) 4.

ISC 213—Production Planning I: Day to day plant direction; forecasting, product planning and control, scheduling, dispatching, work loading, routing and inventory control are studied. (4-0) 4.

ISC 214—Production Planning II: Continuation of ISC 213. PR ISC 213. (4-0) 4.

ISC 218—Plant Security: 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 firearms in an emergency situation, disaster preparedness, and handling of bomb scares. (4-0) 4.

ISC 220—Management Problems: 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. (4-0) 4.

ISC 231—Manufacturing Cycles: Purchasing and distribution costs, con-

sumption patterns, channels of distribution, marketing and consumer goods, shopping, specialty, agriculture and industrial goods, shipping, warehousing, pricing, and government regulation are studied. (4-0) 4.

NSC 102—Environmental Studies: A study of man's interaction with his physical environment, human problems arising from misuse of natural resources, and planning for and control of man's use of his environment with consideration for the future. (4-0) 4.

POL 102—Government—National: 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, political parties will be studied, as will the general organization and functions of the national government. (4-0) 4.

POL 103—Government—State and Local: A study of 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. (4-0) 4.

PSY 125—Art of Motivation: The importance of motivation to production is studied. Feelings and emotions are considered with particular reference to on-the-job situations. Employee selection, job satisfaction, and industrial conflicts are also stressed. (4-0) 4.

PSY 206—Applied Psychology: A study of the principles of psychology that will be of assistance in the understanding of interpersonal relations of the job. Motivation, feeling and emotions are considered with particular reference to on-the-job problems. (4-0) 4.

INDUSTRIAL SAFETY AND HEALTH TECHNOLOGY

Advancements made over the past few years in our industrial world have forced our attentions to the field of accident prevention.

In addition to the major efforts in the field of accident prevention today, the industrial world is still faced with the awful fact that over two million accidents occur each year in occupational activities with a cost to the nation of over four-and-one-half billion dollars.

Serious consideration must be given to the needs for getting results in accident prevention through the power of well-marshalled facts, persuasion, teaching and advising through the work of a specialist trained in all phases of accident prevention.

The Williams-Steiger Act, better known as the Occupational Safety and Health Act of 1970, is the most far-reaching legislated safety proposal that business and industry has been confronted with. The total inner working regulations of the federal occupational safety and health act demand even further the need for trained technicians in the field of accident prevention. The safety engineer technician is responsible for a sound management-oriented knowledge on the development of safe working conditions, human factors in machine and equipment safety, the reduction of noise, drugs and such problems, safety apparel and evaluation of safety performance in business and industry.

This curriculum provides a basic background in the areas of accident prevention, investigation analysis, insurance programs and their direct relation to profit and many other phases of industry. Students are trained to recognize hazards, analyze problems and recommend solutions to accident producing situations.

Opportunities in the field of safety and health technology are broad in scope. Employment will be found with business, industrial firms, governmental agencies, insurance companies, machinery manufacturers, research foundations, municipal and state departments. The industrial safety and health technician curriculum is planned to fill the needs of the individual for employment in these types of organizations.

INDUSTRIAL SAFETY AND HEALTH TECHNOLOGY

REQUIRED COURSES FOR GRADUATION

	<i>Course Title</i>	<i>Class Hours</i>	<i>Per Week Lab</i>	<i>Credit Hours</i>
ENG 101	Grammar & Composition I	4	0	4
ENG 103	Report Writing	4	0	4
ENG 204	Fundamentals of Speech	4	0	4
FIP 204	Multiple Line Insurance & Rating	4	0	4
FIP 205	Industrial Hazards & Fire Prevention	3	2	4
FIP 235	Inspection Principles & Practice	2	4	4
ISC 101	Intro. to Occupational Safety & Health	4	0	4
ISC 108	OSHA I	4	0	4
ISC 109	OSHA II	4	0	4
ISC 125	Traffic & Fleet Safety	4	0	4
ISC 130	Industrial Math I	4	0	4
ISC 203	Fund. of Elec. Machines & Controls	2	2	3
ISC 205	Personal Protective Safety Equipment	4	0	4
ISC 224	Elements of Industrial Hygiene	4	2	5
ISC 225	Techniques of Industrial Safety (PR ISC 224)	3	2	4
ISC 226	Hearing Conservation & Noise Control (PR ISC 224)	4	0	4
ISC 113	Industrial Statistics	4	0	4
PHY 101	Physics I	3	2	4
PHY 102	Physics II (PR PHY 101)	3	2	4
PSY 119	Safety Psychology & Management	4	0	4
Credit Hours Required Courses				80
Elective Hours				28
Total Hours				108

ELECTIVE COURSES

ENG 100	Reading Dynamics (may be credited by exam)	4	0	4
ENG 102	Grammar & Composition II	4	0	4
*ISC 120	Prin. of Industrial Management I	4	0	4
*ISC 121	Prin. of Industrial Management II (ISC 120 prerequisite)	4	0	4
*DFT 118	Graphics	4	0	4
FIP 216	Chemical and Radiation Hazards	3	2	4
*ISC 218	Plant Security	4	0	4
MAT 112	Metrics	4	0	4
PSY 206	Applied Psychology	4	0	4
BUS 117	Personal Law	4	0	4
PHY 103	Physics III (PR PHY 102)	3	2	4
*ISC 220	Management Problems	4	0	4

*At least 12 hours of electives must be in management area—courses identified by single asterisk

**Other courses may be substituted upon approval of the Industrial Department Head.

Course Descriptions—Industrial Safety & Health Technology

Each course listing begins with three capitalized letters and a number. This is the abbreviation of the course name and the number is the position in the curriculum. Following the number is the name of the course and a brief description of the course. Following the description may be a PR or CR or both. This means that there is a course that is a prerequisite or a corequisite. The numbers in parenthesis indicate the number of credit hours for completion of the course. The courses are listed alphabetically by the abbreviation of prefix letters.

BUS 117—Personal Law: 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. (4-0) 4.

DFT 118—Graphics: Basic drafting fundamentals and blueprint reading are covered from a management point of view. The student will learn to use, read, and understand basic drafting techniques, blueprints, and scale drawing. (4-0) 4

ENG 100—Reading Dynamics: Designed to improve the student's ability to read rapidly and accurately with special emphasis on comprehension, vocabulary, critical and analytical reading skills, and the study of reading materials related to the student's curriculum. (4-0) 4

ENG 101—English Grammar and Composition I: Offers an historical survey of the English language, a review of English grammar, and an opportunity to improve written self-expression through expository essays and both primary and secondary research. (4-0) 4

ENG 102—English Grammar and Composition II: A continuation of ENG 101 with special emphasis on reading, expository writing and speaking in order to develop and enhance skills in basic rhetoric, simplified grammar, expanded vocabulary, and accurate spelling. Composition is designed to help the student write more easily by giving specific instruction regarding sentence structure, topic sentences, and paragraph development. PR ENG 101 (4-0) 4.

ENG 103—Report Writing: The fundamentals of English are utilized as a background for the organization and techniques of modern report writing. Exercises in developing typical reports, using writing techniques and graphic devices are completed by the student. Practical application in the preparation of a full-length report is required of each student at the end of the term. (4-0) 4

ENG 204—Fundamentals of Speech: A study of basic concepts and principles of oral communications to enable the student to communicate with others. Emphasis is placed on the speaker's attitude, improving diction, voice and the application of particular techniques of theory to

correct speaking habits and to produce effective oral presentation. Particular attention given to conducting meetings, conferences and interviews. (4-0) 4

FIP 204—Multiple Line Insurance and Rating: A study of multiple line insurance, types of policies, selection, rate making, settlement of claims, handling of risk, and self-insurance. Types of rating schedules including the analytic and mercantile schedule. Methods of determining fire rating classification. (4-0) 4

FIP 205—Industrial Hazards and Fire Prevention: A study of hazardous processes in industries such as petroleum, furniture, chemical, tobacco, metal and textile, and the protection and precautions needed for personnel and property safety. Hazards that are related to heating plants, electrical systems, and storage in all industries. (2-2) 3

FIP 216—Chemical and Radiation Hazards: Intensive study and analysis of the special hazards encountered in the chemical and petroleum industries, radiation hazards, effects of radiation on humans, exposure control, radiological instruments, operational and decontamination procedures, common use of radioactive materials, transportation, and storage. Application of special inspection procedures. (2-2) 3

FIP 235—Inspection Principles and Practices: A study of the fundamentals of fire inspections including standards, techniques of evaluation of hazards as to the degree of the hazard, and practical recommendations. Reports including maps and sketches of each building inspected. On the-site inspections of buildings to locate hazards and to recommend safe practices and improvements. (4-4) 6

ISC 101—Introduction to Occupational Safety and Health: An introduction to the principles of occupational safety and health and the hazards faced by persons employed in industrial plants. A survey course covering record-keeping requirements, first aid, and the key man development preparing potential management and supervisory personnel for certificates in these areas (4-0) 4

ISC 108—Occupational Safety and Health I: A comprehensive study of the Williams-Steiger Occupational Safety and Health Act of 1970. Application of the Federal Standards and a study of standards in various industries. (4-0) 4

ISC 109—Occupational Safety and Health II: A continued study of the Occupational Safety and Health Act. Designed to provide a working knowledge of the requirements of the Act. (4-0) 4

ISC 113—Industrial Statistics: An introduction to Descriptive and Inferential Statistics including the nature of statistics, elementary probability, random variables, statistical inference, analysis of variance and linear regression. (4-0) 4.

ISC 120—Principles of Industrial Management I: The basic managerial decisions; organizational structure including plant location, building requirements, and internal factory organization; problems of factory or-

ganization and control, planning, scheduling, routing factory production, and labor control. (4-0) 4

ISC 121—Principles of Industrial Management II: Continuation of Principles of Industrial Management I. (4-0) 4

ISC 125—Traffic and Fleet Safety: A general study of certain problems connected with Motor Fleet Safety. Who governs motor fleet safety? What basic procedures safety engineers must know in dealing with motor fleet safety. (4-0) 4

ISC 130—Industrial Math I: Emphasis is placed on problem solving, research and the metric system as they apply to actual and simulated management problems involving math. (4-0) 4.

ISC 203—Fundamentals of Electrical Machines and Controls: A study of electrical concepts including voltage, current, esistance, capacitance, and inductance. These concepts are related to practical circuit applications by use of DC and AC theory utilizing Ohm's and Kirchhoff's Laws. The properties of reactance and impedance are investigated. Basic electric measuring devices along with electrical symbols and schematics are examined. (2-2) 3.

ISC 218—Plant Security: 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 firearms in an emergency situation, disaster preparedness, and handling of bomb scares. (4-0) 4.

ISC 220—Management Problems: A study of personnel and production problems from the standpoint of the executive. Includes selection and development of products, control problems and techniques, development of standards, employee-employer relations developing the executive staff. Case studies are utilized. PR BUS 233, BUS 272, ISC 120 (4-0) 4

ISC 224—Elements of Industrial Hygiene: 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. (4-2) 5.

ISC 225—Techniques of Industrial Safety: Course to develop ability to select and use appropriate field equipment to detect and monitor toxic substances under professional guidance. (3-2) 4.

ISC 226—Hearing Conservation and Noise Control: Study of the physics of vibration and sound. Physiological and psychological response to noise. Use of sound monitoring and hearing testing equipment. Engineering control and personal protection from vibration and noise. PR ISC 224 (4-0) 4.

MAT 112—Introduction to Metrics: A practical course involving the mathematical and algebraic solutions of problems encountered when using the metric system of measurements. (4-0) 4.

PHY 101—Physics I: A fundamental course covering several basic prin-

principles of physics. The divisions included are solids and their characteristics, liquids at rest and in motion, gas laws and applications. Laboratory experiments and specialized problems dealing with these topics are part of this course. (3-2) 4.

PHY 102—Physics II: Continuation of PHY 101. PR PHY 101 (3-2) 4.

PHY 103—Physics III: Continuation of PHY 102. PR PHY 102. (3-2) 4.

PSY 119—Safety Psychology and Management: A study of psychology and the Safety Engineer. Psychology at the root of accident causes and the relationship to accident causes and the relationship to accident prevention. Creation of early interest in safety psychology, the practical approach of psychology to industrial problems. (4-0) 4

PSY 206—Applied Psychology: A study of the principles of psychology that will be of assistance in the understanding of interpersonal relations on the job. Motivation, feelings and emotions are considered with particular reference to on-the-job problems. (4-0) 4



POLICE SCIENCE TECHNOLOGY

Law enforcement techniques have evolved from rather simple jobs, requiring simple qualifications, to more complex activities requiring a large capacity for highly specialized knowledge.

Today, educational institutions are becoming the training centers for tomorrow's policemen. The Police Science Training program is dedicated to the purpose of developing proficiency and leadership in these people.

The program is designed to provide occupational training for persons who have definite interest and adaptability to a law enforcement career. It offers practical, technical, and general instruction to meet the requirements of various law enforcement agencies and provides the students with the skills, knowledge, and attitudes necessary for employment at the operational level and for development toward management roles.

There is an increasing demand for properly trained law enforcement officers in industry, municipal, county, state, and federal agencies; and there is every reason to believe that the highly trained law enforcement officer will find challenging opportunities with public and private law enforcement services.

Law enforcement is that important division of government which is assigned with the power and responsibility to maintain order and enforce law. Its basic functions may be classified as prevention of crime, suppression of criminal activity, apprehension of offenders, preservation of the peace, regulation of non-criminal conduct, and the protection of life and property.

To the original and primary police functions of preserving the peace and maintaining law and order, the ever-widening scope of government activity has added a host of other duties to the various law enforcement agencies. They range from the regulation of traffic and the suppression of vice to the enforcement of minor laws and ordinances that regulate the minutiae of business and private life in a modern society.

POLICE SCIENCE TECHNOLOGY

REQUIRED COURSES FOR GRADUATION

	<i>Course Title</i>	<i>Hours Class</i>	<i>Per Week Lab</i>	<i>Credit Hours</i>
ENG 100	Reading Dynamics (may be credited by exam)	4	0	4
ENG 101	Grammar and Composition I	4	0	4
ENG 103	Report Writing	4	0	4
ENG 204	Fundamentals of Speech	4	0	4
POL 102	Government-National	4	0	4
PSC 101	Introduction to Law Enforcement	4	0	4
PSC 110	Juvenile Delinquency	4	0	4
PSC 115	Criminal Law	4	0	4
PSC 116	Laws of Arrest, Search, and Seizure	4	0	4
PSC 201	Traffic Planning and Management	4	2	5
PSC 205	Criminal Evidence	4	0	4
PSC 208	Patrol Procedures	4	0	4
PSC 209	Criminal Investigation I	4	0	4
PSC 210	Criminal Investigation II	4	0	4
PSC 211	Introduction to Criminalistics	4	2	5
PSC 220	Police Organization & Administration	4	0	4
PSC 225	Criminal Procedures	4	0	4
PSC 240	Defensive Tactics and Firearms	2	2	3
PSY 101	Introduction to Psychology	4	0	4
PSY 201	Abnormal Psychology	4	0	4
SOC 101	Introduction to Sociology	4	0	4

Total Credit Hours Required Courses 85

Elective Hours 23

Total Credit Hours Required to Graduate . . . 108

ELECTIVE COURSES (SELECT AT LEAST 18 HOURS)

BIO 101	Biology	3	2	4
ENG 102	Grammar and Composition I	4	0	4
MAT 110	Principles of Mathematics I	4	0	4
POL 103	Government-State and Local	4	0	4
PSC 102	Introduction to Criminology	4	0	4
PSC 202	Community Relations	2	0	2
PSY 103	Adolescent Psychology	4	0	4
PSY 102	Social Psychology	4	0	4

Courses from other associate degree programs would be considered with consent of Police Science Department head.

Course Descriptions—Police Science Technology

Each course listing begins with three capitalized letters and a number. This is the abbreviation of the course name and the number is the position in the curriculum. Following the number is the name of the course and a brief description of the course. Following the description may be a PR or CR or both. This means that there is a course that is a prerequisite or a corequisite. The numbers in parenthesis indicate the number of lecture and laboratory hours. The last number indicates the number of credit hours for completion of the course. The courses are listed alphabetically by the abbreviation of prefix letters.

BIO 101—General Biology: An introduction to biological principles including survey of living organisms and their relationship to their environment. (3-2) 4

ENG 100—Reading Dynamics: Designed to improve the student's ability to read rapidly and accurately with special emphasis on comprehension, vocabulary, critical and analytical reading skills, and the study of reading materials related to the student's curriculum. (4-0) 4

ENG 101—Grammar and Composition I: Offers an historical survey of the English language, a review of English grammar, and an opportunity to improve written self-expression through expository essays and both primary and secondary research. (4-0) 4

ENG 102—Grammar and Composition II: A continuation of ENG 101 with special emphasis on reading, expository writing and speaking in order to develop and enhance skills in basic rhetoric, simplified grammar, expanded vocabulary, and accurate spelling. Composition is designed to help the student write more easily by giving specific instruction regarding sentence structure, topic sentences, and paragraph development. PR ENG 101 (4-0) 4.

ENG 103—Report Writing: The fundamentals of English are utilized as a background for the organization and techniques of modern report writing. Exercises in developing typical reports, using writing techniques and graphic devices are completed by the student. Practical application in the preparation of a full-length report is required of each student at the end of the term. (4-0) 4

ENG 204—Fundamentals of Speech: A study of basic concepts and principles of oral communications to enable the student to communicate with others. Emphasis is placed on the speaker's attitude, improving diction, voice and the application of particular techniques of theory to correct speaking habits and to produce effective oral presentation. Particular attention given to conducting meetings, conferences and interviews. (4-0) 4

MAT 110—Principles of Math I: A general course reviewing fundamental operations in math with emphasis on the use of fractions, ratios, percentages, proportions, and basic algebra used in practical problem solving. A general introduction to the metric system is included to help give the student a sound background in analyzing and solving several types of problems. (4-0) 4

POL 102—Government-National: 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, political parties will be studied, as will the general organization and functions of the national government (4-0) 4

POL 103—Government-State and Local: A study of 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. (4-0) 4

PSC 101—Introduction to Law Enforcement: A general course to familiarize the student with a philosophy and history of law enforcement, including its legal limitations in a democratic republic, a survey of the primary duties and responsibilities of the various law enforcement agencies, a delineation of the basic processes of justice, an evaluation of law enforcement's current position, and an orientation relative to law enforcement as a vocation. (4-0) 4

PSC 102—Introduction to Criminology: Designed to give the student an overview of all law enforcement operations and divisions; such as, Patrol Division, Detective Division Traffic and Records Divisions. Court Procedures, Laws of Arrest, Juvenile Delinquency and Laboratory Criminal Investigation techniques will also be discussed. (4-0) 4

PSC 110—Juvenile Delinquency: A study of the nature and extent of juvenile delinquency; methods of research; delinquency and the law; delinquency causation and principles of delinquency control. Emphasis is on North Carolina Juvenile Delinquency procedures and practices. (4-0) 4

PSC 115—Criminal Law: Designed to present a basic concept of the various major criminal laws; such as, homicide, robbery, burglary, assault, etc. Historical development of each from such sources as English Common Law will be discussed. (4-0) 4

PSC 116—Laws of Arrest, Search and Seizure: The constitutional requirements and limitations for a lawful arrest and legal search and seizure. Federal and State judicial decisions concerning these requirements will be studied. (4-0) 4

PSC 201—Traffic Planning and Management: A study which covers the history of the traffic enforcement problem and gives an overview of the problem as it exists today. Attention will be given to the three “E’s” and the organization of the traffic unit. The responsibilities to the traffic function of the various units within the law enforcement agency, enforcement tactics, evaluation of the traffic program effectiveness, and the allocation of man and materials. (4-2) 5

PSC 202—Community Relations: Various aspects of Police-Community relations are studied, such as “The Rumor Clinic” and “Officer Friendly.” Other phases of community life in which the officer might help improve the image of Law Enforcement are discussed. Race Relations is one of the main topics of this course. Ways in which the officer might change and improve his image among the different races is studied and practical exercises are planned. (2-0) 2

PSC 205—Criminal Evidence: Instruction covers the kinds and degrees of evidence and the rules governing the admissibility of evidence in court. (4-0) 4

PSC 208—Patrol Procedures: Various functions of the Patrol Division, the basic divisions of the police force will be discussed. This course utilizes a “field problem” approach to learning by providing various alternatives of action on the part of the student. (4-0) 4

PSC 209—Criminal Investigation I: 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. (4-0) 4.

PSC 210—Criminal Investigation II: This is a continuation of Criminal Investigation I with emphasis on specific offenses such as homicide, burglary, robbery, larceny, narcotics, arson, and sex. PR PSC 209 (4-0) 4.

PSC 211—Introduction to Criminalistics: Study of Criminal investigation including a general survey of the methods and techniques used in modern scientific investigation of crime, with emphasis upon the practical use of these modern methods by the student. Laboratory techniques will be demonstrated and the student will participate in the actual use of the scientific laboratory and its equipment. (4-2) 5

PSC 220—Police Organization and Administration: Introduction to principles of organization and administration, personnel management, training, communication, records, property maintenance, and miscellaneous services will be discussed. (4-0) 4

PSC 225—Criminal Procedure: This course is designed to provide the student with a review of court systems procedures from incident to final disposition, principles of constitutional, federal, state and local as well as civil laws as they apply to and effect law enforcement. (4-0) 4

PSC 240—Defensive Tactics and Firearms: Actual firearms training including on the firing range practices, proper use and care of weapons will be demonstrated, with student participation. (2-2) 3

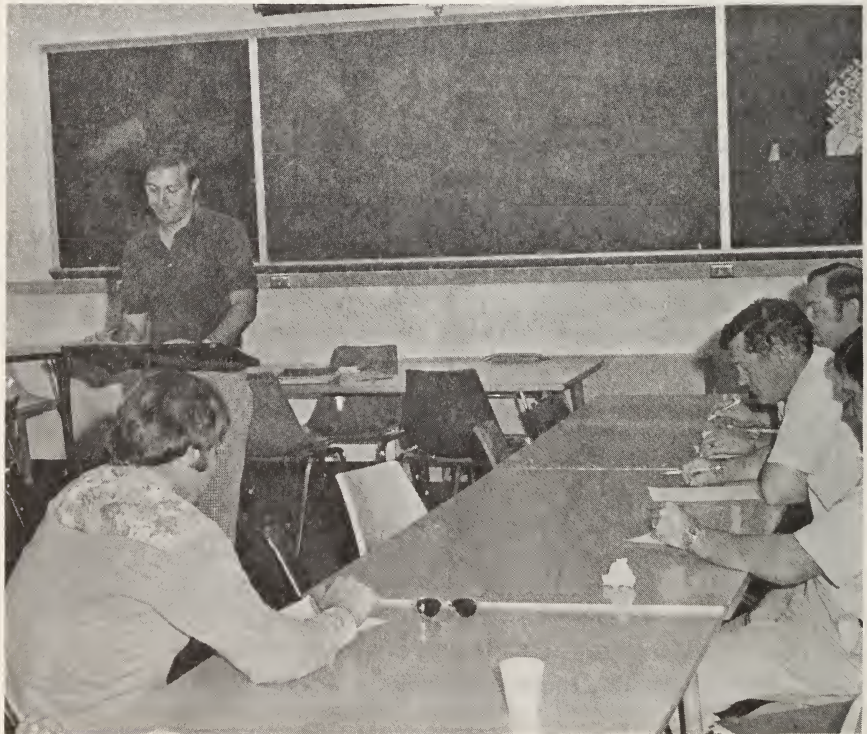
PSY 101—Introduction to Psychology: A survey of the various fields of psychology, including the developmental process, motivation, emotion, frustration, and adjustment, attention and perception, and problems of group living. Attention is given to application of these topics, to problems of study, self-understanding, and adjustment to the demands of society. (4-0) 4

PSY 103—Adolescent Psychology: A study of the nature and source of the problems of adolescents in western culture; physical, emotional, social, intellectual, and personality development of adolescents. (4-0) 4

PSY 201—Abnormal Psychology: Abnormal behavior studied in the context of modern life: Case studies, differential diagnoses, psychological dynamics of abnormal behavior, including theoretical, clinical and experimental contributions in the field. (4-0) 4

SOC 101—Introduction to Sociology: 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. (4-0) 4

PSY 102—Social Psychology: Designed to help the student understand man as a social animal and the effects of the group upon the individual, and vice versa. (4-0) 4.



POSTAL SERVICE TECHNOLOGY

In 1970 the United States Postal Service was created to accomplish the following goals in 1985: to provide better service to those who receive the mail; to become a more efficient business operation; to bring cost and revenue into balance (self-sufficient); to provide employees with a better future.

The Associate Degree Program in Postal Service Technology is designed to help meet these goals and turn out a new breed of trained manpower better prepared to take advantage of the management position vacancies existing in the new Postal Service.

Completion of the Associate Degree program will give the student information and knowledge of subject matter in the middle management range. No other source presently offers this level of postal training to employees below supervisory levels, and previously after achieving supervisory level, some years would pass before this level of training would be reached.

POSTAL SERVICE TECHNOLOGY

REQUIRED COURSES FOR GRADUATION:

	<i>Course Title</i>	<i>Hours Class</i>	<i>Per Week Lab</i>	<i>Credit Hours</i>
BUS 109	Business Mathematics	4	0	4
BUS 110	Office Machines	2	2	3
BUS 120	Accounting I	4	4	6
BUS 121	Accounting II	4	4	6
BUS 233	Personnel Management	4	0	4
ENG 100	Reading Dynamics	4	0	4
ENG 101	Grammar and Composition I	4	0	4
ENG 204	Fundamentals of Speech	4	0	4
ISC 107	Occupational Safety & Health Act	4	0	4
ISC 225	Techniques of Industrial Safety	4	0	4
POS 101	Postal Service History & Organization	4	0	4
POS 103	Postal Service Mail Processing I	4	0	4
POS 105	Postal Service Mail Processing II	4	0	4
POS 201	Postal Service Labor Management	4	0	4
POS 202	Postal Service (Support)	4	0	4
POS 203	Postal Customer Service	4	0	4
POS 205	Postal Service Delivery & Collection	4	0	4
POS 207	Postal Service (Maintenance)	4	0	4
POS 208	Postal Problems Analysis	4	0	4

Total credit hours required courses 79

Elective hours 29

Total credit hours required to graduate. . . . 108

ELECTIVE COURSES (SELECT AT LEAST 29 HOURS)

BUS 102	Typewriting I	2	2	3
BUS 219	Credit Procedures and Problems	4	0	4
BUS 222	Accounting III	4	4	6
BUS 229	Taxes	4	0	4
ECO 102	Economics I	4	0	4
ECO 104	Economics II	4	0	4
EDP 101	Introduction to Data Processing	4	0	4
ENG 102	Grammar and Composition II	4	0	4
ENG 103	Report Writing	4	0	4
ISC 125	Traffic & Fleet Safety	4	0	4
POL 102	Government—National	4	0	4
POL 103	Government—State and Local	4	0	4
PSY 202	Group Processes	4	0	4
PSY 206	Applied Psychology	4	0	4
SOC 101	Introduction to Sociology	4	0	4
SSC 201	Social Science Survey	4	0	4
SSC 205	American Institutions	4	0	4

Courses from other associate degree programs would be considered with consent of the Business Department head.

COURSE DESCRIPTIONS

Bus 102—Typewriting I: Introduction to the touch typewriting system with emphasis on correct techniques, mastery of the keyboard, simple business correspondence, and tabulation. (2-2) 3

BUS 109—Business Mathematics: This course stresses the fundamental operations and their application to business problems. Topics covered include payrolls, price marking, interest and discount, commission taxes and pertinent uses of mathematics in the field of business. (4-0) 4

BUS 110—Office Machines: A general survey of the business and office machines. Students will receive training in techniques, processes, operation and application of the ten-key adding machines, full keyboard adding machines and calculators. (2-2) 3

BUS 120—Accounting I: Principles, techniques, and tools of accounting, summarizing, analyzing and reporting information about service and mercantile enterprises, to include practical application of the principles learned. PR MAT 110 (4-4) 6

BUS 121—Accounting II: 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 of management problems. PR BUS 120 (4-4) 6

BUS 219—Credit Procedures and Problems: Principles and practices in the extension of credit; collection procedures; laws pertaining to credit extension and collection are included. PR BUS 120 (4-0) 4.

BUS 222—Accounting III: 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 capital. PR BUS 121 (4-4) 6

BUS 229—Taxes: Application of federal and state taxes to various business conditions. A study of the following taxes: income, payroll, intangible, capital gain, sales and use, excise and inheritance. (4-0) 4

BUS 233—Personnel Management: Principles of organization and management of personnel, procurement, placement, training, performance checking, supervision, remuneration, labor relations, fringe benefits and security. (4-0) 4

ECO 102—Economics I: The fundamental principles of economics including the institutions and practices 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 consumptions both in relation to the individual enterprise and to society at large. (4-0) 4

ECO 104—Economics II: Greater depth in principles of economics, including a penetration into the composition and pricing of national output, distribution of income, international trade and finance and economic problems. PR ECO 102 (4-0) 4

EDP 101—Introduction to Data Processing: Fundamental concepts and operational principles of data processing systems, as an aid in developing a basic knowledge of computers, prerequisite to the detailed study of particular computer problems. (4-0) 4

ENG 100—Reading Dynamics: Designed to improve the student's ability to read rapidly and accurately with special emphasis on comprehension, vocabulary, critical and analytical reading skills, and the study of reading materials related to the student's curriculum. (4-0) 4

ENG 101—Grammar and Composition I: Offers a historical survey of the English language, a review of English grammar, and an opportunity to improve written self-expression through expository essays and both primary and secondary research. (4-0) 4

ENG 102—Grammar and Composition II; A continuation of ENG 101 with special emphasis on reading, expository writing and speaking in order to develop and enhance skills in basic rhetoric, simplified grammar, expanded vocabulary, and accurate spelling. Composition is designed to help the student write more easily by giving specific instruction regarding sentence structure, topic sentences, and paragraph development. PR ENG 101 (4-0) 4

ENG 103—Report Writing: The fundamentals of standard English are utilized as a background for the organization and techniques of modern report writing. Exercises in developing typical reports using writing techniques and graphic devices are completed by the students. The emphasis is on practical application of occupational writing demands. (4-0) 4

ENG 204—Fundamental of Speech: A study of basic concepts and principles of oral communications to enable the student to communicate with others. Emphasis is placed on the speaker's attitude, improving diction, voice, and the application of particular techniques of theory to correct speaking habits and to produce effective oral presentation. Particular attention given to conducting meetings, conferences, and interviews. (4-0) 4

ISC 107—Occupational Safety and Health Act: A survey of the Williams-Steiger Occupational Safety and Health Act of 1970. Application of the Federal Standards in various industries. (4-0) 4

ISC 125—Traffic and Fleet Safety: A general study of certain problems connected with Motor Fleet Safety. Who governs motor fleet safety? What basic procedures safety engineers must know in dealing with motor fleet safety. (4-0) 4

ISC 225—Techniques of Industrial Safety: Course to develop ability to select and use appropriate field equipment to detect and monitor toxic substances under professional guidance. (4-0) 4

POL 102—Government—National: 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, political parties will be studied, as will the general organization and functions of the national government. (4-0) 4

POL 103—Government—State and Local: A study of 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. (4-0) 4

POS 101—Postal Service History and Organization: This course is designed to trace the delivery of written communication and merchandise through to present day modes. In so doing, the course will depict, and compare the private, corporate, and governmental agencies which have been and are responsible for mail service throughout the world, as well as the United States. The current postal organization will be studied to present its structure and functional relationships between divisions and other federal agencies. Policies and procedures, rules and regulations, will also be traced to and studied under the current organization. The history of and operations of the Postal Inspection Service will be presented as an integral but separate function to the above. (4-0) 4

POS 103—Postal Service Mail Processing I: This course is designed to provide the participant with an awareness of the interrelated factors necessary to achieve rapid separation of large amounts of mail within specified time and error parameters and on a cost effective basis. (4-0) 4

POS 105—Postal Service Mail Processing II: This course is designed to provide the student with an in-depth view of revenue determination procedures and flow characteristics involved in receipt, processing and dispatch of second, third, and fourth class mail. (4-0) 4

POS 201—Postal Service Labor Management: Overview of laws and practices as related to Labor-Management in the Postal Service. Current status and current problems and/or issues. The National and Local Agreements; the various bargaining units and associations in the USPS; the grievance policy and procedure, the disciplinary action policy and procedure, and the National Labor Relations Board. (4-0) 4

POS 202—Postal Service Support: This course covers the ancillary functions of the Support area such as office services, administrative services and bulk accountable paper, accounting, storage and distribution. (4-0) 4

POS 203—Postal Customer Service: This course is designed to provide the student with an in-depth knowledge of all services provided to postal customers. Includes customer relations, retailing postal services and non-postal services. (4-0) 4

POS 205—Postal Service Delivery & Collections: The purpose of this course is to introduce the student to the problems, and solutions to the problems, encountered in collecting mail from multiple, diverse points and transporting it in a time and cost effective manner to collection centers for processing and conversely in distribution mail from one or more processing points to multiple, diverse recipients. (4-0) 4

POS 207—Postal Service Maintenance: The objective is to introduce the student to the maintenance organizational structures of the Postal Service. The student will be able to describe the three primary areas of maintenance and will be knowledgeable in the responsibilities of each element. (4-0) 4

POL 208—Postal Problems Analysis: Presents postal problems for which the student must use system analysis, problem-solving grids, and decisions by objectives to analyze and specify the dimensions of the problems; identify and test possible causes; assess adverse consequences of possible causes, objectives, and solutions; and analyze and test alternatives decided upon as possible objective solutions. (4-0) 4

PSY 202—Group Processes: A study of group dynamics and leadership roles utilizing group experimentations. Applicability to other settings is also explored. (4-0) 4

PSY 206—Applied Psychology: A study of the principles of psychology that will be of assistance in the understanding of interpersonal relations of the job. Motivation, feelings, and emotions are considered with particular reference to on-the-job problems. (4-0) 4

SOC 101—Introduction to Sociology: 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. (4-0) 4

SSC 201—Social Science Survey: An integrated course in the social science, drawing from the fields of anthropology, psychology, history and sociology. (4-0) 4

RADIOLOGIC (X-RAY) TECHNOLOGY

In recent years the demand for increased knowledge on the part of the X-Ray Technologist has been brought about by new techniques. Technology students must become familiar with other sources of radiation as well as mastering the X-Ray technique. With this knowledge they can properly assist the physician. The program at CCTI provides opportunity for training in this science.

The technician may assist in examining for broken bones, tumors or other malfunctioning organs. Other tasks may include maintaining equipment, ordering supplies, keeping records and mixing solutions. During the two year training the student will be expected to take night call and work periodically over the weekends.

After successful completion of two years of study the student is eligible to take the American Registry Examination which is recognized by the American Medical Association. Passing this examination qualifies the student to use the abbreviation, R.T., Registered Technologist.

RADIOLOGIC TECHNOLOGY

SEQUENCE OF COURSES FOR GRADUATION

	<i>Course Title</i>	<i>Hours Class</i>	<i>Per Week Lab</i>	<i>Clinical</i>	<i>Credit Hours</i>	
<i>First Quarter</i>						
✓	ENG 101	Grammar and Composition I	4	0	0	4
✓	PHY 107	Physics I	3	2	0	4
✓	BIO 107	Anatomy and Physiology I	4	2	0	5
✓	RDT 101	Radiologic Technology I	4	2	0	5
✓	RDT 111	Clinical Education	0	0	19	6
			15	6	19	24
<i>Second Quarter</i>						
✓	ENG 102	Grammar and Composition II	4	0	0	4
✓	BIO 108	Anatomy and Physiology II	4	2	0	5
✓	RDT 102	Radiologic Technology II	4	2	0	5
✓	RDT 112	Clinical Education	0	0	21	7
✓	PHY 108	Physics II	3	2	0	4
			15	6	21	25
<i>Third Quarter</i>						
✓	ENG 103	Report Writing	4	0	0	4
✓	RDT 103	Radiologic Technology III	4	2	0	5
✓	RDT 113	Clinical Education	0	0	24	8
✓	RDT 104	Topographic Anatomy	2	0	0	2
✓		Elective from Gen. Ed. courses	4	0	0	4
			14	2	24	23

Fourth Quarter						
✓	RDT 114	Clinical Education	2	0	30	12
	RDT 115	Film Critique I	<u>1</u>	<u>2</u>	<u>0</u>	<u>2</u>
			3	2	30	14
Fifth Quarter						
✓	ENG 204	Fundamentals of Speech	4	0	0	4
✓	RDT 204	Radiologic Technology IV	4	2	0	5
✓	RDT 215	Clinical Education	0	0	25	8
✓	BIO 208	Pathology for Paramedical Personnel	<u>3</u>	<u>2</u>	<u>0</u>	<u>4</u>
			11	4	25	21
Sixth Quarter						
✓	PSY 101	Introduction to Psychology	4	0	0	4
	RDT 205	Radiologic Technology V	4	2	0	5
✓	RDT 216	Clinical Education	<u>0</u>	<u>0</u>	<u>30</u>	<u>10</u>
			8	2	30	19
Seventh Quarter						
✓	SOC 201	Sociology	2	0	0	2
✓	RDT 206	Radiologic Technology VI	4	0	0	4
✓	PSY 201	Abnormal Psychology	4	0	0	4
✓	RDT 217	Clinical Education	<u>0</u>	<u>0</u>	<u>30</u>	<u>10</u>
			10	0	30	20
Eighth Quarter						
	RDT 218	Clinical Education	2	0	30	12
	RDT 219	Film Critique II	<u>1</u>	<u>2</u>	<u>0</u>	<u>2</u>
			3	2	30	14

Course Descriptions—Radiologic Technology

Each course listing begins with three capitalized letters and a number. This is the abbreviation of the course name and the number is the position in the curriculum. Following the number is the name of the course and a brief description of the course. Following the description may be a PR or CR or both. This means that there is a course that is a prerequisite or a coresquisite. The numbers in the parenthesis indicate the number of lecture, laboratory, and clinic hours. The last number indicates the number of credit hours for completion of the course. The courses are listed alphabetically by the abbreviation of prefix letters.

BIO 107—Anatomy & Physiology I: 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 system; and the special senses. A laboratory portion should include relevant experiments to augment the student's learning of body structure and functions. (4-0-2) 5

BIO 108—Anatomy & Physiology II: A continuation of the study of the structure and normal function of man as a living organism. Special emphasis on the circulatory, lymphatic, respiratory, digestive, urinary,

endocrine, and reproductive systems and fluid and electrolyte balance. Laboratory experiences include study of models and small animal dissection for insight into comparative structure and function of man. (4-0-2) 5

BIO 208—Pathology for Paramedical Personnel: A detailed study of the various diseases with emphasis on the ones most commonly seen in the Radiology Department. Radiographic appearance of the disease and the effect on radiographic exposure will be dealt with in depth. (3-0-2) 4

ENG 101—English Grammar and Composition I: Offers an historical survey of the English language, a review of English grammar, and an opportunity to improve written self-expression through expository essays and both primary and secondary research. (4-0) 4

ENG 102—English Grammar and Composition II: English: A continuation of ENG 101 with special emphasis on reading, expository writing and speaking in order to develop and enhance skills in basic rhetoric, simplified grammar, expanded vocabulary, and accurate spelling. Composition is designed to help the student write more easily by giving specific instruction regarding sentence structure, topic sentences, and paragraph development. (4-0) 4

ENG 103—Report Writing: The fundamentals of standard English are utilized as a background for the organization and techniques of modern report writing. Exercises in developing typical reports using writing techniques and graphic devices are completed by the student. The emphasis is on practical application of occupational writing demands. (4-0) 4

ENG 204—Fundamentals of Speech: A study of basic concepts and principles of oral communications to enable the student to communicate with others. Emphasis is placed on the speaker's attitude, improving diction, voice and the application of particular techniques of theory to correct speaking habits and to produce effective oral presentation. Particular attention given to conducting meetings, conferences and interviews. (4-0) 4

PHY 107—Physics I: 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; production and control of high voltage and rectification; x-ray tubes and rectifiers and an introduction to therapy and nuclear medicine. (3-2-0) 4

PHY 108—Physics II: A continuation of PHY 107. (3-2-0) 4

PSY 101—Introduction to Psychology: A survey of the various fields of psychology, including the developmental process, motivation, emotion, frustration, and adjustment, attention and perception, and problems of group living. Attention is given to applications of these topics, to prob-

lems of study, self-understanding, and adjustment to the demands of society. (4-0) 4

PSY 201—Abnormal Psychology: Abnormal behavior studied in the context of modern life: Case studies, differential diagnoses, psychological dynamics of abnormal behavior, including theoretical, clinical and experimental contributions in the field. (4-0) 4

RDT 101—Radiologic Technology I: The student is given an orientation to the field of Radiologic Technology. He is taught darkroom chemistry and film processing, the basic principles of radiographic exposure, elementary patient care procedures, and he is introduced to radiographic positioning as applied to the appendicular skeleton. (4-0-2) 5

RDT 102—Radiologic Technology II: The student is taught the radiographic principles and basic radiographic positioning necessary to perform diagnostic studies of the axial skeleton. Further patient care procedures and medical terminology are included. (4-0-2) 5

RDT 104—Topographic Anatomy: This course will cover the use of external "landmarks" in locating internal structures and organs. Emphasis will be placed on the students ability to quickly locate structures he cannot see. This relationship to radiographic positioning will be stressed. (2-0-0) 2

RDT 111—Clinical Education: Practical experience in a clinical setting including processing of radiographs, practice in ethical and attitudinal situations during patient contact patient care and basic positioning for studies of upper and lower limbs, shoulder and pelvic girdles. The student will also apply some of the simpler principles of radiographic exposure. There will be regular sessions of film critique. (0-0-19) 6

RDT 112—Clinical Education: Practical experience in clinical setting. The student will continue to improve his basic skills in darkroom technique and patient positioning for routine studies of upper and lower limbs and the shoulder and pelvic girdles. He will practice the techniques for roentgenographic studies of the skull and spine. There will be regular sessions of film critiques. (0-0-24) 8

RDT 113—Clinical Education: Practical experience in a clinical setting with emphasis on the preparation and use of contrast media, preparation of the patient for such studies and the performance of examination of the digestive tract, biliary tract, and urinary tract using contrast media. The student will be working in fluroscopy and will also make radiographs of the abdominal and thoracic viscera without the use of contrast media. Soft tissue radiography (excluding of mammography and location of foreign bodies) will be touched upon. (0-0-22) 7

RDT 114—Clinical Education: The student will spend the entire quarter gaining clinical experience and developing skill in the techniques of special procedures. (2-0-30) 12.

RDT 204—Radiologic Technology IV: This course is a continuation of the Radiologic Technology series. The content covered in this Quarter con-

cerns radiation protection; equipment maintenance, more advanced work in the radiography of the skeleton and the art of pediatric radiology. Special views and techniques for diagnostic radiology of the skeleton will be emphasized. (4-0-2) 5

RDT 205—Radiologic Technology V: The study this quarter is confined to special radiographic procedures. Areas to be covered are Photo fluorography; Bronchography; Mammography; Sialography, Pelvimetry; Bed side radiography and operating room procedures. (4-0-2) 5

RDT 206—Radiologic Technology VI: During this quarter the basics of Radiation Therapy and Nuclear Medicine will be covered. (4-0-0) 4

RDT 215—Clinical Education: Practice will cover radiography of the skeleton, the thoracic and abdominal viscera, and examination of the abdominal viscera using contrast media and fluoroscopy. Emphasis will be placed on the students ability to do pediatric radiography. (0-0-25) 8

RDT 216—Clinical Education: Emphasis this quarter will be placed on the students ability to assist and perform procedures studied in RDT 205. The student will be required to show proficiency in all of these areas. (0-0-30) 10

RDT 217—Clinical Education: Some emphasis will be placed on the student getting experience in therapy and Nuclear Medicine procedures but the prime emphasis will be on the student's ability to perform all the procedures learned at this point in his education. (0-0-30) 10

RDT 218—Clinical Education: Two hours per week will be devoted to a complete review of all subject areas covered during the course. The lab portion will allow the student to perform and become more proficient in the Radiographic procedures learned during the entire course. (2-0-30) 12.

SOC 201—Sociology: A study of the fundamental principles and concepts of sociology, with emphasis on contemporary American Institutions in relation to technological change, ethnic groups, population trends, and social control. (2-0-0) 2.



VOCATIONAL DIPLOMA PROGRAMS

AIR CONDITIONING AND REFRIGERATION

PURPOSE OF CURRICULUM:

In recent years the use of air conditioning and refrigeration equipment has increased tremendously. Practically all new building construction for business and commercial use have "all year" comfort systems. Many homes now have air conditioning and trend is toward greater use of refrigeration or cooling and heating. The food industry has required greater use of refrigeration systems in freezing, storage and display of products. With this great upswing in the use of air conditioning and refrigeration equipment, a greater demand is made on trained personnel to install, operate, maintain and service this equipment.

This curriculum is designed to give the students practical knowledge that will enable them to become capable service men in the industry. The principal objective has been to outline the required technical and related instruction to enable them to understand the basic principles involved in the construction, operation and maintenance of equipment. Job opportunities exist with companies that specialize in air conditioning, automatic heating, sheet metal and commercial refrigeration installation and service. The serviceman is employable in areas of sales, maintenance, installation and in the growing fields of truck and trailer refrigeration.

AIR CONDITIONING-REFRIGERATION

FIRST QUARTER

	<i>Course Title</i>	<i>Hours Class</i>	<i>Per Week Shop</i>	<i>Credit Hours</i>
AHR 1121	Principles of Refrigeration	4	12	8
ELC 1104	Applied Electricity	1	3	2
WLD 1101	Basic Gas Welding	1	3	2
ENG 1102	Communications Skills	3	0	3

SECOND QUARTER

AHR 2211	Domestic and Commercial Heating	3	9	6
AHR 1128	Automatic Controls	2	6	4
MAT 1101	Fundamentals of Mathematics	4	0	4
*BUS 1103	Small Business Operations	3	0	3

THIRD QUARTER

AHR 1123	Principles of Air Conditioning	4	12	8
PHY 1101	Applied Physics I	4	0	4
DFT 1104	Blueprint Reading: Mechanical	1	3	2

FOURTH QUARTER

AHR 1124	Air Conditioning & Refrigeration Servicing	2	9	5
AHR 1122	Domestic and Commercial Refrigeration	2	9	5
*PSY 1101	Human Relations	4	0	4

***APPROVED ELECTIVES**

BUS 1103	Small Business Operations	3	0	3
DFT 1116	Blueprint Reading: Air Conditioning	0	3	1
ENG 1101	Reading Improvement	3	0	3
MAT 1102	Algebra	3	0	3
MEC 1120	Duct Construction and Maintenance	2	6	4
PSY 1101	Human Relations	4	0	4
Total Credit Hours Required For Graduation				
Required Courses	 53		
Elective Courses	 <u>7</u>		
TOTAL	 60		

Course Descriptions—Air Conditioning and Refrigeration

Each course listing begins with three capitalized letters and a number. This is the abbreviation of the course name and the number is the position in the curriculum. Following the number is the name of the course and a brief description of the course. Following the description may be a PR or CR or both. This means that there is a course that is a prerequisite or a corequisite. The numbers in parentheses indicate the number of lecture, laboratory, and shop hours. The last number indicates the number of credit hours for completion of the course. The courses are listed alphabetically by the abbreviation of prefix letters.

AHR 1121—Principles of Refrigeration: An introduction to the principles of refrigeration, terminology, the use and care of tools and equipment and the identification and function of the component parts 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. (4-0-12) 8

AHR 1122—Domestic and Commercial Refrigeration: Domestic refrigeration servicing of conventional, hermetic and absorption systems. Cabinet care, controls and system maintenance in domestic refrigerators, freezers and window air conditioning units is stressed. Commercial refrigeration servicing of display cabinets, walk-in cooler and freezer units and mobile refrigeration systems is studied. The use of manufacturers' catalogs in sizing and matching system components and a study of controls, refrigerants, servicing methods is made. The American Standard Safety Code for Refrigeration is studied and its principles practiced. Prerequisite: AHR 1121 (2-0-9) 5

AHR 1123—Principles of Air Conditioning: 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 psychrometric charts in determining needs to pro-

duce 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 (4-0-12) 8

AHR 1124—Air Conditioning and Refrigeration Servicing: 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 (2-0-9) 5

AHR 1126—All Year Comfort Systems: Auxiliary equipment used in conjunction with refrigeration systems to provide both heating and cooling for "all year" comfort will be studied and set up in the laboratory. Included will be oil fired systems, water circulating systems and electric-resistance systems. Installation of heat pumps will be studied along with servicing techniques. Reversing valves special types of thermostatic expansion valves, systems of de-icing coils, and electric wiring and controls are included in the study. Prerequisites: AHR 1123, AHR 1128 (3-0-9) 6

AHR 1128—Automatic Controls: 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. Prerequisites: AHR 1122 (2-0-6) 4

BUS 1103—Small Business Operations: An introduction to the business world, problems of small business operation, basic business law, business forms and records, financial problems, ordering and inventorying, layout of equipment and offices, methods of improving business and employer-employee relations. (3-0-0) 3

DFT 1104—Blueprint Reading: Mechanical-Interpretation and reading of blueprints. Information on the basic principles of the blueprint; lines, views, dimensioning procedures and notes. (1-0-3) 2

DFT 1116—Blueprint Reading: Air Conditioning: 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 systems. (0-0-3) 1

ELC 1104—Applied Electricity: 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. (1-3) 2.

BUS 1103—Small Business Operations: An introduction to the business world, problems of small business operation, basic business law, business forms and records, financial problems, ordering and inventorying, layout of equipment and offices, methods of improving business and employer-employee relations. (3-0-0) 3

DFT 1104—Blueprint Reading: Mechanical-Interpretation and reading of blueprints. Information on the basic principles of the blueprint; lines, views, dimensioning procedures and notes. (1-0-3) 2

DFT 1116—Blueprint Reading: Air Conditioning: 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 systems. (0-0-3) 1

ELC 1104—Applied Electricity: 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. (2-2-0) 3

ENG 1101—Reading Improvement: Designed to improve overall reading efficiency with special emphasis on purpose, comprehension, word recognition skills, and the study of reading materials related to the student's curriculum. (3-0-0) 3

ENG 1102—Communication Skills: Designed to develop an appreciation of both the business and social values of standard grammar. The skills needed for efficient communication in both writing and speaking are practical in short essays and oral presentations. (3-0-0) 3

MAT 1101—Fundamentals of Mathematics: An introductory course reviewing addition, subtraction, multiplication, and division with emphasis on fractions, ratios, percentages, and proportions. Basic algebra, trigonometry, and an introduction to the metric system of measurements are included. (4-0-0) 4

MAT 1102—Algebra: A continuation of MAT 1101, this course emphasizes several algebraic, trigonometric, and geometric methods of practical problem solving. (3-0-0) 3

MEC 1120—Duct Construction and Maintenance: Study of various duct materials including sheet steel, aluminum, and fiber glass. Safety, sheet metal hand tools, cutting and shaping machines, fasteners and fabrication practices, layout methods, and development of duct systems. (2-0-6) 4.

PHY 1101—Applied Physics I: An introduction to physical principles and their application in industry. Topics in this course include measurements, properties of solids, liquids, gases, and basic electrical principles. (4-0-0) 4

PSY 1101—Human Relations: 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. (4-0-0) 4

WLD 1101—Basic Gas Welding: 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. (1-0-3) 2

AUTO BODY REPAIR

The field of automotive body repair and painting requires a large number of well-trained people to meet the growing demand for the many skills needed in this area of employment. People with a background of knowledge and skill in this field have excellent opportunities for jobs with good salaries. Many of these craftsmen, after gaining additional experience, go on to open their own businesses or become body shop foremen, supervisors or managers.

The curriculum devotes much of the student's time in the shop to the learning of the necessary skills and practicing of these skills on cars bodies and components. Every attempt is made to make these practical experiences as similar to the actual on-the-job work as possible. The shop and equipment are well-suited to prepare one for entry into an occupation offering many job opportunities. A graduate from this curriculum will receive a diploma from the institute.

AUTO BODY REPAIR

		<i>Class Hours</i>	<i>Shop Hours</i>	<i>Credit Hours</i>
<i>FALL</i>				
*ENG 1101	Reading Improvement	3	0	3
MAT 1101	Fundamentals of Mathematics	4	0	4
PHY 1101	Applied Physics I	4	0	4
AUT 1111	Auto Body Repair	3	12	7
WLD 1101	Basic Gas Welding	1	3	2
<i>WINTER</i>				
ENG 1102	Communication Skills	4	0	4
*PHY 1102	Applied Physics II	4	0	4
*DFT 1101	Schematics & Diagrams: Power Mechanics	0	3	1
AUT 1112	Auto Body Repair	4	15	9
<i>SPRING</i>				
WLD 1105	Auto Body Welding	0	3	1
AUT 1113	Metal Finishing and Painting	3	12	7
AUT 1115	Trim, Glass and Radiator Repair	3	9	6
<i>SUMMER</i>				
AUT 1114	Body Shop Applications	2	21	9
*PSY 1101	Human Relations	4	0	4
*BUS 1103	Small Business Operations	3	0	3
*ELECTIVES				

APPROVED ELECTIVES

ENG 1101	Reading Improvement	3	0	3
DFT 1101	Schematics & Diagrams: Power Mechanics	1	3	2

PSY 1101	Human Relations	4	0	4
BUS 1103	Small Business Operations	3	0	3
AUT 1116	Specialty Paints	1	3	2
AUT 1117	Frame Straightening	1	3	2
PME 1227	Power Accessories	1	3	2
PHY 1102	Applied Physics II	4	0	4
MEC 1101	Machine Shop Theory & Practice	1	3	2
Total Credit Hours Required for Graduation				
Required Courses		53		
Elective Courses		<u>7</u>		
TOTAL		60		

Course Descriptions—Auto Body Repair

Each course listing begins with three capitalized letters and a number. This is the abbreviation of the course name and the number is the position in the curriculum. Following the number is the name of the course and a brief description of the course. Following the description may be a PR or CR or both. This means that there is a course that is a prerequisite or a corequisite. The numbers in parenthesis indicate the number of class, shop, and credit hours. The last number indicates the number of credit hours for completion of the courses. The courses are listed alphabetically by the abbreviation of prefix letters.

AUT 1111—Auto Body Repair I: Basic principles of automobile construction, design and manufacturing. A thorough study of angles, crown and forming of steel into the complex contour of the present day vehicles. The student applies the basic principles of straightening, aligning and painting of damaged areas. (3-12) 7

AUT 1112—Auto Body Repair II: 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. (4-15) 9

AUT 1113—Metal Finishing and Painting: 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. (3-12) 7

AUT 1114—Body Shop Applications: 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. (2-21) 9.

cessories. Glass removal, cutting, fitting and installation. The student gains a thorough knowledge of the engine cooling system and repairs and replaces damaged cooling system components. Tests are made to insure normal engine cooling operation. (3-9) 6

AUT 1116—Specialty Paints: A study of the use and applications of various special paints and finishes such as special effects colors and finishes, sprayed vinyl coatings and luggage compartment coatings. (1-3) 2

AUT 1117—Frame Straightening: An advanced study of the various automobile frame structures and the various types of instruments and equipment used in the correction of damaged frames. (1-3) 2

BUS 1103—Small Business Operations: An introduction to the business world, problems of small business operation, basic business law, business forms and records, financial problems, ordering and inventorying, layout of equipment and offices, methods of improving business and employer-employee relations. (3-0) 3

DFT 1101—Schematics and Diagrams: Power Mechanics-Interpretation and reading of blue prints. Development of ability to read and interpret blueprints, charts, instruction and service manuals and wiring diagrams. Information on the basic principles of lines, views, dimensioning procedures and notes. (1-3) 2

ENG 1101—Reading Improvement: Designed to improve overall reading efficiency with special emphasis on purpose, comprehension, word recognition skills, and the study of reading materials related to the student's curriculum. (3-0) 3

ENG 1102—Communication Skills: Designed to develop an appreciation of both the business and social values of standard grammar. The skills needed for efficient communication in both writing and speaking are practiced in short essays and oral presentations. (3-0) 3

MAT 1101—Fundamentals of Mathematics: An introductory course reviewing addition, subtraction, multiplication, and division with emphasis on fractions, ratios, percentages, and proportions. Basic algebra, trigonometry, and an introduction to the metric system of measurements are included. (4-0) 4

MEC 1101—Machine Shop Theory and Practice: An introduction to the machinist trade and the potential it holds for craftsmen. Deal primarily with the identification, care and use of basic hand tools and precision measuring instruments. Elementary layout procedures and processes of lathe, drill press, grinding (off-hand) and milling machines will be introduced both in theory and practice. (1-3) 2

PHY 1101—Applied Physics I: An introduction to physical principles and their application in industry. Topics in this course include measurements, properties of solids, liquids, gases and basic electrical principles. (4-0) 4

AUT 1115—Trim, Glass and Radiator Repair: Methods of removing and installing interior trim; door trim panels; painting of trim parts and ac-

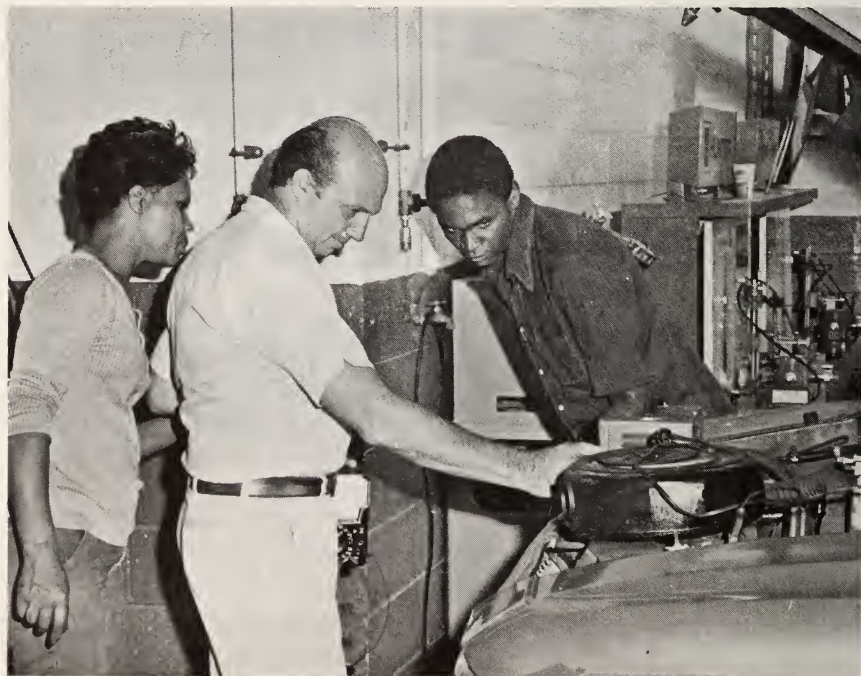
PHY 1102—Applied Physics II: The second in a series of two courses of applied physical principles. Topics introduced in this course are heat and thermometry and principles of force, motion, work, energy and power. (4-0) 4

PME 1227—Power Accessories: This course will teach the student with 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. (1-3) 2

PSY 1101—Human Relations: 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. (4-0) 4

WLD 1101—Basic Gas Welding: 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. (1-3) 2

WLD 1105—Auto Body Welding: 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. (1-3) 2



AUTOMOTIVE MECHANICS

This is a one-year program providing a thorough training in the theoretical as well as manual skills in servicing, testing and diagnosing. All phases of the electrical system, the power plant, the power train, and the hydraulic braking system will be studied.

The courses are arranged in a sequence that gives the student the required technological and special courses as they are needed to coordinate his laboratory experiences.

Emphasis is placed on the mechanical parts and operation of the various automobile units. Troubleshooting and servicing of the live project are also stressed.

Auto Mechanic, Truck and Bus Mechanic, Shop Foreman, Maintenance Supervisor, Dealer Service Manager, Sales Technician, Factory Representative and Experimental Lab Work are among those occupational opportunities awaiting graduates of the Automotive Mechanics Curriculum.

AUTO MECHANICS

		<i>Class Hours</i>	<i>Shop Hours</i>	<i>Credit Hours</i>
FALL				
AUT 1125	Auto Servicing	2	6	4
PME 1101	Internal Combustion Engines	4	12	8
ENG 1102	Communication Skills	3	0	3
WINTER				
Aut 1126	Auto Servicing	0	6	2
PME 1102	Engine Electrical and Fuel Systems	3	9	6
PHY 1101	Applied Physics I	4	0	4
WLD 1101	Basic Gas Welding	1	3	2
SPRING				
AUT 1128	Auto Servicing	0	6	2
AUT 1123	Auto Chassis & Suspension Systems	3	6	5
AUT 1121	Braking Systems	2	3	3
AHR 1101	Auto Air Conditioning	2	3	3
*BUS 1103	Small Business Operations	3	0	3
SUMMER				
AUT 1129	Auto Servicing	0	9	3
MAT 1101	Fundamentals of Math	4	0	4
AUT 1124	Auto Power Train System	3	6	5
*PSY 1101	Human Relations	4	0	4
*ELECTIVES				
APPROVED ELECTIVES				
ENG 1101	Reading Improvement	3	0	3
PSY 1101	Human Relations	4	0	4

BUS 1103	Small Business Operations	3	0	3
AUT 1127	Emission Control Systems	1	3	2
PME 1127	Power Accessories	1	3	2
PME 1128	Front-end Alignment	1	3	2
PHY 1102	Applied Physics II	4	0	4
MEC 1101	Machine Shop Theory & Practice	1	3	2
Total credit hours required for graduation				
Required courses				54
Elective courses				6
TOTAL				60

Course Descriptions—Automotive Mechanics

Each course listing begins with three capitalized letters and a number. This is the abbreviation of the course name and the number is the position in the curriculum. Following the number is the name of the course and a brief description of the course. Following the description may be a PR or CR or both. This means that there is a course that is a prerequisite or a corequisite. The numbers in parenthesis indicate the number of class and shop hours. The last number indicates the number of credit hours for completion of the course. The courses are listed alphabetically by the abbreviation of prefix letters.

AHR 1101—Auto Air Conditioning: 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. (2-3) 3

AUT 1121—Braking Systems: A complete study of various braking systems employed on automobile and light weight trucks. Emphasis is placed on how they operate. (2-6) 4

AUT 1123—Auto Chassis and Suspension Systems: Principles and functions of the components of automotive chassis. Practical job instruction in adjusting and repairing of suspension and steering systems. Units to be studied will be shock absorbers, springs, steering systems, steering linkage and front end alignment. (3-9) 6

AUT 1124—Auto Power Train System: Principles and functions of automotive power train systems; clutches, transmission gears, torque converters, drive shaft assemblies, rear axles and differentials. Identification of troubles, servicing and repair. (3-9) 6

AUT 1125—Auto Servicing: Emphasis is on the shop procedure necessary in determining the nature of troubles developed in the various component systems of the automobile systems, providing a full range of experiences in testing, adjusting, repairing and replacing. (2-9) 5

AUT 1126—Auto Servicing: Continuation of AUT 1125. (0-6) 2.

AUT 1127—Emission Controls Systems: A thorough study of the automobile emission controls of domestic cars, light trucks, and foreign

cars. Study and repair of these units will be made. Such as air filter, pcv systems, oil filler caps, duck and valve assemblies of various types and various types of gas tanks and saddle tanks. (1-3) 2.

AUT 1128—Auto Servicing: Continuation of AUT 1126. (0-6) 2.

AUT 1129—Auto Servicing: Continuation of AUT 1128. (0-6) 2.

BUS 1103—Small Business Operations: An introduction to the business world, problems of small business operation, basic business law, business forms and records, financial problems, ordering and inventorying, layout of equipment and offices, methods of improving business and employer-employee relations. (3-0) 3.

DFT 1101—Schematics and Diagrams: Power Mechanics-Interpretation and reading of blue-prints. Development of ability to read and interpret blueprints, charts, instruction and service manuals and wiring diagrams. Information on the basic principles of lines, views, dimensioning procedures and notes. (1-3) 2

ENG 1101—Reading Improvement: Designed to improve overall reading efficiency with special emphasis on purpose, comprehension, word recognition skills, and the study of reading materials related to the student's curriculum. (3-0) 3

ENG 1102—Communication Skills: Designed to develop an appreciation of both the business and social values of standard grammar. The skills needed for efficient communication in both writing and speaking are practiced in short essays, and oral presentations. (3-0) 3

MAT 1101—Fundamentals of Mathematics: An introductory course reviewing addition, subtraction, multiplication, and division with emphasis on fractions, ratios, percentages, and proportions. Basic algebra, trigonometry, and an introduction to the metric system of measurements are included. (4-0) 4

MEC 1101—Machine Shop Theory and Practice: An introduction to the machinist trade and the potential it holds for craftsmen. Deals primarily with the identification, care and use of basic hand tools and precision measuring instruments. Elementary layout procedures and processes of lathe, drill press, grinding (off-hand) and milling machines will be introduced both in theory and practice. (1-3) 2

PHY 1101—Applied Physics I: An introduction to physical principles and their application in industry. Topics in this course include measurements, properties of solids, liquids, gases and basic electrical principles. (4-0) 4

PHY 1102—Applied Physics II: The second in a series of two courses of applied physical principles. Topics introduced in this course are heat and thermometry and principles of force, motion, work, energy and power. (4-0) 4

PME 1101—Internal Combustion Engines: 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 operation of components of internal combus-

tion 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. (3-15) 8

PME 1102—Engine Electrical and Fuel Systems: A thorough study of the electrical and fuel systems in the automobile. Battery cranking mechanism, generator, ignition, accessories and wiring; fuel pumps, carburetors and fuel injectors. Characteristics of fuels, types of fuel systems, special tools and testing equipment for the fuel and electrical system. (3-12) 7

PME 1128—Front-end Alignment: Theory of operation, correct disassembly and mounting of all front suspension parts on 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 that are experienced. (1-3) 2

PME 1227—Power Accessories: This course will teach the student with 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. (1-3) 1

PSY 1101—Human Relations: 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. (4-0) 4

WLD 1101—Basic Gas Welding: 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. (1-3) 2-

ELECTRICAL INSTALLATION AND MAINTENANCE

The rapid expansion of the national economy and the increasing development of new electrical products is providing a growing need for qualified people to install and maintain electrical equipment. By mid-1960 more than 350,000 were employed as either construction electricians or maintenance electricians. Between 5,000 and 10,000 additional tradesmen are required each year to replace those leaving the industry.

This curriculum will provide a training program in the basic knowledge, fundamentals, and practices involved in the electrical trades. A large portion of the program is devoted to laboratory and shop instruction which is designed to give the student practical knowledge and application experience in the fundamentals taught in class.

The graduate of the electrical trade program will be qualified to enter an electrical trade in an entry level position, where he will assist in the planning, layout, installation, check out and maintenance systems in residential, commercial, or industrial plants. He will have an understanding of the fundamentals of the National Electrical Code regulations as related to wiring installations, electrical circuits, and the measurements of voltage, current, power and power factor of single and polyphase alternating circuits. He will have a basic knowledge of motor and motor control systems; industrial electronic control systems; business procedures, organization and practices; communicative skills; and the necessary background to be able to advance through experience and additional training through up-grading courses offered in the center.

ELECTRICAL INSTALLATION AND MAINTENANCE

		<i>Class Hours</i>	<i>Shop Hours</i>	<i>Credit Hours</i>
<i>Fall</i>				
ELC 1112	Direct and Alternating Current	4	12	8
*ENG 1101	Reading Improvement	3	0	3
MAT 1115	Electrical Mathematics	4	0	4
PHY 1101	Applied Physics I	4	0	4
*DFT 1110	Blueprint Reading: Building Trades	0	3	1
<i>WINTER</i>				
ELC 1113	AC and DC Machines and Controls	4	15	9
ENG 1102	Communication Skills	3	0	3
MAT 1116	Electrical Mathematics	4	0	4
DFT 1113	Blueprint Reading: Electrical	1	3	2
<i>SPRING</i>				
ELC 1124	Residential Wiring	5	9	8
*ELN 1118	Industrial Electronics	2	6	4
*PSY 1101	Human Relations	4	0	4
ELC 1114	National Electrical Code	4	0	4

SUMMER

ELC 1125	Commercial and Industrial Wiring	4	15	9
*ELN 1119	Industrial Electronics	2	6	4
*BUS 1103	Small Business Operations	3	0	0

ELECTIVES*APPROVED ELECTIVES**

BUS 1103	Small Business Operations	3	0	3
DFT 1110	Blueprint Reading: Building Trades	0	3	1
ELN 1118	Industrial Electronics I	2	6	4
ELN 1119	Industrial Electronics II	2	6	4
ENG 1101	Reading Improvement	3	0	0
PSY 1101	Human Relations	4	0	4

Total credit hours required for graduation	
Required Courses	55
Elective Courses	5
TOTAL	60

Course Descriptions—Electrical Installation & Maintenance

Each course listing begins with three capitalized letters and a number. This is the abbreviation of the course name and the number is the position in the curriculum. Following the number is the name of the course and a brief description of the course. Following the description may be a PR or CR or both. This means that there is a course that is a prerequisite or a corequisite. The number in parenthesis indicate the number of lecture, laboratory, and shop hours. The last number indicates the number of credit hours for completion of the course. The courses are listed alphabetically by the abbreviation of prefix letters.

BUS 1103—Small Business Operations: An introduction to the business world, problems of small business operation, basic business law, business forms and records, financial problems, ordering and inventory, layout of equipment and offices, methods of improving business and employer-employee relations. (3-0-0) 3

DFT 1110—Blueprint Reading: Building Trades-Principles of interpreting ing blueprints and specifications common to the building trades. Development of proficiency in making three view and pictorial sketches. (0-0-3) 1

DFT 1113—Blueprint Reading: 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 installations using appropriate symbols and notes according to the applicable codes will be a part of this course. (1-0-3) 2

ELC 1112—Direct and Alternating Current: A study of the structure of matter and the electron theory, the relationship between voltage, cur-

rent and resistance in series, parallel and series-parallel circuits. Analysis of direct current potentials. Fundamental concepts of alternating current flow; a study of reactance, impedance, phase angle, power and resonance and alternating circuit analysis. (4-0-12) 8

ELC 1113—Alternating Current and Direct Current Machines and Controls: Provides fundamental concepts in single and polyphase alternating current circuits, voltages, currents, power measurement, transformers and motors. Instruction in the use of electrical test instruments in circuit analysis. The basic concepts of AC and DC machines and simple control systems. An introduction to the controls used in small appliances such as: thermostats, timers, or sequencing switches. Prerequisite: ELC 1112, MAT 1115 (3-0-15) 8

ELC 1114—National Electrical Code: 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 multi-family dwellings, commercial establishments and industrial locations. (4-0-0) 4

ELC 1124—Residential Wiring: 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 Code regulators in actual building mock-ups. (4-0-12) 8

ELC 1125—Commercial and Industrial Wiring: Layout, planning and installation of wiring systems in commercial 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. (3-0-15) 8

ENG 1101—Reading Improvement: Designed to improve overall reading efficiency with special emphasis on purpose, comprehension, word recognition skills, and the study of reading materials related to the student's curriculum. (3-0-0) 3

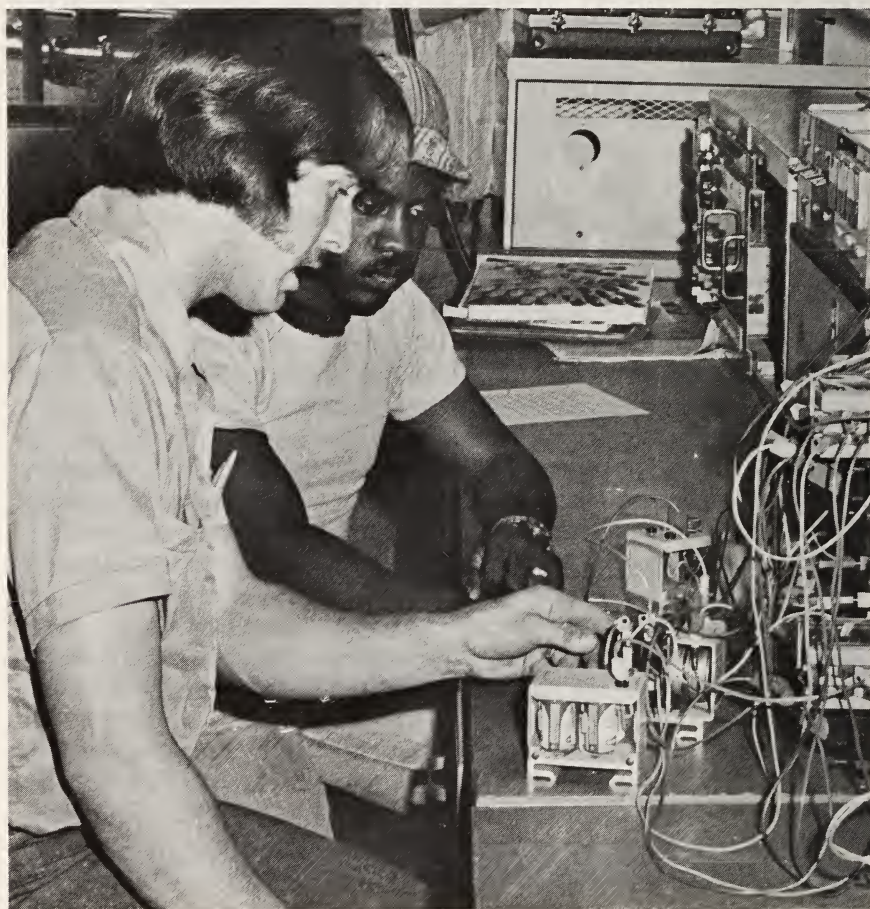
ENG 1102—Communication Skills: Designed to develop an appreciation of both the business and social values of standard grammar. The skills needed for efficient communication in both writing and speaking are practiced in short essays and oral presentations. (3-0-0) 3

MAT 1115—Electrical Mathematics I: An introductory course geared toward the solution of math problems encountered in the electrical trades. The course reviews the basic operations of addition, subtraction, multiplication, and division with emphasis on the use of fractions, ratios, percentages, and proportions. Basic algebra, trigonometry, and an introduction to the metric system of measurements are included. (4-0-0) 4

MAT 1116—Electrical Mathematics II: A continuation of MAT 1115. This course emphasizes the algebraic and basic trigonometric relationships found in many problems dealing with electric circuits. (4-0-0) 4

PHY 1101—Applied Physics I: An introduction to physical principles and their application in industry. Topics in this course include measurements, properties of solids, liquids, gases and basic electrical principles. (4-0-0) 4

PSY 1101—Human Relations: 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. (4-0-0) 4



ELECTRONIC SERVICING

Within years improved electronic techniques have provided expanded entertainment and educational facilities in the form of monochrome and color television, frequency modulated radio, high fidelity amplifiers and stereophonic sound equipment. These developments require expanded knowledge and skill of the individual who would qualify as competent and up-to-date serviceman.

This Curriculum provides a training program which will provide the basic knowledge and skills involved in the installation, maintenance and servicing of radio, television and sound amplifier systems. A large portion of time is spent in the laboratory verifying electronic principles and developing servicing techniques.

An electronics serviceman may be required to install, maintain and service amplitude modulated and frequency modulated home and auto radios, transistorized radios, monochrome and color television sets, inter-communication, public address and paging systems, high fidelity and stereophonic amplifiers, record players and tape players.

His work will require meeting the public both in the repair shop and on service calls. A serviceman who establishes his own business will also need to know how to maintain business records and inventory.

ELECTRONIC SERVICING

		<i>Class Hours</i>	<i>Shop Hours</i>	<i>Credit Hours</i>
<i>FALL</i>				
MAT 1115	Electrical Mathematics	4	0	4
*ENG 1101	Reading Improvement	3	0	3
ELC 1112	AC and DC Current	4	12	8
PHY 1101	Applied Physics I	4	0	4
ELN 1101	Troubleshooting Concepts	3	0	3
<i>WINTER</i>				
MAT 1116	Electrical Mathematics	4	0	4
ENG 1102	Communication Skills	3	0	3
*ELN 1112	Vacuum Tubes and Circuits	3	12	7
ELN 1123	Amplifier Systems	2	6	4
<i>SPRING</i>				
ELN 1125	Radio Receiver Servicing	2	64	1
ELN 1126	Transistor Theory and Circuits	3	6	5
*PSY 1101	Human Relations	4	0	4
ELN 1127	TV Receiver Circuits and Servicing	3	6	5
<i>SUMMER</i>				
ELN 1128	Television Receiver Servicing—Colors	6	9	9
*ELN 1130	Two-Way Mobile Maintenance	3	6	5
*ELN 1146	FCC Rules and Regulations	3	0	3
*BUS 1103	Small Business Operations	3	0	3

*ELECTIVES

APPROVED ELECTIVES

BUS 1103	Small Business Operations	3	0	3
ELN 1122	Vacuum Tubes and Circuits	3	3	4
ELN 1130	Two-Way Mobile Maintenance	3	6	5
ELN 1146	FCC Rules and Regulations	3	0	3
ENG 1101	Reading Improvement	3	0	3
PSY 1101	Human Relations	4	0	4
Total Credit Hours Required For Graduation				
		Required Courses 53		
		Elective Courses 7		
		TOTAL 60		

Course Descriptions—Electronics Servicing

Each course listing begins with three capitalized letters and a number. This is the abbreviation of the course name and the number is the position in the curriculum. Following the number is the name of the course and a brief description of the course. Following the description may be a PR or CR or both. This means that there is a course that is a prerequisite or a corequisite. The numbers in parenthesis indicate the number of lecture, laboratory, and shop hours. The last number indicates the number of credit hours for completion of the course. The courses are listed alphabetically by the abbreviation of prefix letters.

BUS 1103—Small Business Operations: An introduction to the business world, problems of small business operation, basic business law, business forms and records, financial problems, ordering and inventorying, layout of equipment and offices, methods of improving business and employer-employee relations. (3-0-0) 3

ELC 1112—Direct and Alternating Current: A study of the structure of matter and the electron theory, the relationship between voltage, current and resistance in series, parallel and series-parallel circuits. Analysis of direct current potentials. Fundamental concepts of alternating current flow; a study of reactance, impedance, phase angle, power and resonance and alternating current circuit analysis. (4-12-0) 10

ELN 1101—Troubleshooting Concepts: A study of the techniques used in analysis of defective systems by block diagram. Introduction to test equipment used in troubleshooting. (3-0-0) 3

ELN 1122—Vacuum Tubes and Circuits: An introduction to vacuum tubes and their development; the theory characteristics and operation of vacuum diodes, semi-conductor diodes, rectifier circuits, triodes and simple voltage amplifier circuits. PR ELC 1112, MAT 1115 (3-0-3) 4

ELN 1123—Amplifier Systems: An introduction of commonly used servicing techniques as applied to monophonic and stereophonic high fidelity amplifier systems and auxiliary equipment. The operation and servicing of inter-communication amplifiers and switching circuits will also be taught. PR MAT 1115, ELC 1112 (2-0-6) 4

ELN 1125—Radio Receiver Servicing: Principles of radio reception and practices of servicing; included are block diagrams of radio receivers, servicing techniques of AM and FM receivers by resistance measurements, signal injection, voltage analysis, oscilloscope methods of locating faulty stages and components and the alignment of AM and FM receivers. PR ELN 1123 (2-0-6) 4

ELN 1126—Transistor Theory and Circuits: Transistor theory, operation, characteristics and their application to audio and radio frequency amplifier and oscillator circuits. PR ELN 1123 (3-0-12) 7

ELN 1127—TV Receiver Circuits and Servicing: A study of principles of television receivers, alignment of radio and intermediate frequency amplifiers, adjustment of horizontal and vertical sweep circuits will be taught. Techniques of troubleshooting and repair of TV receivers with the proper use of associated test equipment will be stressed. Additional study of more specialized servicing techniques and oscilloscope waveform analysis will be used in adjustment, troubleshooting and repair of the color television circuits. PR ELN 1126, ELN 1125 (3-0-6) 5

ELN 1128—Color TV Receiver Servicing: A continuation of ELN 1127 with additional study of more specialized servicing techniques and oscilloscope waveform analysis in the adjustment troubleshooting and repair of the color television circuits. PR ELN 1127 (6-0-9) 9

ELN 1130—Two-Way Mobile Maintenance: A course to acquaint the student with the theory and maintenance of fixed station and mobile station transmitters and receivers. (3-0-6) 5

ELN 1146—FCC Rules and Regulations: A course designed to enable the student to obtain a Third Class Radio-Telephone Operator's license with broadcast endorsement. Covers subject matter in Part 13 of FCC Rules and Regulations, primary and basic radio-telephone procedures in general. (3-0-0) 3

ENG 1101—Reading Improvement: Designed to improve overall reading efficiency with special emphasis on purpose, comprehension, word recognition skills, and the study of reading materials related to the student's curriculum. (3-0-0) 3

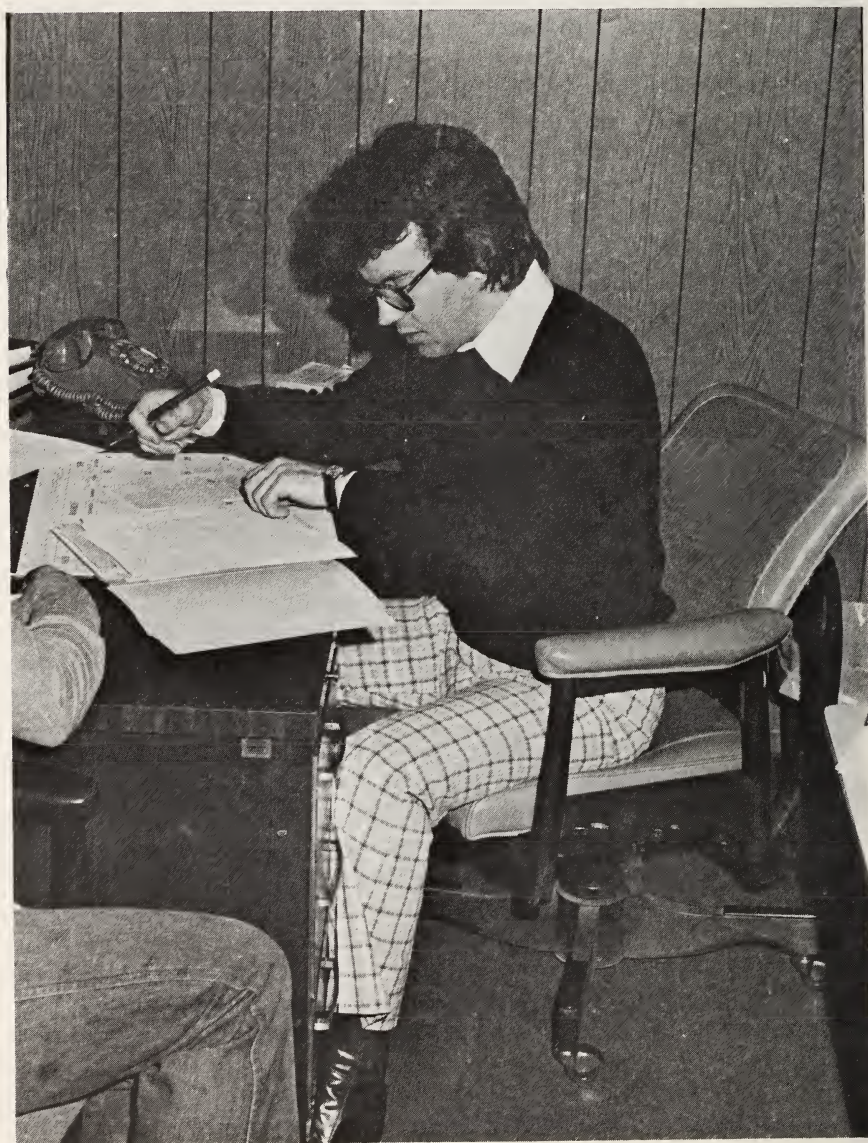
ENG 1102—Communication Skills: Designed to develop an appreciation of both the business and social values of standard grammar. The skills needed for efficient communication in both writing and speaking are practiced in short essays and oral presentation. (3-0-0) 3

MAT 1115—Electrical Mathematics I: An introductory course geared toward the solution of math problems encountered in the electrical trades. The course reviews the basic operations of addition, subtraction, multiplication, and division with emphasis on the use of fractions, ratios, percentages, and proportions. Basic algebra, trigonometry, and an introduction to the metric system of measurements are included. (4-0-0) 4

MAT 1116—Electrical Mathematics II: A continuation of MAT 1115. This course emphasizes the algebraic and basic trigonometric relationships

found in many problems dealing with electric circuits. (4-0-0) 4

PHY 1101—Applied Physics I: An introduction to physical principles and their application in industry. Topics in this course include measurements, properties of solids, liquids, and gases; basic electrical principles. (4-0-0) 4



PLUMBING AND HEATING

(NIGHT SCHEDULE ONLY)

Plumbers are the craftsmen who install pipe systems which carry water, steam, air or other liquids or gases needed for sanitation, heating, industrial production and various other uses. During the past decade there has been a steady increase in the demand for these craftsmen. As building construction continues to increase this demand for plumbers will also increase.

This curriculum in plumbing and heating is designed to train the individual to enter this occupation with the knowledge and basic skills that will enable him to perform effectively. Courses in plumbing practices and heating are included to provide practical experience as well as the theoretical information that one must know to advance and keep up-to-date with the new innovations. Other courses in communication skills, physics, human relations and business operations to assist the individual in occupational growth is offered the student.

PLUMBING AND HEATING

		<i>Class Hours</i>	<i>Shop Hours</i>	<i>Credit Hours</i>
FALL				
PLU 1110	Plumbing Pipework	2	6	4
PHY 1101	Applied Science	4	0	4
ENG 1102	Communication Skills	3	0	3
WINTER				
PLU 1110	Plumbing Pipework	2	6	4
*PHY 1102	Applied Science	4	0	4
*BUS 1103	Small Business Operations	3	0	3
SPRING				
PLU 1111	Domestic Water Systems	2	6	4
DFT 1110	Blueprint Reading: Building Trades	0	3	1
MAT 1101	Fundamentals of Mathematics	4	0	4
SUMMER				
PLU 1120	Low Pressure Steam Systems	2	6	4
*ENG 1101	Reading Improvement	3	0	3
WLD 1101	Basic Gas Welding	1	3	2
FALL				
PLU 1121	Pressure Steam Systems	2	6	4
*PSY 1101	Human Relations	4	0	4
DFT 1115	Blueprint Reading: Plumbing Trades	0	3	1
WINTER				
PLU 1112	Installation of Plumbing Fixtures	2	6	4
PLU 1121	High Pressure Steam Systems	0	3	1
ELC 1104	Applied Electricity	1	3	2

SPRING

*PLU 1126	Hydraulic Systems Plumbing	3	3	4
PLU 1123	Hot Water and Panel Heating	3	6	5

SUMMER

PLU 1125	Industrial Piping	3	9	6
PLU 1123	Hot Water and Panel Heating	0	3	1

ELECTIVES*APPROVED ELECTIVES**

BUS 1103	Small Business Operations	3	0	3
ENG 1101	Reading Improvement	3	0	3
PHY 1102	Applied Physics II	4	0	4
PLU 1126	Hydraulic Systems Plumbing	3	3	4
PSY 1101	Human Relations	4	0	4

Total Credit Hours Required For Graduation

Required Courses 54

Elective Courses 6

TOTAL 60

Course Descriptions—Plumbing and Heating

Each course listing begins with three capitalized letters and a number. This is the abbreviation of the course name and the number is the position in the curriculum. Following the number is the name of the course and a brief description of the course. Following the description may be a PR or CR or both. This means that there is a course that is a prerequisite or a corequisite. The numbers in parenthesis indicate the number of lecture, laboratory, and shop hours. The last number indicates the number of credit hours for completion of the course. The courses are listed alphabetically by the abbreviation of prefix letters.

BUS 1103—Small Business Operations: An introduction to the business world, problems of small business operations, basic business law, business forms and records, financial problems, ordering and inventorying, layout of equipment and offices, methods of improving business and employer-employee relations. (3-0-0) 3

DFT 1110—Blueprint Reading: Building Trades: Principles of interpreting blueprints and specifications common to the building trades. Development of proficiency in making three view and pictorial sketches. (0-0-3) 1

DFT 1115—Blueprint Reading: Plumbing Trades: 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. (0-0-3) 1

ELC 1104—Applied Electricity: 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 troubleshooting 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. (1-0-3) 2.

ENG 1101—Reading Improvement: Designed to improve overall reading efficiency with special emphasis on purpose, comprehension, word recognition skills, and the study of reading materials related to the student's curriculum. (3-0-0) 3

ENG 1102—Communication Skills: Designed to develop an appreciation of both the business and social values of standard grammar. The skills needed for efficient communication in both writing and speaking are practiced in short essays and oral presentations. (3-0-0) 3

MAT 1101—Fundamentals of Mathematics: An introductory course reviewing addition, subtraction, multiplication, and division with emphasis on fractions, ratios, percentages, and proportions. Basic algebra, trigonometry, and an introduction to the metric system of measurements are included. (4-0-0) 4

PHY 1101—Applied Physics I: An introduction to physical principles and their application in industry. Topics in this course include measurements, properties of solids, liquids, and gases; basic electrical principles. (4-0-0) 4

PHY 1102—Applied Physics II: The second in a series of two courses of applied physical principles. Topics introduced in this course are heat and thermometry and principles of force, motion, work, energy and power. (4-0-0) 4

PLU 1110—Plumbing Pipework: 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. (4-0-12) 8

PLU 1111—Domestic Water Systems: 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 is a part of this course. Field trips will be taken to study various types of installations. PR PLU 1110 (2-0-6) 4

PLU 1112—Installation of Plumbing Fixtures: The difference in materials and styles of laboratories, 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. (2-0-6) 4

PLU 1120—Low Pressure Steam Systems: 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. PR PLU 1110 (2-0-6) 4

PLU 1121—Pressure Steam Systems: Applications of low pressure steam equipment will be continued. Principles involved in industrial applications of both low-pressure and high-pressure steam equipment. Commercial and industrial blueprints will be studied, utilizing low and high pressure equipment. High pressure boilers and installations of high pressure systems will be emphasized. PR PLU 1120 (2-0-6) 4

PLU 1123—Hot Water and Panel Heating: 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. PR PLU 1120, PLU 1111 (3-0-9) 6

PLU 1125—Industrial Piping: Piping systems of boilers, turbines, and steam engines especially as they are used in steam power plants and process piping such as is used in the chemical industries will be major emphasis of this course. PR PLU 1112, WLD 1101 (3-0-9) 6

PLU 1126—Hydraulic Systems Plumbing: 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. PR PLU 1110 (3-0-3) 4

PSY 1101—Human Relations: 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. (4-0-0) 4

WLD 1101—Basic Gas Welding: 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. (1-0-3) 2

PRACTICAL NURSING EDUCATION

(DAY SCHEDULE ONLY)

The accelerated growth of population in North Carolina and rapid advancement in medical technology demand a tremendously increased number of well-trained, capable personnel for health service positions. The Cleveland County Technical Institute is affiliated with Cleveland Memorial Hospital to provide clinical resources for the practical nursing program.

Classes will be held at the Institute while actual experience will be obtained at the hospital. The graduate is eligible to take and must pass the Licensure Examination for Practical Nurses administered by the North Carolina State Board of Nursing to become a licensed Practical Nurse.

The LPN is qualified and prepared to function in a variety of situations: hospitals of all types, nursing homes, clinics, doctors' and dentists' offices and, in some localities, public health facilities. In all situations, the LPN functions under the supervision of a registered nurse and/or licensed physicians.

Job requirements for the Licensed Practical Nurse include suitable personal characteristics, ability to adapt knowledge and understanding of nursing principles to a variety of situations, technical skills for performance of bedside nursing, appreciation for differences of people and for the worth of every individual, a desire to serve and help others and readiness to conform to the requirements of nursing ethics and hospital policies.

Admission procedures for this program in addition to those listed in general admissions section:

- (1) Have complete medical and dental examination.
- (2) Submit five personal references.
- (3) Take the General Aptitude Test Battery at the Employment Security Commission locally—request the results be sent to the Admissions Office of Cleveland County Technical Institute.

PRACTICAL NURSING EDUCATION

(DAY SCHEDULE ONLY)

	Course Title	Hours	Per Week		Credit Hours
		Class	Lab	Clinic	
PRACTICAL NURSING (First Quarter)					
NUR 1101	Fundamentals of Nursing	6	0	0	8
NUR 1102	Vocational Adjustments I	2	0	0	2
SCI 1101	Body Structure and Function	3	2	0	4
SCI 1103	Nutrition and Diet Therapy	3	0	0	3
SCI 1102	Microbiology	1	0	0	1
SCI 1104	Health	1	0	0	1
PSY 206	Applied Psychology	4	0	0	4
ENG 101	Grammar and Composition I	4	0	0	4
		24	6	0	27
PRACTICAL NURSING III (Third Quarter)					
NUR 1109	Pediatric Nursing	6	0	0	6
NUR 1106	Medical-Surgical Nursing II	6	0	0	6
NUR 1113	Clinical II	0	0	21	7
		12	0	21	19

Course Descriptions—Practical Nursing Education

Each course listing begins with three capitalized letters and a number. This is the abbreviation of the course name and the number is the position in the curriculum. Following the number is the name of the course and a brief description of the course. Following the description may be a PR or CR or both. This means that there is a course that is a prerequisite or a corequisite. The numbers in parenthesis indicate the number of lecture, laboratory, and clinic hours. The last number indicates the number of credit hours for completion of the course. The courses are listed alphabetically by the abbreviation of prefix letters.

ENG 101—Grammar and Composition I: Offers an historical survey of the English language, a review of English grammar, and an opportunity to improve written self-expression through expository essays and both primary and secondary research. (4-0-0) 4

NUR 1101—Fundamentals of Nursing: A study of principles which are basic to safe effective nursing care with laboratory practice in basic nursing skills. Introduces student to nursing care planning, care of the patient's environment, care of a dependent patient, observing a patient's condition and reporting pertinent information. (5-4-0) 7

NUR 1102—Vocational Adjustments I: A course designed to help the student become acquainted with the role of the practical nurse. A study of a brief history, legal aspects and ethics, as related to nursing. (2-0-0) 2

**CORRECTED LISTING OF COURSE
PRACTICAL NURSING EDUCATION**

(DAY SCHEDULE ONLY)

		<i>Hours</i>	<i>Per Week</i>		<i>Credit</i>
<i>Course Title</i>		<i>Class</i>	<i>Lab</i>	<i>Clinic</i>	<i>Hours</i>
<i>PRACTICAL NURSING I (First Quarter)</i>					
NUR 1101	Fundamentals of Nursing	6	4	0	8
NUR 1102	Vocational Adjustments I	2	0	0	2
SCI 1101	Body Structure and Function	3	2	0	4
SCI 1103	Nutrition and Diet Therapy	3	0	0	3
SCI 1102	Microbiology	1	0	0	1
SCI 1104	Health	1	0	0	1
PSY 206	Applied Psychology	4	0	0	4
ENG 101	Grammar and Composition I	<u>4</u>	<u>0</u>	<u>0</u>	<u>4</u>
		24	6	0	27
<i>PRACTICAL NURSING II (Second Quarter)</i>					
NUR 1105	Medical-Surgical Nursing I	2	0	0	2
NUR 1103	Nursing Principles	3	2	0	4
NUR 1108	Obstetrical Nursing	4	0	0	4
NUR 1104	Basic Pharmacology	2	2	0	3
NUR 1112	Clinical I	<u>0</u>	<u>0</u>	<u>18</u>	<u>6</u>
		11	4	18	19
<i>PRACTICAL NURSING III (Third Quarter)</i>					
NUR 1109	Pediatric Nursing	6	0	0	6
NUR 1106	Medical-Surgical Nursing II	6	0	0	6
NUR 1113	Clinical II	<u>0</u>	<u>0</u>	<u>21</u>	<u>7</u>
		12	0	21	19
<i>PRACTICAL NURSING IV (Fourth Quarter)</i>					
NUR 1107	Medical-Surgical Nursing III	9	0	0	9
NUR 1110	Vocational Adjustments II	1	0	0	1
NUR 1111	Pharmacology II	2	0	0	2
NUR 1114	Clinical III	<u>0</u>	<u>0</u>	<u>21</u>	<u>7</u>
		12	0	21	19

NUR 1103—Nursing Principles: Study in effects of altered body function, nursing principles and responsibilities in the care of the patient with altered function, and performance of therapeutic measures that are normally the responsibility of the practical nurse. Includes laboratory practice to further develop skills needed to give safe and effective nursing care. PR NUR 1101 (3-2-0) 4

NUR 1104—Basic Pharmacology: An introduction to drug therapy. A foundation of general knowledge in sources of drugs, legal control of drugs, computing dosage, classification and action of common drugs, and safety factors the nurse must use in administering drugs. (2-2-0) 3

NUR 1105—Medical-Surgical Nursing I: An introduction to medical-surgical nursing. Study of classification, symptoms, diagnosis, treatment, and nursing care of illnesses. Emphasis is on needs of patient having ing surgery, long-term illnesses, cancer, and allergies. PR Completed first quarter (2-0-0) 2

NUR 1106—Medical-Surgical Nursing II: Continuation of Medical-Surgical Nursing I. A study in the needs of patients with conditions related to various body systems—intequmentary, respiratory, cardiovascular, gastrointestinal, and urinary. PR NUR 1105 (8-0-0) 8

NUR 1107—Medical-Surgical Nursing III: A continuation of Medical-Surgical II. A study of the need of a patient with illnesses related to musculo-skeletal, neruoses, reproductive, and endocrine systems. Also includes study of the needs of the psychiatric patient, emergency nursing care, and care of the seriously ill and dying patient. PR NUR 1106 (9-0-0) 9

NUR 1108—Obstetrical Nursing: An introduction to the needs of the mother during normal pregnancy, labor, delivery, and post partum stages. Study of the needs and care of the new born. Introduction to common complications of obstetrical patients. This background knowledge is essential for planned clinical practice in care of the mother and newborn. PR NUR 1101; CR NUR 1103 (4-0-0) 4

NUR 1109—Pediatric Nursing: Provides an opportunity for the practical nurse student to study the well child, nursing principles and skills that are common in the care of sick children and adapting these to the level of the child. Includes study of common illnesses of children—symptoms, diagnostic procedures, treatment, and nursing care. This background study is essential to planned clinical practice in nursing care of children. PR NUR 1103 (6-0-0) 6

NUR 1110—Vocational Adjustments II: This course is designed to help the student make the adjustment from the role of a student to that of a graduate practical nurse. Includes a review of legal aspects, job opportunities, organizations, and continuing education as it relates to the graduate practical nurse. (1-0-0) 1

NUR 1111—Pharmacology: A continuation of basic pharmacology with emphasis on the nurses responsibility in preparing, and giving inter-dermal, subcutaneous and intermuscular injections. PR NUR 1104 (2-0-0) 2

NUR 1112—Clinical I: Beginning experiences in a general hospital under supervision of an instructor, practicing skills learned in laboratory practice. The student should be able to do basic care of the adult patient before being assigned to special service areas in the clinical area. PR NUR 1101, CR 1107 (0-0-18) 6

NUR 1113—Clinical II: Continuation of Clinical I with student assignments in specialized areas—obstetrics and pediatrical—in more complex nursing situations. PR NUR 1112 (0-0-21) 7

NUR 1114—Clinical III: Continuation of Clinical II with an increase in complexity of nursing care assignments. PR NUR 1113 (0-0-21) 7

SCI 1101—Body Structure & Function: General knowledge about the normal structure and function of the human body. Study of each of the body systems and how they relate to locomotion, giving shape, holding body erect, metabolism, distribution of nutrients, body secretions and elimination of waste products. (3-2-0) 4

SCI 1102—Microbiology: A study of microorganisms and their relationship to health. (1-0-0) 1

SCI 1103—Nutrition and Diet Therapy: A review of food requirements necessary to maintain health and the harmful effects of inadequate diet. Knowledge of basic nutrition will be used to introduce the student to diet adjustments often necessary during illness. (3-0-0) 3

SCI 1104—Health: This course is designed to give the student an understanding of the various aspects of health, the influences on health, and means available to protect health. (1-0-0) 1.



WELDING

PURPOSE OF CURRICULUM:

The content of this curriculum is designed to give students sound understanding of the principles, methods, techniques and skills essential for successful employment in the welding field and metals industry.

The field of welding offers a person prestige, security and a future of continuous employment with steady advancement. It offers employment in practically any industry: shipbuilding, automotive, aircraft, guided missiles, railroads, construction, pipefitting, production shop, job shop and many others.

JOB DESCRIPTION:

Welders join metals by applying intense heat, and sometimes pressure, to melt the edges to form a permanent bond. Closely related to welding is "oxygen cutting." Of the more than 35 different ways of welding metals, arc, gas and resistance welding are the three most important.

The principal duty of the welder using manual techniques is to control the melting by directing the heat from either an electric arc or gas welding torch, and to add filler metal where necessary to complete the joint. He should possess a great deal of manipulative skill with knowledge of jigs, welding symbols, mathematics, basic metallurgy and blueprint reading.

WELDING

		<i>Class Hours</i>	<i>Shop Hours</i>	<i>Credit Hours</i>
FALL				
WLD 1120	Oxyacetylene Welding and Cutting	3	12	7
MAT 1101	Fundamentals of Mathematics	4	0	4
DFT 1104	Blueprint Reading: Mechanical	1	3	2
PHY 1101	Applied Physics I	4	0	4
*ENG 1101	Reading Improvement	3	0	3
WINTER				
WLD 1121	Arc Welding	4	12	8
*MAT 1103	Geometry	3	0	3
MEC 1157	Metallurgy I	1	3	2
*PHY 1102	Applied Physics II	4	0	4
ENG 1102	Communication Skills	3	0	3
SPRING				
WLD 1124	Pipewelding	3	12	7
WLD 1123	Inert Gas Welding	1	3	2
MEC 1158	Metallurgy II	2	2	3
DFT 1118	Pattern Development and Sketching	1	3	2
*PSY 1101	Human Relations	4	0	4

SUMMER

WLD 1122	Commercial and Industrial Practices	3	9	6
WLD 1125	Certification Practices	2	9	5
*BUS 1103	Small Business Operations	3	0	3
*DFT 1117	Blueprint Reading: Welding	1	3	2

ELECTIVES*APPROVED ELECTIVES**

ENG 1101	Reading Improvement	3	0	3
MAT 1103	Geometry	3	0	3
DFT 1117	Blueprint Reading: Welding	1	3	2
PSY 1101	Human Relations	4	0	4
BUS 1103	Small Business Operations	3	0	3
PHY 1102	Applied Physics II	4	0	4
Total Credit Hours Required For Graduation				
		Required Courses 53		
		Elective Courses 7		
		TOTAL 60		

Course Descriptions—Welding

Each course listing begins with three capitalized letters and a number. This is the abbreviation of the course name and the number is the position in the curriculum. Following the number is the name of the course and a brief description of the course. Following the description may be a PR or CR or both. This means that there is a course that is a prerequisite or a corequisite. The numbers in parentheses indicate the number of lecture, laboratory, and shop hours. The last number indicates the number of credit hours for completion of the course. The courses are listed alphabetically by the abbreviation of prefix letters.

MAT 1103—Geometry: This practical course explores the fundamental properties of plane and solid geometric figures encountered in welding or other trades. (3-0-0) 3

DFT 1104—Blueprint Reading: Mechanical-Interpretation and reading of blueprints. Information of the basic principles of the blueprint; lines, views, dimensioning procedures and notes. (1-0-3) 2

DFT 1117—Blueprint Reading: Welding: A thorough study of trade drawings in which welding procedures are indicated. Interpretation, use and application of welding symbols, abbreviations and specifications. (1-0-3) 2

DFT 1118—Pattern Development and Sketching: Continued study of welding symbols; methods used in layout of sheet steel; sketching of projects, jigs and holding devices involved in welding. Special emphasis is placed on developing pipe and angle layouts by the use of patterns and templates. (1-3) 2.

ENG 1101—Reading Improvement: Designed to improve overall reading efficiency with special emphasis on purpose, comprehension, word recognition skills, and the study of reading materials related to the student's curriculum. (3-0-0) 3

ENG 1102—Communication Skills: Designed to develop an appreciation of both the business and social values of standard grammar. The skills needed for efficient communication in both writing and speaking are practical in short essays and oral presentations. (3-0-0) 3

MAT 1101—Fundamentals of Mathematics: An introductory course reviewing addition, subtraction, multiplication, and division with emphasis on fractions, ratios, percentages, and proportions. Basic algebra, trigonometry, and an introduction to the metric system of measurements are included. (4-0-0) 4

MEC 1157—Metallurgy I: Properties of metals and various methods of changing these properties, classification of metals, power metallurgy and factors contributing to production and selection of metals will be presented. Chemical finished, electroplating and other methods of finishing or treating metals will be areas of study. (1-0-3) 2.

MEC 1158—Metallurgy II: A continuation of Metallurgy I with more time devoted to actual preparation of sample specimen pieces, more advanced techniques in the analysis of the structure and composition of metals (1-0-3) 2.

PHY 1101—Applied Physics I: An introduction to physical principles and their application in industry. Topics in this course include measurements, properties of solids, liquids, gases, and basic electrical principles. (4-0-0) 4

PHY 1102—Applied Physics II: The second in a series of two courses of applied physical principles. Topics introduced in this course are heat and thermometry and principles of force, motion, work, energy and power. (4-0-0) 4

PSY 1101—Human Relations: 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. (4-0-0) 4

WLD 1120—Oxacetylene Welding and Cutting: Introduction to the history of oxacetylene welding, the principles of welding and cutting, nomenclature of the equipment, assembly of the unit. Welding procedures such as practice of puddling and carrying the puddle, running flat beads, butt welding in the flat, vertical and overhead position, brazing, hard and soft soldering. Safety procedures are stressed throughout the program of instruction in the use of tools and equipment. Students perform mechanical testing and inspection to determine quality of the welds. (4-0-12) 8

WLD 1121—Arc Welding: The operation of AC transformers and DC motor generator arc welding sets. Studies are made of welding heats, polarities and electrodes for use in joining various metal alloys by the arc welding process. Butt and fillet welds in all positions are made and

tested in order that the student may detect his weaknesses in welding. (4-0-12) 8

WLD 1122—Commercial and Industrial Practices: Designed to build skills through practices in simulated industrial processes and techniques: sketching and layout out on paper, the size and shape description, listing the procedures steps necessary to build the product, and then actually following these directions to build the product. Emphasis is placed on maintenance, repairing worn or broken parts by special welding applications, field welding and nondestructive tests and inspection. (3-0-9) 6

WLD 1123—Inert Gas Welding: Introduction and practical operations in the use of inert-gas-shield arc welding. A study of the equipment, operation, safety, and practice in the various positions. A thorough study of such topics as: principles of operation, shielding gases, filler rods, process variations and applications, field welding and nondestructive tests and inspection. (1-0-3) 2

WLD 1124—Pipe Welding: Designed to provide practice in the welding of pressure piping in the horizontal, vertical and horizontal fixed position using shielded metal arc welding processes according to Sections VIII and IX of the ASME code. (3-0-12) 7

WLD 1125—Certification Practices: This course involves practice in welding the various materials to meet the certification standards. The student uses various tests including the guided bend and the tensile strength tests to check the quality of his work. Emphasis is placed on attaining skill in producing quality welds. (2-9) 5

BUS 1103—Small Business Operations: An introduction to the business world, problems of small business operation, basic business law, business forms and records, financial problems, ordering and inventorying, layout of equipment and offices, methods of improving business and employer-employee relations. (3-0-0) 3



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 is not that of a full time student. It is the purpose of Cleveland County Technical Institute to afford this opportunity to each individual to develop to his fullest potential in whatever vocational, intellectual or cultural areas he desires. It is also the aim of the institute 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 Institute 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 requests of individuals or organizations. The Institute welcomes such requests and suggestions for additional courses.

Continuing education classes conducted by Cleveland County Technical Institute are both vocational and academic in nature. The classes are non-curriculum, vary in length, conducted both day and evening, and are taught by qualified instructors selected by the Institute. A schedule of some classes being offered is announced by the Institute prior to each quarter and other classes are announced during the quarter, as they are arranged.

ADMISSION

Any adult 18 years of age or older, who is not enrolled in public school is eligible to enroll.

REGISTRATION

Registration will be held at the first meeting unless specified otherwise. In some instances when enrollment is limited, adults should notify the Institute by phone, letter, or personal visit to place their names on the pre-registration list for classes.

EXPENSES

In most continuing education classes the only cost is for books or other materials, plus a tuition charge of \$5.00. The only exception to the tuition charge is in Fire Service and Law Enforcement Training Programs and prison inmates. A charge may be necessary in some courses for class supplies. Books and supplies are available through the Institute Bookstore for both campus and off-campus classes.

CLASS LOCATIONS

Many of the continuing education classes are held on the campus at Cleveland County Technical Institute. 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 are 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. Leaders from the community in civic, cultural, educational, industrial and business fields as well as persons skilled or knowledgeable in particular areas of interest are available as instructors.

OCCUPATIONAL EXTENSION EDUCATION 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 are 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

Hospitality Education

Law Enforcement Training

Industrial Training

Woodworking Occupations

Building Trades

Agricultural Business and Production

Equipment Maintenance and Repair

MANAGEMENT DEVELOPMENT PROGRAMS

Supervision and management in modern business is an art. Because of this, one of the most important programs in the extension division is that of Management training. The current MDP training consists of twenty-six well prepared courses having the following purposes:

1. To broaden the educational background of supervisors.
2. To develop the leadership abilities of supervisors.
3. To provide preparatory training.
4. To help make supervisors more proficient in their present jobs.
5. To provide life-long learning opportunities.

A supervisor may pursue as many of the courses as he desires and thereby afford himself an opportunity for extensive training. Emphasis has been placed on group dynamics and creative problem-solving techniques. Classes are scheduled to meet the needs of local business and industry, and qualified instructors are provided. Please contact the Director of Adult Education for information concerning specific courses or a booklet outlining the complete Management Development Program.

NEW INDUSTRY TRAINING

One of the primary functions of Cleveland County Technical Institute 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 in 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 County Technical Institute, or the Director, Industrial Services Division, North Carolina Department of Community Colleges, Raleigh, North Carolina.

ADULT BASIC EDUCATION

Adult Basic Education is designed for those adults who have less than a high school education and includes instruction in reading, writing, mathematics, social studies, science and health education. In all these areas instruction is related as closely as possible to helping students meet their adult responsibilities by improving their fundamental skills.

Classes are organized into two groups. The first group is for those who are unable to study individually because of inability to read and write. Persons in this group usually function at grade levels 0-4. In group two, a high level of ability is achieved and basic sciences and social studies are expanded. The work difficulty is at grade level 5-8.

With completion of group two, the student should be ready to advance into the high school program.

Students may enter ABE classes at any time. However, it is recommended that individuals enroll during the registration period at the beginning of each quarter. In order to take advantage of the complete program being offered the institute encourages students to maintain attendance in these classes over a period of several school quarters. There is no registration fee charges for ABE classes.

ADULT HIGH SCHOOL

This program is designed for those adults eighteen years of age or older who would like to complete their high school education. Classes in English, mathematics, science and social studies are available in either individual classes or self-study units from the Learning Resource Center.

In order to enroll in the Adult High School Diploma Program, it is necessary to have completed and passed the eighth grade or to have successfully passed the eight grade equivalency test. A single \$5.00 registration fee is payable at the time of registration each quarter regardless of the number of subjects taken during a quarter.

A total of sixteen units will be required for graduation from this program and include the following:

English	4 units
Social Studies	2 units
Mathematics	2 units
Science	2 units
Electives	6 units

For additional information on the ABE or Adult High School programs, please contact the Department of Continuing Education, Cleveland County Technical Institute.

GENERAL ADULT EDUCATION

General Adult and Community Service classes and programs are offered through the Extension Division of Cleveland County Technical Institute 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.

A class can be organized when fifteen interested persons are available and because of the organizational flexibility of these programs a wide variety of classes, lectures, seminars and workshops are conducted both on campus and in other locations within the service areas of the Institute.

TEACHERS' CERTIFICATE RENEWAL

Teachers' certificate renewal courses and workshops are provided by Cleveland County Technical Institute in cooperation with the local public school systems within the county.

The courses and workshops are initiated by the institute 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 & Sketching, Anthropology, and media workshops.

When a need for a particular course has been determined, Cleveland Tech, 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.

ACADEMIC COURSE DESCRIPTIONS

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 watercolors. Perspective and drapery studies are included. 33 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. 30 hours.

Community Chorus: A mixed voice musical organization open to all adult members of the community service area without audition. Two or three major concerts featuring a variety of music are given by the participants each year. Each rehearsal contains vocal techniques and instructions in music reading. 32 hours.

Piano I: Designed for adults with no experience in piano playing. Course covers the preparatory level of piano playing which includes learning the keyboard, learning to read the musical staff, learning note values and simple piano pieces. 32 hours.

Piano II: The course is a continuation of Piano I with emphasis on playing hands together. 32 hours.

Music Theory: The course is designed for pianists, 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 are included. 20 hours.

Guitar: The course will consist of a new audiovisual method designed by guitarist Chet Atkins. Students will have especially designed guitars and a set of headphones. While a visual presentation is made on screen the student will hear only the instructor and his own guitar. Students completing the course should have speed and accuracy for chords in six keys and be able to play melody or lead guitar on six strings. 22 hours.

Holiday Decorations: (Arts and Crafts). An exciting class with emphasis on handicrafts and hobbies for home decoration and other occasions. Students will learn to make useful items from such things as bottles, boxes, cards and numerous other scrap materials. 24 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.

Tole Painting: An interesting technique rather than talent where patterns of decorative designed are painted on tin, 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 the turning to make details. 24 hours.

Painting with Oils: Classes are organized for both beginners and the 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. 30 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, water proof, and easy to mix for different colors. Instructions will involve use with mixed media and use with various painting mediums. 30 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. 30 hours.

Copper Tooling: A fascinating craft class where students make beautiful and useful objects for the home. Simple tools are used to form various patterns on copper and brass which are then used to make pictures, plaques, waste baskets, flower urns, etc. 30 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. 30 hours.

Sign Language: Instruction is designed for the parents of deaf children and those who come in contact with deaf people. Classes begin with finger spelling and continue through the more difficult signs. 18 hours.

Anthropology: The Ascent of Man, a series of 13 outstanding films that dramatically portray the interrelationship 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 our present time. 20 hours.

Great Decisions: A yearly study and discussion of the eight most important issues facing our nation at the current time. 16 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.

Photography: Introduces the student to fundamental factors influencing the quality of the image captured in the photograph. Students may study lighting, the primary subject, the field of view, color and camera techniques in this class. 33 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 com-

putations, and methods of reporting income. Both state and federal forms are covered in this class. 20 hours.

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.

Business Mathematics: A study of mathematical solutions to business problems including graphical representations of business data and the concept of various functions as tools for analyzing pertinent business data. 24 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 effect their personal lives. Information from other fields in the social science having a bearing on major social problems will be incorporated in the course. 33 hours.

Psychology: The basic principles of psychology are explored and how they may be applied to the 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.

VOCATIONAL COURSE DESCRIPTIONS

Clothing Construction I: Designed for the 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 application of sewing procedures; individual instruction in use of machines during class time. 33 contact hours.

Clothing Construction II: More detailed in instructions 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 contact hours.

Custom Sewing: An advanced course for those students who wish to progress beyond dressmaking. Students will make suits, coats, men's and ladies' sport wear and other projects as desired by individual members of the class. 60 contact 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. 20 hours.

Knitting: Instructions will be given in the basic stitches; knitting language—it's terms, definitions, symbols and abbreviations; pattern reading; knit tips. Each student is asked to complete a small project during the course. 20 contact 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. 20 contact 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. 24 contact hours.

Bargello: This type embroidery, Florentine canvas embroidery, dates back to the 13th century and is found in many museums. It is excellent in making pillows, cushions, all types of upholstery, plus eyeglass cases, nests, belts, jewelry cases and many other articles. 20 contact hours.

Interior Decorating: Primary attention will be given to art and practice of decorating. Emphasis will be given to the choice and arrangement of furniture; color and how to use it; flooring surfaces and floor covering; window treatment with draperies and curtains. 33 contact 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. 30 hours.

Pottery Making: A class similar to ceramics but using clay instead of slip. Students are encouraged to use their imagination and self-expression in the formation of various objects of creation. Instructions will also include use of the potter's wheel as well as other techniques used in pottery making. 33 contact hours.

Cake Decorating I: An ideal course for the homemaker who would like to learn the art and technique of decorating cakes for all occasions. Instructions will include preparation and application of various icings, borders, writing, drawing and making flowers for cakes. 24 contact hours.

Cake Decoration II: Instructions will center around the more difficult forms of cake decorating, including cakes for birthdays, anniversaries, weddings, and special occasions. Students should have completed the basic cake decorating course or have the equivalent skill before entering this course. 24 contact hours.

Driver Education: (48 hours, \$16.00) This class is designed for those students 18 years of age or over who wish to prepare for the State License Examination. The instructions lay the foundation for proper use of motor vehicles by developing mature driving attitudes, knowledge, skills and habits which are so important in today's complex traffic. The course consists of 30 hours of classroom instructions, 12 hours in the car as an observer, and 6 hours of actual driving practice. 48 contact hours.

Ground School Training: Designed for those students who wish to become a private pilot. Instructions include the theory of flight and airplane performance, traffic rules and general operation, flight planning, interpretation of weather and radio communication procedures. The purpose of this class is to prepare students to take the FAA examination. 40 contact hours.

Pre-Natal Care: This course is designed to familiarize expectant parents with all aspects of pregnancy, including how to cope with both the physical and emotional aspects of pregnancy. Prenatal care, processes of labor and delivery, post-partum care, convalescence—including birth control, infant development and care are included. 15 contact hours.

Nurse's Aide: 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. 100 contact hours.

Home-Sitter Nursing: Instructions in the basic nursing skills that would aid students in caring for children, older people, and even themselves. Nursing skills such as bedmaking, baths, back-rubs, positioning, diet therapy, basic first aid, and a limited amount of basic psychology needed to relate productively with those who are sick are taught in this course. 50 contact hours.

Intensive Coronary Care: The role of the nurse in caring for the acutely ill cardiac patient is taught in this class. New techniques in diagnosis and treatment are used, including monitoring, resuscitation and other special procedures. Various audio-visual media and special professional personnel are utilized in the class. 30-120 contact hours.

Cardio-Pulmonary Resuscitation: A special class dealing with the various techniques of cardio-pulmonary resuscitation and the role of the nurse in this situation. 10 contact hours.

Pharmacology: A course designed to assist students in acquiring understanding and skills basic to safe and intelligent administration of drugs. Emphasizes the need of the nurse to prepare and administer drugs safely, to observe intelligently, and to report and record accurately, a review of specific drugs. Hours are flexible according to needs.

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.

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.

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 contact hours.

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.

Ambulance Attendant Training (E-03): A course designed to develop understanding of and appreciation for the role of the ambulance attendant in the care and transportation of the sick and injured. Classroom discussions include principles related to administering emergency aid to victims in selected situations, to safe transportation of the sick and injured, and to safe operation of the ambulance. Students experiences include supervised practice in applying splints, in using resuscitation techniques, in applying dressing, and in positioning and transporting victims with a variety of conditions. 24 contact hours.

Ambulance Attendant Training (E-04): A course designed especially for ambulance attendants dealing with external cardiac compression and treatment of burns. The course is to serve as upgrading for those who have already completed the E-03 Ambulance Attendant Training. 6 contact hours.

Emergency Medical Technician (EMT): A more detailed course with emphasis on the development of skill in recognition of symptoms of illness and injuries and proper procedures of emergency care. Much stress will be given to demonstration and practice as a teaching method. Ten hours of in-hospital observation is included. 81 contact 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 contact hours.

Office Practices: 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.

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 communication with others will be stressed. 20 hours.

Auto Tune-Up: General trouble shooting 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 contact 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 contact hours.

National Electrical Code: This course is provided for those who wish to study 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 multi-family dwellings, commercial establishments and industrial locations. 80 contact hours.

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.

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 contact 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 complexed animals. A practical course. 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 contact 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.

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.

Transportation and Traffic Management: Participants are acquainted with the important phases of Transportation and Traffic Management including classification of freight, principles of freight rates and tariffs, shipping documents and their application, special freight services, freight claims, construction and filing of tariffs, switching, routing, warehousing and distribution, materials handling, technical tariff interpretations, import and export traffic, construction and application of the Interstate Commerce Act and practice and procedure before the Interstate Commerce Commission. 48 contact hours.

Short Story Writing: This course will provide the beginning writer with an understanding of the basic concepts of the elements and structure of the short story. Content will include characterization, mood, perspective, plot and use of symbolism. 24 hours.

Real Estate: This class is designed for prospective salesmen and others who desire to know the fundamental aspects of real estate. The course includes instructions in real property laws, appraising, brokerage, finance and the mechanics of closing. 33 contact hours.

Real Estate Appraisal: A course designed to follow or run concurrently with Real Estate Sales dealing more specifically with the appraisal of property. Practical experience will be given in appraising various types of properties. 33 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. 12 contact 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. 33 contact hours.

Outboard Motor Repair: A practical course in the theory and fundamentals of outboard engines. Actual practice in servicing and repairing engines and motors will enable the student to correct existing problems and minimize expenses on repairs. 30 hours.

Textile Quality Control: Emphasis will be placed on principles and techniques of quality control and cost saving in textile manufacturing. Functions, responsibilities, structure, costs, reports, records, personnel, and customer relations will be stressed. 27 contact hours.

Food Buying: Instruction in the efficient use of the food dollar for best nutritions. Menu planning, grocery shopping, selection of specific foods, use of leftovers, convenient foods, and non-grocery items are included. 24 contact 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 it and maintain it. 18 contact hours.

SCHOOL FOOD SERVICE: These courses are developed by and offered in cooperation with the School Food Service Division of the North Carolina State Department of Public Instruction:

Overview of School Food Service: A basic orientation course presenting the history of school feeding, characteristics of a good program, personnel and human relations, nutrition and menu planning, organization and management, purchasing, storing, preparation and serving of food, sanitation and safety. 45 contact hours.

Procurement: A new School Food Service course designed to give school food service personnel instructions and helpful suggestions in the procurement of foods. 30 contact hours.

Nutrition and Menu Planning: This course offers in depth the role in nutrition of protein, fats, carbohydrates, minerals and vitamins; factors in developing good food habits; dietary needs of children and youth; advanced work in planning and evaluating menus. 45 contact hours.

Care and Use of Equipment: This course stresses the general care and safety in the use of equipment, specific use and care of large and small pieces of food service equipment, and inventory and maintenance records. 45 contact hours.

Quantity Food Production Management: Designed for food service personnel with experience in methods of quantity food preparation which retain nutritive values; use of standardized recipes; use of weights and measures; use and care of equipment; timing, selection, preparation and service of foods for the school lunch. 45 contact hours.

HOTEL-MOTEL MANAGEMENT: These courses are offered in cooperation with the Educational Institute of the American Hotel-Motel Association.

Front Office Procedure: This is a basic course pointing up the need for close relationship between front office and management. It emphasizes the crucial human and public relations responsibilities of the front office staff. 24 contact hours.

Hotel-Motel Accounting: This course is designed to review the basic arithmetic skills needed and to develop an ease in their use; explain the accounting terminology and practices commonly used; provide practice in preparing a complete set of accounts and a simplified balance sheet and profit and loss statement. 24 contact hours.

Hotel-Motel Law: To illustrate the consequences of lack of foresight in the innkeeper's managerial functions and to create an awareness of the many responsibilities which the law imposes upon the innkeeper. 24 contact hours.

Introduction to Hotel-Motel Management: Traces of growth and development of the lodging industry from early inns to modern skyscraper hotels and highway motels. Also stressed are the importance of the "hospitality attitude" and the role of the hotel-motel as a competitive business in the free enterprise system. 24 contact hours.

Maintenance and Engineering: This course examines the organization of the engineering department and provides the technical information needed to establish effective preventive maintenance procedures. 24 contact hours.

Communications: This course has been designed as an overview of the uses and techniques of communication with particular reference to the innkeeping industry. It can be beneficial to employees at any level of the organization, but should be especially helpful to those having managerial responsibility. 20 contact hours.

HOSPITAL TRAINING:

Hospital Human Relations: Designed to acquaint hospital personnel with the importance of good human relations. Case studies illustrate many ways in which employees and patients react to each other. Much stress is placed on the importance of developing proper attitudes toward the patient and toward fellow employees. 20 contact hours.

Hospital Housekeeping: The basic problems of hospital housekeeping are covered with a good breakdown of what should be done daily and what can be done only periodically. There is much information on techniques for doing the job more effectively and with maximum efficiency. 40 contact hours.

Food Service Supervision for Hospital Personnel: This course consists of classroom instructions and supervised experience in a hospital kitchen. It provides a standardized program for food service supervisors which will qualify them to assume the responsibilities delegated to them by the dietitian and prepare them to meet the performance level of the current concept of supervisory leadership in their respective areas. 40 contact hours.

Custodial Training: This course attempts to teach basic procedures in cleaning different types of surfaces, health and sanitation procedures, how to get along with patients, and how to fit in with the full hospital program. 40 contact hours.

Modified Diets: This course deals with the many types of diets, the food intake, and the caloric count. It also goes into the various diseases that are associated with the human body and what role the actual diet contributes to the recovery of the patient. 20 contact hours.

Additional courses listed under the headings indicated, may be available.

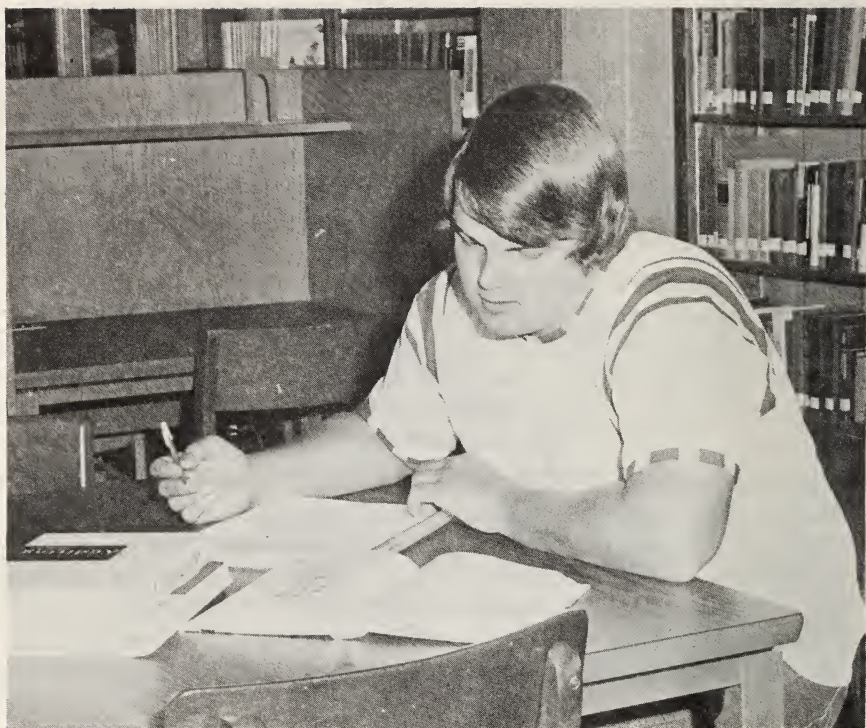
FIRE SERVICE TRAINING

Arson Detection
Civil Disorder
Firefighting Procedures
Hose and Ladder Practices
Forcible Entry
Fire Brigade Training
Rescue Practices
Salvage and Overhaul Practices
Ventilation
Hospital Fire Safety
Fire Apparatus Practices
Protection Breathing Equipment

LAW ENFORCEMENT TRAINING

Accident Investigation
Civil Law Procedure
Criminal Investigation
Crowd and Riot Control
Defensive Tactics
Introduction to Police Science
Jail and Detention Service Training
Narcotics Investigation
Supervision for Law Enforcement
Police Firearms Training

For further information on these courses or any other courses, please contact the Department of Continuing Education, Cleveland County Technical Institute.



LEARNING RESOURCES CENTER

PROGRAMS

THE LEARNING RESOURCES CENTER

**HOURS: 8:00 A.M.-10:00 P.M. Monday-Thursday
8:00 A.M.-4:00 P.M. Friday**

INTRODUCTION:

The Learning Resources Center houses the Library, Audio Visual Media, and Self-Study Learning Center.

The Learning Resources Center adheres to a philosophy of service to students, faculty, administration and the Community.

The functions of the Center are to support and enrich classroom instruction through a collection of carefully selected materials related to the curricula and to supply materials for personal enrichment. These functions are achieved through book, and non-book media, and self-study materials.

THE LIBRARY

The Library has a continuously growing collection of approximately 13,531 volumes, most of which are related to the Degree and Diploma programs. The selection of materials both book and non book is done in consultation with faculty, students and administration. The Library has a collection of local history materials that is used in conjunction with the Continuing Education on local history and for anyone who wishes to do some research on local history. The open shelf concept is used to encourage browsing and study in a quiet area. The Library subscribes to 234 periodicals. The audiovisual collection is intershelfed with the books for better accessibility.

THE SELF-STUDY LEARNING CENTER

The Self-Study Center is designed to provide study opportunities in practically any field that might be of interest.

The Center is essentially an individual study situation in which a person eighteen years of age or older may undertake most any level of available subjects. All the materials used is programmed. Programmed material allows the student to work at his own speed while he teaches himself. Media-Coordinators are on duty at all times to offer instruction and to guide the student through his program.

Because there are no classes in the Self-Study Center, most students may enroll at any time, usually the student sets his own work sessions and attends the center as many days and hours as he thinks he can attend. There is no cost, and any adult can take as many courses as he needs.

SERVICES AVAILABLE

Pre-High School Program

Eighth Grade Preparatory and Test

High School and Equivalency Program

(GED) and Exam

Adult High School Diploma Program
General Interest Program
Pre-Curriculum Program
General Education Development (GED) Exam

**GENERAL EDUCATION
DEVELOPMENT (GED) TEST**

The General Educational Development test is to appraise the educational development of adults who have not completed their formal high school education. Upon satisfactory completion of the tests, adults may earn a high school equivalency certificate, and in turn, qualify for admission to college or, in general, for admission to more advanced educational opportunities.

GED tests, a battery of five comprehensive exams in the areas of English composition, social studies, natural sciences, literature and mathematics will be given on a Friday afternoon and Saturday morning once each month at the Cleveland County Technical Institute. Both sessions are required.

Applications for taking this exam may be secured from the superintendents of the three school systems in the county or from the Cleveland County Technical Institute.

Applicants for the test may wish to enroll in the Learning Center for a period of time prior to the testing date. The Learning Center Coordinator will enroll the applicant and suggest subject area materials. Applications must be on file at Cleveland Tech one week prior to the testing date. Late applicants will be scheduled for tests the following months.

For additional information, contact the Chief GED Examiner, Cleveland County Technical Institute, 137 South Post Road, Shelby, North Carolina 28150.

VETERANS

The Veterans Administration has approved the program of High School Equivalency Preparation for veterans. You may enroll as a full-time student (25 hours per week), three-quarter time student (18 hours per week), or half-time student (12 hours per week). You may schedule these hours anytime between the hours of 8:00 a.m. to 9:00 p.m. Monday through Thursday and 8:00 a.m. to 12 noon Friday. Once a schedule is established, each veteran must comply with the exact hours of attendance. You receive the same allowance as in any other educational program but the time does not count against your months of eligibility for post-high school education. You may be enrolled in this program for a maximum of 900 hours.

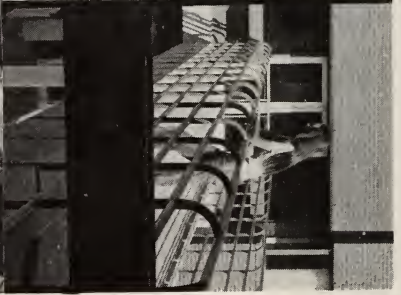
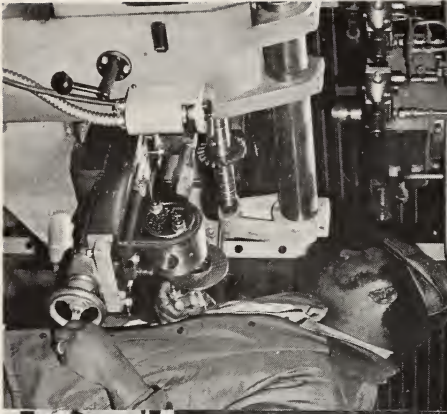
AUDIOVISUAL MEDIA

The functions of the audiovisual media section of the Learning Resources Center include the coordination and distributing of AV instructional materials and equipment and media production.

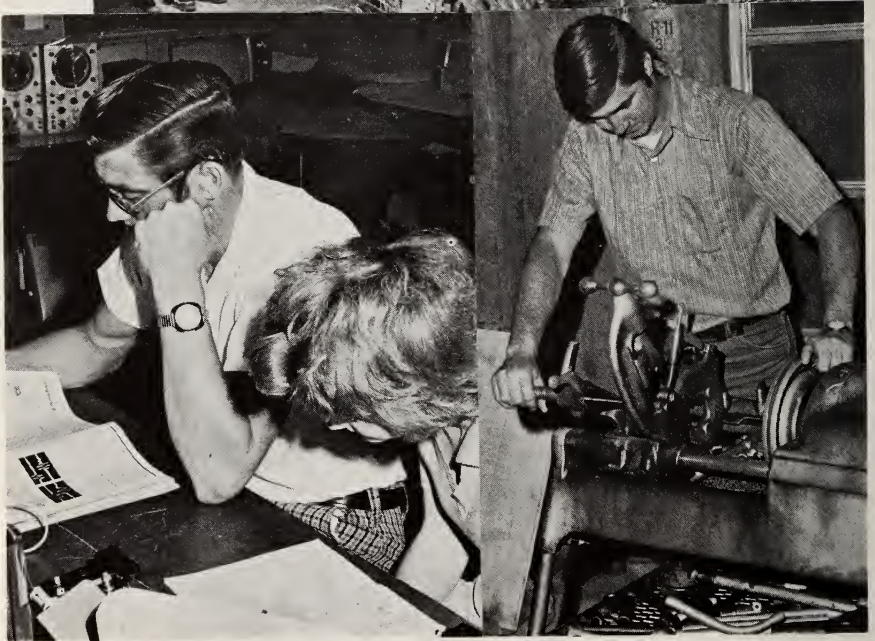
There are over 3,500 AV acquisitions in the collection including films, cassette tapes, slides, records, filmstrips, film loops, transparencies, video tapes, etc.

Most of the AV materials may be checked out by students for self-study in the Learning Resources Center, in the classroom, or if necessary, for home use.









This catalog can give you facts about the operation of Cleveland County Technical Institute. We invite you to visit the campus and meet the people who give life to those operations. Our desire is to aid you in meeting your educational needs.

Noel A. Lykins

Vice-President For Student Services

Cleveland County Technical Institute
137 South Post Road
Shelby, North Carolina 28150