ISOTHERMAL

1995-1997 CATALOG



MESSAGE FROM THE PRESIDENT

It is a pleasure to welcome you to Isothermal Community College. For the past quarter century, it has been our privilege to provide a wide range of educational services for thousands of citizens from Rutherford and Polk Counties.

The philosophical foundation for this service remains unchanged. Isothermal Community College maintains that the opportunity for higher education should be available to everyone and recognizes that varying individual needs make a wide array of programs and services necessary. The diversity of our offerings will become evident as you review this catalog.

Less evident, yet perhaps even more important, is the climate of the institution which is created by its faculty and staff. Our faculty, staff and administration believe that students are their primary concern and are enthusiastic in providing the academic and personal support services that will help students reach their goals. The college is committed to excellence in teaching and service and strives to be an institution wherein each student has the opportunity to attain the highest level of his or her capabilities.

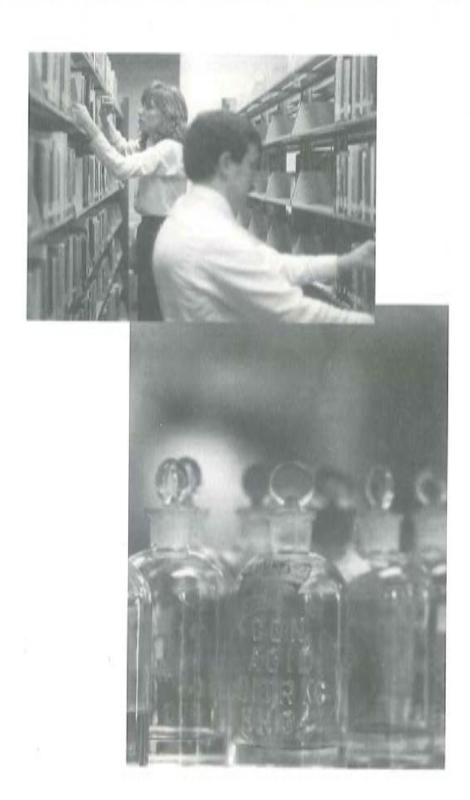
Welcome to Isothermal Community College.

Willard L. Lewis

TABLE OF CONTENTS

Message From The President	2
Academic Calendar	5
Administrative Organization	9
Introduction	11
Accreditation	13
Library	14
Nondiscrimination Statement	14
Visits To The Campus	14
Admissions	16
Academic Procedures	20
Registration	20
Graduation	31
Student Affairs	33
Testing	35
Student Activities	37
Financial Assistance	40
General College Regulations & Policies	48
Communicable Disease Policy	48
Tuition & Fees	50
Continuing Education	53
Polk Campus	63
Curriculum Programs	66
College Transfer Programs	68
Technical Programs	88
Vocational Programs	. 134
Independent Study	. 149
Cooperative Education	. 149
Student Support Services	. 150
Course Descriptions	.152
Administrators and Faculty	, 219
Index	. 223

Although the editor of this catalog has made every reasonable effort to attain factual accuracy herein, no responsibility is assumed for editorial, clerical, or printing errors or errors occasioned by mistakes. The editor has attempted to present information which at the time of preparation for printing, most accurately describes the course offerings, faculty listing, policies, procedures, regulations, and requirements of the college. However, it does not establish contractual relationships. The college reserves the right to alter or change any statement contained herein without prior notice.



ISOTHERMAL COMMUNITY COLLEGE 1995-96 Calendar

Fall Quarter 1995 (55 days)

 August 30
 Wednesday

 August 31
 Thursday

 September 1
 Friday

 September 4
 Monday

 September 5
 Tuesday

 September 5,6
 Tuesday, Wednesday

October 9-13 Monday-Friday
November 3 Friday
November 16, 17, 20 Thursday, Friday, Monday
November 21 Tuesday (11:00 a.m.)

Thursday, Friday, Monday Final Examinations
Tuesday-Friday Faculty Checkout
Tuesday-Friday Thanksgiving Holidays

Convocation Day
Orientation & Registration
Advising and Schedule Adjustments
Labor Day Holiday
First Day of Classes
Schedule Adjustments
Mid Term
Last Day to Drop with "W"
Final Examinations
Faculty Checkout

Orientation & Registration

First Day of Classes

Classes Resume

Schedule Adjustments

Winter Holidays Begin

Winter Quarter 1995-96 (55 days)

November 21-24

February 29

November 27 Monday November 28 Tuesday Tuesday, Wednesday November 28, 29 Friday (4:30 p.m.) December 15 Tuesday (8:00 a.m.) January 2 January 15 Monday January 16-19 Tuesday-Friday Friday February 9 Monday, Tuesday February 26, 27 Wednesday February 28

Monday Martin Luther King Holiday
Tuesday-Friday Mid Term
Friday Last Day to Orop with "W"
Monday, Tuesday Final Examinations
Wednesday Final Examinations
Thursday (11:00 a.m.) Faculty Checkout

Spring Quarter 1996 (55 days)

Monday Orientation & Registration March 4 First Day of Classes Tuesday March 5 Schedule Adjustments Tuesday, Wednesday, March 5, 6 Spring Holidays Begin Thursday (10:00 p.m.) April 4 April 15 Monday (8:00 a.m.) Classes Resumo Monday-Friday Mid Term April 15-19 Last Day to Drop with "W" Friday May 10 May 24, 27 Friday, Monday Final Examinations **Final Examinations** May 28 Tuesday Wednesday (11:00 a.m.) Faculty Checkout May 29 Graduation (Curriculum) Monday (7:30 p.m.) June 3 Graduation (Adult High School) Tuesday (7:30 p.m.) June 4

Summer Quarter 1996 (50 days)

June 4 Tuesday Orientation & Registration Wednesday June 5 First Day of Classes Wednesday, Thursday June 5, 6 Schedule Adjustments July 1-5 Monday-Friday Independence Day Holidays July 8-12 Monday-friday Mid Term August 2 Friday Last Day to Drop with "W" August 20 Tuesday Last Day of Summer School August 21 Wednesday (11:00 a.m.) Faculty Checkout

1st Summer Session 1996 (25 days)

June 4 Tuesday Orientation & Registration June 5 Wednesday First Day of Classes June 5, 6 Wednesday, Thursday Schedule Adjustments Last Day to Drop with "W" July 10 Wednesday July 1-5 Monday-Friday Independence Day Holidays July 16 Tuesday Last Day of 1st Session

2nd Summer Session 1996 (25 days)

July 16	Tuesday	Registration
July 17	Wednesday	First Day of Classes
July 17,18	Wednesday, Thursday	Schedule Adjustments
August 2	Friday	Last Day to Drop with "W"
August 20	Toosday	Last Day of 2nd Session
August 21	Wednesday (11:00 a.m.)	Faculty Checkout

1996-97 Calendar

Fall Quarter 1996 (55 days)

Monday September 2 Tuesday September 3 Wednesday September 4 Thursday September 5 Friday September 6

September 6, 9 October 14-18 November 1 Friday Tuesday, Wednesday

November 19, 20 November 21 November 22 November 25-29

Friday, Monday Monday-Friday

Thursday Friday (11:00 a.m.) Monday-Friday

Labor Day Holiday Convocation Day

Orientation & Registration

Advising and Schedule Adjustments First Day of Classes

Schedule Adjustments Mid Term

Last Day to Drop with "W"

Final Examinations Final Examinations Faculty Checkout Thanlogiving Holidays

Winter Quarter 1996-97 (55 days)

December 2 December 3 December 3, 4 December 19 January 2 January 13-17 January 20 February 7 February 27, 28

March 3

March 4

Monday Friday Thursday, Friday Monday Tuesday (11:00 a.m.)

Orientation & Registration Monday First Day of Classes Tuesday Schedule Adjustments Tuesday, Wednesday Winter Holidays Begin Thursday (10:00 p.m.) Classes Resume Thursday (8:00 a.m.) Mid Term Monday-Friday

Martin Luther King Holiday Last Day to Drop with "W" final Examinations Final Examinations Faculty Checkout

Spring Quarter 1997 (55 days)

Thursday March 6 March 7 Friday. Friday, Monday March 7, 9 Thursday (10)00 p.m.) March 22 Monday (8:00 a.m.) April 7 Monday-Friday April 21-25 Friday May 9 Wednesday, Thursday May 28, 29 Friday May 30 Monday (11:00 a.m.) June 2 Wednesday (7:30 p.m.) June 4 Thursday (7:30 p.m.) June 5

Orientation & Registration First Day of Classes Schedule Adjustments Spring Holidays Begin Classes Resume Mid Torm Last Day to Drop with "W" Final Examinations Final Examinations Faculty Checkout Graduation (Curriculum) Graduation (Adult High School)

Summer Quarter 1997 (50 days)

June 5 Thursday Orientation & Registration June 6 Friday First Day of Classes Schedule Adjustments June 6, 9 Friday, Monday June 30-July 4 Monday-Friday Independence Day Holidays Monday-Friday July 7-11 Mid Term August 1 Friday Last Day to Drop with "W" August 21 Thursday Last Day of Summer School August 22 Friday (11:00 a.m.) Faculty Checkout

1st Summer Session 1997 (25 days)

Thursday	Orientation & Registration
Friday	First Day of Classes
Friday, Monday	Schedule Adjustments
Monday-Friday	Independence Day Holidays
Thursday	Last Day to Drop with "W"
Thursday	Last Day of 1st Session
	Friday Friday, Monday Monday-Friday Thursday

2nd Summer Session 1997 (25 days)

July 17	Thursday	Registration
July 18	Friday	First Day of Classes
July 18, 21	Friday, Monday	Schedule Adjustments
August 1	Friday	Last Day to Drop with "W"
August 21	Thursday	Last Day of 2nd Session
August 22	friday (11:00 a.m.)	Faculty Checkout

ISOTHERMAL COMMUNITY COLLEGE BOARD OF TRUSTEES

APPOINTED BY RUTHERFORD COUNTY BOARD OF EDUCATION

Mr. J. Gordon Scott, III-Bostic, NC

Mr. William T. Page—Rutherfordton, NC (2nd Vice Chairman)

Mrs. Robert Spratt-Caroleen, NC-Secretary

Mr. James T. Tanner--Rutherfordton, NC

APPOINTED BY RUTHERFORD COUNTY COMMISSIONERS

Mr. A. Jervis Arledge-Rutherfordton, NC

Mr. Walter Dalton-Rutherfordton, NC

Mr. Joe A. Miller-Cliffside, NC

Mrs. Vivian G. Watson-Rutherfordton, NC

APPOINTED BY THE GOVERNOR OF NORTH CAROLINA

Mr. James R. Hutchins—Forest City, NC

VACANT

Burtchus R. Lathan-Spindale, NC

Mrs. Charles H. Tucker-Mill Springs, NC

APPOINTED BY THE POLK COUNTY COMMISSIONERS

Dr. C.W. McCall—Tryon N.C.

Mr. Howard Olson-Tryon, NC

RUTHERFORD COUNTY BOARD OF COMMISSIONERS

Mr. Russell Duncan

Mr. Aden Lynch

Mr. Franklin Goode, Chairman

Mr. Tony Helton

Mr. Robert Hawkins

POLK COUNTY BOARD OF COMMISSIONERS

Mr. Benny Smith, Chairman

Mr. Carson Deck

Mr. Jesse Foy

Mr. Tim McCormack

Mr. Henry Huntsinger

ADMINISTRATIVE OFFICES

Office of the President	(20)(90)(20)
Willard L. Lewis, III	President
Glenda Scruggs	Secretary to the President
Mary Burgin	Director of Development
Karen lans	Public Information Officer
Karen A. Noel Director of Institutional	Effectiveness and Research
Fred L. Fason	President Emeritus

Office of the Vice President for Administration Dillard L. Morrow
Office of the Vice President for Academic and Student Affairs
Robert E. Harrison
Office of Director of the Polk County Campus
Carole Bartol

INTRODUCTION

Historical Sketch

In 1963 the General Assembly passed Chapter 115A, General Statutes of North Carolina, establishing the Department of Community Colleges, and shortly thereafter the Rutherford County Commissioners appointed a committee to study and promote plans for a community college in the County. Their preliminary report, submitted in March 1964, recommended that the proposed College serve Rutherford and Polk Counties, that a site south of Spindale be chosen, and that the College be financed by a bond issue and a special tax levy. On September 5, 1964, Rutherford County citizens voted by a margin of over 16 to 1 in favor of a \$500,000 bond issue for construction of the College, to be matched by state funds, and a property tax increase to pay the County's portion of the operating costs.

The College was chartered on October 1, 1964, by the State Board of Education. The first meeting of the Board of Trustees was held on November 17, and on November 23 the Board approved the name "Isothermal Community College." Fred J. Eason was chosen by the Board as the College's first president on December 22. On July 1, 1965, the Industrial Education Center, which had been operating since 1962 as an extension of Gaston Technical Institute, became the vocational and technical division of Isothermal Community College. The College thus began operation with 66 students, some of whom received the first diplomas issued by Isothermal in exercises that August. August 1965 was also the culmination of a fundraising drive by Rutherford and Polk County citizens and businesses for the purchase of land for the Spindale campus.

Until the new campus was ready, the vocational-technical, college transfer (begun in September 1966) and adult education divisions were scattered in a number of temporary locations in Avondale, Spindale, and Caroleen. College transfer and vocational-technical education each had about 100 students. The adult education program was boosted by the creation of the High School Diploma program in May 1967. That same year, I.C.C.'s Polk County program began with continuing education courses in Tryon.

The first three buildings on the Spindale campus opened on April 8, 1968, and the College's first full-fledged graduation exercises were held on August 30. The lake and initial landscaping of the campus were completed by April 27, 1969, when the College's charter was presented. On January 11, 1970, the College was accredited by the Southern Association of Colleges and Schools.

Expansion continued with a new Occupational Education Building opening. A satellite program for Polk County was approved in September 1974,

and in November 1974 Rutherford County voters passed a \$1.8 million bond issue for additional construction on the Spindale campus. This enabled construction of a new vocational building with electronics facilities which opened in September 1978, and the student center/physical education building which opened in the spring of 1979. Both buildings were dedicated on October 21, 1979. President Eason retired effective June 30, 1978, and the Board of Trustees selected Dr. Ben E. Fountain, Jr., as his successor. Dr. Dillard L. Morrow served as acting president until Dr. Fountain could assume his duties in September. Growth in facilities continued with help from local business and industry which made possible such projects as the Individualized Instruction Center, opened in the fall of 1979, and the marble marker at the entrance to the campus, completed in November 1979. In 1986 extension of the Business Education Building was completed and in 1988 the High Tech Building opened. WNCW, a college owned and operated public radio station, went on the air in October of 1989. The Maintenance Building, the last construction on campus, was completed in 1988; however, plans for establishing a continuing education facility with an auditorium are under way.

The Polk County Campus also progressed, beginning an independent study program and college transfer courses in 1976, and obtaining class-room space in the old Jervey-Palmer Building in Tryon. A permanent site for the campus became available in October 1982, when the Polk County Commissioners granted the college 10 1/2 acres near St. Luke's Hospital. This new site was dedicated on July 25, 1983. Construction of the new facility was completed in the fall of 1989.

Generous community support for the college has been evident in campus development as well as program support. A variety of student scholarships have been established as well as faculty recognition programs including Genesis grants and the Outstanding Teacher Award. In 1993 the Endowed Chairs program for meritorious performance and continued professional development was established in four Divisions.

Dr. G. Herman Porter was appointed Acting President on August 1, 1985, upon the retirement of Dr. Fountain and served in that capacity until Dr. Willard L. Lewis III assumed the duties of President on June 9, 1986.

Mission Statement

Isothermal Community College, a member of the North Carolina Department of Community Colleges, is a comprehensive, two-year, public institution that serves Rutherford and Polk Counties. The college offers individual courses and certificate, diploma and degree programs that enable students to transfer to four-year institutions or to acquire skills for new or continued employment, as well as to function effectively as citizens in our society. In addition, the college provides training for area business and industry, personal enrichment courses, remedial and developmental courses and community service activities.

Isothermal Community College faculty, staff and administration believe that students are their primary concern. Because of this concern, the college provides programs, schedules, and academic and personal support services according to the diverse needs of its students. In order to assist students in realizing their personal, educational and professional goals, the college is committed to excellence in teaching and service and strives to be an institution wherein each student has the opportunity to attain the highest level of his or her capabilities.

Isothermal Community College shall be open to all eligible individuals who can benefit regardless of age, gender, socio-economic status, ethnic origin, race, religion or disability. The essence of the college's efforts shall be to contribute, in cooperation with other local educational systems and institutions, to a higher quality of life in the community it serves.

Accreditation

Isothermal Community College is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools to award the Associate of Arts Degree, the Associate of Science, the Associate of Applied Science Degree, Diplomas and Certificates.

Office Hours

The administrative offices of the College are open Monday through Friday from 8:00 a.m. to 4:30 p.m.

General Class Hours

In order to provide educational opportunities to the majority of the residents of Rutherford, Polk and contiguous counties, most academic programs are offered during both day and evening hours.

Day classes are normally scheduled from 8:00 a.m. through 4:45 p.m. Monday through Friday. Evening classes usually are scheduled from 5:30 p.m. through 10:15 p.m. Monday through Thursday evenings. A limited number of special classes are offered on Friday evening and on Saturday.

Library

The library provides a variety of books, audio-visuals, and other materials to accommodate many kinds of learning. The collection supports and reflects the teaching/learning process for students and faculty; however, the local communities are welcome to use these resources as well. A friendly and competent staff is available to offer its services to help students, faculty, and the community.

Library hours:

8:00 a.m.-9:00 p.m. Monday-Thursday 8:00 a.m.-4:15 p.m. Friday Holiday and Quarter Break Hours as Posted

Visits To The Campus

Visitors are always welcome. An information desk is maintained on the main floor of the administration building Monday through Friday. The receptionist will contact the Dean of Student Affairs to provide general information and a tour of the campus.

You may arrange a tour of the campus by writing or calling the Dean of Student Affairs. When writing, please specify the time and the number of persons in your party.

Nondiscrimination Statement

Isothermal Community College is dedicated to equality of opportunity for its staff, students, and community. Isothermal Community College does not discriminate against eligible students, employees or applicants on the grounds of race, color, religion, age, gender, national origin, or disability. Isothermal Community College is committed to this policy.

Isothermal Community College supports the protection available to members of its community under all applicable Federal Laws including Title VI and Title VII of the Civil Rights Act of 1964, Equal Pay Act of 1963, Title IX of the 1972 Education Amendments, Executive Order 11246 as amended by 11375, Title VI (section 799A) and Title VIII (section 8451) of the Public Health Service Act, Age Discrimination Act, and the Rehabilitation Act of 1973.

Any member of the Isothermal Community College Community believing they have been discriminated against or desiring more information concerning these provisions should contact:

Dr. Dillard Morrow Affirmative Action/Title IX Coordinator Isothermal Community College P.O. Box 804 Spindale, NC 28160-0804

Sexual Harassment Policy

Isothermal Community College is committed to providing and promoting an atmosphere in which employees realize their maximum potential in the workplace and students can engage fully in the learning process. Accordingly, sexual harassment by and of both employees and students is prohibited by this policy.

Sexual harassment is defined as deliberate, unsolicited, unwelcomed verbal and/or physical conduct of a sexual nature or with sexual implications. The definition does not include personal compliments welcomed by the recipient or relationships which are freely entered into by both parties.

Isothermal Community College, as part of its continuing Affirmative Action efforts, endorses the following:

- 1. It is illegal and against the policies of Isothermal Community College for any employee to sexually harass another employee by (a) making unwelcomed sexual advances or requests for sexual favors or other verbal or physical conduct of a sexual nature a condition of an employee's continued employment or (b) making submissions to or rejections of such conduct the basis for employment decisions affecting the employee or (c) creating an intimidating, hostile, or offensive working environment by such conduct.
- 2. It is against the policies of Isothermal Community College for any employee to sexually harass a student by (a) making unwelcomed sexual advances or requests for sexual favors or other verbal or physical conduct of a sexual nature a condition of a student's grade, progress, or recommendation or (b) creating an intimidating, hostile, or offensive learning environment by such conduct.
- It is against the policies of Isothermal Community College for any student to sexually harass another student by (a) making unwelcomed sexual advances or by (b) creating an intimidating, hostile, or offensive environment by such conduct.

Sexual harassment shall be deemed a form of discrimination based on sex as prohibited by Section 703 of Title VII of the Civil Rights Act, and North Carolina General Statute 126-16 (in the case of employees) and Title IX of the Education Amendments Act of 1972 (in the case of students).

Employees of Isothermal Community College wishing to discuss a possible sexual harassment incident should contact the Affirmative Action/Title IX Coordinator.

Isothermal Community College students who have a complaint or grievance regarding sexual harassment should contact the Dean of Student Affairs.

ADMISSIONS

GENERAL ADMISSION REQUIREMENTS FOR CREDIT COURSES

Isothermal operates an "Open Door" admission policy. Applicants are normally required to have a high school diploma or its equivalent and pass N.C. Competency Test. Exceptions are made in some vocational programs based on the age of the applicant (18 years of age or older). The following are specific requirements for each program.

College Transfer and Technical Applicants:

- 1. Complete an application for admission.
- 2. Official transcripts from high school and college (if applicable).
- 3. ASSET Placement Test.
- Orientation Program with review of test scores and other helpful preregistration information.

Vocational Applicants:

- 1. Complete an application for admission.
- 2. Official transcript(s) from high school and college (if applicable).
- 3. ASSET Placement Test
- 4. Orientation Program.

Associate Degree in Nursing applicants are required to:

- 1. Complete an application for admission.
- 2. Provide a minimum SAT score of 450 on verbal and 450 on math or a composite score of 17 on the ACT. If the applicant has not had the SAT or the ACT, they must take the ASSET Placement Test and complete the requirements, if necessary, prior to Fall quarter acceptance. Applicants may submit official college transcripts showing successful completion of comparable courses in math, algebra and English.
- Provide an official High School transcript or GED Equivalency Certificate and official transcript(s) from previous education above the high school level.
- Provide evidence of a basic high school or college course in biology, chemistry, and algebra with a grade of "C" or above prior to entering the program.
- Obtain (3) references (other than family) and have them complete Isothermal Community College Reference Forms.
- 6. Must submit acceptable report of physical and mental examinations.
- Must score satisfactorily on the PSB-Nursing School Aptitude Examination-R.N.
- Must schedule an interview with Nursing faculty and a Student Affairs counselor.

40

Practical Nursing applicants are required to have a high school diploma or its equivalent and:

1. Complete an application for admission.

Take the ASSET Placement Test and complete the requirements, if necessary, prior to Fall quarter enrollment in the Nursing Curriculum and make satisfactory score on NET Test.

3. Provide a completed physical examination.

4. Obtain three (3) references (other than family) and have them com-

plete Isothermal Community College Reference Forms.

 Provide official high school transcript or GED Equivalency Certificate and official transcript(s) from previous education above the high school level.

Final selection is made after a personal interview with the Nursing faculty.

Child Care Worker Program applicants are required to have a high school diploma or its equivalent and meet the requirements for vocational applicants.

Cosmetology applicants must have completed the ninth grade. They must meet the requirements for vocational applicants.

Veterans and Veterans' Dependents receiving veterans' educational benefits must provide transcripts (high school and college, if applicable) of all education.

ADMISSION PROCEDURE FOR FOREIGN STUDENTS

In addition to the general admission requirements, all students entering the country on a I-20 Visa are required:

 to receive a satisfactory score of 500 or better on the Test of English as a Foreign Language (TOEFL) or

to complete the English 109 course at an English Language School or

a course comparable to ENG 0109.

to demonstrate the ability to support themselves for the entire period of stay in the United States while pursuing a full course of study. Documented evidence of these means is required.

TRANSFER ADMISSION REQUIREMENTS

Transfer applicants must also meet the general admission requirements outlined above. Students transferring 30 quarter hours of credit from a regionally accredited post-secondary institution are not required to submit a high school transcript. Students transferring a grade of C or better in college English and math may be exempt from the placement test. Each applicant requesting transfer of credits from another institution will be

considered on an individual basis (see Transfer of Credit under Academic Procedures and Policies). All transfer students will enter the college with good academic standing. Once enrolled academic standing will be determined by grades on course work done solely at Isothermal.

TRANSIENT STUDENTS

Transient Students who are enrolling at Isothermal Community College need only to submit an application to the Admissions Coordinator and a letter granting approval to attend Isothermal from the college they are attending or plan to attend.

CONDITIONAL ADMISSIONS

Students are cautioned that unless all applicable supporting documents for admission are acknowledged by the Admissions Coordinator prior to their initial registration, permission to register for classes may be denied. In the case of extenuating circumstances, a conditional admission to the College may be granted. Conditions must be met within a period of one quarter from the day of registration or the student may be withdrawn from the College.

READMISSION

Any student who has been suspended for disciplinary reasons from the College must submit a request for readmission to the Dean of Student Affairs.

SPECIAL CREDIT

Students may enroll in the college as special credit students. These students will only be required to complete an application for admissions. However, their enrollment is restricted to courses that do not have a prerequisite that is determined by test scores. Upon the accumulation of 15 quarter hours of credit, the student must meet General Admission Requirements. After 15 quarter hours of credit have been earned, a student may continue to enroll in courses solely for self-enrichment without declaring a degree program. Hours earned beyond the 15 hour limit may not be used at a later date for credit toward degree requirements.

ADMISSION OF HIGH SCHOOL STUDENTS (DUAL ENROLLMENT)

Isothermal Community College has an agreement with the Rutherford County Board of Education and the Polk County Board of Education to permit high school students to take college level classes for enrichment and advanced placement. Students enrolled in high school may be admitted to the College under two programs. The Dual Enrollment Program allows selected students to enroll with the approval of their high school

principal and the Admission Office. Students may also enroll under the Cooperative Agreement Program which is designed for the more advanced high school student. This program also requires the approval of the principal and the Admissions Office of the College. Students planning to enroll under either program must take the ASSET placement test before enrolling in math or English classes.

DEVELOPMENTAL PLACEMENT POLICY

Degree seeking students entering Isothermal Community College in the College Transfer, Technical, and selected Vocational programs must complete one or more developmental courses in the areas of English, reading or mathematics as a result of any one of the following conditions:

 A scaled score below the cut-off scores established by the college on any of the ASSET placement tests (Writing Skills, Reading Skills, Numerical Skills, Elementary, Intermediate, or College Algebra).

Referral by a faculty member to developmental courses when a student's work in curriculum courses demonstrates academic skill deficiencies in one or more of the areas of English, reading or mathematics.

Students should be encouraged to enroll in required developmental courses during the first quarter of their enrollment because of reading and writing requirements in college level courses.

Students who place into three (3) developmental courses will be limited to a twelve (12) credit hour class load. Any nondevelopmental courses must be approved by the students' advisor.

Transfer students who have completed college level or developmental courses in English, reading or mathematics with a grade of "C" or better will be exempted from placement testing in the area(s) they have completed.

Students must achieve a grade of "C" or better in required developmental courses to advance into college curriculum courses. Upon completion of the required developmental courses, students may enroll in the regular sequence of English and mathematics courses. Because credits for developmental courses are used as institutional credits only, they cannot be counted toward graduation. Developmental course credits determine course load for payment, eligibility for financial aid, and/or classification of a full-time student.

Any exceptions to the overall policy must be approved by the Director of Student Support Services.

ACADEMIC PROCEDURES AND POLICIES

Regulations and Requirements

In publishing these regulations, the College does not recognize any implied contract as having validity beyond the present academic catalog year. The President reserves the right to make changes in curricula and in regulations when, in his judgment, such changes are for the best interest of the students and the College. Ordinarily a student may expect to receive a degree by meeting the requirements of a curriculum, as specified in the catalog in force when he entered the College or in any one subsequent catalog published while he is a student, but the College is not obligated to fulfill this exception or to offer in any particular year a course listed in the catalog.

Each student is responsible for observing the procedures, regulations, and requirements of the College as they are announced here and in other official College publications. This section sets forth some of the requirements and regulations which are of particular concern to students, but it is not intended to constitute a complete list of all such regulations and requirements. Unless otherwise stated, these regulations uniformly govern the academic progress of the student from his first year in the College through the final quarter. It must be emphasized that the staff of the College will gladly assist students with details of their program or other academic problems, but that such assistance does not relieve the students of their individual responsibility for meeting the requirements and observing the regulations of the College.

Registration

The College operates on the quarter system. Registration dates are listed in the Academic Calendar at the front of this catalog. All students are required to register in accordance with the procedures and calendar established for the current year. Registration for classes which begin at a time other than the beginning of a quarter will be completed on an individual basis.

Registration Clearance—Students are responsible for obtaining registration clearance for unpaid fines or loans prior to registration. Students on academic probation or suspension must also have clearance.

Auditing Courses

Students who wish to audit courses must register through the regular procedure. Audits will be charged the same fee as students taking courses for credit. AN AUDIT CANNOT BE CHANGED TO CREDIT OR CREDIT TO AUDIT AFTER THE DEADLINE FOR ADDING COURSES. (See "Repeating Courses" page 27)

Student Records

Isothermal Community College in the execution of its responsibilities to students, must maintain accurate and confidential student records. The Student Affairs Division has the responsibility for maintaining these records in accordance with existing state laws, college policy, and the Family Educational Rights and Privacy Act of 1974 as amended. Students are notified annually of their rights through the orientation and registration process.

Student Academic Record. The Admissions and Records Office will develop and maintain a permanent academic record for each curriculum student who enrolls in the college. This record will include name, address, social security number, date of birth, sex and major. The academic portion of the record will include courses taken, grades, hours attempted, hours earned, quality points, quality point averages, courses and credits transferred (if applicable), Dean's List, academic probation or suspension and degrees, diplomas or certificates earned. A transcript(s) of the official academic record may be released or obtained by the student upon written request to the Admissions/Records Office. An official transcript will not be released unless all tuition, fees and other obligations due the college have been satisfied.

Educational Records And Privacy Rights. Isothermal Community College accords all the rights under the law to students who are declared independent. No one outside the institution shall have access to nor will the institution disclose any information from students' education records without the written consent of students except to personnel within the institution, to accrediting agencies carrying out their accreditation function, to persons in compliance with a judicial order, to persons in an emergency in order to protect the health or safety of students or other persons, and to local educational agencies within their need to know. All these exceptions are permitted under the Act.

Within the institution only those members, individually or collectively, acting in the students' educational interest are allowed access to student education records. These members include personnel in the Offices of the Student Affairs Division (Admissions/Records, Financial Aid, Dean of Students and the Career and Testing Center) and academic personnel within the limitations of their need to know.

At its discretion, Isothermal may provide Directory Information in accordance with the provisions of the Act to include: student name, address, telephone number, date and place of birth, major field of study, dates of attendance, degrees, and awards received, the most recent previous educational agency or institution attended by the student, participation in officially recognized activities, and other similar information such as a photograph. Students may withhold Directory Information by notifying the Dean of Students (or designee) in writing within two weeks after the first day of class for any quarter. The law provides students with the right to inspect and review information contained in their education records, to challenge the contents of their education records, to have a hearing if the outcome of the challenge is unsatisfactory, and to submit explanatory statements for inclusion in their files if the decision of the hearing panel is unacceptable. The Dean of Students at Isothermal has been designated by the institution to coordinate the inspection and review procedures for student education records, which include admission, personal, academic, and financial files. Students wishing to review their education records must make written requests to the Dean of Students listing the item or items of interest.

Students may not inspect and review the following as outlined by the Act: financial information submitted by their parents; confidential letters and recommendations associated with admissions, employment or job placement to which they have waived their rights of inspection and review; or education records containing information about more than one student, in which case the institution will permit access only to that part of the record which pertains to the inquiring student.

Students who believe that their education records contain information that is inaccurate or misleading, or is otherwise in violation of their privacy or other rights should contact the Dean of Students (or designee).

Students who believe that the adjudications of their challenges were unfair or not in keeping with the provisions of the Act may request, in writing, assistance from the President of the institution to aid them in filing complaints with The Family Educational Rights and Privacy Act Office (FERPA).

The above is a general statement concerning Student Records. The complete policy and the guidelines and procedures used to enforce the policy are located in the Student Affairs Office and may be examined upon request.

Program Changes

Program or division changes should be initiated by the student through their advisor or the Admissions Office. In some cases these changes may be initiated by the Committee on Admissions and Academic Continuation or other college personnel.

Drop/Add

In order to officially drop or add a course these steps should be followed:

- 1. Secure a Schedule Change form from the Division Secretary.
- 2. Have a Drop/Add approved by faculty advisor and instructor.
- 3. Record the Drop/Add in the computer at the division.

NOTE: Students will not be allowed to add or change sections after the deadline listed in the Academic Calendar and Quarterly Schedule book. Students may officially drop a course(s) without academic penalty and receive a grade of "W". However, this drop must be made before the drop deadline as published in the college calendar. The Vice President for Academic and Student Affairs may approve a drop after the deadline.

Withdrawal From College

All Official Withdrawals Must:

- Be made through the Division, Student Affairs or the Director of the Polk County Campus.
- 2. Be made in person if possible.
- 3. Be recorded by the Records Office to be official.
- Receive a grade of "W". Students who leave class without officially withdrawing will receive a grade of "F" on all courses. See college calendar for last day to receive a "W".

Withdrawal Date. The official withdrawal date will be the exact date of the request for withdrawal.

Tuition Refund Policy and Procedure(s)

Tuition Refunds

- (1) A refund(s) shall not be made except under the following circumstances:
- (A) A full 75 percent refund may be made upon request of the student if the student officially withdraws from the class(es) prior to or on the official 20 percent point of the class(es) or the 20 percent of the quarter if the student officially withdraws from the college. At the time the student officially withdraws under this policy, the college shall notify the student of the right to receive the refund. Requests for refunds will not be considered after the 20 percent point.
- (B) For classes beginning at times other than at the beginning of the quarter, the same provisions set forth in Part (1) (A) of this program apply. For contact hour classes, 10 calendar days from the first day of class(es) is the determination date.
- (2) To comply with applicable federal regulations regarding refunds to individuals or groups, federal regulations will supersede the state refund regulations stated in this rule. (3) Where a student, having paid the required tuition for a quarter, dies during the quarter (prior to or on the last day of examinations of the college the student was attending), all tuition and fees for that quarter may be refunded to the estate of the deceased.

Procedures For Requesting A Refund

(1) Student must officially withdraw from class(es) using drop form with proper signatures (2) Drop(s) must be recorded in the computer data system. (3) Student must request refund through the Student Affairs Office using proper request form on or before 20% point of the quarter. (4) Refund will be mailed to student by the Business Office. (Also see page 54.)

Academic Probation and Suspension

Probation. A student performing below the minimum satisfactory level as determined by the schedule below, will be placed on academic probation for the following quarter. Suspension. A student, at the end of the academic probation quarter, who's GPA falls below the minimum satisfactory level as outlined in the probation policy below will be suspended.

The Grade Point Average Schedule for the ASSOCIATE OF ARTS DE-GREE, ASSOCIATE OF SCIENCE DEGREE, and the ASSOCIATE OF AP-PLIED SCIENCE DEGREE follows:

Cumulative Qtr. Hrs.

Attempted	GPA
6-25	1.50
26-40	1.70
40-60	1.90
61-85	1.95
85-95	2.00
96-more	2.00

FOR THE DIPLOMA PROGRAMS

Cumulative Qtr. Hrs. Attempted	GPA
6-25	1.50
26-40	1.65
41-60	1.80
61-more	2.00

Length of Suspension. All academic suspensions are for a minimum of one quarter. Before re-entry, a student (one who has not enrolled for one quarter or more) must have a program of study approved by the Dean of Students or the Admissions Committee. The student may request or be asked to appear before the committee.

Appeal

A student on academic suspension may appeal to the Dean of Students who 1) may approve re-enrollment 2) refer the student to a counselor 3) or refer the student to the Committee on Admissions and Academic Continuation who will act on the appeal. A student may appeal the committee decision to the president of the college.

Academic Probation and Suspension Policy for the Practical Nurse Education Program

Probation. The Practical Nurse Education Program requires a 2.0 grade point average for all courses in the curriculum as the minimum satisfactory level. Any student receiving below a "C" in related courses, such as English or psychology resulting in less than 2.0 GPA, will be placed on academic probation for the following quarter. A 2.0 GPA must be obtained in the following quarter to remain in the program.

Suspension. A Practical Nursing student receiving a grade below a "C" in any nursing courses will be suspended from the program. Also, any student on academic probation that falls below the requirements outlined in the probation policy will be suspended.

Re-Admission. A student may be considered for re-admission or advanced placement based on availability of student space (up to 24) and their last completed quarter. Advanced placement forms obtained from student services are to be completed six weeks prior to the quarter they wish to enter. Transcripts from other colleges will be evaluated to determine course acceptance and appropriate placement. Any students failing a nursing course twice will be ineligeable for re-admission.

Appeal. A suspended student has the right to appeal his suspension through the following procedure. The suspended student must be prepared to present a compelling case by showing a justifiable reason for his poor academic standing or by demonstrating GPA computation error. The student must initiate his appeal by filling a written request for review of the suspension with a counselor or the Dean of Students. The counselor will advise the Dean of Student Affairs who will take appropriate steps to establish a hearing for the suspended student by the Admissions and Academic Continuation Committee.

The Academic Probation and Suspension Policy for the Associate Degree Nursing Program may be obtained from the Nursing Department or the Dean of Students.

Student Classifications

Freshman—Earned less than 45 credit hours Sophomore—Earned 45 credit hours or more Part-time—Enrolled for less than 12 credit hours

Academic Load Maximum Hours
College Transfer 19 credit hours
Vocational 21 credit hours
Technical 21 credit hours

Approval from the Division Dean is required to register for more than the maximum of hours at this or any other institution.

Class Attendance

Regular class attendance is a student obligation. The student is also responsible for all work, including tests and written assignments, and for all class meetings. No right or privilege exists that permits a student to be absent from any given number of class meetings.

Instructors establish their own class attendance policy. This attendance policy is explained in detail at the first class meeting and includes the relationship of absences to grades.

Students who stop going to class without officially withdrawing will receive a grade of "F" at the end of the quarter.

Examinations

Final examinations in all subject areas are held at the end of each quarter. The examination record combined with the record made in class constitutes the student's final grade.

Grading System

Isothermal Community College is on a quarter system. One hour of credit is earned for each lecture hour per week. Where laboratory is required, one credit hour is earned for at least two contact hours. Where shop/clinical/practicum is required, one credit hour is earned for three contact hours.

The grading system is as follows:

Grade	Significance		Gra	de Poir	nts
A	Excellence	4	per	quarter	hour
В	Above Average	3	"	. 11	"
C	Average	2	"	++	11
D	Below Average	1	11	++	11
F	Failed	0	11	**	**
W	Withdrawn	0	**	**	"
1	Incomplete	0	11	44	11
Y	No Credit—Audit	0	**	**	#
S	Satisfactory	0	**	**	"
U	Unsatisfactory	0	**	**	"
P	*Progress	0	**	**	"
CE	Credit By Examination	0	"	**	"
DE	Diagnostic Examination	0	**	**	"
NS	No Show	0	"	"	"
CR	Transfer Credit	0	0	O	0
R	Repeat	0	0	0	O

An asterisk beside a letter grade indicates no credit or grade points for that course.

Progress Policy

*The "P" (PROGRESS) grade allows a student in an individualized instruction course, who has attended regularly and made satisfactory progress, to continue the course in a subsequent quarter until all the course requirements are met. The student must register for the course in the subsequent quarter. The hours credit and hours attempted will not be given until the course is completed. The grade of "P" may be assigned only the first quarter the student enrolls in an individualized course. Exceptions to continue the "P" into a third quarter must have the written permission of the instructor and the Division Dean.

A grade of "P" may not be awarded to veterans nor to veterans' dependents receiving DVA educational benefits.

Grade Appeals

A student, after conferring with the instructor concerned, may present in writing to the division dean an appeal of a course grade. Appeals may not be made after the last day of classes of the next succeeding regular quarter. The division dean will refer the appeal to the Vice President for Academic and Student Affairs. A change of grade will not be made except as a result of the Vice President's decision, which is final.

Incomplete Policy

A grade of "I" is assigned where the course work is incomplete. This grade must be removed by completing the course before the end of the following quarter or the grade automatically becomes an "F" on the permanent record. Instructors may extend the time for removing the incomplete by written notification to the Registrar.

Repeating Courses

Courses with earned grades of "D" or "F" may be repeated. Courses with earned grade of "C" or better may be repeated only by special permission from theVice President for Academic and Student Affairs. When a course has been repeated the higher grade will be counted. Physical education credit classes may not be taken for a grade of "audit." Credit students may not receive more than five physical education credits. Exceptions for physical education majors may be granted by the Vice President for Academic and Student Affairs. Non-credit recreation classes offered through the Division of Continuing Education may be repeated at will. Courses taken as audit may be repeated for credit only. No course may be audited more than once.

AWARDING OF CREDIT

Transfer of Credit From Other Institutions

Educational work taken at a regionally accredited institution will be accepted. Credit will normally be allowed for applicable courses in which a grade of "C" or higher has been earned. Grades of "D" may be considered for transfer in sequence courses or special cases. In all cases the cumulative grade point average on all courses accepted must be at least 2.0 ("C" equivalent). Grades of previous enrollments will not be used in the grade point calculation of Isothermal Community College. Course work over fifteen (15) years old will be evaluated on an individual basis. Previous course work must be submitted on an official transcript sent directly to the Admissions Office from the transferring institution.

Transfer students must earn 50% of the credits required for graduation in their particular program at Isothermal Community College (see Graduation Requirements).

Course work taken at non-accredited institutions may be considered for credit on a course by course basis.

All transfer students will enter the college with good academic standing. Once enrolled academic standing will be determined by grades on course work done solely at Isothermal,

Transfer of Credit Within the Institution

Vocational curriculum courses are not transferable to the Technical or College Transfer curriculums. Transferable technical curriculum courses are accepted into the College Transfer curriculum and Technical courses are accepted into the Vocational curriculum. College Transfer curriculum courses are transferable into the Technical and Vocational curriculums. Cumulative grade point averages are normally continued when changing programs within a curriculum but not when changing from program to program. (Example: College Transfer to Technical or to Vocational)

Other Credit

Credit may also be given in the occupational areas for noncollegiate and military educational experiences. These experiences will be evaluated on the basis of the current editions of <u>College Credit Recommendations and The Guide To Evaluation of Educational Experiences in The Armed Services</u>. A maximum of 24 quarter hours may be awarded for these experiences. (Also see requirements for the Associate Degree for Vocational Instructor Program.)

100

CREDIT BY EXAMINATION

Any student at Isothermal Community College can receive course credit by examination through one of the following three methods: 1) Challenge Exam, 2) CLEP Exam, or 3) Advanced Placement Exams.

Challenge Exam:

Any student may petition through the Division Dean for permission to challenge a course through a comprehensive exam for credit. Only those courses for which tests have been developed and have been filed in the Division Dean's office may be challenged. The procedures for challenging is as follows:

- The student must be registered for the course, have paid proper tuition, and have approval of the instructor.
- 2. If the exam is failed, the student must continue the course.
- A course may be challenged only once and must be done during the first week of class.
- If the exam is passed, the student's grade must be submitted to the Registrar's Office during the first two weeks of the quarter. This grade will be recorded as a "CE".

CLEP Exam:

A student can also receive course credit through the College Level Examination Program. These exams were designed for persons who have gained knowledge through experimental learning or personal study and



have not yet received college credit for their learning. The student must make arrangements to take the exam and have the score sent to the Registrar (contact the Career Center in Student Affairs for Test applications and information on Testing Centers). Credits will be given only for subject examinations, not for the general examinations, and then only according to the following chart showing the minimum score and credit hours received or given examination.

	CLEP CHART Minimum Score for awarding	The state of the s	uarter Hours
Exam	Credit	Comparable	Credit
Accounting Introduction	47	BUS 21, 211, 212	12
Afro-American History	49	HIS 170	3
American Government	47	POL 260	3 9 3
American History	46	HIS 260, 261, 262	9
American Literature	46	ENG 253	3
Biology, General	46	BIO 151, 152, 153	12
Calculus, with Elementary Functions	47	MAT 161, 162, 163	1.5
Chemistry, General	47	CHM 101, 102, 103	12
College Algebra	45	MAT 151	
Trigonometry	50	MAT 152	5
College Algebra & Trigonometry	45	MAT 151, 152 or 153	10
College Composition	47	ENG 151, 152, 153	9
College French Level I	41	FRE 160, 161, 162	. 9
*Level II	53	FRE 260, 261, 262	9
College German Level I	40	GER 160, 161, 162	9
*Level II	48	GER 260, 261, 262	9 9 9 9 3 6
College Spanish level I	41	SPA 160, 161, 162	9
*Level II	50	SPA 260, 261, 262	9
Computer & Data Processing	47	CSC 151, or CAS 101	3
English Literature	46	ENG 251,252	- 6
Freshman English	47	ENG 151, 152, 153	9
Marketing	47	MKT 120	4
Macroeconomics, Intro	48	ECO 201, 202, 203	9
Microeconomics, Intro	47		
Psychology, General	47	PSY 260	3 5
Sociology, Intro	47	SOC 160	3
Statistics	49	MAT 170	
Western Civilization	50	HIS 151, 152, 153	9

^{*}If Level II of a Foreigh Language is taken without Level I then credit for both levels, (i.e., 24 quarter hours) will be awarded if the necessary minimum score is attained.

Advanced Placement (AP) Examination

If a student has taken Advanced Placement courses in high school and the respective exam, with a grade of (3) or higher on the exam, then he can receive college credit for that score. (Example: A score of at least 3 on the biology AP exam would entitle a student to receive 12 quarter hours credit for BIO 151, 152, 153.)

Dean's List with Highest Honors

The Dean's List is designed to recognize all students whose academic performance is outstanding. In order to qualify for the Dean's List with Highest Honors, a student must carry at least twelve (12) quarter hours of credit during the quarter and maintain a 4.0 grade point average for the quarter.

Dean's List

In order to qualify for the Dean's List, a student must carry at least twelve (12) quarter hours of credit during the quarter and maintain a 3.25 grade point average for the quarter.

GRADUATION

Requirements

Requirements for the degree or diploma will vary according to the curriculum. Students should refer to the required courses in the catalog which apply to their programs so that they can ascertain the course requirements for graduation.

In the case of students transferring into Isothermal Community College, at least half of the credits required for graduation and at least two of the last three quarters of course work must be earned at Isothermal Community College.

Course Substitutions

Course substitutions may be approved to fulfill graduation requirements provide the substitution is appropriate to the student's program and a comparable course(s) if offered. In all cases course substitutions must be consistent with the program requirements as outlined in the Curriculum Standards published by The Department of Community Colleges. Each student is limited to twelve (12) credit hours of substitutions; however, cases where courses have been discontinued additional substitutions may be approved. All course substitutions must be approved by the Division Dean and the Vice President for Academic and Student Affairs and recorded in the Records Office.

Graduation Procedures

Students are expected to file graduation applications with the Records Office at least one quarter preceding the completion of degree requirements. Commencement exercises to award degrees, diplomas, and certificates to students in respective divisions are at the conclusion of the Spring quarter. A diploma fee is charged to each graduating student. The specific date of the commencement exercise is listed in the College Calendar in front of this catalog. All students who have completed degree

requirements since the previous commencement are expected to participate in the exercises. Diplomas must be ordered through the bookstore.

Graduation With Honors

Students who complete a degree or diplomas program with a grade point average of 4.0 will be graduated with High Honors. The student who earns a grade point average of 3.50 to 3.99 will be graduated with Honors.

Class Rings

All orders for class rings, caps and gowns, and graduation invitations will be handled through the bookstore. Notices will be posted relevant to dates for measurements. Student who are graduating should see that their orders are placed on the date specified in the bulletin.

Transcript of Record

The transcript is a statement of official academic record of the student while attending the College. The College will not release an official transcript unless all tuition, fees, and other obligations due the College have been cleared.

Transcript(s) will not be released without the written consent of the student. (See section entitled Student Records)

HONORS

Awards Day

Awards Day is an annual assembly held to recognize students whose scholarship, leadership, citizenship and service have been meritorious and noteworthy. Each division as well as departments of Isothermal Community College is entitled to give recognition to those students whose achievements have evinced the highest level. Appropriate certificates, trophies, or plaques and letters of citation are presented to the winners.

Who's Who Among Students in American Junior Colleges

Annually, a directory recognizing outstanding campus leaders from over 500 junior colleges in the 50 states and the District of Columbia is published in Tuscaloosa, Alabama. Only second-year college students are eligible for nomination. Nominees are selected each year by a faculty committee, composed of representatives from each department of the College. The number of nominees is determined by the national office and is based on current enrollment. The selection committee is instructed to consider students whose academic standing, service to the community, leadership in extracurricular activities and future potential are decidedly above average. The winners submit biographical information which is included in the Directory. They receive certificates suitable for framing and become eligible for placement service when they seek employment.

STUDENT AFFAIRS

Mission

The Student Affairs Division plays an important role in implementing the mission of Isothermal Community College. A professional staff, varied programs and services are provided by the division to assist students in achieving their goals. The mission of Student Affairs is to maximize student success by providing the leadership, coordination and management necessary to ensure that the Student Affairs functions are used as effectively as possible to help students identify, pursue, and achieve their individual goals. All programs and services are open to those who can benefit regardless of age, sex, socio-economic status, ethnic origin, race, religion, disability or handicap.

Goals

- To provide a comprehensive organizational setting from which to administer all of the functions of the Student Affairs Division.
- To provide adequate human, physical, and financial resources needed to meet the goals of the division and the institution.
- To provide programs and services which enhance the quality of student life and contribute to the attainment of students' educational goals.
- To develop a planning process that includes a periodic review of the mission, goals, programs, and services.

The Student Center

The hub of student interest and activity is the Student Center which is designed to stimulate social interaction as well as relaxation. Located in the Student Affairs Building, the attractive Center embodies a lounge, game room, television area, and dining area where food service is available. Offices for the Student Government Association and Yearbook are also located in this area.

Orientation

Orientation of all new students is a major goal of the Student affairs division, the Orientation Program is composed of a series of activities involving administration, faculty, staff, and students. These activities introduce students to the services and resources available at the college, provide information, answer questions and, in general, help solve problems normally faced by students.

Orientation activities include Pre-Enrollment Programs (PEP Groups) led by the Director of Counseling after ASSET testing on campus and in area high schools. In addition, all new students are required to participate in an Orientation Program which is scheduled twice each Registration Day and once during the summer. The Orientation process is further extended for all full-time technical and college transfer students who are required to take ORI 100: Student Orientation Seminar.

Counseling, Career Development and Testing Center (CCDT)

Counseling

Counseling services at Isothermal Community College are provided by the Student Affairs Division and are available to the total institution and its communities in its Counseling Center. Viewed as an educational and supportive service, counseling takes place on an individual basis or, when appropriate, in groups.

Counselors offer assistance with the development of self-management skills, self-concept building, educational planning, and improvement of interpersonal relationships.

A counselor is available in the Student Services Building from 8 AM to 9 PM Monday and 8 AM to 4:30 PM Tuesday through Friday. Students may call 286-3636, ext. 244 for an appointment, or they may drop in to talk with a counselor.

Career Development

Isothermal Community College has a well-established program of career development services that assist students in choosing and moving toward a career that is right for them. These services include:

- A Career Resource Area staffed by a Counselor Associate and secretary.
- A Career Development Counselor qualified to help individuals assess and understand their abilities, aptitudes, and interests in the process of career decision-making.
- Interest testing:

Strong Interest Inventory: Cost \$5.00. Uses 325 items to measure person's interest in a wide range of occupations, leisure activities, hobbies, school subjects, and types of people.

Self-Directed Search: Provides an extensive personalized report that includes a comprehensive list of careers.

- TIPS: A computerized instructional system for teaching job search, employability, and life skills.
- "Please Understand Me": A computerized program that provides insight into temperament with a printout report.
- Career information: Books, film strips, videos, and cassettes related to job search preparation, interviewing, negotiating job offers, and self-help.
- Undergraduate and graduate information: catalogs and applications.

- Transfer Information: Course equivalencies, transfer agreements, NC Transfer Counselors' Network.
- · Mini-workshops

Interest inventory assessment

Brain dominance theory

Study skills

Resume writing and interviewing skills

Communication skills

For more information students may call ext. 266 or visit the CCDT Center which is located off the lounge of the Student Services Building, Room 18.

Testing Services

Placement Testing:

ASSET is a testing/advising program designed to gather information about a student's skills, needs, and plans as an important step in developing and implementing a sound program of study. ASSET identifies basic skill levels of students in reading, English, and mathematics.

The following are required to take ASSET:

- College Transfer, Technical and Vocational Program applicants.
- Basic Law Enforcement Training (BLET) applicants either prior to enrollment or during their first quarter of enrollment.
- Dual enrollment students from area high schools registering for English and/or math classes.
- Area high school students enrolled in calculus under the Huskins Bill Cooperative Agreement.
- Students without a high school diploma who have to prove "ability to benefit."

A student transferring from another institution who has successfully completed a freshman English, reading, basic math or algebra course is exempt from placement testing in those areas. If applicants tested prior to the adoption of ASSET in September 1990 have not enrolled in and successfully completed English and/or math classes, their test scores are invalid. ASSET test scores are valid for five years.

Counselors, faculty, or staff discuss test results, course placement, and college resources immediately following testing or during Pre-Enrollment Programs on Orientation/Registration Day.

Prior to each quarter, a schedule of test dates is available, and prospective students may call extensions 244 or 266 for further information. No fee is charged for ASSET testing.

GED Testing:

The General Educational Development Program (GED) test is available to persons who have not completed their high school education. A North Carolina High School Equivalency Diploma is awarded upon satisfactory completion of a series of tests in Writing Skills, Social Studies, Science, Literature, and Math. Testing schedules are available in the Learning Place and Career Center. Appointments must be made in advance (286-3636 ext. 244).



Job Placement

The Employment Security Commission representative, located in the Career Center, provides job referral services to Isothermal students and graduates on Tuesdays and Thursdays from 8AM to 12 Noon.

In addition, the Career Center and instructional staff in each division, in conjunction with the Employment Security Commission representative, assist students as requested.

Health Services

The College has no facilities for medical treatment other than for minor first aid and assumes no responsibility for injuries or sickness of students.

First aid supplies are located at secretaries' desks in each building and in the shop areas.

Students suffering from acute illness or injury requiring more than minor first aid treatment are taken to the emergency room of the Rutherford Hospital, Inc. The student is responsible for all costs incurred in such treatment.

Students are encouraged to provide themselves with medical insurance to cover illness/injury. Insurance covering accidents at the College or enroute to or from the College is available.

Building construction on campus permits the use of a wheelchair in each building. Inter-building movement by wheelchair is possible, but slightly more difficult.

Housing

The College does not provide living accommodations for students. The student is responsible for making his/her own housing arrangements. The College assumes no responsibility for rental negotiations between student and homeowner.

Student Activities

The College encourages student participation in student organizations and activities. A member of the Student Affairs staff is assigned the responsibility of coordinating all student activities and serves as the SGA advisor.

The following are available on campus:

Student Government Association. (S.G.A.) All students of the College who pay a student activity fee are members of the Student Government Association and are entitled to all membership privileges of the organization. The Student Government Association Officers are active in promoting the interests of the students, improving facilities, planning social functions, and assisting student organizations.

The S.G.A. President is the chief executive of the Student Government Association which includes divisional representatives and members at large. Student interest and assistance are welcomed. The S.G.A. President is an ex officio member of the Board of Trustees.

The following clubs and activities are chartered on the campus:

Afro-American Club Baptist Student Union CARDS Child Care Club College Singers Collegiate Secretaries International Cosmetology - Day Cosmetology - Evening Electronics Engineering Club Intramurals Isotones Karate Club Nursing Club Phi Beta Lambda Phi Theta Kappa Publications — Ripples (Yearbook) Patriot (Newspaper) Anuran (Poetry Magazine)

Student Practical Nurses' Club Students of Free Enterprise Video Ventures Club SCHOOL COLORS; Blue and White SCHOOL MASCOT: Patriot

Student Publications—Purposes and Responsibilities

The purpose of the Patriot, the Isothermal student newspaper, is to communicate and integrate new ideas within the college community; increase awareness of current issues facing the campus; create a published forum which encourages input from students and staff; and provide an opportunity for those students enrolled in the course to learn and practice high levels of reporting, writing, photojournalism, and lay-out design.

The purpose of Ripples, the Isothermal student magazine, is to record photographically the developments of each school year and to profile selected programs and campus personalities. It also serves as a fine teaching tool for students interested in pursuing a career in journalism or publishing.

The puspose of the Anuran, is to fulfill the expectations of a exceptional, annual literary journal. It is designed as a published collection of poems and essays, the culmination of a yearly poetry and essay contest drawing on the talents of Isothermal and the communities which it serves.

All these publications of Isothermal Community College must abide by state and federal laws governing proper journalistic behavior as well as local college regulations.

The college's responsibilities to student publications include the following:

- To provide fiscal support necessary for materials, supplies, equipment, and printing.
- 2. To provide an appropriate work space.
- To make arrangements for responsible, qualified faculty/professional sponsors to oversee student work.

Veterans Affairs

Isothermal Community College is approved by the North Carolina State Approving Agency for the enrollment of persons eligible for educational assistance benefits from the U.S. Department of Veterans Affairs (VA). Persons eligible and entitled may enroll in programs approved by the N.C. State Approving Agency. Application for DVA educational benefits may be made in the Veterans Affairs office on campus. A certified copy of Form DD 214 is required. All students receiving educational benefits must have an official high school transcript and official transcripts from previous colleges sent to the Admissions Office. These transcripts must be on file and evaluated before the student can be certified for benefits.

When a student enrolls in an approved program of study, he or she must pursue the exact curriculum in the school catalog. Individualized studies classes are not approved by the State Approving Agency for educational benefits.

Payments for educational benefits are based on a student's classification according to his/her CREDIT HOURS per quarter as follows:

Full time	12 or more quarter hours of credit
2/3 time	9-11 quarter hours of credit
1/2 time	6-8 quarter hours of credit

Veterans and other eligible persons certified for Veterans Affairs Educational Benefits who fail to maintain satisfactory progress as defined in the Academic Probation and Suspension Section of this catalog, will have their DVA educational assistance benefits terminated.

The veterans' coordinator and/or faculty advisor will assist students with academic matters that affect DVA Educational Benefits; however, the final responsibility for compliance with DVA educational directives remains with the student.

Veterans and other eligible individuals should visit the Student Affairs Office as early as possible for the purpose of making application. The Veterans Affairs Coordinator will review the application and submit the required Certificate of Enrollment.

STUDENT FINANCIAL AID

Isothermal Community College offers a comprehensive program of financial aid for students who, without such aid, would be unable to continue their education. Assistance is provided in the form of grants, parttime employment, loans and scholarships. Financial aid awards may include one or more of these. Most financial assistance is awarded on the basis of need. In determining the student's need, it is assumed that the student and/or the student's family will provide assistance in an amount proportionate to their income and assets. Financial assistance from the institution is intended to be supplementary to the efforts of the family.

How to Apply for Financial Aid

Submit a completed application for admission to the college. Submit
official transcripts of credit from all secondary and postsecondary
schools attended. Take the placement tests administered by the college.

Complete and mail the Free Application for Federal Student Aid which is circulated by the U. S. Department of Education. It will take the federal processor approximately four - six weeks to generate and

mail a Student Aid Report.

 Submit all three copies of the Student Aid Report (SAR) to the Financial Aid Office. The report, which is developed from information entered on the Free Application for Federal Student Aid, is mailed to the student's address. It is the student's responsibility to bring the SAR to the Financial Aid Office.

4. Submit a completed Isothermal Community College Application for

Financial Aid.

Provide signed copies of student/parent federal tax returns, along with all applicable W-2 forms. Additional supporting information may be requested.

6. Submit a Financial Ald Transcript from each postsecondary school

that you have attended previously.

Request and submit applications for other aid programs in which you feel you can establish eligibility. A number of financial aid programs require separate applications. Please note these under the "Types of Aid Available" section.

Further information regarding application procedures, as well as applications, may be obtained from the Isothermal Community College Financial Aid Office. The Free Application for Federal Student Aid forms are also made available through high school guidance offices. All students enrolled or accepted for enrollment may apply for aid. Applications must be filed annually for an academic year (September thru August). It is recommended that the Student Aid Report be submitted by June 1 preceding fall enrollment at the college. For winter, spring, or summer term enrollment, Student Aid Reports should be submitted twenty-eight calendar days prior to the beginning of the term. In order to be considered for the North Carolina Student Incentive Grant, the application must be submitted by March 15 preceding fall enrollment. Funding for many programs is limited. Late applicants may find that many funds are obligated. An enrolled student must reapply in order to receive aid during the second year of attendance.

Eligibility for Aid

The basic eligibility requirements for federal student financial aid require that the applicant:(1) be a U. S. citizen or eligible noncitizen, (2) have a high school diploma, GED, or demonstrate ability to benefit,(3) be registered with Selective Service (if required), (4) be enrolled as a regular student in an eligible program, (5) be making satisfactory academic progress, (6) not be in default or owe a refund on a Federal grant or Federal education loan, and (7) have financial need.

Financial need, defined as the difference between a family's resources and the total expense of attending the college, is calculated by a national processing center. In determining the student's need, the federal government assumes that the student and/or the family of the student has the primary responsibility for paying postsecondary educational costs. To establish initial eligibility, a student will be required to verify or document taxable income, federal income taxes paid, untaxed income, number in the household, number attending postsecondary institutions, and independent student status.

Types of Aid Available

Federal Pell Grant

The Pell Grant is a federally sponsored aid program for low-income families. It is intended to be the first and basic component of a financial aid package. The grant, which does not have to be repaid, is based on schedules and formulas approved annually by Congress.

Undergraduate students who have a Bachelor's degree are not eligible for Federal Pell Grants.

Federal Supplemental Educational Opportunity Grant (FSEOG)

The FSEOG program provides aid to the needlest students with demonstrated financial need, with priority awarded to Federal Pell eligible recipients. Any student who completes the Free Application for Federal Student Aid applies for this grant. The number of grant awards is based on the availability of funds at the College, Repayment is not required. Undergraduate students who have a Bachelor's degree are not eligible for Federal SEOG's.

North Carolina Student Incentive Grant (NCSIG)

Full-time students who are legal residents of North Carolina may apply for the NCSIG. These grants are awarded by College Foundation, Inc., Raleigh, NC. Students must demonstrate substantial financial need. Application is made on the Free Application for Federal Student Aid by giving the U.S. Department of Education permission to send financial information to the financial aid agencies in N.C. The deadline for the NCSIG is March 15 preceding the academic year. Repayment is not required.

Federal Work Study (FWS)

The Federal Work-Study program is a federal program which provides part-time jobs on campus for needy students. Students are employed for up to 15 hours per week and receive a monthly paycheck. Applicants for work-study must first apply for the Pell Grant, as well as apply for work-study on the institutional financial aid application. A limited number of jobs are available in the program. Some of the jobs give students the opportunity to perform community services. Community services are designed to improve the quality of life for community residents, particularly low-income individuals, or to solve problems related to their needs.

Federal Family Education Loan Program (FFELP)

The FFELP is a program that provides a means for eligible students to borrow funds. To be considered for the loan, students must first apply for and receive a determination of eligibility or ineligibility for a Pell Grant. Second, they must complete a loan application. Applications are available in the Financial Aid Office. Maximum yearly loan limits are established by the federal government. Repayment is required to begin no later than six months following graduation, withdrawal from college, or termination of at least half-time study. The amount borrowed, plus interest, must be repaid.

North Carolina Prospective Teachers Scholarship Loan (NCPTSL)

North Carolina residents preparing to teach in public schools within the state are eligible to apply. For each full school year a recipient teaches in North Carolina public schools, one year of the loan amount and the accrued interest is forgiven. Applications may be obtained from the Financial Aid Office or from NCPTSL, N.C. Dept. of Public Instruction, 116 W. Edenton St., Raleigh, NC 27603-1712.

Nurse Education Scholarship Loan Program (NESLP)

North Carolina residents enrolled in a nurse education program who plan to obtain full-time employment as a nurse in North Carolina are eligible to apply. For each six months of employment as a nurse, a portion of the recipient's obligation will be cancelled. All PNE and ADN applicants who are accepted in the nursing program and who apply for federal student aid are considered.

J. D. Cooley Technical Education Loan Fund

Students enrolled in an approved technical program may apply for this loan. A first-year student must have a 2.0 average or better in their high school studies. A second-year student must have maintained a 2.7 GPA in their studies at ICC. Applicants are required to complete a loan application. Repayment is required.

Student Emergency Loan Fund

The Student Government Association has established a loan fund to assist students having a minor financial crisis by providing monies that will enable students to continue their education. A minor financial crisis generally is defined as needing money for books, an unpaid medical bill, or a car repair. The maximum loan amount is \$100.00. Applications may be obtained from the Student Affairs Office. Documentation is required. Emergency loans must be repaid.

Scholarships

A number of scholarships are available to Isothermal Community College students. Criteria for selection most often include academic promise/ standing and financial need. Other special requirements may be set by the donor. For on campus scholarships, college personnel participate in the selection of recipients. Students do not usually apply for specific on-campus scholarships'; instead, application is made by completing the FAFSA as discussed in "How to Apply for Financial Aid". Scholarships do not have to be repaid.

Off campus scholarships, defined as scholarships in which college personnel do not participate in the selection of recipients, are awarded to Isothermal Community College students each year. Students interested in applying for these scholarships must contact the grantor. The Financial Aid Office has information about many off campus scholarships.

Listed below are on campus scholarships which are usually available:

Jack E. Buchanan Scholarship*
T. D. Carson Scholarship
Robert W. Conley III Memorial Scholarship

Dr. W.M. Elliott Scholarship First Union/Jack Buchanan Scholarship* A.J. Fletcher Music Scholarship Charles A. Holcombe Scholarship Isothermal Community College Alumni Scholarship William V. Lee Memorial Scholarship* Lovelace Nursing Scholarship G. K. McClure Educational Fund* James Monroe McDonald Memorial Scholarship W. H. "Shorty" McDonald Scholarship Dillard L. Morrow Sentinel Scholarship N.C. Department of Community Colleges Scholarship Lee L. Powers Scholarship Putnam Scholarship Ruppe Bible Class-Forest City First Baptist Church Southern Bell Telephone and Telegraph Scholarship Robert R. Spratt Memorial Scholarship Wachovia Technical Scholarship Frank and Mabel West Scholarship* Dr. J. F., Sr. and Ola H. Whisnant Scholarship

*An institutional scholarship application is required for these scholarships. Contact the Financial Aid Office for applications, as well as information regarding eligibility requirements and application deadlines.

Job Training Partnership Act

The Job Training Partnership Act provides funds to students who are enrolled in a Technical or Vocational Program. Eligibility is determined by JTPA income guidelines and other criteria. Funds may be provided for one or more of the following: books, travel, needs-based allowance, tuition, and fees. A limited number of openings are available. Required applications may be obtained in the HRD Office and at the Polk County campus.

Vocational Rehabilitation

The N.C. Division of Vocational Rehabilitation also offers financial assistance to eligible students. In order to qualify, a student must have a mental or physical disability which is a handicap to employment. There also must be reasonable expectation that as a result of vocational rehabilitation services, the person becomes gainfully employed. Each rehabilitation program is designed individually with the student. The amount of the award is based on need and the type of program in which the student is enrolled. It generally pays for tuition and fees and for some books and supplies. In some cases, supportive services such as interpreter services, attendant services, and transportation may be provided. To apply, the student should contact the Vocational Rehabilitation office nearest his home.

Satisfactory Academic Progress Standards for Financial Aid Recipients

Federal law requires students receiving federal student aid to maintain satisfactory academic progress as defined by the institution. Federal student aid includes the Federal Pell Grant, Federal Supplemental Educational Opportunity Grant, Federal Work Study, Federal Stafford Loan, and North Carolina Student Incentive Grant.

Satisfactory progress is defined as meeting two requirements: (1) The student must maintain a cumulative grade point average at or above the minimum in chart A below. GPA requirements must be met quarterly. (2) The student must successfully earn the minimum number of hours shown in chart B-1, B-2, or B-3 below. This requirement will be monitored at the end of each spring quarter.

Chart A - GPA Re	quirements
Credit Hours Attempted	Minimum GPA
6 - 25	1.50
26 = 40	1.70
41 - 60	1.90
61 - over	2.00

Chart B-1: Minime	um Credit Hours Required	 College Transfer
Enrollment Status	Earned Hours Required Each Academic Year	
Full - time (12 hrs. +)	24	8
3/4 - time (9 - 11 hrs.)	18	6
1/2 - time (6 - 8 hrs.)	12	4
Less than 1/2 (1-5 hrs.)	50% att hrs	50% att hrs

Chart B-2: Minimum Credit Hours Required - Technical				
Enrollment Status	Earned Hours Required Each Academic Year	Average Earned Hours Per Quarter		
Full - time (12 hrs. +)	27	9		
3/4 - time (9 - 11 hrs.)	21	7		
1/2 - time (6 - 8 hrs.)	15	5		
Less than 1/2 (1-5 hrs.)	50% att hrs	50% att hrs		

Chart B-3: Minimum Clock Hour Required - Vocational					
	Earned Hours Required	Average Earned			
Enrollment Status	Each Academic Year	Hours Per Quarter			
Full - time (12 hrs. +)	24	8			
3/4 - time (9 - 11 hrs.)	18	6			
1/2 - time (6 - 8 hrs.)	12	4			
Less than 1/2 (1-5 hrs.)	50% att hrs	50% att hrs			

NOTE: Enrollment status will be determined by the number of hours in the student's program of study for which he/she is enrolled at the end of the schedule adjustment period each quarter. Hours will not be counted for enrollment if the student is a "no show" in the class or audits the class.

Grades of A, B, C, or D will be counted as earned hours. Grades such as F, I, W, P, Y, and NS will not be counted as earned hours.

Exception: A grade of P in ENG 090, MAT 090, MAT 095, RED 085, and RED 090 will qualify as hours earned provided that: (1) the remedial coursework is recommended by placement testing; and (2) the student is taking the remedial course for the first or second time.

Financial Aid Probation

Any student who fails to meet the requirements (in chart A) will be placed on Financial Aid Probation. He/She can receive financial aid for one more quarter of enrollment, consecutive or otherwise. If the student fails to meet the minimum GPA requirement at the end of the probationary quarter, he/she will be placed in Unsatisfactory Progress Status, and all aid will be cancelled.

Failure to meet the minimum credit or clock hour requirement (in chart B-1, chart B-2, or chart B-3) places the student directly into Unsatisfactory Progress Status. She/he may attend summer school, at her/his own expense, to earn the necessary number of hours to be considered for financial aid.

Exception: A student who has attended only one quarter during the academic year will not be placed directly into Unsatisfactory Progress Status. He/she will have one more quarter, consecutive or otherwise, to receive financial aid and earn the required number of hours.

Unsatisfactory Progress Status

Unsatisfactory progress occurs when financial aid recipients fail to meet the Standards of Satisfactory Academic Progress as defined. While in unsatisfactory progress status, a student will have his/her financial aid terminated.

Procedure for Reinstatement

Students who have had their aid terminated for unsatisfactory progress may reestablish eligibility for financial aid in one of two ways: (1) By the appeals process, if approved by the committee. (2) By enrolling at the institution at his/her own expense and reestablishing satisfactory progress. Retroactive payments of financial aid for periods a student is in unsatisfactory progress status are prohibited.

Financial Aid Appeals Process

Students may appeal a decision to terminate financial assistance. The appeal must be made in writing to the Financial Aid Coordinator within

two weeks after notification letters of unsatisfactory progress status are mailed. The appeal must be accompanied by appropriate documentation. It will be reviewed by the Financial Aid Committee and the student will be notified of the results.

Maximum Program Time Frames

All students receiving financial aid will be expected to complete their academic programs within the following number of quarters:

Enrollment Status	College Transfer	Technical	Vocational
Full - Time (12 hrs. +)	12	14	10
3/4 - Time (9 - 11 hrs.)	16	18	13
1/2 - Time (6 - 8 hrs.)	24	25	20
Less than 1/2 Time (1-5 hr	s.) 48	56	40

Students who change divisions will assume the time limit for the new division minus the number of quarters already attended. Financial aid will be terminated following completion of the maximum time limit. All quarters in which the student attended, not just those in which aid was received, will count in the maximum time frame.

Exception: Time limits may be extended from 1 - 3 quarters for students required to take remedial coursework.

Effects of Previous Credits

Transfer Students - Incoming transfer students will be considered to be making satisfactory progress at the time of their enrollment. Their maximum time frames will depend on the equivalent quarters of credit accepted for credit toward their degree.

Returning Students - Returning students will have their cumulative GPA and completed portion of maximum time frame carried forward.

Other Information

Financial aid may not be used to pay for a remedial course which is not recommended through placement testing. Aid may be used to pay for each recommended remedial course only three times.

THIS POLICY IS SUBJECT TO CHANGE BASED ON INSTITUTIONAL AND FEDERAL GUIDELINES. IF ADDITIONAL INFORMATION REGARDING THIS POLICY IS NEEDED, PLEASE CONTACT THE FINANCIAL AID OFFICE.

GENERAL COLLEGE REGULATIONS & POLICIES

Conduct

The personal conduct of the college student is subject to the moral and legal restraints found in any law-abiding community. The conduct of a student, both in and out of school, will be measured on an adult standard. The student assumes full responsibility for the consequences of his/her actions and behavior. It is the personal responsibility of each student to uphold the rules and regulations of Isothermal Community College. The College reserves the right to dismiss any student who, in its judgment, conducts him or herself in a manner that is not in compliance with the purposes of this institution. The complete policy for <u>Students' Rights</u>, <u>Responsibilities</u>, and <u>Judicial Procedures</u> is available in the Student Affairs Office.

Drug and Alcohol Policy

It is the policy of this college that the unlawful manufacture, distribution, dispensation, possession, or use of a controlled substance or alcohol, is prohibited while in the workplace, on college premises, or as part of any activity initiated by the college. Any employee or student violating this policy will be subject to disciplinary action up to and including termination or expulsion and referral for prosecution. Copies of the complete policy are available in the Office of Student Affairs.

Communicable Disease Policy

Isothermal Community College shall not exclude individuals with communicable diseases unless a determination is made that the individual presents a health risk to himself or others. It is the policy of Isothermal Community College to consider the educational or employment status of those with a communicable disease on an individual basis.

Communicable diseases as defined in this policy include but are not limited to acquired immunodeficiency syndrome (AIDS), chicken pox, hepatitis, measles, tuberculosis, meningitis, mononucleosis and whooping cough.

Communicable Diseases: Administrative Procedures

- All information and records that identify a person as having a communicable disease shall be strictly confidential.
- Disclosure of medical information shall be by the President only to those on a need-to-know basis to protect the welfare of persons infected with a communicable disease or the welfare of other members of the college community.
- Unauthorized disclosure of medical information by an employee of the college is prohibited. Violation of this prohibition may result in

the suspension from or termination of employment at Isothermal Com-

munity College.

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

5. Faculty and staff of Isothermal Community College and employees of contractors or contracted services who are infected with a communicable disease are urged to notify the appropriateVice President so that the college can respond appropriately to their health needs. Students are urged to share information with the Dean of Student

Services for the same reason.

6. Persons infected with a communicable disease (including the AIDS virus whether active AIDS, AIDS-Related Complex, or zero positive to virus) will not be excluded from enrollment or employment or restricted in their access to the college's services or facilities unless medically-based judgements in individual cases establish that exclusion or restriction is necessary. Included in making decisions in individual cases which restrict access to enrollment or employment shall be the college President, the college attorney, the department head, the individual's personal physician, the local health director (or designee), and if necessary, another physician with expertise in managing communicable disease cases.

The college shall communicate the most current information regard-

ing communicable diseases, especially AIDS.

Students' Rights

It is the duty of the President to exercise full authority in the regulation of student affairs and discipline in the institution. Delegation of this authority is normally made to the Dean of Student Affairs. Nevertheless, it is the duty of the President to insure to every student the right of due process and fair hearing, the presumption of innocence until found guilty, the right to know the evidence and to face witnesses testifying against him and the right to such advice and assistance in his own defense as may be allowable under the regulations of the college. In those instances where denial of any of these rights is alleged, it shall be the duty of the President to review the procedures of the disciplinary hearing. A complete policy of Students' Rights, Responsibilities and Judicial Procedures is available for review in the Student Affairs Office.

Dress

One of the purposes of college experience is to afford a student the opportunity to practice effective personal grooming. Appropriate dress is encouraged and required. While the College aims to honor the individuality of each student, it reserves the prerogative to announce and implement regulations concerning dress.

ADDITIONAL INFORMATION ON RULES AND REGULATIONS IS CONTAINED IN THE STUDENT HANDBOOK, IT IS THE INDIVIDUAL RESPONSIBILITY OF EACH STUDENT TO READ AND UNDERSTAND THIS HANDBOOK, A MANUAL OF STUDENT RIGHTS, RESPONSIBILITIES AND JUDICIAL PROCEDURES IS AVAILABLE UPON REQUEST IN THE STUDENT AFFAIRS OFFICE.

Traffic Regulations

Faculty, staff and visitor parking areas are shown on the Campus Map as Staff Parking. These areas, and a small portion in front of Building;#6(Student Parking 2), have yellow parking lines with reserved numbers. Students are asked not to park in these reserved spaces.

Student parking areas 1, 2, 3, 4, and 5 have sufficient parking to accommodate all vehicles driven by students. At times, the student may not be able to use the parking area most convenient and will have to park in a student area more removed from his destination. Students are required to park in the assigned parking areas. Parking along the roadways and in the staff and faculty parking spaces is prohibited.

Bookstore

The College operates a bookstore where the student may purchase needed books and supplies with profits being used for college projects and services. The hours are 9:00 a.m. to 3:30 p.m. Monday through Friday at all times except the first two weeks of each quarter as follows:

DAY

First week 8:30 a.m. to 3 p.m. Monday through Friday Second week 8:30 a.m. to 3 p.m. Monday through Friday

NIGHT

6 p.m. to 8:30 p.m. Monday through Thursday 6 p.m. to 7:30 p.m. Monday through Thursday

All students should attend class before buying books. A student who does not attend class before buying books for a course could easily buy the wrong book.

THE BOOKSTORE POLICY IS: BOOKS SOLD CANNOT BE EXCHANGED OR REPURCHASED.

TUITION AND FEES

Isothermal Community College receives financial support from local, state, and federal sources, allowing each student an educational opportunity at a minimum cost, Tuition is set by the State Board of Community Colleges and is subject to change without notice. Cost of textbooks and supplies are additional expenses which vary according to the program of study. The payment of all fees is required at the time of registration. If fees cannot be paid during registration the student is required to make arrangements with the Business Office and if approved payment of fees will not be deferred more than seven days.

Student Activity Fee

A student activity fee of \$10, \$10, \$8 is charged Fall, Winter, and Spring quarters, respectively, for students registering for nine hours or more on the Spindale campus. Enrollees in mini courses and other off-campus courses will not be charged the Student Activity Fee. Any student not required to pay the fee can, however, elect to do so if they desire. There is no Student Activity Fee for Summer quarter.

The proceeds from this fee are budgeted cooperatively by students and administration in support of co-curricular activities. Students are advised that, without the activity card, admission charges may be assessed at certain student activity functions.

Student Identification Cards

Student Identification Cards are issued without charge to each student who enrolls for 9 or more quarter hours and pays the Student Activity Fee. Students who enroll for less than 9 quarter hours may purchase a card by paying the activity fee at registration.

This ID card will admit students to social, cultural, educational and athletic events sponsored by the College. Lost ID cards may be replaced in the Student Affairs Office. There will be a charge for the replacement.

Residence Status For Tuition Payment

Applicants are responsible for submission of information needed by the institution to determine resident classification.

North Carolina G.S. 116-143.1 requires that to qualify for in-state tuition a legal resident must have maintained his/her domicile (one's permanent dwelling place of indefinite duration) in North Carolina for at least 12
months immediately prior to his/her classification as a resident for tuition
purposes. N.C. G.S. 116-143.1 also sets forth statutory definitions, rules,
and special provisions for determining resident status for tuition purposes.
Classification of in-state or out-of-state for tuition purposes will be based
on statements and supportive evidence provided by each applicant. In
some cases the applicant may be asked to furnish additional information
to support the residency claim. Failure to provide requested information
for residency classification can result in classification as non-resident. Students classified as out-of-state for tuition are responsible for applying to
the Admission/Records Coordinator for reclassification to in-state status at

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the conclusion of the 12 month waiting period. No prior notice will be given by the institution. The change in classification, if deemed to be warranted, shall be effective at the next academic quarter following the date of application for reclassification. Regulations concerning the classification of students by residence are set forth in "A Manual to Assist Public Higher Education Institutions of North Carolina in the Matter of Student Residence Classification for Tuition Purposes." A copy of the manual is available for review in the Student Affairs Office.

The requisite domiciliary intent is tested by evaluating relevant, objectively verifiable conduct which may constitute a manifestation of the state of mind of the actor. The following types of inquiries, or combinations thereof, may be significant, though no one item, nor any combination of items, will necessarily control resolution of the question:

- a. Living or not living in the home of one's parents.
- b. Place where one voted or registered to vote.
- c. Place where one has served on jury duty.
- d. Place where one has registered and/or licensed a car.
- e. Place where one last acquired a driver's license.
- f. Place where one has filed state income tax returns.
- g. Place where one maintains personal property and last listed such for taxation.
- Place where one owns a home or other real property and pays taxes thereon,
- Place where one spends substantial parts of available vacation time.
- j. Place where one is or was employed or working gainfully.
- Place where one maintains membership in one or more professional associations, unions, and other organizations.
- I. Place where one last attended or graduated from high school
- m. Place where one resided before enrolling in an institution of higher education.
- n. Sources of one's financial support.

Senior Citizens

North Carolina residents 65 years of age and older shall be exempt from the payment of curriculum tuition, student activity fee, and extension registration fees in accordance with Chapter 981 of the 1977 Session Laws.

BUSINESS AND INDUSTRY EDUCATIONAL SERVICES

Isothermal Community College is committed to providing business and industry with a broad array of educational and training services. In addition to custom training and regular curricular offerings, the college can assist business and industry through the following program areas.

SMALL BUSINESS CENTER

Ronnie Conner, Director

If you are considering a new business venture, an expansion of your current business, or need help in developing a business plan, Isothermal Community College's Small Business Center can work for you. Generally designed for the company with fewer than 100 employees, the Small Business Center provides additional training, one-on-one counseling, access to a state-wide network of business experts or the professional contacts and information needed by the small business. A resource center provides the latest literature and audiovisual material on operating a small business.

NEW AND EXPANDING INDUSTRY

Jim McCammon, Business and Industry Services

Training is available to any new or expanding manufacturing employer creating a minimum of 12 new productive jobs in North Carolina. Training may be conducted on campus or at the company's facility. If neither site is available adequate space may be leased. These programs are customized to meet the existing needs of the employer with no tuition fees.

Adult Basic Education

Mike Davis, Coordinator

Adult Basic Education is designed for those who need basic reading, writing, and mathematics skills. It offers training that will help adults become better shoppers, consumers, workers, and problem solvers. Classes may be geared toward helping adults get better jobs or improving present literacy-related job skills. Emphasis is placed on individual study for advancement at one's own pace. The program uses a variety of materials, ranging from basic reading to high school entry level, which are designed for adults. Adult Basic Education uses the CASAS system.

Classes usually meet for a three-hour session twice a week. To accommodate a variety of student needs, both daytime and evening classes are scheduled in neighborhoods or work places throughout Rutherford and Polk Counties. There are no fees for these classes.

Upon completion of basic instruction, the student is eligible to study toward an Adult High School Diploma in the Learning Place or in an extension adult high school class.

CONTINUING EDUCATION

Continuing Education's flexibility provides the opportunity to meet a wide variety of individual and group needs. Adults can study a high tech

skill, learn to read, take a course for self-enrichment, or develop quality management techniques. Some courses are offered on a continuing basis while others are given in response to requests of individuals or groups. Groups meet in schools, churches, community clubs, fire stations, and inclustry throughout Rutherford and Polk Counties and on campus. Class hours, the length of the course, and the number of meetings per week can be arranged for the convenience of the participants.

Anyone interested in a class can call the Continuing Education office, 286-3636 in Spindale or 894-3092 in Columbus. Classes are often set up for individual interest or in an organization: industry, church, or community group.

Admission and Registration

Adults 18 years of age or older are eligible to participate in Continuing Education classes. High school students from Rutherford and Polk Counties, age 16 to 18, may enroll in a course with permission from their high school. Pre-registration is taken over the phone for most courses. This reserves their place and they will be notified of any course change. Registration and fee payment is completed at the first class meeting.

Registration Fees

Student fees depend on the type of course. There are no registration fees for Adult Basic Education, GED, HRD, and the High School Diploma programs. Law enforcement, fire, rescue, and EMT personnel pay no fees for their in - service training. Prisoners and mentally handicapped adults are fee exempt. North Carolina residents 65 and over, do not pay a fee for some classes.

The fee for Occupational courses is \$35. Course fees for Community Services courses typically range \$7 - \$35.

Continuing Education Refund Policy

- A student who withdraws from a class prior to the first day of class or if the class is canceled will be eligibile for a 100 percent refund of the registration fee.
- After the class has started, requests for refunds should be made using the following schedule. The student will be eligible for a 75% refund of the registration fee.

Scheduled Course Length 4 times or less The first day of class 5 or more times 20% of the class has passed

 An option to a refund: The student may request a transfer to another Continuing Education course before 20% of the course has expired. The course that is being transferred into must be within the same quarter, have space available, and have the instructor's approval.

4. Exceptions to this policy can be made by the following:

Courses Originating In Continuing Education Division Physical Education

Polk Campus

Exceptions Made By
Dean of Continuing Education
Physical Education Department
Chair
Polk Campus Director



Continuing Education Repetition Policy

Continuing Education students may enroll in a course as many times as necessary to accomplish their personal, educational/training goals provided they continue: 1.) to show progress, 2.) do not prohibit other students from participating, 3.) pay the appropriate fees, and 4.) do not violate North Carolina Department of Community College policy.

Students who take the same Occupational Extension course more than twice are required to pay for the actual cost of the course or \$35 whichever is more. This applies if the course is repeated within a five year period since September 1, 1993. Courses taken for certification, licensure, or recertification are exempt from this policy.

Continuing Education Units

One Continuing Education Unit will be awarded for each 10 contact hours of instruction that will be determined prior to the beginning of the experience. A decision to award the CEU will be made after the program or activity has been offered. Calculations of contact hours will include the following elements:

 Classroom time with direct participation between the students and instructors will be converted directly to contact hours.

 Activities that use instruction such as supervised independent study, directed reading, or project based assignments will be awarded CEU's. Contact hours will be determined after finding the average amount of time and hours required to complete the learning activity.

 Field trips and other experiential course activities will be awarded CEU's. This will usually be done on the basis of two hours required for each contact hour of instruction.

The CEU is used in three ways, as follows:

 A unit of measure to recognize an individual's participation in noncredit activities that meet appropriate criteria.

The accounting unit of Isothermal Community College non-credit courses, programs, and activities.

3. The basis for quality assurance in Continuing Education programming.

The Dean of Continuing Education and the Director of Polk Campus have responsibility for final determination of the CEU's awarded for a particular Continuing Education experience. The instructor will verify and report that each participant has or has not met the specified requirements for satisfactory completion and is or is not awarded a CEU.

A permanent record of the student's participation will be maintained by Isothermal Community College.

See section on release of permanent records.

Occupational Extension Program

Donna Wylle, Coordinator

Occupational classes help adults build their job skills or knowledge. These classes are held on campus or in the workplace. Business, industry and public service organizations have benefited from their employee's development through occupational courses. Here are some examples of occupational oriented courses.

Auto Inspection Industrial Fire Brigade
Aviation Ground School ISO 9000
Blueprints & Measurements
Building Contractor's Code
Emergency Medical Service
Fire Fighting Geriatric Care
Industrial Fire Brigade
ISO 9000
Law Enforcement
Nursing Assistant
Teacher Renewal Credit
Total Quality Management

Community Services

Noel Isham, Coordinator

Community Services courses help adults broaden their talents, stimulate their creativity, develop new skills, improve themselves, and just have fun. Examples of these courses include:

Cake Decorating Investing
Ceramics Painting
Conversational Languages Pottery
Cooking & Nutrition Quilting
Crafts Sewing
Creative Writing Sign Language
Guitar Stress

Health & Wellness

Adult Basic Education

Mike Davis, Coordinator

Adult Basic Education is designed for those who need basic reading, writing, and mathematics skills. It offers training that will help adults become better shoppers, consumers, workers, and problem solvers. Classes may be geared toward helping adults get better jobs or improving present literacy-related job skills. Emphasis is placed on individual study for advancement at one's own pace. The program uses a variety of materials, ranging from basic reading to high school entry level, which are designed for adults. Adult Basic Education uses the CASAS system.

Classes usually meet for a three-hour session twice a week. To accommodate a variety of student needs, both daytime and evening classes are scheduled in neighborhoods or work places throughout Rutherford and Polk Counties. There are no fees for these classes.

Upon completion of basic instruction, the student is eligible to study toward an Adult High School Diploma in the Learning Place or in an extension adult high school class.

HRD Program

DeLane Davis, Coordinator

The HRD (Human Resources Development) Program helps the unemployed, underemployed or dislocated worker with motivation, attitudinal changes and pre-job orientation. It is presently operating in 45 Community Colleges and Technical Institutes in the state. There is no registration fee.

Participants learn to properly complete applications, write a resume and prepare for job interviews. The HRD students are encouraged to set personal goals and to define the steps to reach these goals. Individual follow-up is given to help each participant achieve success.

Students learn how to be better employees through individual/group interaction, discussion, and counseling, HRD encourages their sense of self worth, improves their communication skills and develops their ability and attitude to attain and keep a better employment level. At times, skills such as operating different computer programs and nurse's aide are included to help the student be more employable.

Compensatory Education

Carol Lieurance, Coordinator

The Compensatory Education Program is provided for adults with mental handicaps. The focus of the program is on skills needed by adults with mental handicaps to function as independently as possible in society. It assumes an end result of productivity, employment, independence, and self-sufficiency.

The education programming includes the skill areas of basic academics (grades 1-8), high school academics, and vocational skills. The program consists of task-analyzed lesson plans field-tested by a team over a three-year period which include: language, math, social science, community living, consumer education, health, and vocational education.

These educational opportunities enable adults with mental handicaps to become more independent and self-directed. Also, they become more familiar with occupational skills and acquire skills to meet and manage community, social, work, and personal adult responsibilities.

In order to accommodate student needs, classes are offered during the day and evening with class hours being flexible. Classes are offered in communities, rest homes, nursing centers, and vocational workshops. There is no registration fee.

Adult High School

Mary Ann Head, Coordinator

Two high school completion programs, Adult High School Diploma (AHSD) and General Educational Development (GED), are offered to Rutherford and Polk County residents. The AHSD program is available through a cooperative agreement with the Polk County Board of Education, the Rutherford County Board of Education, and Isothermal Community College.

The GED program is also offered in Rutherford and Polk Counties. Administrative guidelines set by the Department of Community Colleges and the American Council on Education are followed.

A variety of adult-oriented reading, writing, grammar, arithmetic, science, and social studies material is supplied for self-paced instruction. This allows a student to work individually and progress at his or her own pace. Individualized instruction by an instructor, aide, and/or tutor is supplied to each student during class time.

Any 18 year old or older adult whose class has graduated may enroll in either program. Sixteen and seventeen year olds may enroll with special written permission from proper authorities. Administrative guidelines set by the Department of Community Colleges and the American Council on Education are followed.

Adult High School Diploma

Requirements include:

Satisfactory completion of units in English, mathematics, social studies, sciences, and health.

Satisfactory completion of elective units.

3) Passing score on the North Carolina Competency Test.

Credit for units may be given by one (or all) of the following methods:

- A student may transfer credit from high school via a transcript.
- A student, who is eligible, may elect to take challenge tests and receive credit by scoring 50th percentile or higher on selected standardized achievement tests.
- 3) A student may complete the course(s) in an adult high school class.

General Educational Development (GED)

GED practice tests and GED study material are available through the high school completion program. A student's score on the practice GED test shows if the student should study and the subject(s) to review before attempting the actual test.

Class Locations and Hours

Classes are offered in communities throughout Rutherford and Polk County, in industries, and on both the Spindale and Polk campus. These classes are free and are scheduled in the mornings, afternoons, and evenings.

The Learning Place, on both campuses, offers classes throughout the day and evening as follows:

Learning Place (Spindale)

Monday, Tuesday, Wednesday	8:30 am - 4:30 pm
A CONTRACTOR CONTRACTO	5:30 pm - 8:30 pm
Thursday	8:30 am - 4:40 pm
Friday	8:30 am - 1:00 pm

Learning Place (Polk)

Monday, Tuesday, Wednesday	9-2 pm; 5:30 - 8:30 pm
Thursday	9-12 noon

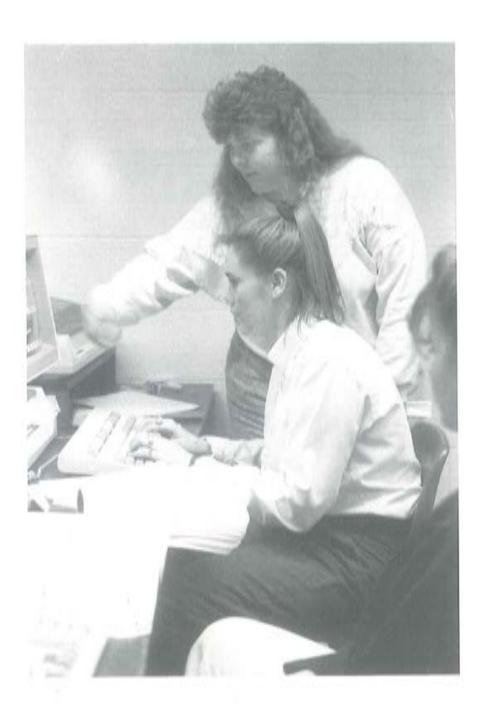
Telecourses

A student can prepare for the GED test by watching weekly courses on public television. These courses usually begin in September. English, reading, and math lessons are telecast in 30 minute segments.

Travel/Study Programs

Augusta M. Hyde, Coordinator

The travel/study program provides stimulating opportunities for study through travel. Study tours are planned because of popular demand and are escorted by Isothermal Community College faculty and staff. Prior to each study tour a orientation seminar is conducted. While on tour the students, not only have the benefit of the expertise of our Isothermal Community College faculty members, but expert on-site guides.



Polk County Campus



POLK COUNTY CAMPUS

The Polk County Campus offers a wide selection of both credit and noncredit courses. Business and college transfer classes are offered for credit. Students may choose to complete specialized coursework at the Spindale campus or transfer to another college to complete a four-year degree. Noncredit (continuing education) courses range from self-enrichment classes to those which offer training to volunteer firemen, rescue personnel, and nursing assistants. Courses to improve occupational skills are offered as well. Adult Basic Education, General Educational Development (GED) and Adult High School programs are available.

Services offered at the Polk County Campus include placement testing, academic counseling, and financial aid assistance. The Polk Campus library is available for use by students as well as other members of the community.

Bulletins listing credit and non-credit courses are mailed out periodically. News releases of the curriculum and special events are placed in local papers.

The Polk County Campus is fortunate to have dedicated volunteers actively participating in the Polk County Campus I.C.C. Foundation, Inc. The Foundation has a significant role in fund raising, provides scholarship aid, and promotes Isothermal Community College in the community.

Regular hours at the Polk County Campus are Monday through Thursday, 8:00 a.m. to 9:30 p.m., Friday from 8:00 a.m. to 4:30 p.m., and other prearranged times including weekends. Additional information may be obtained by visiting the campus or calling 894-3092.

Polk County Campus Isothermal Community College 902 Hwy 108 West Columbus, NC 28722



Curriculum Classes

Both business and college transfer classes are offered at the Polk County Campus for college credit. Many are offered in the evening to accommodate students who work during the day. In addition, some daytime classes are offered to provide scheduling flexibility.

Continuing Education

The Continuing Education Division provides educational non-credit opportunities for adults who desire to learn occupational skills, to upgrade their capabilities for professional success, or to enrich their personal lives. In order to accommodate a variety of student needs and interests, Continuing Education classes including computer, Notary Public Education, Certified Nursing Assistant, Emergency Medical Technician (EMT), Firefighter Certification, sewing, painting, foreign languages, and various special interest classes.

Adult High School Diploma Program

Isothermal Community College, in cooperation with the Polk County School Board and the North Carolina State Board of Education, has developed an Adult High School Diploma Program which provides an adult the opportunity to complete high school. There are no fees for these classes.

Requirements for an adult high school diploma include:

- Satisfactory completion of units in English, mathematics, social studies, and sciences.
- (2) Satisfactory completion of a variety of elective units.
- (3) Passing score on the North Carolina Competency Test.

Credit for the required courses can be obtained by one (or all) of the following methods:

- (1) A student may transfer credit from high school via a transcript.
- (2) A student who makes seventy-five (75) or above on the reading placement test may elect to take challenge tests and receive credit by scoring 50th percentile or higher on selected standardized achievement tests.
- (3) A student may complete the course(s) in an adult high school class

Students may choose to study at the Polk Campus or at other locations in the county. Each student in the program arranges his own study schedule and proceeds at his own individual pace. Diplomas earned are valid for those who wish to continue their studies in institutions of higher learning.

Adult Basic Education

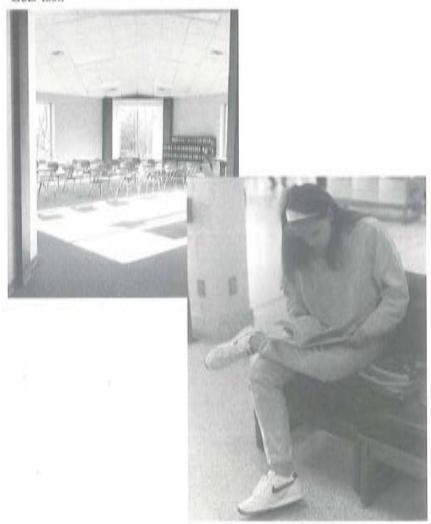
Adult Basic Education is a program designed to improve skills in reading, writing and math. These skills are related to practical situations that adults deal with in everyday life. The Adult Basic Education instructors work closely with the Polk County Literacy Council which provides tutors for students desiring one-on-one instruction.

Classes meet four days a week on the Polk Campus. Also, there are night classes offered on campus and at other locations in the county. There is no charge for these classes.

Upon completion of the Adult Basic Education program, a student may enroll in the Adult High School Diploma program. This program is held at the same times and places as the Adult Basic Education classes.

General Educational Development Program (GED)

The GED is a high school completion program. The GED test is offered on the Spindale Campus. Students may enroll on the Polk Campus to study and complete their practice tests. There is a charge of \$7.50 for the GED test.



CURRICULUM PROGRAMS

College Transfer Programs Technical Programs Vocational Programs Certificate Programs Student Support Services

Curriculum programs at Isothermal Community College fall into two major categories—college transfer and occupational. Transfer programs are those designed primarily for the students who are planning to attend a four-year college or university; occupational programs are divided into one-year or less (vocational) or two-year (technical) programs which allow the students to enter business or industry in their own or in other communities. Programs leading to the various degrees are offered both day and night.

College Transfer

C-004 Pre-Business Administration

C-026 Pre-Business Education

C-040 Pre-Computer Science

C-007 Pre-Engineering

C-031 Pre-Health and Physical Education

C-009 Pre-Journalism

C-010 Pre-Law

C-011 Pre-Liberal Arts

C-012 Pre-Math

C-013 Pre-Medical

C-014 Pre-Ministerial

C-015 Pre-Music

C-016 Pre-Optometry

C-017 Pre-Pharmacy

C-018 Pre-Science

C-019 Pre-Social Work

C-035 Pre-Teaching-Elementary (K-6)

C-020 Pre-Teaching-Middle grades (6-9)

C-028 Pre-Teaching—Secondary (9-12)

C-033 Pre-Textile Technology

C-021 Pre-Veterinary Medicine

C-024 General Curriculum

Technical

T-030 Administrative Office Technology

T-059 Associate Degree Nursing, Registered Nursing

T-109 Associate Degree Program for Vocational Instructors

T-189 Basic Law Enforcement Training

T-018 Business Administration

T-022 Business Computer Programming

T-068 Commercial Graphics

T-129 Criminal Justice - Protective Services Technology

T-043 Drafting and Design Engineering Technology

T-045 Electronics Engineering Technology

T-201 General Technology Curriculum Core

T-049 Industrial Management Technology

T-229 Insurance Technical Specialty

T-020 Marketing and Retailing

T-051 Mechanical Engineering Technology

T-192 Microcomputer Systems Technology

T-179 Radio and TV Broadcasting Technology

T-166 Real Estate Technical Specialty

T-088 Teacher Associate

Vocational

V-001 Automotive Body Repair

V-003 Automotive Mechanics

V-067 Child Care Worker

V-009 Cosmetology

V-018 Electrical Installation

V-032 Machinist

V-038 Practical Nursing

V-050 Welding

The average rate of student persistence toward degree completion at Isothermal Community College College is available in the office of Student Affairs.

COLLEGE TRANSFER PROGRAMS

Objectives

To provide opportunities for students to complete the general education requirements leading to an Associate of Arts Degree (A.A.) or to an Associate of Science Degree (A.S.). Courses in these programs transfer to senior (4-year) institutions; however, the final decision on transferability rests with the institution to which the student transfers.

Graduation Requirements

A student wishing to complete the requirements for the A.A. or A.S. degree must earn 96 quarter hours of credit with an overall grade point average of 2.0 or better.

The number of hours of required courses and elective courses vary with each of these degrees and are outlined on the following pages. A student's choice of electives should be decided through consultation with his/her advisor in a patterned way toward the student's future major area of concentration and in compliance with requirements at the school to which the student intends to transfer.

Course Number System

College transfer courses are indicated by a three (3) digit number. Any such numbered course may be taken for graduation requirements. No course with a four-digit number may be taken for college transfer graduation requirements.

GRADUATION COURSE REQUIREMENTS

ASSOCIATE OF ARTS

The Associate of Arts degree will be awarded to those students completing the general liberal arts requirements listed below. While foreign language is not currently included on this list, students should be aware that many schools, including UNC-Ch, UNCC, UNCG, and UNCA, have language requirements that should be met before transfer. Consult four year college catalogs to determine this and/or other requirements of specific schools.

Subject	Course	Credit Hours
History	History 151, 152, 153	9
Communications	*English 151, 152, 153 (Must be taken in sequence)	9
Literature	English 250, 251, 252, 253, 254 (Any two of the five)	10
Mathematics	Any 10 hours numbered 150 or above	10
Computer Science	Any CSC or CAS course 3 or more credits	3
Natural Science	Any three-quarter sequence of the same lab science.	12
Physical Education	PED 150 and two physical education activity courses.	4
Humanities	See the Humanities section of the course descriptions for the list of courses that can be used to meet this requirement.	5
Social Science	May be taken from among any Psychology, Sociology, Anthropology, Economics, History, Geography, or	
Electives	Political Science courses. May be chosen from among approved	
	three digit courses.	29

^{*}ENG 161, 162, 163 will also satisfy this requirement.

GRADUATION COURSE REQUIREMENTS

ASSOCIATE OF SCIENCE

The Associate of Science degree will be awarded to those students completing the general liberal arts requirements prescribed for the Associate of Arts degree and any additional requirements for the programs listed below:

Pre-Science/Pre-Medical/Pre-Optometry/Pre-Pharmacy/Pre-Veterinary Medicine (C-018/C-013/C-016/C-017/C-021) must include:

20 hours math (MAT 151, 152, 161, 162) or (MAT 153, 161, 162, 163)
24 hours Natural Science
4-6 additional hours math, science, and/or computer science
Additional science hours can be substituted for MAT 163 in Pre-Medical, Pre-Optometry. Pre-Pharmacy and Pre-Veterinary Medicine

Pre-Engineering/Pre-Math (C-007/C-012) must include:

MAT 161, 162, 163, 261 and PHY 251, 252, 253 and CHM 151, 152, 153 or BIO 151, 152, 153

Pre-Computer Science (C-040) must include:

MAT 161, 162, 163, 261 and PHY 251, 252, 253 or CHM 151, 152, 153 12 hours of computer science

Pre-Textile Technology (C-033) must include:

CHM 151, 152, 153 PHY 251, 252, 253 Any 30 hours of math courses numbered 151 or above.

These requirements are reflected in the program outlines which follow.

COLLEGE TRANSFER PROGRAM OUTLINES

The following program outlines are recommended for students who wish to complete a program in two academic years without attending summer school. Students who work or who attend in the evenings may choose to deviate from these outlines to accommodate individual needs.

PRE-BUSINESS ADMINISTRATION C-004

		Course Title	Class	Lab Hours	Credit
ENG MAT	151 151 151	Freshman Composition I College Algebra & Trigonometry I Natural Science	3 5 3	0	3 5
HIS PED ORI	151 150 100	World Civilization I Concepts in Physical Education Student Orientation Seminar	3 1 1 16	3 0 2 0 5	4 3 2 1 18
SECON	D QUARTER			1107	
ENG MAT	152 152	Freshman Composition II College Algebra & Trigonometry II Natural Science	3 5 3 3 0	0	5
HIS PED	152	World Civilization II Selection	3 0 14	0 3 0 3 6	3 4 3 1 16
	QUARTER	Freehouse Commission III		0	3
ENG	153	Freshman Composition III Natural Science	3	3	Ã
PED	153	World Civilization III Selection Humanities Requirement	3 3 0 5 14	3 0 3 0 6	4 3 1 5 16
FOURT	H QUARTER				
ACC	210	Literature Selection Principles of Accounting Computer Requirement	5 3 3 3	0 2 0	5 4 3 3, 15
ECO	201	Principles of Economics	14	0 2	15
FIFTH 6	QUARTER	V200206		0	16
ACC ECO	211 202	Literature Principles of Accounting Principles of Economics Social Science Requirement	5 3 3 5 16	2 0 0 2	5 4 3 5 17
	QUARTER				
ACC ECO	212 203	Principles of Accounting Principles of Economics Electives	3 3 Z 13	0 0	4 3 2 14
		TOTAL HOURS	87	23	96

PRE-BUSINESS EDUCATION C-026

FIDST (OUARTER	Course Title	Class	Lab	Credit
ENG	151	Freshman Composition I	3	O	3
MAT	1.01	Math requirement		ő	
OSC	101	Keyboarding/Document Formatting	5 2 3 3	3	5 3
7577	****	Science Selection	- 3	3	
HIS	151	World Civilization I	3	0	3
ORI	100	Student Orientation Seminar	1	Ω	1
200.001		and the second second	17	6	4 3 1 19
SECON	D QUARTE	ı			
ENG	152	Freshman Composition II	- 3	0	3
MAT		Math requirement	3 5 3 1 15	0	3 5 4 3 2 17
		Science Selection	3	3	4
HIS	152	World Civilization II	3	0	3
PED		150 Concepts in PE	1	2 5	2
		S A A C STOP TO WAS A DATA MET POLITIC A THE TOTAL A	13	5	17
	QUARTER	Application of the control of the co			
ENG	153	Freshman Composition III	3	0	3
		Computer Requirement	3 3 3 4	3	3 4 3 4 1
(1)	244	Science Selection	3	3	4
HIS	153	World Civilization III	3		3
		Elective	4	0	4
PED		Selection	Ω	7	1
			16	9	1.8
FOURT	H QUARTER				
4 200 200	22.00	Literature Selection	9	0	
ACC	210	Principles of Accounting	3	0	4
ECO	201	Principles of Economics	5 3 3 5	0	5 4 3 5 17
		Humanities Requirement	24	Ω	100
			16	2	17
FIFTH C	QUARTER	Literature Selection			100
ACC	222		9	0	
ECO	211	Principles of Accounting	5 3 3	2	- 4
ic.c.	202	Principles of Economics	11	2 0 2	5 4 3 12
SIXTH	QUARTER				
ACC	212	Principles of Accounting	4	9	4
ECO	203	Principles of Economics	4	0	-
PED		Selection	0	ă	4 3 1 5
4 41 40		Social Science Requirement	5	0	15
		A STATE OF THE PARTY OF THE PAR	3 0 5	2 0 3 0 5	13
		TOTAL HOURS	86	29	96
		1,00,11,111,1,110,101,111	1414	20.00	9.50

PRE-COMPUTER SCIENCE C-040

		Course Title	Class	Lab	Credit
FIRST Q			Hours	Hours	Hours
ENG	151	Freshman Composition I	3	0	3
PEO	150	Concepts in Physical Education	1	2	2
OSC	106	Principles of Problem Solving	3 5	2	4
MAT	153	Pre-Calculus		0	. 5
HIS	151	World Civilization I	3	0	5 3 1
ORI	100	Student Orientation Seminar	1	Ω	1
			1.6	A	18
SECONE	QUARTER		27	920	122
ENG	152	Freshman Composition II	3	0	3
MAT	161	Calculus and Analytic Geometry I	5	0	5
1415	152	World Civilization II 3 0 3			- 3
CSC	210	Basic Programming	3	2	4
2000	12000		18	2	15
THIRD (QUARTER			745	2
ENG	153	Freshman Composition III	3 5 5 3 0	0	3 5 5 3
MAT	162	Calculus and Analytic Geometry II	5	0	- 0
		Social Science Requirement	5	0	19
HIS	153	World Civilization III	3	0	3
PED		Selection	Ω	3.	1
			16	3	17
FOURT	1 QUARTER	Literature Selection	5	0	5
	440		6	Ö	5
MAT	163	Calculus and Analytic Geometry III	5	3	A
CHM	151	General Chemistry I or	- 6		-
PHY	251	Analytical Physics I			
PED	Control of	Selection	0	3	2.0
7 400		Elective	4	Ω	4
			17	6	19
	UARTER		4		4
CSC	227	C Programming	3	2	4
CHM	152	General Chemistry II	3	3	4
PHY	252	Analytical Physics II			
MAT	261	Calculus and Analytic Geometry IV	5.	.0	5.
IVIZII	201	care and remigration of	13	9	13
SIXTH (QUARTER	Literature Selection	-5	0	5
CHM	153	General Chemistry III	3	3	4
CITION	1.2.3	or			
PHY	223	Analytical Physics III	100		
	12000	Humanities Requirement	5	Ω	5.
			1.3	3	1.4
		TOTAL HOURS	88	2.3	96
		# UNIONS TO A STELLOW TO A			

PRE-ENGINEERING AND PRE-MATH C-007/C-012

EIDST 6)UARTER	Course Title	Class	Lab	Credit
CHM	151	Consent Chemister I	Hours	Hours	Hours
300 0 (100 0)		General Chemistry I	3	3	4
ENG	151	Freshman Composition I	3 3 5	0	3 5 1
1105	151	World Civilization I	3.	0	3
MAT	153	Pre-Calculus		0 0 0	5
ORI	100	Student Orientation Seminar	1	Ω	1
			15	3	16
SECON	D QUARTE	8			
CHM	152	General Chemistry II	4	3	4
ENG	152	Freshman Composition #	3	ő	- 2
HUS	152	World Civilization II	9	0	4 3 5 2
MAT	161	Calculus & Apalutic Consents I	3 5		2
PED		Calculus & Analytic Geometry I	-1	0	- 1
PELO	150	Concepts in Physical Education	1	2 5	24
			15	5	17
THIRD	QUARTER				
CHM	153	General Chemistry III	3	3	4
ENG	153	Freshman Composition III	3 3 3 5	0	3
HIS	153	World Civilization III	3	Ö	i i
MAT	162	Calculus & Analytic Geometry II	5	Ö	10
PED	1,420	Selection	Ď.	7	- 7
		Jenetion .	10	0 3 6	3 3 5 1
FOURT	H QUARTE				
· count	ii dovini	Literature Selection	6	0	42
MAT	163	Calculus & Analytic Geometry III	6		9
PHY	251		5 5 3	8	
PED	45.97	Analytical Physics I Selection		0 3 3	5 4 1
PEL		attection	13	6	15
FIFTH C	UARTER		1776		
		Literature Selection	5 3	0	5 4 5 2
PHY	252	Analytical Physics II	3	3	4
MAT	261	Calculus & Analytic Geometry IV	55.	3	5
		Computer Requirement	3	0	. 3
			1.6	03	17
SIXTH 6	UARTER				
	253	Analytical Physics III	4		A
		Humanities Requirement	5	6	-
			3 5 5 1	0	5 5 1
		Social Science Requirement	9	0	9
		Elective		0 0 0 0 3	75
		TOTAL MONING	14		15
		TOTAL HOURS	91	26	96

PRE-HEALTH AND PHYSICAL EDUCATION C-031

		Course Title	Class	Lab	Credit
FIRST Q ENG HIS MAT	151 151	Freshman Composition I World Civilization I Math Requirement	Hours 3 3 5	O O O	Hours 3 3 5
PED	150	Concepts in Physical Education Natural Science (Biology)	1	2 3 Ω	5 2 4
ORI	100	Student Orientation Seminar	16	<u>0</u> 5	18
SECON	QUARTER				
	152 152	Freshman Composition II World Civilization II Math Requirement Natural Science (Biology)	3 5 3 17	0 0 3	3 5 4 15
	QUARTER				
HIS HEA PED	153 153 250	Freshman Composition III World Civilization III Personal & Community Health Selection Natural Science (Biology)	3 5 0 3	0 0 3 3 6	3 5 1
		readural actorice (protogy)	14	6	16
FOURT	H QUARTER		10.	- 2	
BIO PED	270	Literature Selection Humanities Requirement Anatomy & Physiology I Selection	5 5 3 0	0 3 3 3 6	5 4 1 15
			13		15
FIFTH 6	QUARTER	Literature Selection	5	0	5
ENG BIO	170 271	Public Speaking Anatomy & Physiology II Computer Requirement	5 3 3 14	0 3 0 3	5 4 2 15
SIXTH	QUARTER 151	First Aid	3	0	3
BIO	272	Anatomy & Physiology III Social Science Requirement Elective	3 5 5	3 0 0 3	3 4 5 5
		TOTAL HOURS	90	26	96

PRE-JOURNALISM C-009

ARTER 151 150 100 QUARTER 152 152 JARTER 153 153	Freshman Composition I World Civilization I Math Requirement Journalism Science Selection Student Orientation Seminar Freshman Composition II World Civilization II Requirement Journalism Practice Selection Science Selection	Hours 3 5 5 3 1 18 3 5 0 0 14	O O O O O O O O O O O O O O O O O O O	Hours 3 3 5 3 4 1 19 3 3 5 1 1 1 1 1 7
151 180 100 QUARTER 152 152 JARTER 153 153	World Civilization I Math Requirement Journalism Science Selection Student Orientation Seminar Freshman Composition II World Civilization II Requirement Journalism Practice Selection Science Selection	3 3 1 18 3 5 0 0	0 0 0 3 0 3 0 3	3 5 3 4 1 10 3 3 5 1 1 4
180 100 QUARTER 152 152 JARTER 153 153	Math Requirement Journalism Science Selection Student Orientation Seminar Freshman Composition II World Civilization II Requirement Journalism Practice Selection Science Selection	3 1 18 3 3 5 0 0	0 3 0 3 0 3	53419
100 QUARTER 152 152 152 JARTER 153 153	Journalism Science Selection Student Orientation Seminar Freshman Composition II World Civilization II Requirement Journalism Practice Selection Science Selection	3 1 18 3 3 5 0 0	0 3 Q 3	3 5 1 1
100 QUARTER 152 152 152 JARTER 153 153	Science Selection Student Orientation Seminar Freshman Composition II World Civilization II Requirement Journalism Practice Selection Science Selection	3 1 18 3 3 5 0 0	3 Ω 3	3 5 1 1
QUARTER 152 152 JARTER 153 153	Freshman Composition II World Civilization II Requirement Journalism Practice Selection Science Selection	18 3 5 0 0	0 0	3 3 5 1
QUARTER 152 152 JARTER 153 153	Freshman Composition II World Civilization II Requirement Journalism Practice Selection Science Selection	18 3 5 0 0	0 0	3 3 5 1
152 152 152 JARTER 153 153	World Civilization II Requirement Journalism Practice Selection Science Selection	3 5 0 0	0	3 3 5 1
152 152 152 JARTER 153 153	World Civilization II Requirement Journalism Practice Selection Science Selection	0	0	3 5 1 4
JARTER 153 153	World Civilization II Requirement Journalism Practice Selection Science Selection	0	0	3 5 1 1
JARTER 153 153	World Civilization II Requirement Journalism Practice Selection Science Selection	0		3 5 1 4
JARTER 153 153	Requirement Journalism Practice Selection Science Selection	0		1 4
153 153	Journalism Practice Selection Science Selection	0	3 3 3 9	1
153 153	Selection Science Selection	0	3 3 9	4
153 153	Science Selection	3	3	4
153 153			9	4
153 153	Seekens Connection III	***	100	10.70
153 153	Freehann Commontton III			1.5
153				190
7.000.000	Freshman Composition III	3	0	3
1.13.1	World Civilization III	3.	0 3 3	3 1 4 5
101	Journalism Practice	0	3	1
	Science Selection	3	3	4
	Social Science Requirement	5.	0	5.
		14	6	16
QUARTER				
	Journalism Practice	0	3	1
100		- 15	Ö	12
150	Concents in Physical Education	1	9	3
	Introduction to Sociology	R	n	6
15057	introduction to sociology	11	5	5 2 5 13
ADTER				
ARTER	Literature Selection	5	0	6
1701		0	9	5
		70	- 3	4
		3		-
260	Computer Requirement	2	0	3 5
260	General Psychology	2	Ω.	A
		1.3	0	1.5
ARTER	0.034000.003000000000000000000000000000	1721		127
		- 5	0	5 1 4
181		0	3	1
	Elective		0	4
260	Creative Writing	3	O	3
170	Public Speaking	3	O	3
		1.3	3	16
	TOTAL HOURS			96
	181 260	OUARTER 181	14	DUARTER 181

PRE-LAW C-010

FIRST Q ENG HIS MAT PED ORI	UARTER 151 151 150 100	Freshman Composition I World Civilization I Science Selection Math Requirement Concepts in Physical Education Student Orientation Seminar	Class Hours 3 3 3 5 1 1	Lab Hours 0 0 3 0 2 0 2	Credit Hours 3 3 4 5 2 1
SECONE ENG HIS MAT PED	QUARTER 152 152	Freshman Composition II World Civilization II Science Selection Math Requirement Selection	3 3 5 0 14	0 3 0 3 6	3 3 4 5 1
THIRD SENG HIS	QUARTER 153 153	Freshman Composition III World Civilization III Science Selection Humanities Requirement Selection	3 3 3 5 0	0 3 0 3 0	3 4 5 1
FOURT HIS POL	H QUARTER 260 261	History of U.S. American Politics Computer Requirement Elective	3 5 3 2 14	0 0 0 0	3 5 3 2 14
FIFTH (HIS POL	261 262	Literature Selection History of the U.S. State and Local Government Electives	5 3 3 6 17	0 0 0	5 3 3 6 17
SIXTH HIS	QUARTER 262	Literature Selection History of U.S. Electives TOTAL HOURS	5 3 2 15 90	0 0 0 0	5 3 2 15 96
		TOTAL HOUNS	100		

Electives should be taken from the social science area.

PRE-LIBERAL ARTS C-011

riner e		Course Title	Class	Lab	Credit
ENG HIS	QUARTER 151 151	Freshman Composition I World Civilization I Science Selection	Hours 3 3 3	Hours 0 0	Hours 3 3
MAT ORI	100	Math Requirement Student Orientation Seminar	5 1 15	3 0 0 3	4 5 1 16
SECON	D QUARTER				
ENG HIS	152 152	Freshman Composition II World Civilization II Science Selection	3	0	3
MAT PED	150	Math Requirement Concepts in Physical Education	3 3 5 1 15	0 3 0 2 5	3 4 5 2 12
THIRD	QUARTER				
ENG HIS	153 153	Freshman Composition III World Civilization III	3	0	3
PED		Science Selection Selection Computer Requirement	3 3 0 3 12	0 3 3 9	3 4 1 3
FOURT	H QUARTER				
	, quantin	Literature Selection Humanities Requirement	5 5 6	0	5 5
PED		Electives Selection	0 16	3 3	5 6 1 17
FIFTH C	UARTER				
	30000001778	Literature Selection Humanities Selection Electives	5 5 6 16	0 0 0	5 5 6 16
SIXTH C	QUARTER				
	7:117780X _	Social Science Requirement Electives	5 11	0	5
		TOTAL HOURS	16 91	15	96

^{*}Foreign Language and other humanities courses are recommended electives.

PRE-SCIENCE/PRE-MEDICAL C-018/C-013

EDET C	DUARTER	Course Title	Class	Lab	Credit
ENG	151	Freshman Composition I	3	0	3
HIS	151	World Civilization I	3	0	3
MAT	153	Pre-Calculus	5		5
DOLLAR.	1.00	Science Selection	3	3	4
PED	150	Concepts in Physical Education	1	2	2
ORI	100	Student Orientation Seminar	1	Ö	1
Oid	100	Student Chemation Seminar	16	0 3 2 0 5	3 5 4 2 1
SECON	D QUARTER	U alla sagri con con villa con con value con con villa con con con villa con con con con villa con			
ENG	152	Freshman Composition II	3 5 3	0	3 5 4 1
1415	152	World Civilization II	3	2 3 0 0	3
MAT	161	Calculus and Analytic Geometry I	.5	0	.5
(27/2)	2000	Science Selection	3.	3	- 4
PED		Selection		3	1.
1 11 112			14	6	16
******	CHARTER				
	QUARTER 153	Freshman Composition III	3	0	3
ENG	153	World Civilization III	3 3 5		3
HIS	120	Science Selection	3	3	4
	4.60	Calculus and Analytic Geometry II	12	ñ	16
MAT	162	Calculus and Analytic Geometry in	14	3 0 3	3 4 5 15
ECM INT	H QUARTE	r			
POURI	ii Qozaria	Literature Selection	15	0	- 3
		Social Science Requirement	71	0	5
		Natural Science	3	3	4
		Natural Science	9	3	4
		Natural Science	5 3 3 16	0 3 3 6	5 4 4 4 10
ereway.	CHIARTER				
CICTIS.	QUARTER	Literature Selection	5	0	5
		Natural Science	5 3 3	3	5 4 4
		Natural Science	3	3	4
		Pattural science	- 11	3 3 0	13
FIVEL	QUARTER				
andin	COMMITTER	Natural Science	3	3	4
		Computer Science	3	0	3
		Humanities Requirement	5	Ö	25
Part Pro		Selection	3 3 5 0 3	3	1
PED		Elective	9	0	3
		ciective	14	Ο 3 Ω 6	4 3 5 1 1 16
		TOTAL HOURS	85	32	96
		TOTAL PROMA	1407	1000	1777

This is only a suggested outline for a pre-science/pre-medical student to secure the Associate of Science degree. Science enurses can be chosen to best suit the student's area of concentration.

PRE-MINISTERIAL C-014

FIRST C	QUARTER	Course Title	Class	Lab Hours	Credit Hours
ING.	151	Conclusion Commentation 1			
HIS		Freshman Composition I	3	0	3
	151	World Civilization I	- 3	0	3
MAT		Math Requirement	5	O	. 5
- 1200	2360	Science Selection	3	3	4
ORI	100	Student Orientation Seminar	3 5 3 1	0 3 0 3	3 5 4 1
			1.5	3	16
SECON	D QUARTE	R			
ENG	152	Freshman Composition II	3	0	3
HIS	152	World Civilization II	3		3
MAT	7	Math Requirement	10	0	- 1
14.11		Science Selection	3	3	4
PED	150	Concepts in PE	2	- 1	7
L. Ciris	130	concepts in the	3 5 3 1 15	0 0 3 2 5	3 5 4 2
			1.0	.0	17
	QUARTER	BLOCK AND CONTRACTOR OF THE STATE OF THE			
ENG	153	Freshman Composition III	3	0	3
1418	153	World Civilization III	3	0	3
REL	162	World Religions	5	0	5
		Computer Requirement	3	0	3
		Science Selection	3	3	4
			3 5 3 3 17	0 0 0 2 3	3 5 3 4 18
FOURT	H QUARTER	ı			
SOC	160	Introduction to Sociology	6	0	6
PSY	260	General Psychology	17	ő	10
REL	160	Old Testament	6	0	
	1000	Cour restament	5 5 5 13	0	5 5 5 15
			17		1
FIFTH C	QUARTER	Marian Salaria			
erener.	101	Literature Selection	5	0	
SOC	161	Social Problems	5 3 0	0	31
PED		Selection	0	3	1
REL	161	New Testament	5.	0 3 0 3	5 1 5 17
			16	3	17
SIXTH (QUARTER				
		Literature Selection	5	0	5
SOC	162	Family Sociology	3	Ö	3
PED	0.000	Selection	0	3	7
		Electives	5 3 0 4	0	4
			12	0 3 0 3	5 1 4 13
		TOTAL HOURS	90	17	96
		THE PROPERTY.	371/	1.6	1710

PRE-MUSIC C-015

		Course Title	Class	Lab	Credit
FIRST Q		Eastern Committee I	3	0	3
ENG	151	Freshman Composition 1	3	o	3
1415	151	World Civilization I		9	4
		Science Selection	3	3	
MUS	151	Intro. to Music History I	3	0	3 2 1
PED	150	Concepts in Physical Education	1	2	2
		Ensemble	0	3	
ORI	100	Student Orientation Seminar	12	0	17
			12		1
SECONE	QUARTE	R		-	
ENG	152	Freshman Composition II	3	()	3
HIIS	152	World Civilization II	3	()	3
7775		Science Selection	3	0	4
MUS	152	Intro, to Music History II	3	0	3
PED	1.00.00	Selection	3 3 3 3	3	3 4 3 1
		Ensemble	Ω	3	1
		CHACTON	12	12	1.5
THIRD	QUARTER				
ENG	153	Freshman Composition III	3	0	3
HIS	153	World Civilization III	3 3 4 0	0	3 4
11113		Natural Science	3	3	4
		Clective	4	0	4
pers		Selection	0	0	1
PED		Ensemble	Q	3	1
		Chiemore	13	12	16
FOURT	H QUARTE	P TO THE OWNER OF THE PROPERTY			
POORT	ii chowiere	Literature Selection	5	0	5
11.49			5	Ö	5
MAT	2.00	Math Requirement	5 5 3	9	4
MUS	160	Music Theory I	Ď.	5	1
		Ensemble	13	3.	5 4 1 15
EIETH C	TALLA BYEER				
FIFTH C	QUARTER	Literature Selection	5	0	5
		Math Requirement	14	0	5
		Computer Perulament	- 4	0	1
1 11 10	444	Computer Requirement	5 3 3 0	2	5 3 4 1
MUS	161	Music Theory II		2	7
		Ensemble	16	2 3 5	18
enwer.	OLIABATE				
SIXTH	QUARTER	Humanities Requirement	10	0	5
		Humanities Requirement	10	o o	6
200	4 6 75	Social Science Requirement	5 5 3 0	4	5 4 1
MUS	162	Music Theory III		7	7
		Ensemble	M	2 3 5	18
		TOTAL HOURS	13	49	96
		The second of the second	3775	17/6	

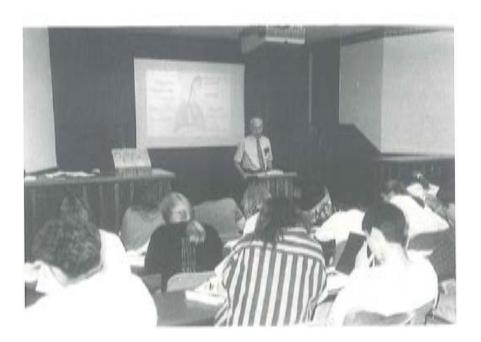
All music majors must also take applied music. All voice majors must take class plans through plans (V. All plans majors will take one quarter of class voice.

PRE-OPTOMETRY C-016 PRE-PHARMACY C-017 PRE-VETERINARY MEDICINE C-021

UARTER	Course Title	Class	Lab	Credit
	Freshman Composition 1		7.77.70.017.71	3
				- 1
		- 5	4	4
		8		3 4 5
1.27	or	2		9
153	Pre-Calculus			
100	Student Orientation Seminar	1	Ω	1
		1.5	3	16
OUARTE	i			
		X	Ö	4
		ä	Ö	- 1
		- 3	3	á
		16		3 4 5
1	Of			7
161	Calculus and Analytic Geometry I			
	Selection		3	1 2
150	Concepts in PE	1	2	2
		15	15	18
DUARTER				
	Freshman Composition III	3	0	- 3
		3		3
		3	3	3 4 5
		15	0.	17
	or	77	100	
162	Calculus & Analytic Geometry II			
	Selection	Ω	3.	1
		14	6	16
OUARTER				
151		3	3	4
	Of	-	1,70	177
251	Analytical Physics I			
		55	0	
	Selection	0	3	5
	Electives	5	0	5
	(2)	13	6	1.5
	100 O QUARTER 152 152 152 153 153 153 153 161 162 I QUARTER 153 251	151 Freshman Composition I 151 World Civilization I 151 Principles of Biology I 151 College Algebra & Trigonometry I 153 Pre-Calculus 100 Student Orientation Seminar OQUARTER 152 Freshman Composition II 152 World Civilization II 152 Principles of Biology II 152 College Algebra & Trigonometry II 152 Principles of Biology II 153 Principles of Biology II 150 Concepts in PE QUARTER 153 Freshman Composition III 153 Principles of Biology III 153 World Civilization III 153 Principles of Biology III 151 Calculus & Analytic Geometry I 152 Calculus & Analytic Geometry I 153 Principles of Biology III 154 Calculus & Analytic Geometry I 155 Calculus & Analytic Geometry II 156 Calculus & Analytic Geometry II 157 Calculus & Analytic Geometry II 158 General Chemistry I 159 Or 150 Canalytical Physics I 150 Humanities Requirement 150 Selection	151	CUARTER

FIFTH C	UARTER		8.22	71,227	17040
		Literature Selection	.5	0 3	
CHM	152	General Chemistry II or	3	3	4
PHY	252	Analytical Physics II	2	3	A
MAT	162	Calculus & Analytic Geometry II or			
MAT	163	Calculus & Analytic Geometry III	13	3	14
SIXTH C	QUARTER	the state of the s		0	5
2000		Literature Selection	2	0	4
CHM	153	General Chemistry III or	3		,
PHY	253	Analytical Physics III		123	- 0
		Computer Requirement	3	0	3
		Social Science Requirement	13	0	17
		TOTAL HOURS	86	26	96

^{*}Additional sciences may be required by transfer institutions for these programs. Check catalogs and choose science selections in accordance with transfer requirements.



PRE-SOCIAL WORK C-019

EIDST (UARTER	Course Title	Class Hours	Lab Hours	Credit
ENG	151	Freshman Composition I	3		
HIS	151	World Civilization I	3	0	3
1113	1311			0	3
600	160	Science Selection	3	3	3 4 5 1
SOC	160	Introduction to Sociology	5	0	9
ORI	100	Student Orientation Seminar	1	Ω	A.
			1.5	3	16
SECON	D QUARTER				
ENG	152	Freshman Composition II	*	0	4
1-0.5	152	World Civilization II	- 7		1
rita	1.42	Science Selection	100	0 3 0	4
PSV	360		45		2
	260	General Psychology	29	0	2
SOC	161	Social Problems	3 3 5 3 17	0 3	3 4 5 18
			17	3	10
THIRD	QUARTER				
ENG	153	Freshman Composition III	3	0	3
HIS	153	World Civilization III	3	0	3 4 3 3
11100	100	Science Selection	3	3	4
SOC	162	Sociology of the Family	3	0	3
PSY	261	Developmental Psychology	3	ő	9
PED		Selection	n	4	1
1 445		Democration	3 3 3 3 0 15	0 3 0 0 3 6	17
FOURT	H QUARTER				
		Literature Selection	25	0	.5
MAT		Math Requirement	5	0	5
PED	150	Concepts in Physical Education	1	3	2
	1.00	Elective	3	0	3
			14	0 2 0 2	5 2 3 15

FIFTH C	QUARTER	Literature Selection			
				0	10
MAT	200	Math Requirement		9	0
PSY	263	Abnormal Psychology	5 5 3 3	0 0 0	5 3 3 16
SOC	163	Family Violence		0	
			16	0	16
SIXTH (QUARTER				
		Humanities Requirement	15	0	11
		Computer Requirement	5	0	3
PED		Selection	Ö	No.	1
10.00		Electives	10	6	5 3 1 5
		LINE THE PARTY OF	0 5 13	0 3 0 3	14
		TOTAL HOURS	90	17	96
		NAME PROMIS	3/0	17	1010

^{*}Electives to be comidered should include Foreign Language, Anthropology, Religion, U.S. History, Political Science, Philosophy, and Public Speaking.

PRE-TEACHING (K-6) C-035 PRE-TEACHING (Middle grades) C-020 PRE-TEACHING (Secondary) C-028

FIRST Q	UARTER	Course Title	Class	Lab Hours	Credit Hours
ENG HIS	151 151	Freshman Composition I World Civilization I Biological Science	3 3	0	3
MAT PED ORI	150 100	Math Requirement Concepts in Physical Education Student Orientation Seminar	5 1 1 16	3 0 2 0 5	4 5 2 1 18
SECONI	QUARTER		16	7	
ENG HIS	152 152	Freshman Composition II World Civilization II Biological Science	3 3 5 0	0	3 4
MAT PED		Math Requirement Selection	5 0 14	7 0 7 0	3 4 5 1
THIRD	QUARTER				
ENG HIS	153 153	Freshman Composition III World Civilization III Biological Science	3 3 0 5	0 3 3	3
PED		Selection Electives	0 5 14	3 0 6	3 4 1 5
FOURT	H QUARTER				1/2
HIS GEO ART	299 160 160	History of North Carolina Physical Geography Survey of Art Computer Requirement	5 5 3 16	0 2 0 0 2	5 5 3
FIFTH C	UARTER		1.40		
PED	150	Concepts in PE Literature Selection	5	0	5
GEO MUS	161 181	Economic Geography Music Appreciation	5 3 5 14	2 0 0 0 2	2 5 3 5 15
SIXTH	QUARTER				
GEO	162	Literature Selection World Regions Electives	5 3 6	0 0 0	5 5 6
		TOTAL HOURS	88	21	96

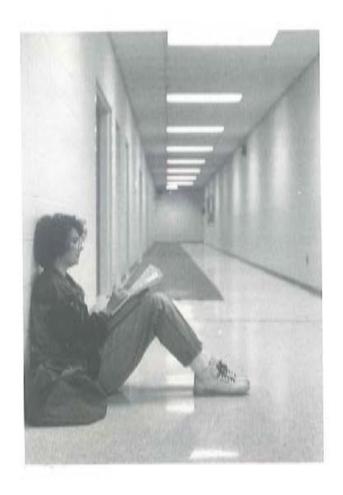
^{*}Electives should be taken from Humanities, Foreign Language, Social Science, and Science courses to suit individual interest and senior institution requirements.

Note: Some transfer institutions require both a biological and a physical science.

PRE-TEXTILE TECHNOLOGY C-033

FIRST C	DUARTER	Course Title	Class	Lab	Credit
ENG	151	Freshman Composition I	3	0	riours
MAT	151	College Algebra & Trigonometry I	5	ő	Š
MAT	153	Pre-Calculus			
CHM	151	General Chemistry I	3	3	4
HIS	151	World Civilization I	3	3	3
ORI	100	Student Orientation Seminar	3 1 15	3	16
SECON	D QUARTER				
ENG	152	Freshman Composition II	3 5	0	3 5
MAI	155	Callege Algebra & Trigonometry II or		0	0
MAT	161	Calculus & Analytic Geometry I	1.00	100	9.4
CHM	152	General Chemistry II	3	3	4
HIS	152	World Civilization II	14	0 3	13
THIRD	QUARTER				
ENG	153	Freshman Composition III	3	0	- 3
MAT	162	Calculus & Analytic Geometry II or	5	o	5
MAT	163	Calculus & Analytic Geometry III			
PED	150	Concepts in Physical Education	1	2	.2
CHM	153	General Chemistry III	3	3	4
MIS	153	World Civilization III	3 2 15	2 3 0 5	2 4 17
FOURT	H QUARTER				
		Literature Selection	5	0	5
MAT	163	Calculus & Analytic Geometry III or	5	.0	5
MAT	261	Calculus & Analytic Geometry IV			100
PHY	2.51	Analytical Physics I	3	3	4
PED		Selection	0	3	A.
			1.3	.0	2.9

FIFTH C	QUARTER	No. of the state o			
PHY PED	252	Literature Selection Computer Requirement Analytical Physics II Selection Elective	3 0 1 12	9 3 0	3 4 1 1 14
SIXTH (QUARTER				
MAT	261	Calculus & Analytic Geometry IV or	5	0	5
MAT	170	Introductory Statistics			
PHY	253	Analytical Physics III Humanities Requirement	8	0	5
		Social Science Requirement	5	0	5
		TOTAL HOURS	87	26	96



TECHNICAL PROGRAMS

Associate of Applied Science Degree (A.A.S.) Graduation Requirements

An Associate of Applied Science (A.A.S.) degree will be awarded to those students completing the requirements for a technical degree with a minimum of a 2.0 grade point average.

BUSINESS DIVISION A.A.S. Degree Program

T-030	Administrative Office Technology
T-018	Business Administration
T-022	Business Computer Programming
T-049	Industrial Management Technology
T-020	Marketing and Retailing
T-192	Microcomputer Systems Technology

VOCATIONAL-TECHNICAL DIVISION A.A.S. Degree Program

T-059	Associate Degree Nursing, Registered Nursing
T-109	Associate Degree Program for Vocational Instructors
T-189	Basic Law Enforcement Training
T-068	Commercial Graphics
T-129	Criminal Justice - Protective Services Technology
T-043	Drafting and Design Engineering Technology
T-045	Electronics Engineering Technology
T-051	Mechanical Engineering Technology
T-179	Radio and TV Broadcasting Technology
T-088	Teacher Associate

TECHNICAL CERTIFICATE PROGRAMS

A certificate of achievement may be awarded to a student who completes the required courses in the following areas. The student should apply to the Registrar's Office for the certificate.

F-030	Administrative Office Technology Certificate
F-018	Business Administration Certificate
F-045	Electronics Engineering Technology Certificate Program
F-201	General Technology Curriculum Core
F-049	Industrial Management Technology Certificate
F-229	Insurance Technical Specialty
F-166	Real Estate Technical Specialty
F-179	Radio and TV Broadcasting Certificate

ADMINISTRATIVE OFFICE TECHNOLOGY T-030

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

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

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



ADMINISTRATIVE OFFICE TECHNOLOGY T-030 (Day)

FIRST C	QUARTER (Fall)	CLASS	LAB	CREDIT
BUS	100	Introduction to Business	3	0	3
CAS	101	Computer Applications & Concepts	3	O	3
COL	100	Employment Seeking Skills	ï	0	ï
MAT	107	Mathematics Principles	3	ő	3
ORI	100	Student Orientation Seminar	ï	0	4
OSC	101	Keyboarding/Document Formatting I	ż	3	3
1,785,760,788	11.71.737.75		<i>K</i> .		3
OSC	108	Records Management	16	23	17
			10		10
		R (Winter)			
BUS	201	Industrial Psychology	3	0	3
BUS	239	Business Mathematics	3	2	4
CAS	163	WordPerfect	3	2	4
CAS	214	Microsoft Windows	3	0	3
OSC	102	Document Formatting II	3	2	4
	1000		1.5	6	10
*****	Chi La Divisio	(forder)			
BUS	QUARTER 101	(Spring) Professional Development		0	
	1100 000 000		3	0	3
CAS	248	Advanced Wordperfect	3 3	0	4
ENG	151	Freshman Composition I	3		3
OSC	103	Document Formatting III	3	2 2	4
OSC	165	Word Processing Applications	3	2	4
			15	6	18
ECURT	H QUARTE	R (fall)			
ACC	210	Principles of Accounting I	3	2	4
BUS	225	Business Law		ő	
BUS	257		- 0	ő	3 4
and the same of	000 300 000	Applied Business Communications !	3	0	3
CAS	241	Lotus 1-2-3	3	0	- 4
A 44.000	0.00	Elective	3 3 3 3		3
MKT	120	Marketing		Ω	3
			18	4	20
FIFTH C	DUARTER (Winter)			
ACC	211	Principles of Accounting II	3	2	4
BUS	258	Applied Business Communications II		ō	
CAS	252	dBASE	3	9	4
ECO	260	Consumer Economics	3 3 3 3	0	3 4 3 3
ENG	152		- 2	8	
700 0000		Freshman Composition II		0 2	- 3
OSC	109	Transcription Skills	18	6	21
			10		-
	QUARTER (
BUS	214	Frinciples of Management	3	0	3
		Elective—Humanities	3	0	3
ING	153	Freshman Composition III	3	0	3
ENG	170	Public Speaking	3	0	3
	11.5	Related Elective	3	Ö	3
OSC	205	Machine Transcription	3 3 3 3 3	9	3 3 3 3 4 3
OSC	213	Secretarial Administration	3	2	9
	2.10	Section in Franciscon	21	2	22
		TOTAL CREDIT HOURS	W. 1	4	116
		TOTAL CREDIT FIGURE			110

ADMINISTRATIVE OFFICE TECHNOLOGY T-030 (EVENING)

FIRST C	LARTER (F	all)	CLASS	LAB	CREDIT
BUS	100	Introduction to Business	3	0	3
CAS	101	Computer Applications & Concepts	3	0	3
COL	100	Employment Seeking Skills	1	0	1
MAT	107	Mathematics Principles	9	0	Ä
2 4 44 44	1 m 60	Student Orientation Seminar	3	0	¥.
ORI	100		4	9	4
OSC	101	Keyboarding/Document Formatting I	13	3	14
SECON	D QUARTE	R (Winter)			
BUS	201	Industrial Psychology	3	0	3
CAS	214	Microsoft Windows		0	
ECO	260	Consumer Economics	3	0	3
Carlo and and a	1 Page 100 P	Document Formatting II	ä	2	4
OSC	102	Document romating ii	12	2	13
THIRD	QUARTER	(Spring)			
BUS	101	Professional Development	3	0	3
BUS	239	Business Mathematics	3	2	4 4 3
and the same		Word Perfect	3	2 2	4
CAS	163		3	ő	2
OSC	108	Records Management	12	4	14
ECH INT	U OLIAPTE	R (Summer)			
	241	Lotus 1-2-3		9	4
CAS	100	Freehouse Communities I	3 3 3 3	2 0 2 2	3
ENG	151	Freshman Composition I	3	9	4
OSC	103	Document Formatting III	2	6	2
OSC	165	Word Processing Applications	12	6	15
erezer e	OLIA DEED A	s-to			
	QUARTER (9	2	4
ACC	210	Principles of Accounting I	4	ô	9
BUS	225	Business Law	4	Ö	4
BUS	257	Applied Business Communications I			2
MKT	120	Marketing	3 3 3 12	2	4 3 3 3 13
CANTOL	OUAPER	(Malleston)			
	QUARTER	(vvinter)	4	0	- 2
ACC	211	Principles of Accounting II	3	6	7
BUS	258	Applied Business Communications II	3 3 3	0	4 3 4 4
CAS	248	Advanced Wordperfect	3	2.	1
CAS	252	dBASE	12	2 0 2 2 6	15
			1.6		10
	TH QUART	ER (Spring) Principles of Management	3	0	3
BUS			3	2	A
OSC	109	Transcription Skills	3	ő	9
OSC	213	Secretarial Administration	3	()	7
		Related Elective	12	0 2	3 4 3 3
			1.6		1.5

EIGHTI ENG ENG OSC	152 170 205	(Summer) Freshman Composition II Public Speaking Machine Transcription	3 3 2 9	0 2 2	3 4 10
NINTH	QUARTER (
		Elective Elective-Humanities	3	0	3
ENG	153	Freshman Composition III	3	0	3
		TOTAL CREDIT HOURS		100	116

ADMINISTRATIVE OFFICE TECHNOLOGY CERTIFICATE T-030

A certificate of achievement will be awarded upon successful completion (average of "C"-2,00 GPA) of a minimum of 42 credit hours from requirements listed below.

			Credit Hours
ACC	210	Principles of Accounting 1	4
BUS	101	Professional Development	3
BUS	239	Business Mathematics	4
BUS	257	Applied Business Communications I	3
CAS	1.01	Computer Applications & Concepts	3
CAS	163	Word Perfect	4
ENG	151	Freshman Composition I	3
MAT	107	Mathematics Principles	3
ORL	100	Student Orientation Seminar	1
OSC	101	Keyboarding/Document Formatting I	3
OSC	102	Document Formatting II	A
OSC	165	Word Processing Applications	4
OSC	213	Secretarial Administration	3
		TOTAL CREDIT HOURS	42

ASSOCIATE DEGREE NURSING, REGISTERED NURSING T-059

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

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

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

ASSOCIATE DEGREE NURSING, REGISTERED NURSING T-059

ASSO	CIATE	DEGREE NURSING, REG	ISTEREL) NO	KSING	Quarter
			H	ours Pe	r Week	Hours
			Class	Lab	Clinical	Credit
FIRST YE	AR arter (Fall					
вю	270	Anatomy and Physiology I	. 3	3	0	9
NUR NUR	101	Basic Concepts in Nursing Pharmacological Concepts	6	4	3	
		in Nursing	3	0	0	3
NUT	160	Basic Nutrition	15	0 0 7	Ω 3	3 3 19
Second	Quarter (Winter)				
BIO	271	Anatomy and Physiology II	3	3	0	4
NUR	103	Nursing Care of Adults 1	4	2	12	9
PSY	259	General Psychology	10	Ω 5	12	4 9 16
Third Q	uarter (Sp	ering)				
BIO	272	Anatomy and Physiology III	3	3	0	4
PSY	261	Developmental Psychology	3	0	0	- 3
NUR	104	Nursing Care of Adults II	10	0 0 3	12	15

	Quarter (5					
BIO	280	Microbiology (1/2 Qt.) - 1st session	2	3	0	3
BIO	281	Microbiology (1/2 Qt.) - 2nd session	2	3	0	3
SOC	159	Introduction to Sociology	3	0	0	3
NUR	105	Mental Health Nursing	5	Ω	12	18
					14	10
	D YEAR					
	uarter (Fal					
ENG	151	Freshman Composition I	3	0	()	3
NUR CAS	201 101	Nursing Care of Older Adults Microcomputer Applications and	4	0	12	.03
en se	1.00	Concepts	9	9	n	- 4
		Consulption 1	9	2 2	12	14
Sixth Q	uarter (Wi	nter)				
ENG	152	Freshman Composition II	3	0	0	3
NUR	202	Nursing Care of the	100		95	.44
		Childbearing family				
		(1/2 quarter)	5	0	12	9
NUR	203	Nursing Care of Children				
		(1/2 quarter)	5	0	12	2
		Elective	3	0	Q	2
			16	0	24	24
seventh	Quarter (Spring)				
ENG	153	Freshman Composition III	3	0	0	3
NUR	204	Nursing Care of Adults III	9	0	1.5	10
NUR	205	Nursing Perspectives and Issues	3 3 3	Ω	Ω	3
			11	0	1.5	16
NUR	100	Nursing Role Transition		1876	10.00	0.97
		(LPNs only on demand)	3	2	0	. 4
		TOTAL CREDIT HOURS				122

ASSOCIATE DEGREE PROGRAM FOR VOCATIONAL INSTRUCTORS T-109

INTRODUCTION:

The program is designed for persons who have developed a skill or trade or technical specialty or who have a desire to do so, and would like to teach or pursue a degree. Successful graduates of the program may find employment in the public high schools, community colleges, and technical institutes vocational or career programs. It is also designed for those already teaching in such programs who have not had the opportunity to acquire training in educational methods.

The program offers the opportunity to earn an Associate in Applied Science Degree allowing credit for previous training, experience, and formal study in the student's area of expertise, supplemented by course work to broaden the student personally and develop professional competence in the techniques of teaching. Students may enter this program any quarter.

PROGRAM:

Credit will be awarded to skilled craftsmen based on educational experience and work experience. Credit will be allowed for no more than two fields of specialization.

Part I:

A. In the specialty area, credits will be earned by the following criteria:

 Twenty-four quarter hours credit for full-time trade school, twelve months (1440 hours) in one special skilled area certified by diploma or letter by trade school officials.

and/or

One quarter hour credit per sixty hours of full-time trade instruction for programs of less than one-year duration certified by diploma or letter by trade school officials.

 B. One quarter hour credit per forty hours of special short course instruction—company sponsored school, certified diploma, certificate,

or letter by company school.

- C. Five quarter hours credit for each full year of employment in a teaching situation. This must be certified by a notarized letter from the employer. Teaching must be the primary responsibility of employment.
- D. Two quarter hours credit for each full year of employment in the specialty occupation qualified to teach. This must be certified by a notarized letter from the employer.

and/or

Part II:

 A. Credits earned in industrial and/or vocational programs offered at regionally accredited collegiate level institutions. The maximum number of hours awarded for specialty skills toward an Associate in Applied Science Degree is 45 quarter hours.

A minimum of 30 quarter hours credit must be earned through course work at Isothermal Community College. In order to earn an Associate in Applied Science Degree at Isothermal Community College, the general education requirements must be met either through transfer credit, challenge examination, or formal course work.

A program of study will be prepared for each individual vocational instructor or potential instructor who makes application for the program. The Dean of Vocational/Technical Education will serve as advisor.

Following are minimum requirements for an Associate in Applied Science Degree for this curriculum.

Three areas of development and the hours required for each are: A. Specialty Area
Through formal instruction toward a specific vocation.
B. Personal Area (Sciences, Humanities)41
Minimum:
English 12
Social Sciences 6
Math 7
Science 4
Related Elective
Related Elective
C. Professional Area (Educational Methods)
EDU 110, 111, 112, 113, 114, 117, 234, CAS 118, ORI 100
D. Elective

ASSOCIATE DEGREE PROGRAM FOR VOCATIONAL INSTRUCTORS T-109

ENGLIS	н	Course Title	Class	Lab	Credit
ENG	151	Freshman Composition I	3	0	3
ENG	152	Freshman Composition II	3	0	3
ENG	153	Freshman Composition III	3	Ö	3
ENG	170	Public Speaking	3	ŭ	3
ENG	170	Fublic speaking	12	ö	3 3 3 3 12
cociai	SCIENCE				
Any adv	ison-approv	ed six credit hours of social science			
	MATICS	seven hours of Mathematics			
MAT	111	Technical Math	3	0	3
C T 17 (CC)		Intermediate Algebra	- 1	0	15
MAT	140	College Algebra & Trigonometry I	5 5	0	3 5 5 5
MAT	151	College Algebra & Trigonometry I	7	ő	6
MAT	152	College Algebra & Trigonometry II	- 24		
SCIENC					
Any ach	/isor-approv	red four credit hours of physical or biolo	gical scien	ce	
EDUCA	TION				
ORI	100	Student Orientation Seminar	.1	.0	1
EDU	110	Introduction to Trade/Industrial			
	7.777	Education	3	0	3
EDU	111	Occupational Analysis & Course	100	9779	
66767	111	Development	3	0	3
EDU	112	Instructional Methods	3	0	3
		Shop Organization & Planning	3	0	3
EDU.	113		4	0 0 0 0	3
EDU	114	Shop Safety Instructional Television	7	Ö	1
EDU	117		4	Ö	-
EDU	234	AV Materials and Equipment	- 2		- 2
CAS	118	Computer Applications	m.	el.	

ELECTIVES

Any advisor approved twelve hours of electives selected from the following technical prefixes: CJC, DES, DFT, EDU, ELC, ELN, GRA, MEC, RTV, WLD

BUSINESS ADMINISTRATION T-018

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

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

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



BUSINESS ADMINISTRATION T-018 (DAY)

FIRST	QUARTER (Fall)		CLASS	LAB	CREDIT
ACC	210	Principles of Accounting I	3	2	4
BUS	100	Introduction to Business	3	0	3
CAS	101	Computer Applications & Concepts	3	Ö	3
COE	100	Employment Seeking Skills	1	Ö	1
MAT	107	Mathematics Principles	3	Ö	3
1 4 11 11			í	ő	í
ORI	100	Student Orientation Seminar			
OSC	101	Keyboard/Document Formatting I	2	7	2
			16	5	18
SECO	ND QUARTER (Winter)			
ACC	211	Principles of Accounting II	3	2	.4
BUS	112	Business Finance	3	0	
BUS	201	Industrial Psychology	3	0	3 4
BUS	239	Business Mathematics	3	2	4
DOM:	2,33	Elective	4	ő	4
		Elective — Related	3	Ω	4 2
		Elective — Related	19	4	21
			- 80		- 60
	D QUARTER (Spi			2	12
ACC	212	Principles of Accounting III	3	2	4
BUS	214	Principles of Management	3	0	3 3 3 3
BUS	260	Leadership Development	3 3	0	3
		CAS or CSC Elective	3	0	3
ENG	151	Freshman Composition I	3	0	3
MKT	132	Sales Development	3	Ω	3
			18	2	19
FOU	RTH QUARTER (fall)			
BUS	224	Human Resource Management	3	0	3
BUS	225	Business Law	3	0	3
and the same			- 3	Ö	
BUS	257	Applied Business Communications I	3 3 3 3	2	3 4 3 3
CA5	241	Lotus 1-2-3	- 4	ô	7
LCO	201	Principles of Economics	3		
MKT	120	Marketing	18	0 2	19
			1.6	*	1.0
FIFTE	QUARTER (Wir	nter)			
ACC	217	Taxes	3	2	4
BUS	226	Business Law	3	0	3
ECO	202	Principles of Economics	3	0	3
		Electivel-lumanities	3	0	3
ENG	152	Freshman Composition II	3 3 3 3	0	3
MKT	243	Advertising	3	0	4 3 3 3 3 3
(93)5.1	2.43	November	1.6	2	19
		2000			
	1 QUARTER (Spr	ing)	14	(26)	14
BUS	216	Principles of Supervision	3	0	3
BUS	227	Business Law	3	0	3 3
ECO	203	Principles of Economics	3	0	3
		Elective—Related	3	0	3
ENG	153	Freshman Composition III	3	0	3
ENG	170	Public Speaking	3 3 3 3 2 10	Ω	2
			1.0	0	10:
		TOTAL CREDIT HOURS			114

BUSINESS ADMINISTRATION T-018 (EVENING)

		(Everalists)			
FIRST C	QUARTER (FalD	CLASS	LAB	CREDIT
ACC	210	Principles of Accounting I	3	2	4
BUS	100	Introduction to Business	3	0	3
CAS	101	Computer Applications & Concepts	3	0	3
ORI	100	Student Orientation Seminar	ï	Ö	1
OSC	101	Keyboarding/Document Formatting I	2	2	2
Sept (S. Sept.	101	Reynaming Document Fernaming	12	8	14
SECON	D QUARTI	R (Winter)			
ACC	211	Principles of Accounting II	3	9	4
BUS	112	Business Finance	3	0	3
BUS	201	Industrial Psychology	3	0	3 4
CAS	241	Lotus 1-2-3	9	- 5	4
-	241	1000 1-2-3	3 3 3 12	2 0 2 4	14
THIRD	QUARTER	(Spring)			
ACC	212	Principles of Accounting III	3	2	4
BUS	214	Principles of Management	3	ô	4
COE	100	Employment Seeking Skills	í	o	3 1 3 3
MAT	107	Mathematics Principles	4	ő	-
MIKT	132	Sales Development	3		-
(VIII.)	132	Sales Development	3 3	2	14
		R (Summer)	100		
BUS	239	Business Mathematics	3	2	
		CAS or CSC Elective	3.	0	3
		Elective—Related	.3	0	3
ING	1.51	Freshman Composition I	3 3 3 2 12	0 2	3 3 3 13
			377	8	900
	QUARTER (
BUS	225	Business Law	3	0	3
BUS	257	Applied Business Communications I	3	0	3 3 3 3
ECO	201	Principles of Economics	3 3	0	3
MKT	120	Marketing	3	Ω	3
			12	0	12
SIXTH	QUARTER ((Winter)			
ACC	217	Taxes I	3	2	4
BUS	226	Business Law	3	0	3
ECO	202	Principles of Economics	3	0	3 3 2
MKT	243	Advertising	3.	Ω	3
			12	2	13
SEVENT	H QUART	ER (Spring)			
BUS	216	Principles of Supervision	3	0	3
BUS	227	Business Law	1	Ö	3
ECO	203	Principles of Economics	3	ö	3
1000		Elective—Related	3	Ω	3
		HALLOW THE CONTRACTOR	3 3 3 12	o o	3 3 2 12
			1/0		1.0

EIGHTE	OUARTER	t (Summer)			
	5353155	Elective Elective—Humanities	3	0	3
ENG	152	Freshman Composition II	3	0	3
ENG	120	Public Speaking	3.	Ω	3.
111.4.10			13	0	13
NINTH	QUARTER	(Fall)			
BUS	224	Human Resource Management	3	0	3
BUS	260	Leadership Development	3	0	3
ENG	153	Freshman Composition III	3	Ω	3.
	1000		9	0	9
		TOTAL CREDIT HOURS			114

BUSINESS ADMINISTRATION CERTIFICATE T-018

A certificate of achievement will be awarded upon successful completion (average of "C"-2.00 GPA) of 36 credit hours from the requirements listed.

Required		Credit Hours
ACC	210 Principles of Accoun	iting I 4
BUS	214 Principles of Manag	
BUS	225 Business Law	3
BUS	239 Business Mathematic	cs 4
ECO	201 Principles of Econor	nics 3
ENG	151, ENG 152, ENG 170 (any tw	vo courses) 6
ORI	100 Student Orientation	

^{*}Electives 12

TOTAL CREDIT HOURS

^{*}Elect 12 hours from courses within the Business Administration curriculum. Any course with a grade of below "C" cannot be applied toward the certificate.

BUSINESS COMPUTER PROGRAMMING T-022

The primary objective of the Business Computer Programming curriculum is to prepare individuals for gainful employment as computer programmers. The objective is fulfilled through study and application in areas such as computer and systems theories and concepts, data processing techniques, business operations, logic, flow charting, programming procedures and languages and types, uses and operation of equipment.

Entry level jobs as computer programmer and computer programmer trainee are available. With experience and additional education, the individual may enter jobs such as data processing manager, computer programmer manager, systems analyst and systems manager.



BUSINESS COMPUTER PROGRAMMING T-022 (DAY)

SIDES O	UARTER (Fall	r - Control of the co	CLASS	LAB	CREDIT
		Missosopputer Cherating Systems	2	2	4
CAS	160	Microcomputer Operating Systems	3	ô	9
CAS	214	Microsoft Windows		2	A
CSC	106	Principles of Problem Solving	3		7
*MAT	107	Mathematics Principles	1.00	0	
ORL	100	Student Orientation Seminar	1	0	1
OSC	101	Keyboard Document Formatting I	2	1	. 3
			14	7	17
SECON	D QUARTER (Winter)			4
ACC	210	Principles of Accounting I	3	2 3 2 0 2 0	4
CAS	200	Operating System/400	4	3	5
		Word Processing Requirement	3	2	1
COL	100	Employment Seeking Skills		0	1
CSC	210	BASIC Programming	3 3	2	4
1000		Elective	3	0	7
			17	.9	2.1
	QUARTER (Sp	iring)		2	4
ACC	211	Principles of Accounting II	3	- 6	7
BUS	239	Business Mathematics	3 3 3	2	4
CSC	215	Visual BASIC Programming	3	2	
CSC	225	Control Language Programming	3	2	4
ENG	151	Freshman Composition I	3.	Ω	3
200000	12.734		15	45	19
economic and a second	H QUARTER	(Call)			
BUS	257	Applied Business Communications I	3	0	3
CAS	240	Systems Analysis	3 3 3	2	3 4 4 5
1000 1000	BO . 4 . 40.	Data Communications	- 6	2 3	4
CAS	255	RPC/400	4	- 9	41
CSC	220	ESC SUIT TOURS	3	2	Ä
		Spreadsheet Requirement	16	9	20
			377		17.0
FIFTH (QUARTER (W				
CAS	252	DBASE	3 3 3 3 3	2	4
CAS	261	Computer Networking Fundamentals	(20)	0	
CSC	227	C Programming	3	2	4
		Economics Elective	3.	0	3
ENG	152	Freshman Composition II	3	0	3
ENG	170	Public Speaking	3.	Ω	3
11.463	10.00	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	18	4	4 3 4 3 3 3 20
O STATE OF STREET	ena va meren ere	ode et			
	QUARTER (Sp	Computerized Assessation	3	2	4
ACC	242	Computerized Accounting	3	13	4
CAS	253	Advanced DBASE	3		- 2
CSC	230	COBOL Programming	3	3	0
ENG	153	Freshman Composition III	3	0	.3
		Elective—Humanities	3 5 3 3	2 3 0 0	6 3 3 20
			17	7	
		TOTAL CREDIT HOURS			117

^{*}Student may elect to take MAT 150/MAT 151 or MAT 151/152 in lieu of MAT 107/BUS 239

BUSINESS COMPUTER PROGRAMMING T-022 (EVENING)

MARKET A		e tu		2.0	
	QUARTER (CLASS	LAB	CREDIT
CAS	160	Microcomputer Operating Systems	2	2	3
CSC	106	Principles of Problem Solving	3	2	4
*MAT	107	Mathematics Principles	3	()	3
ORL	100	Student Orientation Seminar	. 3	0	1
OSC	101	Keyboarding/Document Formatting I	2	3.	1
		8	11	7	14
SECON	D OLIAPTI	R (Winter)			
CAS	200	50C) (40C) - 10C (50C) (10C) (10C) (10C) (10C) (10C) (10C) (10C)	12		
CAS	(100, 01, 10	Operating System/400	4	3	5 3 4
1 Year 1 Sec.	214	Microsoft Windows	3	0	3
CSC	210	BASIC Programming	10	2 5	12
			10		12
THIRD	QUARTER		W		
000	0.00	Word Processing Requirement	3	2.	4
CSC	215	Visual BASIC Programming	3	2	4
CSC	225	Control Language Programming	3	2	4
			9	6	12
FOURT	H QUARTE	R (Summer)			
BUS	239	Business Mathematics	4	- 2	A
COL	100	Employment Seeking Skills	1	ô	3
ENG	151	Freshman Composition I	4	ő	4
01.440	.00.0	Spreadsheet Requirement	3	9	- 3
		opreausneet requirement	10	2 4	12
		F- 115		370	0.00
	QUARTER (
CAS	240	Systems Analysis	3	2	4
CAS	255	Data Communications	3	2	4
CSC	220	RPG/400 Programming	4	3	5
			10	7	13
SIXTH O	QUARTER (Winter)			
ACC	210	Principles of Accounting I		2	4
CAS	252	DBASE	- 10	2	4
CAS	261	Computer Networking Fundamentals	4	ô	3
CSC	227	C Programming	3		- 2
	***	C Programming	3 3 3 3 12	2	1.5
			16		1.0
SEVENT	H QUARTI	R (Spring)			
ACC	211	Principles of Accounting II	3.	2	4
CAS	253	Advanced DBASE	3	2	4
CSC	230	COBOL Programming	5	2 2 3	6
100	1100	- Color Frogramming	ii	9	14
DELLE	OUARTER	(Summer)			
ACC	242			943	1/2/
P. Market	242	Computerized Accounting	3 3 3 3	2	4 3 3 3 13
ENG	159	Elective	3	0	3
No. 3 To Section	152	Freshman Composition II	3	0	3
ENG	170	Public Speaking	3.	Ω 2	3.
			12	2	1.3

NINTH	QUARTER	(Fall)			72
BUS	257	Applied Business Communications I	3	0	3
10.00		Economics Elective	3	0	3
		ElectiveHumanities	3	0	3
ENG	153	Freshman Composition III	12	0	12
		TOTAL CREDIT HOURS			117

^{*}Student may elect to take MAT 150/MAT 151 or MAT 151/MAT 152 in lieu of MAT 107/BUS 239,



COMMERCIAL GRAPHICS T-068

The Commercial Graphics curriculum is designed to provide students with knowledge and skills necessary for employment in the graphic communications profession, which deals with the design, illustration, and mechanical preparation of printed promotional material. This curriculum provides the student with a sound, competitive foundation in the creative and/or the technical and mechanical areas of this profession.

The student is trained in the development of the concept and physical design for promotional materials such as newspaper or magazine ads, posters, folders, letterheads, corporate symbols, brochures, booklets, or package illustration. The program of study emphasizes design, advertising, preparation of art for printing, lettering, typesetting, photography, screen printing and offset printing.

Graduates of this curriculum will find employment opportunities with graphic design and commercial art studios, advertising agencies, printing companies, department stores, a wide variety of manufacturing industries, newspapers, and businesses with in-house graphic operations.

Entry Level

Graphic Designer/Artist
Illustrator
Layout Artist
Paste-Up/Mechanical Artist
Typographer
Graphic Arts Technician
Screen Process Technician
Small Offset Press Operator
Photographic Lab Technician
Print Shop Technician

Advanced Level

Art Director
Creative Director/Coordinator
Advertising Manager
Advanced Type Composer
Media Coordinator
Art Production Coordinator
Free Lance Artist
Advance Production Technician
Production Manager



COMMERCIAL GRAPHICS T-068

ART	EIRST O	UARTER	Course Title	Class	Lab Hours	Credit
DES	A 2.3.1 (1)					
DES					4	2
ORI 100	ANC. SICHE			3	3	3
SECOND QUARTER	7 Sept. 186 Sept. 1	100 100 100 100 100 100 100 100 100 100			0	
SECOND QUARTER CAS	2000 0 14 1				0	1
CAS	PHO	121	Introduction to Photography I		<u>6</u> 16	16
DES 102 Graphic Layout and Design II 3	SECONE	QUARTER	II CARRIED CONTRACTOR IN THE CONTRACTOR IN C		000000	
THIRD QUARTER	CAS	118	Computer Applications	2	3 6	3
THIRD QUARTER	DES	102	Graphic Layout and Design II	3	3.	4
THIRD QUARTER	DFT		Engineering Drawing I	0	0	3
THIRD QUARTER	ENG		Freshman Composition I	3	0 £	4 3 3 4
ART 152 Drawing and Composition I 2 DES 103 Typography and Design III 3 DES 104 Computer Graphics 2 ENG 152 Freshman Composition II 3 PHO 123 Photography III 2 FOURTH QUARTER DES 105 Graphic Arts 1 DES 201 Commercial Art I 3 ENG 153 Freshman Composition III 3 MAT 111 Technical Mathematics 3 MAT 111 Technical Mathematics 3 PSY 260 General Psychology 5 FIFTH QUARTER DES 202 Commercial Art II 3 DES 212 Illustration I 3 GRA 151 Offset Printing I 2 Humanities Elective 3 SIXTH QUARTER ART 153 Life Drawing 2 DES 203 Commercial Art III 3 DES 214 Illustration II 3 DES 204 Commercial Art III 3 DES 205 Commercial Art III 3 DES 206 General Psychology 1 SIXTH QUARTER ART 153 Life Drawing 2 DES 203 Commercial Art III 3 DES 214 Illustration II 3 DES 215 DES 206 Commercial Art III 3 DES 216 Portfolio Preparation 1 SEVENTH QUARTER DES 204 Commercial Art IV 3 DES 216 Portfolio Preparation 1	PHO	122	Photography II	10	10	17
ART 152 Drawing and Composition I 2 DES 103 Typography and Design III 3 DES 104 Computer Graphics 2 ENG 152 Freshman Composition II 3 PHO 123 Photography III 2 FOURTH QUARTER DES 105 Graphic Arts 1 DES 201 Commercial Art I 3 ENG 153 Freshman Composition III 3 MAT 111 Technical Mathematics 3 MAT 111 Technical Mathematics 3 PSY 260 General Psychology 5 FIFTH QUARTER DES 202 Commercial Art II 3 DES 212 Illustration I 3 GRA 151 Offset Printing I 2 Humanities Elective 3 SIXTH QUARTER ART 153 Life Drawing 2 DES 203 Commercial Art III 3 DES 214 Illustration II 3 DES 215 Uldestration II 3 DES 216 Offset Printing II 2 MKT 210 Advertising, Sales and Promotion 1 SEVENTH QUARTER DES 204 Commercial Art III 3 DES 215 DES 216 Portfolio Preparation 1	THURD	OUARTER				
DES			Drawing and Composition I	2	3	3
FOURTH QUARTER DES 105			Typography and Design III	3	3 3	3 3 3 4
FOURTH QUARTER DES 105	100 1010	4 (40 00)	Computer Graphics	2	3	3
FOURTH QUARTER DES 105	for this pr	152		3	O	3
FOURTH QUARTER DES 105	1000 7, 797			2.	6	4
DES				1.2	15	17
DES 201 Commercial Art I 3	E 100 100 110 110		W			4
### PIFTH QUARTER DES 202 Commercial Art II 3 DES 212 Illustration I 3 GRA 151 Offset Printing I 2 Humanities Elective 3 SIXTH QUARTER ART 153 Life Drawing 2 DES 203 Commercial Art III 3 DES 214 Illustration II 3 GRA 152 Offset Printing II 3 GRA 152 Offset Printing II 2 MKT 210 Advertising, Sales and Promotion 3 SEVENTH QUARTER DES 204 Commercial Art IV 3 DES 216 Portfolio Preparation 1	The second second	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			9	4
### PIFTH QUARTER DES 202 Commercial Art II 3 DES 212 Illustration I 3 GRA 151 Offset Printing I 2 Humanities Elective 3 SIXTH QUARTER ART 153 Life Drawing 2 DES 203 Commercial Art III 3 DES 214 Illustration II 3 GRA 152 Offset Printing II 3 GRA 152 Offset Printing II 2 MKT 210 Advertising, Sales and Promotion 3 SEVENTH QUARTER DES 204 Commercial Art IV 3 DES 216 Portfolio Preparation 1	200 100 100	89.70, 1,			ő	3 4 3 3 5
### PIFTH QUARTER DES 202 Commercial Art II 3 DES 212 Illustration I 3 GRA 151 Offset Printing I 2 Humanities Elective 3 SIXTH QUARTER ART 153 Life Drawing 2 DES 203 Commercial Art III 3 DES 214 Illustration II 3 GRA 152 Offset Printing II 3 GRA 152 Offset Printing II 2 MKT 210 Advertising, Sales and Promotion 3 SEVENTH QUARTER DES 204 Commercial Art IV 3 DES 216 Portfolio Preparation 1		1, 807, 601		3	Ö	9
### PIFTH QUARTER DES 202 Commercial Art II 3 DES 212 Illustration I 3 GRA 151 Offset Printing I 2 Humanities Elective 3 SIXTH QUARTER ART 153 Life Drawing 2 DES 203 Commercial Art III 3 DES 214 Illustration II 3 GRA 152 Offset Printing II 3 GRA 152 Offset Printing II 2 MKT 210 Advertising, Sales and Promotion 3 SEVENTH QUARTER DES 204 Commercial Art IV 3 DES 216 Portfolio Preparation 1	F 31 RE (A.E.			12	Ω	1
DES 202 Commercial Art II 3 3 3 3 3 3 3 3 3	PSY	260	Caneral Psychology	15	9	18
DES 202 Commercial Art II 3 3 3 3 3 3 3 3 3	FIFTH C	DUARTER				
SIXTH QUARTER			Commercial Art II	3	3	4
SIXTH QUARTER	DES	212	Illustration I	3	3	.4
SIXTH QUARTER	GRA	1.51		2	3	4 3 3
ART 153 Life Drawing 2 DES 203 Commercial Art III 3 DES 214 Illustration II 3 GRA 152 Offset Printing II 2 MKT 210 Advertising, Sales and Promotion 3 SEVENTH QUARTER DES 204 Commercial Art IV 3 DES 216 Portfolio Preparation 1			Humanities Elective	11	3 0 9	14
ART 153 Life Drawing 2 DES 203 Commercial Art III 3 DES 214 Illustration II 3 GRA 152 Offset Printing II 2 MKT 210 Advertising, Sales and Promotion 3 SEVENTH QUARTER DES 204 Commercial Art IV 3 DES 216 Portfolio Preparation 1	SIXTH (DUARTER				
13	41,01 0,01		Life Drawing	2	3	3
13		CO. M. ST.		3	3 3 3 2	4
13	200 40 000	E1 10010		3	3	4
13	The second			2	3	3
DES 204 Commercial Art IV 3 DES 216 Portfolio Preparation 1			Advortising, Sales and Promotion	13	14	3 4 4 3 4 18
DES 204 Commercial Art IV 3 DES 216 Portfolio Preparation 1	CENTENIS	CH COLLABORE	 ■ 60.0 (19.6 (19.7 (19.0 (19.2 (19.0 (19.2 (19.0 (19.2 (19.0 (19.2 (19.0 (19.2 (19.0 (19.2 (19.0 (19.2 (19.0 (19.2 (19.0 (19.2 (19.0 (19.2 (19.0 (19.2 (19.0 (19.2 (19.0 (19.2 (19.0 (19.2 (19.0 (19.2 (19.0 (19			
DES 216 Portfolio Preparation 1			Commercial Art IV	3	3	4
	CARR			1	6	3
CIRCO 193 STOREGOETH FIRMING			Sillacroon Printing	1	6	3
Social Science Elective 3	2012/7	1,000	Social Science Elective	3	O	3
Elective 3			A 80 36 MILES OF A CAMPAGE MALE SOURCE AND A SOUR	3	Ω	3
fi			THE STATE OF THE S	11	15	3 3 3 2 16
TOTAL CREDIT HOURS			TOTAL CREDIT HOURS			116

CRIMINAL JUSTICE - PROTECTIVE SERVICES TECHNOLOGY T-129

The Criminal Justice Technology curriculum is designed so that it may be a multifaceted program of study. It may consist of study options in correction, law enforcement and security services.

The curriculum is designed with a core of courses to afford one the opportunity to acquire basic knowledge, skills and attitudes in the generally accepted subject areas associated with a two-year study of correctional services, law enforcement services and security services. It includes subjects such as interpersonal communications, law psychology and sociology.

In addition to core subjects, the correctional services option provides an opportunity to study other generally accepted subjects indigenous to a two-year correctional services program such as confinement facility administration, correction law, counseling, probation-parole services and rehabilitation options. Similarly, the law enforcement option provides an opportunity to study other generally accepted subjects included in a two-year law enforcement services program such as criminal behavior, criminal investigation, patrol operation, traffic management, and other aspects of law enforcement administration and operations. The security services option provides an opportunity to study other generally accepted subjects related to a two-year security services program such as accident prevention and safety management, common carrier protection, fire prevention, private security, industrial security, retail security, security systems and surveillance.

Job opportunities are available with federal, state, county and municipal governments. In addition, knowledge, skills and attitudes acquired in this course of study qualify one for job opportunities with private enterprise in such areas as industrial, retail and private security.

CRIMINAL JUSTICE - PROTECTIVE SERVICES TECHNOLOGY T-129

		Course Title	Class	tab	Shop/ Clin	Credit
FIRST C	UARTER		Hours	Hours	Hours	Hours
CJC	101	Nature and History of Law	5	0	0	- 5
CJC	102	Introduction to Criminal Justice				
		System	5	0	0	5
ENG	1.51	Freshman Composition !	3	.0	0	3
SOC	160	Introduction to Sociology	5	0	0	8.
ORL	100	Student Orientation Seminar	1	Ω	Ω	1
			19	0	0	19

tenta Sala	QUARTE	R				
CJC	103	The Law Enforcement Officer's	5	0	0	5
erra era	101	Function in Criminal Justice				
CIC	104	The Court's Function in Criminal	3	0	0	- 3
		Justice Technical Mathematics	3	Ö	Ö	3 3 3
MAT	111		3	0	o o	9
ENG	152	Freshman Composition II	á	Q	Q.	3
CIC	105	Corrections in Criminal Justice	17	ő	Ö	17
THIRD	QUARTER					
CIC	106	Juvenile Justice	5	0	0	
CIC	107	Introduction to Criminology	5 3	0	0	5 3 3 2
SAF	151	First Aid/Community CPR	3	0	0	3
CIC	109	Victimology	3	0	0	3
od to	100	Free Elective	3	Ω	Ω	3.
			19	O	ō	19
FOURT	H QUARTE	R				2
SOC	161	Social Problems	3	0	0	3 3 4
ENG	170	Public Speaking	3	0	0	3
HIS	260	History of United States I	3	0	0	3
CHM	100	Introduction to Chemistry	3	3	()	4
CAS	160	Microcomputer Operations	2	Ω	2 2	3
	1 445		14	3	2	16
пети с	UARTER					
CJC	201	Criminal Law I	3 5 3 5	0	0	3 5
CiC	203	Motor Vehicle Laws of N.C.	5	0	0	
POL	260	American Government	3	0	0	3
PSY.	260	General Psychology	3	Ω	Q	5
rat	200	Carlein (sychology	16	O	O	16
SIXTH	QUARTER					
CIC	202	Criminal Law II	3	0	0	. 3
CIC	204	Criminal Evidence	3 3	0	()	3 3 5 17
CIC	207	Law of Arrest, Search and Seizure	3	O	()	3
1415	261	History of United States II	3	0	0	3
CIC	205	Criminal Investigation	5	Ω	Ω	5
Seed See	200		17	0	O	17
SEVEN	TH QUART	ER				
POL	262	American State and Local Government	3	0	0	3
PSY	262	Introduction to Applied				
570	20,000	Psychology	3	0	0	3
CIC	206	Introduction to Criminalistics	4	0.	3	5
	208	Use of Deadly Force	3	0	0	3
CIC	209	Law Enforcement Organization		100	77.1	
CJC	2400	and Administration	3.	Ω	Ω	.1
		and Administration	16	Ö	3	17
		TOTAL CREDIT HOURS	1.53	6.0		121
		TETTAL ERCENT PICACIS				1.70

BASIC LAW ENFORCEMENT TRAINING T-189

The Basic Law Enforcement Training curriculum certificate program prepares individuals to take the Basic Training Law Enforcement Officers certification examination mandated by the North Carolina Criminal Justice Education and Training Standards Commission and/or it prepares individuals to take the Justice Officers Basic Training certification examination mandated by the North Carolina Sheriffs' Education and Training Standards Commission. Successful completion of this curriculum certificate program requires that the student satisfy the minimum requirements for certification by the Criminal Justice Commission and/or the Sheriffs' Commission. The student satisfactorily completing this program should possess at least the minimum degree of general attributes, knowledge, and skills to function as an inexperienced law enforcement officer.

Job opportunities are available with state, county, and municipal governments in North Carolina. In addition, knowledge, skills, and abilities acquired in this course of study qualifies one for job opportunities with private enterprises in such areas as industrial, retail, and private security.

The following topics are examples of the topics offered in the Basic Law Enforcement Training Course.

Constitutional Law
Laws of Arrest, Search, Seizure
Mechanics of Arrest
Elements of Criminal Law
Defense Tactics
Juvenile Laws
Emergency Medical Training
Firearms
Patrol Techniques

Motor Vehicle Laws
Criminal Investigation
Deviant Behavior
ABC Laws
Controlled Substances
Traffic Accident Investigation
Driver Training
Testifying in Court
Crisis Management

Students who satisfactorily complete the Basic Law Enforcement Training Course may be given credit for CJC 203, CJC 205, CJC 207, and SAF 151 in the Criminal Justice Curriculum, T-129.

DRAFTING AND DESIGN ENGINEERING TECHNOLOGY T-043

The drafting and design engineering technology curriculum prepares technicians for drafting and/or designing mechanical parts, mechanisms and mechanical systems.

Emphasis is placed on developing the student's ability to think and plan as well as on the development of drafting and design skills. Computer Aided Drafting (CAD) and conventional equipment will be used to produce drawings such as sectional views, subassemblies and major components of machinery and mechanical systems.

Coursework includes the study of technical drafting and design, materials, applied mechanics, mechanical systems, manufacturing methods, manufacturing processes, applied physics, technical mathematics, descriptive geometry, computer applications and written and oral communications.

Drafting and design technicians are employed in many types of manufacturing, fabrication, research and development and service industries.

DRAFTING AND DESIGN ENGINEERING TECHNOLOGY T-043

FIRST C	QUARTER	Course Title	Class	Lab Hours	Credit
DFT	101	Engineering Drawing I	0	6	3
ISC	118	Industrial Safety	3	0	3
MAT	140	Intermediate Algebra	5	0	5
MEC	110	Machine Processes	3	3	4
ORI	100	Student Orientation Seminar	1	0	1
CHAI	100	District Contention Statement	12	9	1 16
SECON	D QUARTER				
DFT	102	Engineering Drawing II	0	6	3
MAT	151	College Algebra & Trigonometry I	5	.0	- 5
MEC	117	Industrial Material and Processes	3	3	4 4 16
MEC	112	Introduction to Manufacturing	3	3	а
Adding.			33	12	16
THIRD	QUARTER				1427
DET	103	Engineering Drawing III	0	0	3
MEC	119	Applied Metallurgy	3	3	4
DET	220	Computer Aided Drafting & Design I	2	.3.	3
MAT	152	College Algebra & Trigonometry II	- 5	0	
PHY	100	Principles of Technology	3	3.	1
747130			13	1.5	1.9

FOURT	H QUARTE	R			
PSY	260	General Psychology	5	0	5
DDF	201	Design Drafting I	2 2	0 6 3 9	4
DFT	221	Computer Aided Drafting & Design II	2	3	3
			9	9	12
FIFTH C	QUARTER				
ELC	205	Applied Electricity	3	3	4
ENG	1.51	Freshman Composition I	3	3 0 3 0	3
DET	211	Mechanisms	3	3	4
CAS	118	Computer Applications	9	3	3
PLA	220	Introduction to Plastics	3	n	3
			14	9	4 3 4 3 17
SIXTH 6	QUARTER				
ENG	152	Freshman Composition II	3	0	3
DDF	212	Jig and Fixture Design	3	3	4
HYD	235	Flydraulics and Pneumatics	3	0	3
MEC	113	Numerical Control Principles	3	3	4
		Social Science Elective	3	Ö	3
			3 3 3 3 15	0 3 0 3 0 6	3 4 3 4 3
SEVENT	H QUARTE	R			
ENG	153	Freshman Composition III	3	0	3
MEC	240	Computer Numerical Control	19	1977	- 3
		Programming	3	3	4 4 3
DDF	202	Design Drafting II	3 2 3	6	4
		Elective	3	0	3
		100 000000	11	9	1.4
EIGHTH	QUARTER				
ENG	170	Public Speaking	3	0	3
DFT	209	Industrial Systems Schematics	2	3	3
MEC	208	Machine Design	3 3	3	4
		Major Elective	3	0	3
			1.1	ο 3 3 Ω 6	3 4 3 13
		TOTAL CREDIT HOURS	130.10		124
					100

ELECTRONICS ENGINEERING TECHNOLOGY T-045

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

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



ELECTRONICS ENGINEERING TECHNOLOGY T-045

riner e		Course Title	Class	Lab	Shop	Credit
	QUARTER	DC and AC Evolutions to	Hours	Hours	Hours	Hours
ELC	100	DC and AC Fundamentals	5	4	3	0
ELN	110	Technical Documentation	2	0	3	3
ENG	151	Freshman Composition I	3	0	0	3
MAT	140	Intermediate Algebra	5	0	0	5
ORI	100	Freshman Orientation Seminar	16	0	0	20
SECON	D QUARTI	r.				
ELN	104	Semiconductor Circuits and				
	7.55	Applications	5	8	3	10
MAT	151	College Algebra &	44		.,	147
	****	Trigonometry I	5	0	0	25.
ENG	152	Freshman Composition II	3	ő	o	3
ELN	111	Fabrication Techniques	i			- 2
CEIN		rapheation recliniques	14	10	3 6	21
THIRD	QUARTER					
ELN	105	Semiconductor Control Devices	4	4	0	6
		Humanities Elective	3	0.	0	3
MAT	152	College Algebra &		970	77.0	7.
		Trigonometry II	5	0	0	- 5
ENG	154	Technical Report Writing	3	0	Q	3
		and the same	15	4	õ	5
trent man		-				
0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	H QUARTI		4	110		12/5/2
ELN	217	Linear Integrated Circuits	4	12	0	10
ENG	170	Public Speaking	3 7	Ω	Ω	3
			7	12	0	13
FIFTH C	UARTER					
ELN	207	Digital Electronics	5 2 3 3	6	3	1)
CAS	160	Microcomputer Applications	2	2	0	3
ECO	201	Principles of Economics	3	O	0	3
PHY	101	Technical Physics I	3	Ω	3.	4
			13	$\overline{0}$	6:	19
SIXTH (QUARTER					
ELN	208	Microprocessor Fundamentals	2	4	3	5
ELN	215	Industrial Electronics	9	4	3	5
CSC	227	"C" Programming	ã	2	Ö	4
BUS	201	Industrial Psychology	ă	Ô	0	- 9
PHY	102	Technical Physics II	2 3 3 2	Ω	ä	5 4 3
	1000	rectifical royales ii	13	10	9	21
SEVENT	H QUART	FR .				
ELN	209	Microprocessor Interfacing	9	4	3	5.
ELN	211	Analytic Troubleshooting	2 2	4	ő	4
1.11.4	60.1.1	Free Elective	4	ũ	Ω	3
		THE MINISTER	3	8	3	12
		TOTAL CREDIT HOURS			15	123
		1577L SHEDT HOORS				1.6.0



ELECTRONICS ENGINEERING TECHNOLOGY CERTIFICATE PROGRAM T-045 DESCRIPTION:

The Basic Electronics Certificate curriculum provides instruction in circuit theory and circuit analysis techniques as well as familiarization with the documentation and fabrication skills required to design, construct, and maintain all types of analog electronic equipment.

Basic	Electronics	Certificate	Credit Hours
ELC	100	DC and AC Fundamentals	8
ELN	110	Technical Documentation	3
ELN	104	Semiconductor Circuits & Applications	10
ELN	111	Fabrication Techniques	3
ELN	105	Semiconductor Control Devices	6
ELN	217	Linear Integrated Circuits	10
		Total Hours	10

The Digital Electronics Certificate curriculum provides advanced instruction in digital control circuits and in microprocessor interfacing applications.

Digital	Electron	nics Certificate	Credit Hours
ELN	207	Digital Electronics	9
ELN	208	Microprocessor Fundamentals	5
ELN	209	Microprocessor Interfacing	5.
		Total Hours	19



GENERAL TECHNOLOGY CURRICULUM CORE T-201

General Technology Curriculum Core is designed as a career mobility program for technical students to acquire the general education and related courses in subject areas such as humanities, communications, social sciences, and theoretical and applied sciences such as biology, chemistry, physics, mathematics, general computer studies and general graphics (drafting) that are foundation courses to specific curriculums in the technical field. After completion of this certificate curriculum the student has job skills for occupations requiring communications skills and/or science and mathematics. The student may take this program as the first level in a specific technical curriculum as an intended objective component of that technical curriculum. Students may also take this program for transfer to a technical curriculum at another community college system institution either prior to or concurrently with enrollment at the institution at which they intend to pursue or are pursuing a technical curriculum degree.

		Course Title	Class	Lab	Shop/ Clin	Credit
FIRST O	UARTER		Hours	Hours	Hours	Hours
11101.4	partition.	MAJOR COURSES RELATED COURSES	0	0	0	0
BIO	151	Principles of Biology I	3	3	0	4
CAS	160	Microcomputer Operations	2	2	0	3 5 9 21
MAT	150	Intermediate Algebra		0	0	5
191241	1,000	*Electives	9	0	O	9
		Totals	19	5	0	21
GENER/	AL EDUCA	TION		1001	00	100
ENG	151	Freshman Composition I	3	0	0	3 3 3 3 3
ENG	152	Freshman Composition II	3	0 0 0 0 0	0	3
ENG	153	Freshman Composition III	3	0	0	3
PSY	260	General Psychology	3	0	0 0 0	3
SOC	160	Introduction to Sociology	3	0	0	3
ENG	170	Public Speaking	7	Ω	Ω	3
	1000	Totals	18	0	0	1.8
ELECTIV	/ES		6	0	0	6
		TOTAL CREDITS				45

^{*}Related electives may be taken from curriculum of choice

INDUSTRIAL MANAGEMENT TECHNOLOGY T-049

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

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

INDUSTRIAL MANAGEMENT TECHNOLOGY T-049 (EVENING)

FIRST	QUARTER (Fa	dD	CLASS	LAB	CREDIT
ACC	210	Principles of Accounting I	3	2	4
BUS	100	Introduction to Business	3		3
CAS	101	Computer Applications and Concepts	i î	ŏ	3
ISC	121	Industrial Engineering Applications	0 0	ŏ	- 5
ORI	100	Student Orientation Seminar	- 7	ő	3
	100	and a serial ser	13	0 0 0 0 2	14
SECON	D QUARTER	(Winter)			
ACC	211	Principles of Accounting II	9	9	d
BUS	112	Business Finance	90	2	3
aus	201	Industrial Psychology	9	0	3
MAT	107	Mathematics Principles	- 3	0	3
	****	The state of the special state of the state	12	2	3 3 3 13
THIRD	QUARTER (S	pring)			
BUS	214	Principles of Management	3	0	3
BUS	216	Principles of Supervision	3	0	3
BUS	239	Business Mathematics	3	9	4
COL	100	Employment Seeking Skills	ï	0	1
70.70		Elective	- 1	0	. 7
			13	2 0 0 2	14
FOUR	TH QUARTER	(Summer)			
CAS	241	Lotus 1-2-3	3	2	4
		Elective	3	0	3
		Elective—Humanities	3	0	3
ENG	151	Freshman Composition 1	3	Ö	3
		3. CHOOL CO. C.	3 3 3 12	0 0 2	13
FIETH	QUARTER (Fa	dD			
BUS	225	Business Law	3	0	3
BUS	257	Applied Business Communications I	3 3	0	3
MKT	120	Marketing	3	0	3
V STORY	1000		9	0	9
			-	20.0	100

SIXTH (QUARTER (Winter)			
ECO	225	Business & Economic Statistics	3	0	3
ECO	250	Managerial Economics	3	0	3
ISC	111	Occupational Safety & Health	3	0 0 0	3 3
			9	0	9
SEVENT	H QUARTI	IR (Spring)			1120
BUS	217	Advanced Supervision	3	0 0 0 0	3
ISC	113	Statistical Quality Control	3 3 4	0	3
ISC	221	Production Planning & Management	3	O	3
140,000		Related Elective	4	Ω	A
			13	0	13
EIGHTI	1 QUARTE	R (Summer)			102
BUS	218	Wage & Salary Administration	3	0	3
ECO	261	Labor Economics	3	0 0 0 0	3 3 3 12
ENG	152	Freshman Composition II	3	0	3
ENG	170	Public Speaking	3.	Ω	3
M1.5 M	7,7,770	CONTRACTOR OF ACTOR OF THE	12	0	12
NINTH	QUARTER	(Fall)			
BUS	224	Human Resource Management	3	0 0 0 0	3
BUS	260	Leadership Development	3	0	3
BUS	170	Business & Social Environment	3.	0	3
ENG	153	Freshman Composition III	3	Ω	77
			12	0	1.2
		TOTAL CREDIT HOURS			109

INDUSTRIAL MANAGEMENT TECHNOLOGY CERTIFICATE T-049

			Credit Hours
BUS	201	Industrial Psychology	3
BUS	214	Principles of Management	3
BUS	216	Principles of Supervision	3
BUS	239	Business Mathematics	4
BUS	257	Applied Business Communications I	3
CAS	101	Computer Applications & Concepts	3
100	0.000	Elective	2
ENG	151	Freshman Composition 1	3
ENG	152	Freshman Composition II	3
ISC	111	Occupational Safety and Health	3
ISC	113	Statistical Quality Control	3
ISC	221	Production Planning and Management	2

Any course with a grade of below "C" cannot be applied toward the certificate.

TOTAL CREDIT HOURS

INSURANCE TECHNICAL SPECIALTY T-229

The purpose of this curriculum is to provide the courses to meet the education requirements for state licensing examinations for agents in selected areas such as Life, Accident and Health; Accident and Health; Medicare Supplement/LongTerm Care; Fire and Casualty; National Association of Security Dealers; and Adjusters.

An additional purpose of the curriculum is to provide the first of a series of preparatory courses for sitting for examinations that are nationally recognized designations. The nationally recognized designations may include those such as Chartered Life Underwriter (CLU), Chartered Financial Consultant (ChFC), Chartered Property and Casualty Underwriter (CPCU), Life Underwriter Training Council Fellow (LUTCF), Fellow Life Management Institute (FLMI), Certified Employee Benefit Specialist (CEBS), and Agency Management Training Course (AMTC).

Employment opportunities may be found in insurance companies, insurance agencies, banks, savings and loans, credit unions, stock brokerage firms, auto dealerships, real estate firms, independent adjusting companies, and human resource divisions in business establishments.

INSURANCE TECHNICAL SPECIALTY T-229

FIRST OU	JARTER (FAI	Course Title	Class	Lab	Credit
INS	273	Life, Accident and Health	1.5500.0		
		Insurance	4	0	4
INS	274 275	Property and Liability Insurance Medicare Supplement and	4	0	4
		Long-Term Care	$\frac{1}{9}$	0	$\frac{1}{9}$
SECOND INS	QUARTER 278	Personal Risk Management and			
1002	222	Insurance II - CLU	4	0	4
INS	280	Income Taxation - CLU	40	0	8
		TOTAL HOURS			17

MARKETING AND RETAILING T-020

The Marketing and Retailing curriculum is designed to prepare the individual for entry into middle-management positions in various marketing and retailing businesses and industries. This purpose will be fulfilled through study and application in areas such as marketing and merchandising techniques, management, selling, advertising, retailing, and credit and collection procedures.

Through knowledge and skills, the individual will be able to perform marketing and distribution activities and through the development of personal competencies and qualities will be provided the opportunity to enter an array of marketing and distribution jobs.

MARKETING AND RETAILING T-020 (DAY)

		Course Title	Class	Lab	Credit
FIRST Q	LIARTER (F	ALL)	Hours	Hours	Hours
MKT	120	Marketing	3	0	3
BUS	100	Introduction to Business	3	0	3
OSC	101	Keyboarding/Document Formatting I	2	3	3
MAT	107	Mathematics Principles	3	0 2	3
ACC	210	Principles of Accounting I	3		4
COL	100	Employment Seeking Skills	1	0	1
ORI	100	Student Orientation Seminar	1	0 5	18
1,300,000			16	5	18
SECON	D QUARTE	R (WINTER)			
*MKT	121	Retailing	3	()	3
MKT	243	Advertising	3	()	3
BUS	112	Business Finance	3	0	3
ACC	211	Principles of Accounting II	3	0 0 2 2	3 4 4 4 20
BUS	239	Business Mathematics	3	2	4
BUS	201	Industrial Psychology	3	Ω	3.
	200		18	4	20
THIRD	QUARTER	(SPRING)			
MKT	132	Sales Development	3	0	3
ACC	212	Principles of Accounting III	3	0 2 0 0	4
BUS	214	Principles of Management	3	0	3
0.00		Related Elective	3	0	3
ENG	151	Freshman Composition I	3	0	4 3 3 3 3 19
BUS	101	Professional Development	3	0 2	3.
77.77	477		18	2	19
FOURT	H QUARTE	R (FALI)			
BUS	225	Business Law	3	0	3
BUS	257	Applied Business Communications	3	0	3 3
ECO	201	Principles of Economics	3	0	3
CAS	101	Computer Applications and	0		
40	1,000	Concepts	3	0	3
CAS	241	Lotus 1-2-3	3	2	4
		Related Elective	3.	0	3 4 3
		Commentation (And Memory Comme	18	2	19

FIFTH C	QUARTER (V	WINTER)			
*MKT	249	Buying and Merchandising	3	0	3
BUS	226	Business Law	3	0	3
ECO	202	Principles of Economics	3	0	3
ENG	152	Freshman Composition II	3	0	3
ENG	170	Public Speaking	3	0	3
101.17.100.		Elective—Humanities	3	0	3
			1.0	0	16
SIXTH 6	QUARTER (S	SPRING)			
*MKT	260	Commercial Display and Design	2	3	3
BUS	216	Principles of Supervision	3	0	3
*BUS	223	Credit Procedures and Problems	3	Ö.	3
BUS	260	Leadership Development	3	Ö	3
ENG	153	Freshman Composition III	3	0	3
	1 97 95	Elective	3	Ö	3
		0.000	19	3	18
		TOTAL CREDIT HOURS	100		112

^{*}Major courses are offered only when there is sufficient enrollment.

MECHANICAL ENGINEERING TECHNOLOGY T-051

The Mechanical Engineering Technology curriculum prepares technicians to assist engineers in the design and development of machinery and other mechanical equipment and parts and to perform other activities which require technical knowledge of factors such as tolerances, stresses, strains, friction and vibration. The scope of subject matter covered prepares the graduate for employment in greatly diversified branches of the mechanical field.

The graduate may wish to work with testing experimental machinery and equipment and analyzing the results. Typical of such devices are internal combustion engines, steam turbines, jet and rocket engines, nuclear reactors, refrigeration and air conditioning equipment, missiles, spacecraft, marine equipment, motor vehicles, railroad equipment and machines for specialized industries such as textile mills. Another specialty area graduates may wish to pursue is that of the tool designer. Tool designers design tools and devices for the mass production of manufactured articles. They may also work with the instrumentation and design of machine tools or in equipping plants or mills which require special construction to accommodate power-producing or transmitting machinery.



MECHANICAL ENGINEERING TECHNOLOGY T-051

9200000	000000000	Course Title	Class	Lab	Credit
	QUARTER		Hours	Hours	Hours
MEC	101	Manufacturing Processes 1	3	9	6
MAT	140	Intermediate Algebra	3	0	5
ISC	118	Industrial Safety	3	0	3
ORI	100	Student Orientation Seminar	1.	Ω	1.
			12	9	15
SECON	D QUARTER				
MEC	102	Manufacturing Processes II	3	9	6
DET	101	Engineering Drawing I	0	6	3
MAT	151	College Algebra & Trigonometry I	5	0	5
MEC	117	Industrial Materials & Processes	2	3	4
			13	18	6 3 5 4 18
THIRD	QUARTER				
MEC	103	Manufacturing Processes III	3	9	6
DFT	102	Engineering Drawing II	0	6	6
MEC	119	Applied Metallurgy	3	3	4
MAT	152	College Algebra & Trigonometry II	5	Q	4 5
			11	1.8	18
FOURT	H QUARTER				
MEC	104	Manufacturing Processes IV	3	9	6
PLA	220	Introduction to Plastics	3	0	3
4 64 4	M M 12	Social Science Elective	3	0	3
		Humanities Elective	3.	Ď.	3
			12	9	6 3 3 15
ERETH O	QUARTER				
ELC	205	Applied Electricity		3	A
PHY	101	Technical Physics I	3	ä	A.
ENG	151	Freshman Composition I	9	6	4
CAS	110	Computer Applications	5	3	ň
		Free Elective	â	Ď.	4
		The electro	3 3 2 3 14	9	4 3 3 3 17
CIVTH	QUARTER				
MEC		Numerical Control Bringinias	- 4	9	4
PHY	113	Numerical Control Principles	3	3	7
ENG	152	Technical Physics II Freshman Composition II	3	Ö	2
HYD	235	Hydraulics and Pneumatics	3		4 4 3 3
Title	2.30	riyorauncs and rheomatics	3 3 3 3 12	Ω 6	14
			1.6	59	1.4
	H QUARTER				140
ENG	153	Freshman Composition III	3	0	3
MEC	204	Applied Mechanics	5	0	5
MEC	240	Computer Numerical Control Programming	3	3	4
DET	220	Computer Aided Drafting and			
		Design I	2	3	λ
			13:	6	13
псыт	I QUARTER				
MEC	200	Machine Design	3	3	A
MEC	205	Strength of Materials	5	ő	15
ENG	170	Public Speaking	9	ő	3
ISC	236	Manufacturing Quality Control	3	Ö	3
10.00	40.00		3 5 3 2	Ω 3	4 5 3 3 15 127
		TOTAL CREDIT HOURS	500	10	127

MICROCOMPUTER SYSTEMS TECHNOLOGY T-192

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

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



MICROCOMPUTER SYSTEMS TECHNOLOGY T-192 (Day)

FIRST C	QUARTER (F		CLASS	LAB	CREDIT
CAS	160	Microcomputer Operating Systems	2	2	3
CAS	214	Microsoft Windows	3	0	3
CSC	106	Principles of Problem Solving	3	2	4
*MAT	107	Mathematics Principles	3	0	3
CORT	100	Student Orientation Seminar	ï	0	1
OSC	101	Keyboarding/Document Formatting I	2	ä	i i
47040	1.00	responsing cocurrent remaining r	14	7	17
SECON	D QUARTE	R (Winter)			
*BUS	239	Business Mathematics	3	2	4
CAS	101	Computer Applications and Concepts		õ	3
1000	1000	Word Processing Requirement	3	2 2 0	4
		Spreadsheet Requirement	3	5	4
COE	100	Employment Seeking Skills	î	6	
	100000000000000000000000000000000000000	Proje Programme Seeking Skins		0	1
CSC	210	Basic Programming	3	2	A
			16	8	20
THIRD	QUARTER (Spring)			
		Advanced Spreadsheet Requirement Advanced Word Processing	3	2	4
		Requirement	3	2	4
CAS	212	PC Installation and Maintenance		2	4
ENG	151	Freshman Composition I	3 3 3	0	3
200,000	10000	Related Elective	3	Ω	ä
		monitor preserve	13	6	18
ment inter		v et - 10	100	172	W
	H QUARTEI	C (Pall)			
ACC	210	Principles of Accounting I	3	2	4
BUS	257	Applied Business Communications I	3	0	3
CAS	240	Systems Analysis	3	0	4
CAS	250	Computer Training & Support	3	0	3
CAS	255	Data Communications	3	2	4
		Related Elective	3.	Ω	. 3
			18	6	21
FIFTH C	UARTER (V	Vinter)			
ACC	211	Principles of Accounting II	3	9	4
CAS	208	Desktop Publishing	ii .	2 2	4
CAS	252	DBASE	3 3 3 3	2	4
CAS	261	Networking Fundamentals		ő	
400	201		2		3
ED VET	****	Economics Elective	3	0	3
ENG	152	Freshman Composition II	3	Ω	3.
			18	6	21
	QUARTER (S				
ACC	242	Computerized Accounting	3	2	4
CAS	253	Advanced DBASE	3	2	4
		Elective	3	0	3
		Elective—Humanities	3	Ö	3
ENG	153	Freshman Composition III		o	1
ENG	170	Public Speaking	3	ŭ	3 3 3
21,3 (4)	3.8.46	. more abreading	18	4	
		TOTAL CREDIT HOURS	10		20
		TOTAL CREDIT FIGURE			117

^{*}Student may elect MAT 150/MAT 151 or MAT 151/MAT 152 in lieu of MAT 107/BUS 239.

MICROCOMPUTER SYSTEMS TECHNOLOGY T-192 (Evening)

FIRST O	UARTER (falD	CLASS	LAB	CREDIT
CAS	101	Computer Applications and			
70.00	0.000	Concepts	3	0	3
CAS	160	Microcomputer Operating Systems	2	2	3
CSC	106	Principles of Problem Solving	3	0	4
ORI	100	Student Orientation Seminar	3	Ö	1
OSC	101	Keyboarding/Document Formatting I	2	3	3
OSC	101	Reyudarding/Document romaining (10	7	14
SECONI	D QUARTE	R (Winter)			
		Word Processing Requirement	3	2	4
CAS	214	Microsoft Windows	3	2 0 2 2	3
400	600	Spreadsheet Requirement	3	2	4
CSC	210	BASIC Programming	3	2	4
	210	acac rioganing	3 3 3 12	6	15
THURD	QUARTER	(Spring)			
		Advanced Spreadsheet Requirement Advanced Word Processing	3	2	4
		Requirement	3	2	4
		Related Elective	3	0	3
*MAT	107	Mathematics Principles	3.	Ω	3
-14101	100	7441	12	. 4	14
FOURT	H QUARTI	R (Summer)			9
*BUS	239	Business Mathematics	3	2	4
COL	100	Employment Seeking Skills	3 3 3	0	3 3
	100	Related Elective	3	0	3
		Elective—Humanities	3	Ω	3
		LIGHT THE TAXABLE PROPERTY.	10	2	11
пети с	DUARTER	(Fall)			
ENG	151	Freshman Composition I	3	0	3
CAS	240	Systems Analysis	3	2	4
CAS	250	Computer Training and Support	3	2 0 2	3
CAS	285	Data Communications	3	2	4
LAS.	200	Data Communications	12	4	3 4 3 4 14
SIXTH	QUARTER	(Winter)			
ACC	210	Principles of Accounting I	3	2 2	4
CAS	208	Desktop Publishing	3	2	4
CAS	252	DBASE	3	2	4 3
CAS	261	Networking Fundamentals	3	Ω	3
CAS	201	rectworking rundamentals	3 3 3 12	6	15
SEVEN	TH QUART	TER (Spring)			
ACC	211	Principles of Accounting II	3	2	4
CAS	253	Advanced DBASE	3	2	4
	BOOK 1001 1911	PC Installation and Maintenance	3	9	4
CAS	212		3 3 3	2 2 2 0	3
ENG	152	Freshman Composition II	1.73	6	1.5
			190	0	1.0

EIGHTI	H QUARTE	t (Summer)			
ACC	242	Computerized Accounting Elective	3	2	4 3
ENG	170	Public Speaking	9	2	10
NINTH	QUARTER	(FAII)			
		Economics Elective	3	0	3
BUS	257	Applied Business Communications I	3	0	3
ENG	153	Freshman Composition III	3.	0	3
		TOTAL CREDIT HOURS	9	0	117

^{*}Student may elect MAT 150/MAT 151 or MAT 151/MAT 152 in lieu of MAT 107/BUS 239.

RADIO AND TV BROADCASTING TECHNOLOGY T-179

Students enrolled in the Radio and TV Broadcasting Technology curriculum have a variety of careers from which to choose. They learn to speak well on microphone and on camera with and without scripts. They learn how to operate the camera, run the audio control board and direct the whole program. Courses in the curriculum also teach students the legal aspects of broadcasting, how to manage a broadcast operation, how to troubleshoot equipment, and how to write and produce both audio and video programming. Technical courses included are designed to give students an understanding of electronics and broadcast equipment.

Upon completion they are well prepared to write, produce, perform and direct production. They can also function as technicians and have an understanding of how their equipment works.

Graduates of the curriculum may find employment in radio or television stations, cable TV companies, public relations and advertising agencies, recording studios, production houses, and industrial or educational media.

Program Director

Music Director Music Librarian Production Manager Production Assistant

Copy Writer Producer Director

Audio Engineer Traffic Director

Traffic Assistant

Public Service Director

Announcer Reporter Newswriter Newscaster

Camera Operator Floor Manager Technical Director Account Executive Videotape Operator

Media Coordinator

A certificate in Radio and TV Broadcasting may be obtained by taking a total of 75 hours consisting of:

RTV 116, 201, 203, 204, 205, 206, 208, 211, 212, 218, 221, 223, 226, 227

ENG 151, 152, 170

OSC 101, CAS 118, MKT 210

RADIO AND TV BROADCASTING TECHNOLOGY T-179

riner o		Course Title	Class	tab	Credit
	LUARTER	Market State of the Control of the C	Hours	Hours	Hours
OSC	101	Keyboarding/Document Formatting I	2	3	3
RTV	201	Introduction to Broadcasting	5	0	5 5 3
RTV	203	Expression in the Media	5	0	5
ENG	151	Freshman Composition I	3	0	3
ORI	100	Student Orientation Seminar	16	0 3	17
SECONI	D QUARTER		7477	110	
RTV	204	Audio Production I	3	0	9
RTV	206	Writing for Broadcasting	4	2	7 4 7 1
5705075	V 200 300 300 V		3 5	á	7
RTV	220	Introduction to TV Systems	9		
ENG	152	Freshman Composition II	14	14	21
THIRD	QUARTER				
RTV	116	Broadcasting Announcing	3	3	4
RTV	222	Industrial/Instructional TV	Ä	ő	4
MAT	111	Technical Mathematics	9	ő	4 3 6
RTV	208	Audio Production II	5	8	6
MIV	200	Addid Froduction ii	3 2 12	13	17
FOURT	1 QUARTER				
		Elective/Humanities	3	0	3
RTV	207	Video Production I	3	8	7
RTV	205	Broadcast Programming	3.	0	3
			9	8	13
FIFTH C	DUARTER				
RTV	209	Video Production II	2	B	6
RTV	211	Broadcast Journalism	3	6	6
ELC	205	Applied Electricity	2 3 3	3	4
BUS	257	Applied Business Communications I	2	Ω	3.
	2000		11	17	19
SIXTH C	UARTER				
		Elective/Social Science	3	0	3 5 2 3
ENG	170	Public Speaking	3	0	3
PSY	260	General Psychology	5	0	- 8
RTV	226	Supervised Work Experience I	1	10	2
CAS	118	Computer Applications	2	3	3
MKT	210	Advertising, Sales and Promotion	3 5 1 2 3	13	. 4
			17	15	20
	H QUARTER				8
RTV	212	Broadcast Operations	3 3 3	0	- 3
RTV	223	Broadcasting Management	3	0	3
RTV	218	Broadcast Law	3	0	3
RTV	221	Troubleshooting Broadcast			
BETT !	222	Equipment	2	3	3 2
RTV	227	Supervised Work Experience II		10	
		Free Elective	15	Ω	3
		TOTAL CHEST LICELING	15	13	17
		TOTAL CREDIT HOURS			124

RADIO AND TV BROADCASTING CERTIFICATE PROGRAM T-179

The Radio and Television curriculum is designed to offer the student the opportunity to acquire basic skills and the related technical information necessary to gain employment in the non-technical areas of professional broadcasting.

The program of study provides the students with sufficient training to perform such duties as announcing, advertising sales, copy writing, commercial and program production, studio and control room equipment operation, traffic and log maintenance, news gathering, writing and reporting. The graduate will find employment in the broadcasting industry.

FURST C	DUARTER	Course Title	Class	Lab Hours	Credit Hours
RTV	116	Broadcasting Announcing	3	3	4
RTV	201	Introduction to Broadcasting	5	0	5
RTV	203	Expression in the Media	8	Ö	5
RTV	204	Audio Production I	3	Ä	7
RTV	205	Broadcast Programming	3	Ö	3
RTV	206	Writing for Broadcasting	3	2	4
RTV	208	Audio Production II	5	B	6
	211	Broadcast Journalism	â	6	4 6 6 3 3
RTV			- 4	ő	3
RTV	212	Broadcast Operations	- 4	ő	Ä
RTV	218	Broadcast Law			
RTV	221	Troubleshooting Broadcast	9	9	34
minera a	10.15.16	Equipment	9	0	3 2 2 3
RTV	223	Broadcasting Management	7	10	2
RTV	226	Supervised Work Experience I	1	10	2
RTV	227	Supervised Work Experience II	4	100	5
OSC	101	Keyboarding Document Formatting I	2	2	2
MKT	210	Advertising, Sales and Promotion		2	2
CAS	118	Computer Applications	2	3	3
ENG	151	Freshman Composition I	3	0	3
ENG	152	Freshman Composition II	3	0	3
ENG	170	Public Speaking	3	0	3
		TOTAL CREDIT HOURS			25

REAL ESTATE TECHNICAL SPECIALTY T-166

		Course Title		Class	Lab	Credit
FIRST QU		Oracl Estate	Mark	Hours	Hours	Hours
RLS RLS	121	Real Estate	Fundamentals	6	ő	6
RLS	230	Real Litate	rundamentars	9	ő	9
man and 100 to 1 to 100	QUARTER	21.22.00	Q2-004-000900-0	140		- 4
RLS	122	Real Estate		3	0	3
RLS	231	Real Estate		3	ő	3
RLS	238	Real Estate	Lary	9	ő	9

TEACHER ASSOCIATE T-088

The Teacher Associate curriculum is designed to prepare individuals to work in learning environments for children in kindergarten through middle childhood. The program of study includes such subjects as child growth and development, foundations of education, and materials and methods for implementing the public school curriculum. Students work under the supervision of the classroom teacher to perform general instructional, clerical or tutorial duties. The program of study combines theories and principles with supervised practice.

Graduates are prepared to work in public and private schools as assistants to the classroom teachers.

TEACHER ASSOCIATE T-088

	TEACHER ASSOCIATE 1000					Quarter
			100		r Week	Hours
	Secretary and second		Class	Lab	Clinical	Credit
	QUARTE		100	2000		
PSY	115	Child Growth and Development I	3	0	0	3
EDU	101	Foundations in Childhood Education	3	0	0	3
ENG	151	Freshman Composition I	3 5	0	0	3 5 3 1 18
PSY	260	General Psychology	. 5	0	0	5
SAF	151	First Aid/Community CPR	3	Ω Ω	ο Ω ο	3
ORI	100	Student Orientation Seminar	1	Ω	Ω	1
			18	0	0	18
SECO	ND QUA	RTER				
PSY	116	Child Growth and Development II	3	0	0	3
EDU	103	Teacher Associate Principles and	000	7		
		Practices	3	0	0	3
SOC	160	Introduction to Sociology	5 3	0	0	3 5 3
ENG	152	Freshman Composition II	3	0	0	3
COL	254	Practicum	0	()	10	1
EDU	244	Seminar I: School Age Environment	1	Ö	0	i
		Mathematics Elective	3	0	0	3
		3 - 100 (100 (100 (100 (100 (100 (100 (10	1 1 18	00000	10	19
THIRD	QUART	ER				
PSY	117	Child Growth and Development III	3	0	0	4
EDU.	122	Child Health, Safety, and Nutrition		Ö	0	Ä
EDU	125	Creative Activities in Early Childhood	4 5 3	0	3	3 4 6 3
ELECTION .	1 80.07	Humanities Elective	- 4	O	n n	4
ENG	153	Freshman Composition III	i	Ω	0	- 4
1140	155	realman composition in	10	Ö	0 0 0 3	19
rear m	TH QUAI	eren.				
EDU	205	Behavior Management	3	0	0	-
EDU	228	Math Methods & Materials for	3	O	0	- 0
LUC	220	Children	2	3	0	3
EDU	225	Working with Children with	(5)			- 5
		Special Needs	5	3	0	6
		Related Elective	3	0	0	3
		Free Elective	5 3 3	3 0 0	0 0 0	3
		(3) (5) (7) (3) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	16	6	0	18
			19907	(7)	1574	0.000

FIFTH	QUARTER	PART BY THE VEHICLE SECTION				
EDU	216	Communication Activities in Early		0	3	6
		Childhood	10		.3	
EDU	223	Working with the Child's Family and	4	0	0	3
eeu.	220	Community Reading and Writing Methods and		9		
EDU	229	Materials for Children	2	3	0	3
eren e	200		2	3	10	1
COL	255	Practicum			10	
EDU	245	Seminar II: Special Needs	4		45	
		Environment	1	0	O	(1)
		Related Elective	3	0	0	- 0.
		Science Elective	3	Q	0 0 0 13	1
			17	3	1.3	3 1 20
SIXTH	QUARTE					
EDU	233	Curriculum Principles in Elementary	1			
	400	School	8	0	0	5
ENG	170	Public Speaking	3	0	0	3
EDU	217	Exploration Activities in Early				
7.57		Childhood	5	0 0 0	3 20	6 2 2 18
COL	256	Practicum	()	0	20	2
EDU	246	Seminar III	2	0	0	2
	20.40		15	Ö	<u>0</u> 23	1.8
		TOTAL CREDIT HOURS	***	1		112

VOCATIONAL PROGRAMS

Vocational Programs

Isothermal Community College offers various programs in the professions and trades which require from one to four quarters to complete. Students may earn either a diploma or certificate depending upon their choice of program. All students, regardless of program, must complete the following requirements for graduation:

- A minimum of 2.0 grade point average.
- All specifically designated courses in each program must be taken. These may be found in the program outlines in the following section.
- A Certificate of Achievement may be obtained through the day and/or evening programs by completing the designated courses in the outlines in the certificate section. The student must apply to the Registrar's Office for this certificate.

The Vocational Programs offered are:

V001 Automotive Body Repair	V018 Electrical Installation
V003 Automotive Mechanics	V032 Machinist
V067 Child Care Worker	V/02.0 Practical blurging

V067 Child Care Worker V038 Practical Nursing V009 Cosmetology V050 Welding

AUTOMOTIVE BODY REPAIR V-001

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

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

AUTOMOTIVE BODY REPAIR V-001

		Course Title	Class	Lab	Credit
FIRST Q	UARTER		Hours	Hours	Hours
AUT	1120	Auto Body Repair I	4	0	4
AUT	1130	Auto Body Repair Shop I	0	15	8
WLD	1123	Auto Body Weldingi	2	6	4
MAT	1101	Math Fundamentals	3	Ω	3.
			9	21	16

SECON	D QUARTER				
AUT	1121	Auto Body Repair II	4	0	4
AUT	1131	Auto Body Repair Shop II	0	15	5
WLD	1124	Auto Body Welding II	2	6	4
AUT	1106	Automotive Wiring	0 2 2 8	6 6 27	4
THIRD	QUARTER				**
AUT	1122	Auto Body Repair III	4	0	4
AUT	1132	Auto Body Repair Shop III	O	15	5
PHY	100	Principles of Technology	3	3	4
AUT	1124	Painting Materials & Practice	3 5 12	3 3 21	4 5 4 6
FOURT	H QUARTER		17	700	193
AUT	1123	Auto Body Repair IV	4	0	4
AUT	1133	Auto Body Repair Shop IV		1.5	- 5
ENG	1101	Communication Skills	3	0	3
PSY	1100	Human Relations	0 3 3	0	5 3 3
	1100	7.4411411	10	15	15 67
		TOTAL CREDIT HOURS			67
		AUTOMOTIVE BODY R CERTIFICATE V-001	EPAIR		
FIRST C	DUARTER				
AUT	1201	Auto Body Repair I	2	15	7
SECON	D QUARTER		12		2
AUT	1202	Auto Body Repair II	2	15	7
THIRD	QUARTER	NATIONAL SAME WATER OF THE SAME OF	1.00		
AUT	1203	Auto Body Repair III	2	15	7
FOURT	H QUARTER	200 200 00 00 00 00 00 00 00 00 00 00 00			94
AUT	1204	Auto Body Repair IV	2	15	7



AUTOMOTIVE MECHANICS V-003

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

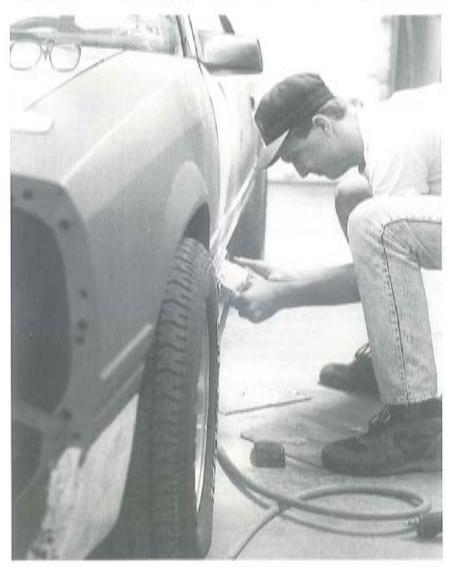
Automobile mechanics maintain and repair mechanical, electrical and body parts of passenger cars, trucks and buses. In some communities and rural areas they also may service tractors or marine engines and other gasoline-powered equipment. Mechanics inspect and test to determine the causes of faulty operation.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

AUTOMOTIVE MECHANICS V-003

riner c	N. IA BEREIR	Course Title	Class	Lab	Creat
	CARTER		Hours	Hours	Hours
AUT	1101	Automotive Engine, Electrical Fuel			
		Systems	2	15	7
AUT	1111	Automotive Schematics and Diagrams	2	3	3
AUT	1118	Automotive Problems	3	3	4
MAT	1101	Math Fundamentals	3	O	3
	311755		10	21	3 3 17
SECON	D QUARTER		1.67		3,40
AUT	1102	Automotive Brakes, Chassis and			
1 100	11000	Suspension	2	15	7
AUT	1112	Automotive Schematics and	4	1.0	
CMC1	1.116				
		Diagrams: Power Mechanics			64
		(Electrical and Fuel Systems)	6	A	4
MAT	111	Technical Math	3	0	3
AUT	1126	Automobile Servicing I	2 3 1 8	21	3 2 15
			.03	21	1.5
	QUARTER				
AUT	1103	Automotive Internal Combustion			
		Engines	2	15	7
AUT	1113	Automotive Schematics and Diagrams	2	15	7 2 4 15
BUS	1100	Small Business Operations	9	Ö	9
PHY	100	Principles of Technology	3	0 3 21	ä
1000	1,000	,	0	23	1.5
FOURT	H QUARTER		0	A 1	10
AUT	1104	Automotive Power Train Systems	0	4.6	16
PSY	1100	Human Relations	6	15	6
DOLLARS POLICE	1, 6, 70, 70	TO THE PROPERTY AND A STATE CONTROL OF THE PROPERTY OF THE PRO		0	3
ENG	1101	Communication Skills	3	0	38
AUT	1125	Automotive Air Conditioning	7		a.
		5 W. T. C. G. B. S. C.	11	18	17
		TOTAL CREDIT HOURS			64

AUTOMOTIVE MECHANICS CERTIFICATE V-003

FIRST O	UARTER	Course Title	Class Hours	Lab Hours	Credit Hours
AUT	1101	Automotive Engine, Electrical Fuel Systems	2	1.5	7
AUT AUT	QUARTER 1102	Automotive Brakes, Chassis and Suspension	2	5	7
AUT	QUARTER 1103	Automotive Internal Combustion Engines	2	15	7
FOURTI AUT	1104	Automotive Power Train Systems	2	15	7



CHILD CARE WORKER V-067

The Child Care Worker curriculum prepares individuals to work as assistants with early childhood specialists in day care centers, nursery schools, kindergartens, child development centers, hospitals, institutions, camps and recreation centers. This curriculum provides course work to meet the requirements for entry level employment and upgrading or retraining of staff in child care facilities.

Instruction includes theory and application in child care, growth and development of children, behavior patterns of children, health practices and how to deal with the emotional and physical problems of children.

CHILD CARE WORKER V-067

FIRST C	DUARTER	Course Title	Class	Lab	Credit
PSY	115	Child Growth and Development I	3	0	3
EDU	107	Child Administration, Supervision and			
	1,2000	Standards	- 5	A	7
SAF	151	First Aid/Community CPR	N.	o	i i
EDU	104	Child Care Credential I	ă.	ő	3
COL	250	Practicum	ő	10	1
EDU	240	Seminar I	3 0 1	Ω	3 1 1
			15	14	18
SECON	D QUARTER	E POMO POR EL POR ENTRE DE CARTO CARTO MA			
PSY	116	Child Growth and Development II	3	0	3
MAT	1101	Math Fundamentals	3 3 3	0	3 3
EDU	105	Child Care Credential II	3	0	3
EDU	216	Communication Activities in Early	100		
	7,000	Childhood	15	3	6
COL	251	Practicum	5 0 1	10	6 1
EDU	241	Seminar II	ĭ	0	i
			1.5	13	17
THURS	QUARTER				
PED	242	Physical Activities for Children	2 -	-	-
EDU	122	Child Health, Safety and Nutrition	4	3	3 4
EDU	125			3	6
EDU	217	Creative Activities in Early Childhood	0	3	0
ELF	217	Exploration Activities in Early Childhood			
EDU	242	Seminar III	5	3	1
1 Care about Laws		97707.1.117.1177., (1.1.)			1
COE	252	Internship	17	10	21
			1.6	19	21
	H QUARTER				
ENG	151	Freshman Composition I or	3	0	3
ENG	1101	Communication Skills			
EDU	213	Children's Literature	5	0	5
EDU	225	Working with Children with	17.	8	17/1
10,747	(42),333	Special Needs	5.	3	6
			13	3	1.4
		TOTAL CREDIT HOURS			70
		CONTROL OF STATE OF S			17.77

COSMETOLOGY V-009

Modern Cosmetology is a highly specialized career field involving the use of cosmetics based on scientific principles. The Cosmetologist performs a variety of functions in providing beauty services for customers. He or she is called upon to advise and provide services to men and women concerning make-up, care and treatment of the hair, skin, and hands, including the nails, and also in matters of diet. Accordingly, the Cosmetology curriculum is designed to prepare the student to enter employment and progress in this field. The curriculum provides instruction and practice in manicuring, shampooing, permanent waving, facials, hair pressing, massages, scalp treatments, hair cutting, coloring, and styling. The Cosmetology student is also involved in a continuous program of related study which includes grooming, hygiene, professional ethics, anatomy, related chemistry, skin and scalp disorders, and the other phases of cosmetic art.

The curriculum is approved by the North Carolina State Board of Cosmetic Art examiners. The Cosmetology Program provides 1500 hours of supervised instruction and practice.

All students desiring to graduate from the cosmetology program must successfully complete the program of studies attaining 1500 hours of instruction for advanced diploma and 1200 hours of instruction for diploma in addition to the College's Graduation Requirements. Students may enter this program any quarter.

Students registering for Cosmetology are required to take the following courses listed in the curriculum before graduation. Six hours of general courses, Psychology, Art, and English; six hours of related courses, Small Business Management and Trichology and Hair Chemistry; and 67 credit hours of major courses for day, afternoon, and evening students for advanced diploma and 59 credit hours of major courses, 6 general, and 6 related courses are required for a diploma. Isothermal Cosmetology is an approved Pivot Point member school, 1985, and a Redken SES school, (Scientific Educational System) 1986. Isothermal adopted the Pivot Point Scientific Approach to Hair Design and Redken SES Systems to update and standardize the program and to give the students the best education possible. Isothermal is the second community college and one of 250 private colleges in the nation offering the Pivot Point Educational System.

COSMETOLOGY CURRICULUM (V-009) (Day Program for Diploma and Advanced Diploma)

JARTER 1001 1011	Introduction to Consecution	Theory			Credit
1001	Intenduction to Consectation		Lab	Clinical	Hours
1011	Introduction to Cosmetology	5	0	0	5
	Mannequin Practice	2	0	21	9
1100	Human Relations	2	Ω	O	3.
		10	0	21	17
QUARTE					
1002		-5	0	0	5
C 100 (80) (80)		2	0	21	9
1101	Communication Skills	3	Ω	Ω	5 9 3 17
		10	0	21	17
	Cosmetology Theory II	5	0	0	5
1.71.795,103.365	Cosmetology Skills II	2	0		9
1101	Math Fundamentals	.3	Ω	0	5 9 17
1997		10	0	21	17
0.50,50,10	Cosmetology Theory III	5		.0	5
0.00.0		2	O	21	5 9 3
147	Small Business Management		Ω	Ω	3
	TOTAL .			21	17
	TOTAL	40	9	04	68
	TOTAL CREDIT HOURS				68
OSMETOI	OGY CONTACT HOURS		1364		
JARTER (Dotlenal)				
1055		3	0	22	10
1100	Art Awareness	2			2
		5			12
D DIPLO	MA TOTAL	45	Ö	106	80
	QUARTE 1002 1022 1101 UARTER 1003 1033 1101 QUARTE 1004 1044 147 OSMETOR 1085 1100	1002 Cosmetology Theory I 1022 Cosmetology Skills I 1101 Communication Skills UARTER 1003 Cosmetology Theory II 1033 Cosmetology Skills II 1101 Math Fundamentals QUARTER 1004 Cosmetology Theory III 1044 Cosmetology Skills III 147 Small Business Management TOTAL TOTAL TOTAL CREDIT HOURS DSMETOLOGY CONTACT HOURS VARTER (Optional) 1055 Advanced Cosmetology Skills	QUARTER 1002 Cosmetology Theory I 5 1022 Cosmetology Skills I 2 1101 Communication Skills 3 UARTER 1003 Cosmetology Theory II 5 1033 Cosmetology Skills II 2 1101 Math Fundamentals 3 10 QUARTER 1004 Cosmetology Theory III 5 1044 Cosmetology Theory III 5 107AL Cosmetology Skills III 2 147 Small Business Management 1 10 TOTAL 40 TOTAL TOT	QUARTER 1002 Cosmetology Theory I 5 0 1002 Cosmetology Skills I 2 0 1101 Communication Skills 3 0 10 0 UARTER 1003 Cosmetology Theory II 5 0 1033 Cosmetology Skills II 2 0 1101 Math Fundamentals 3 0 10 0 QUARTER 1004 Cosmetology Theory III 5 0 1044 Cosmetology Theory III 5 0 1044 Cosmetology Skills III 2 0 147 Small Business Management 1 0 10 0 TOTAL 40 0 TOTAL 40 0 TOTAL GREDIT HOURS DSMETOLOGY CONTACT HOURS DSMETOLOGY CON	QUARTER 1002 Cosmetology Theory I

TOTAL CREDIT HOURS 80 TOTAL COSMETOLOGY CONTACT HOURS 1507 GRAND TOTAL 1650 CONTACT HOURS

EVENING COSMETOLOGY

		Course Title				Quarter Credit
FIRST C	UARTER		Theory	Lab	Clinical	Hours
COS	1101	Cosmetology Theory I	4	0	0	4
COS	1111	Cosmetology Skills I	. 1	0	1.6	7
PSY	1100	Human Relations	3	Ω	Ω	3.
			8	0	1.0	14
SECON	D QUARTE	R				
COS	1102	Cosmetology Theory II	4	0	0	4
COS	1112	Cosmetology Skills II	1	0	18	7
ENG	1101	Communication Skills	3	0	Ω	3.
			13	0	18	14
THIRD	QUARTER					
COS	1103	Cosmetology Theory III	4	0	0	4
COS	1113	Cosmetology Skills III	1	0	18	7
MAT	1101	Math Fundamentals	3	Ω	Ω	3
			В	0	18	14
	H QUARTE		1000			
COS	1104	Cosmetology Theory IV	4	O	0	4
COS	1114	Cosmetology Skills IV	1	0	18	7
BUS	147	Small Business Management	3	Ω	Ω	33.
			0	()	18	14
FIFTH (QUARTER		100	1733	122	12
COS	1105	Cosmetology Theory V	4	0	0	2
COS	1115	Cosmetology Skills V	2	0	1.6	2 2
ART	1100	Art Awareness	2 2	0	Ω	
REGUL	AR DIPLOM	MA	7	0	10	13
	CREDITS COSMETO	LOGY HOURS 1419				
SIXTH	QUARTER					
COS	1106	Cosmetology Theory VI	A	0	0	4
COS	1116	Cosmetology Skills VI	1	0	16	7
			5	0.	18	1.1
AUWZAR	CEED DURIN	OMA				

ADVANCED DIPLOMA

GRAND TOTAL 1672

TOTAL CREDITS 80

TOTAL COSMETOLOGY 1518

ELECTRICAL INSTALLATION V-018

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

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

ELECTRICAL INSTALLATION V-018

FIRST C	QUARTER	Course Title	Class	Lab	Credit Hours
ELC	1101	Fundamentals of Electricity	4	12	8
ELN	1118	Basic Electronics	3	3	4
MAT	1101	Math Fundamentals	3	0	3
CAS	118	Computer Applications	2	3	3
			12	18	18
SECON	D QUARTER			(0.5)	100
ELC	1102	Residential Wiring	4	12	8
ELC	1119	National Electrical Codes-Residential			6
BPR	1111	Blueprint-Electrical	6	3	6
MAT	111	Technical Math	3	0	3
77573	a condition		13	0 3 0 15	1.6
THIRD	QUARTER			177	100
ELC	1103	AC-DC Machines	4	12	11
ELC	1120	Troubleshooting Methods	5	3	6 4
PHY	100	Principles of Technology	3	3	4
	1000	Time process and transfer and t	12	18	10
FOURT	H QUARTER		***	1.00	1.0
ELC	1104	Controls of AC-DC Machines	4	12	8
ELC	1121	Industrial Wiring	3	3	4
ENG	1101	Communication Skills	3	0	3
PSY	1100	Human Relations	3	Ö	3
	1 1 1010	Timinini isaninizini	13	3 0 0 15	18
		TOTAL CREDIT HOURS	4.4	1.00	72
					15000

ELECTRICAL INSTALLATION CERTIFICATE V-018

FIRST QUARTER ELC 1101	Course Title Fundamentals of Electricity	Class Hours 4	Lab Hours 12	Credit Hours 8
SECOND QUARTER	AC-DC Machines	4	12	8
THIRD QUARTER ELC 1102	Residential Wiring	4	12	8
FOURTH QUARTER	Controls of AC-DC Machines	4	12	8

MACHINIST V-032

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

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

MACHINIST V-032

FIRST C	WARTER	Course Title	Class	Lab Hours	Credit Hours
MEC	1101	Machine Shop Theory and Practice I	4	12	8
MAT	1101	Math Fundamentals	3	O	3
BPR	1101	Blueprint Reading	0	3	1
ISC:	118	Industrial Safety	10	1.5	15
SECONI	QUARTER				
MEC	1102	Machine Shop Theory and Practice II	4	12	53
BPR	1105	Blueprint Reading-Mechanical	0	3	1
MAT	111	Technical Mathematics	3	0	3
MEC	118	Introduction to Metals	10	18	16

	QUARTER	Machine Shop Theory and Practice III	4	1.0	
MEC	1103		7	1.2	0
MAT	1123	Machinist Mathematics	3	0	- 3
MEC	119	Applied Metallurgy	3	3	4
BPR	1106	Advanced Mechanical Blueprint			
	11,1777	Reading/Sketching	1	- 3	2
PHY	100	Principles of Technology	4	3	A
	100	rimagnes of featurings	14	21	21
FOURT	H QUARTER			77.	-
MEC	1104	Machine Shop Theory and Practice IV	4	12	8
ENG	1101	Communication Skills	3	0	3
WLD	1135	Basic Gas Welding and Cutting	9	3	1
	1.5. 1.000			6	- 7
PSY	1.100	Human Relations		-12	18.
			12	15	1.7
		TOTAL CREDIT HOURS			69

MACHINIST CERTIFICATE V-032

FIRST QUARTER MEC 1101	Course Title Machine Shop Theory and Practice I	Class Hours 4	Lab Hours 12	Credit Hours 8
SECOND QUAR MEC 1102	TER Machine Shop Theory and Practice II	4	12	8
THIRD QUARTE MEC 1103	R Machine Shop Theory and Practice III	4	12	8
FOURTH QUAR MEC 1104	TER Machine Shop Theory and Practice IV	4	12	8



PRACTICAL NURSING V-038

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

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

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

PRACTICAL NURSING V-038

			Н	ours Per	Week	Quarter Hours
			Class	Lab	Clinical	Credit
FIRST C	UARTER					1000
BIO	270	Anatomy/Physiology 1	3	3	0	4
NUR	1101	Nursing Fundamentals	6	4	3	9
	1105	Pharmacology I	3	0	0	3
NUR		Nutrition	3	0	0	3
NUR	1109		3	0	0	3
ENG	151	Freshman Composition I	10	7	3	22
SECON	D QUARTI	R				4
IIIO	271	Anatomy/Physiology II	3.	3.	0	4
NUR	1102	Med-Surg I	9	()	12	13
NUR	1107	Pharmacology II	1	0	0	1
PSY	259	General Psychology	3	0	0	3
101	239	Chemical Layermonegy	16	3	12	21

THIRD	QUARTER					
BIO	272	Anatomy/Physiology III	3	3	0	4
PSY	261	Developmental Psychology	3	0	0	3
NUR	1104	Med-Surg II	D.	Ω	1.0	14
			14	3	18	21
FOURT	H QUARTE	R				
NUR	1103	Maternity Nursing	5	0	9	8
NUR	1108	Pediatrics	5	Q	9	L
			10	0	18	16
		TOTAL CREDIT HOURS				80



WELDING V-050

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

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



WELDING V-050

	Volumes	Course Title	Class	Lab	Credit
	UARTER		Hours	Hours	Hours
WLD	1101	Welding I	4	12	- 8
WLD	1118	Welding Problems I	2	6	4
BPR	1101	Blueprint Reading	O	3	1
MAT	1101	Math Fundamentals	3	21	16
SECONE	QUARTER		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	21	10
WLD	1102	Welding II	4	1.2	8
WLD	1119	Welding Problems II	2 3 12	6	4
MEC	1140	Metallurgy for Welders	3	0	4 3 3
TAM	1102	Measurements	3	Ω	3
			12	18	18
THIRD (QUARTER			***	1.0
WLD	1103	Welding III	4	12	8
WLD	1120	Welding Problems III	2	6	4
BPR	1103	Blueprint Reading and Pattern		· ·	"
*****		Sketching	1	3	2
PHY	100	Principles of Technology	2	ž	4
cent	100	ranciples or recandingly	10	24	10
FOURTH	QUARTER		10	24	10
WLD	1104	Modeline IV		4.0	
MEC	1112	Welding IV	4	12	
		Machine Shop Processes	1	3	
ENG	1101	Communication Skills	3	0 0	8 2 3 3
PSY	1100	Human Relations		Ω	3.
		TOTAL CREDIT HOURS	11	15	16 68
		WELDING CERTIFICATE	V-050		
		Course Title	Class	Lab	Credit
FIRST Q WLD	1101	Welding t	Hours 4	Hours 12	Hours 8
	QUARTER				
WLD	1102	Welding II	-4	12	8
	QUARTER	200700000			
WLD	1103	Welding III	4	12	
	Contractor Company				
FOURTH WLD	1104	Welding IV	4	12	. 6

ONE PLUS ONE PROGRAMS

Physical Therapy Assistant and Dental Hygiene

Through an agreement with Greenville Technical College, Isothermal students can enter these vital health care programs. These programs are arranged as two separate components called One Plus One (1+1). The first component is taken at Isothermal and the second at Greenville Tech. Please contact the College Transfer Dean for further information.

INDIVIDUALIZED INSTRUCTION

The Individualized Instruction Center provides the opportunity to take college credit courses through the use of individualized and/or audio-visual-tutorial materials. These courses cover the same material as the traditional classroom courses, and they carry the same number of credit hours. This instructional method features self-paced learning materials and personalized instruction.

Registration procedures for individualized instruction courses are the same as for any other course. All courses in the Center may be taken for college credit or audit. Senior Citizens may take courses for credit or audit tuition free.

Specific course requirements for these courses are available in the Individualized Instruction Center. Feel free to drop by at any time during the quarter and examine any course materials in which you might be interested.

COLLEGE TRANSFER OFFERINGS

*HIS	151	World Civilization
*HIS	152	World Civilization
*1-115	153	World Civilization
*HIS	260	History of United States
*HIS	261	History of United States
*HIS	262	History of United States
*POL	261	Introduction to American Politics
*PSY	260	General Psychology
RED	260	Speed Reading
*SOC	160	Introduction to Sociology

^{*}These courses are also available in the traditional classroom.

COOPERATIVE EDUCATION PROGRAM

Cooperative Education is an alternative college program in which students are employed for specific periods of on- or off-campus work. This employment is related as closely as possible to each student's course of study and individual interest. The blend of classroom theory and practical on-the-job training adds a vital dimension to learning experiences. Numerous advantages accrue from the Cooperative Education approach to learning, such as career direction and financial assistance for participating students, a source of manpower for employers, and an avenue to better relate the college to the community.

There is a one credit hour Cooperative Education course entitled "Employment Seeking Skills" that is required of all students desiring to participate in the Cooperative Education program. A student may participate in the Co-op Program and earn credit toward degree requirements depending on his/her major.

In order to be eligible for the Co-Op program, the student should:

- Be enrolled in a curriculum program, carrying a minimum of 6 credit hours.
- 2. Have been at Isothermal for at least 1 quarter.
- 3. Have at least a 2.0 GPA.
- 4. Be employable. Any student meeting these eligibility requirements who wishes to be placed in a part-time or full-time job related to his/ her academic major should contact the Director of Cooperative Education in Building 6 (Business Education) and make application to the program.

STUDENT SUPPORT SERVICES

Student Support Services is a college level educational support program designed to help students complete their chosen curriculum by increasing options for academic success for all students.

Each student's strengths and weaknesses are diagnosed in the areas of English, reading, and mathematics. Students participate in stimulating selfpaced, teacher-assisted instruction, as well as lecture and discussion. Computer-assisted instruction is also available. The instructor prescribes an individual program to assist the student in improving those skills which would afford him/her the greatest degree of satisfaction competency and success.

Both day and evening classes are available to full- and part-time students.

A. Academic Support Courses:

ENG	090	Enrichment English
ORI	164	Textbook Reading and Study Skills
MAT	090	Basic Math
MAT	095	Basic Algebra
RED	085	Basic Reading
RED	090	Reading Proficiency

B. Other Support Services Available: Supplemental Instruction Computer Assisted Learning Personal, Career, and Financial Aid Counseling

COURSE DESCRIPTIONS

ISOTHERMAL COMMUNITY COLLEGE

The courses listed on the following pages represent the current curriculum offerings in the College Transfer, Technical, and Vocational programs.

- The courses are listed in alphabetical order by a 3-letter prefix (example—BUS for Business; ANT for Anthropology).
- The courses are numbered as follows (example—BUS 201).
 - A. College Transfer and Technical Courses are 3 digit
 - B. Vocational Courses are 4 digit
- Any course number less than 100 will not give credit hours for graduation.
- The course title follows the number (example—BUS 201 Industrial Psychology).
- The number of contact and credit hours follow the title (example— BUS 201 Industrial Psychology 3-0-3).
 - A. The first number represents the number of lecture hours per week.
 - B. The second number represents the number of lab, shop, clinical, or practicum hours per week.
 - C. The last number represents the number of credit hours assigned to the course.
- Indicated at the end of the course descriptions is the quarter the course is normally offered. This is subject to change. <text>The following are abbreviations for the quarters—Fall (F), Winter (W), Spring (Sp), Summer (Su).

For Example:

BUS 201 Industrial Psychology

3-0-3

A study of the principles of psychology that will be of assistance in the understanding of...on the job. Attention is also given to...the general community. (W, Su)

COURSE DESCRIPTIONS

ACCOUNTING

ACC 157 Federal Income Tax for Small Business

9-6-9

This course is an introduction to Federal Income Tax for small business. Included will be a step-by-step process for preparing income tax returns with an emphasis on tax form 1040 and all supplemental schedules as they apply to the small business owner.

ACC 162 Bookkeeping for Small Business

3-0-3

Emphasis is placed upon the art of recordkeeping in the business world. The student will learn the proper techniques and application of bookkeeping in the business world. ACC 210 Principles of Accounting I

3-2-4

A study of basic accounting principles and procedures related to proprietorships where students will complete the accounting cycle for both service and merchandising enterprises. (F,W,Sp,Su)

ACC 211 Principles of Accounting II

3-2-4

A continuation of basic accounting principles and procedures including the study of notes, uncollectible accounts, inventories, depreciation, and systems and control. Prerequisite: ACC 210. (F,W,Sp,Su)

ACC 212 Principles of Accounting III

3-2-4

A continuation of basic accounting principles and procedures including partnerships, corporations, and manufacturing concerns. Prerequisites: ACC 211. (F,W,Sp,Su)

ACC 217 Taxes I

3-2-4

Concepts and methods of determining federal tax liability of individuals. Topics include ordinary income, capital gains and losses, and net operating loss. The student will also be introduced to estate, gift and partnership taxation. (W)

ACC 218 Taxes II

3-2-4

In this study of federal laws and regulations, students will demonstrate satisfactory competency in preparing business returns and fiduciaryreturns. Topics include: income tax withholding; reporting business or professional income for individuals, partnerships and corporations; researching and solving tax problems; applying federal and state laws for gifts and estates. Prerequisite: ACC 217.

ACC 242 Computerized Accounting

3-2-4

This course is designed to provide the student with the operational skills needed to implement and use accounting software packages to provide accounts receivable, accounts payable, payroll, and general ledger services in a business. Prerequisites: CAS 160 and ACC 211. (ACC 211 may be taken simultaneously with this course). (Sp)

ACC 244 Intermediate Accounting I

3-0-3

A comprehensive study of accounting principles introduced in earlier courses with special emphasis placed on the preparation of financial statements, cash and temporary investments, receivables and inventories. Prerequisites: ACC 212.

ACC 245 Intermediate Accounting II

9-0-9

A comprehensive study of accounting principles introduced in earlier courses with special emphasis placed on liabilities, owners equity accounts, cash flow, and financial statement analysis. Prerequisite: ACC 244.

ACC 246 Auditing

3-0-3

An introduction to auditing theory and practice covering audits as conducted by independent public accountants, included are auditing standards, procedures, professional ethics, and review and evaluation. Prerequisite: ACC 212.

ACC 248 Managerial Accounting

3-0-3

This course is designed as a survey for both nonfinancial and financial manager. This fastpaced course will give participants a quick understanding of the most important tools and techniques of general accounting, statement preparation, statement analysis and an introduction to cost. Students will learn how balance sheets, income statements and statement of owners equity help in reaching a company's objectives and how these and other accounting and financial functions relate to their department.

ACC 250 Cost Accounting

3-0-3

Nature and purposes of cost accounting accounting for direct labor, materials, and factory burden; job costs, and standard cost principles and procedures; selling and distribution cost; budgets, and executive use of cost figures. Prerequisite: ACC 212.

Emphasis is placed upon the accounting theory used in local government. The student is given an inside look at the practice of accounting in local government.

ANTHROPOLOGY

ANT 160 Celtic Culture

2-0-2

This course will study the culture of the Celts, their origin, and their impact upon humanity at large. We will emphasize all facets of the Celtic world from religion to music culminating the course with an excursion to a Scottish-Irish gathering appropriate to our localized area.

ANT 261 General Anthropology

5-0-5

A presentation of comprehensive material dealing with the major fields and basic principles in the comparative study of mankind. Course emphasis is upon humankind's place in nature, critical examination of fossil evidence concerning aspects of human cultural origins. The evolution of culture is studied with an emphasis upon cultural innovations, language, customs, technology, religion, societal structure and anthro-archaeological techniques for the study of past cultures for comparative purposes. Contemporary industrial and non-industrial societies are examined as well as various pre-literate peoples so that the growth of culture can be viewed from many diverse levels.

ANT 262 Cultural Anthropology

5-0-5

This course is an attempt to describe and analyze primitive or folk peasant groups and understand the theoretical significance anthropologists attach to primitive society, and the analytical devices and ethnological concepts that they use in studying such people.

ANT 263 Archaeological Methodology

1.3.2

This course focuses on those aspects of Archaeology that promote practical application of field techniques. The training will consist of proven methodology utilized by professional archaeologists from the time a site is selected to its final usefulness as a source of cultural material. Mapping, photography, surveying, proper excavation techniques, cataloging are but a few of the areas to be covered in this unique approach to the study of mankind. There will be a special emphasis placed upon this immediate. Western North Carolina section both from a pre-historic and historic viewpoint.

ART

ART 151 Fundamentals of Two-Dimensional Design

2.4.4

Exploration of basic studio problems in the visual arts through a variety of art media with emphasis on the elements and principles of art as they relate to two-dimensional space.

ART 152 Drawing and Composition I

2-4-4

Introduction to and exploration of the drawing process through

improvisational, perceptual, and conceptual experiences. Emphasis on the structural elements and organizational principles of arts as they relate to the drawing process.

ART 160 Survey of Western Art

5-0-5

This course is a historic survey of painting, sculpture and architecture from approximately 10,000 B.C. to the twentieth century. It is designed to give the student an appreciation and understanding of how visual arts reflect civilization. Pre-requisite: ENG 090 & RED 090 or satisfactory placement scores.

ART 251 Fundamentals of Three-Dimensional Design

2-4-4

Study and application of the elements and principles of art as they relate to three-dimensional space.

ART 252	Introduction to Sculpture	1-4-3
Exploration 6	of three-dimensional form through the application of diverse sculptural	media.
Prerequisite:	ART 251,	

ART 253 Drawing and Composition II 2-4-4
Confrontation of the figure, landscape, and still life through a variety of drawing concepts and media. Prerequisite: ART 151 or ART 153.

ART 260 Painting I 1-4-3
Introduction to the painting experience through exploration of various painting media.

ART 261 Painting II 1-4-3
Development of original work in various painting media through an individual problemsolving approach, Prerequisites: ART 151 and 153 or 260.

ART 262 Painting III 1-4-3
Further development with the painting process. Emphasis on individual exploration, technical understanding, and compositional resolutions. Prerequisite: ART 261.

ART 264 Printmaking 1-4-3 Introduction to the printmaking process through exploration of various printmaking techniques. Prerequisite: ART 151 or ART 153.

ART 265 Constructive Design: Clay
Exploration of clay as a sculptural medium. Prerequisite: ART 251.

ART 270 Selected Topics in Art variable
This course is designed to deal with any heretofore uncatalogued topics which are of timely
and/or special interest. Prerequisites and credit hours will vary with each of the numerous
art topics which may be offered under this description.

ART 1100 Art Awareness 2-0-2
Designed for cosmetology students, this course emphasizes art fundamentals including line, color, and form.

AUTOMOTIVE

AUT 1101 Automotive Engine, Electrical Fuel Systems 2-15-7
A thorough study of the electrical and fuel systems of 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.

AUT 1102 Automotive Brakes, Chassis and Suspension 2-15-7
A complete study of various braking systems employed on automobiles and lightweight trucks. Emphasis is placed on how they operate, proper adjustment and repair. Also, the servicing of parking brakes is emphasized. Principles and functions of the components of automotive chassis. Practical job instruction in adjusting and repairing of suspension systems.

AUT 1103 Automotive Internal Combustion Engines 2:15-7
A development of a thorough knowledge and abilities 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 combustion engines. Testing of engine performance; servicing and maintenance of pistons, valves, cams and camshafts, fuel and exhaust systems, cooling systems; proper lubrication; and methods of testing, diagnosing and repairing.

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.

AUT 1106 Automotive Wiring

2-6-4

After completing this course, the student will be able to diagnose and repair most collision related electrical damage. Also covered will be how to prevent damage to computer controls and how to safely disarm air bags during repair, also diagnostic checks of air bags will be covered.

AUT 1111 Automotive Schematics and Diagrams

2-3-3

An interpretation and reading of schematics and diagrams. 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.

AUT 1112 Automotive Schematics and Diagrams: Power Mechanics

(Electrical and Fuel Systems)

2-3-3

Interpretation and reading of schematic prints and diagrams. Making sketches of electrical wiring and fuel system components for automotive engines and other internal combustion engines. Learning to identify the various components of the systems by sketching and labeling parts. Practice in tracing wiring systems and diagnosing trouble by using schematics and diagrams found in the automotive service manuals.

AUT 1113 Automotive Schematics and Diagrams

1-3-2

Interpretation of prints, schematics and diagrams pertaining to automotive chassis and braking systems. A study of components that make up the front suspension, differential assembly and brake assemblies.

AUT 1118 Automotive Problems

3-3-4

The purpose of this course is to broaden the students' experiences in the areas of mechanics. Problems involving experimentation, investigation and writing of a research report involving automobiles, mechanical operations and general maintenance and repair required for machinery may be basis for investigation.

AUT 1120 Auto Body Repair I

4-0-4

The theory of Auto Body Repair prepares the student for "hands-on" experience with sheet metal by explaining common hand and power tools, types of sheet metal damages, techniques for repair and finishing of minor damage repair. Also covered will be compressed air supply equipment and basic shop safety practices.

AUT 1121 Auto Body Repair II

4-0-4

After completion of this course the student will be able to identify the degree of damage to body structural and non-structural body assemblies using the proper measuring equipment and techniques. Also covered will be the use of unibody dimensions and specifications charts as they apply to the Blackhawk Bench System and the use of the universal measuring system.

AUT 1122 Auto Body Repair III

4-0-4

After completion of this course the student will be able to identify the methods and procedures which apply to overall refinishing of automotive bodies. Other topics covered will be panel spotting and complete panel painting. Removal of glass, trim, and moldings will also be discussed.

AUT 1123 Auto Body Repair IV

4-0-4

After completion of this course the student will be able to identify and list on an estimate form the degree of damage and cost to repair the vehicle. Using the Mitchell Collision Manual will be studied as well as dealing with customers and insurance companies.

AUT 1124 Painting Materials and Practice

5-3-6

A thorough study of the safety in handling and usage of the latest clear coat and urethane automotive paints. Proper application and preparation will be covered in the lab as well as gun adjustment, air pressure and spray techniques. Students will be given ample time to practice these skills.

AUT 1125 Automotive Air Conditioning

3-3-4

General introduction to the principles of refrigeration; study of the assembly of the components and connections necessary in the mechanisms, the methods of operation, and control; proper handling of refrigerants in charging the system. Use of testing equipment in diagnosing trouble, conducting efficiency tests and general maintenance work.

AUT 1126 Automobile Servicing I

1-3-2

Emphasis is on the shop procedures necessary in "trouble-shooting" the various component systems of the automobile. "Trouble-shooting" of automotive systems, provides a full range of experiences in testing, adjusting, repairing and replacing components. A close simulation to an actual automotive shop situation will be maintained.

AUT 1130 Auto Body Repair Shop I

0-15-5

The purpose of this course is to provide the student with working knowledge of hand and power tools and the metals with which they will work. Roughing-out metal, shrinking metal, using filler materials and finishing metal will be taught. Efficiency comparable to requirements of the auto body trade will be stressed.

AUT 1131 Auto Body Repair Shop II

0-15-5

After completion of this course the student will be able to correctly determine the extent of damage using the proper measuring equipment and techniques. Removing damaged parts and straightening of unibody assemblies will be done. Correct methods of usage of the Blackhawk Bench System will be covered as well as set up of measuring equipment.

AUT 1132 Auto Body Repair Shop III

0-15-5

Principles of cleaning, masking, spraying, and compounding will be demonstrated by the instructor and practiced by the students during actual refinish work being performed by students. Emphasis will be given to overall as well as spot and panel repair painting. Proper maintenance of shop equipment and spray equipment will be taught with emphasis on industry standards and proper safety and health precautions. Removal of trim, moldings and auto glass will be preformed as applicable. Students will be given ample time to develop their skills.

AUT 1133 Auto Body Repair Shop IV

0 - 15 - 5

During this session all students will be given time to further practice skills learned throughout the previous year. Projects will be provided by both the students and the instructor with emphasis being given to quality of work performed and length of time to complete. All work being done by the student will first be documented by a written estimate covering all aspects of repair and acceptable time limits to perform the repair. Students will be evaluated by the instructor on quality of repair on a week by week basis.

AUT 1201 Auto Body Repair I

2-15-7

The purpose of this course is to provide the student with working knowledge of hand and power tools and the metals with which they will work. Roughing-out metal, shrinking metal, using filler materials and finishing metal will be taught. Efficiency comparable to requirements of the auto body trade will be stressed.

AUT 1202 Auto Body Repair II

2-15-7

After completion of this course the student will be able to correctly determine the extent of damage using the proper measuring equipment and techniques. Removing damaged parts and straightening of unibody assemblies will be done. Correct methods of usage of the Blackhawk Bench System will be covered as well as set up of measuring equipment. Principles of cleaning, masking, spraying, and compounding will be demonstrated by the instructor and practiced by the students during actual refinish work being performed by students. Emphasis will be given to overall as well as spot and panel repair painting. Proper maintenance of shop equipment and spray equipment will be taught with emphasis on industry standards and proper safety and health precautions. Removal of trim, moldings and auto glass will be preformed as applicable. Students will be given ample time to develop their skills.

AUT 1204 Auto Body Repair IV

2-15-7

During this session all students will be given time to further practice skills learned throughout the previous year. Projects will be provided by both the students and the instructor with emphasis being given to quality of work performed and length of time to complete. All work being done by the student will first be documented by a written estimate covering all aspects of repair and acceptable time limits to perform the repair. Students will be evaluated by the instructor on quality of repair on a week by week basis.

BIOLOGY

BIO 151 Principles of Biology I

3-3-4

Principles, problems and basic similarities of all living organisms with emphasis on the chemistry of living organisms, metabolism, cytology, and genetics. Three laboratory hours per week. Pre-requisite: RED 090 or satisfactory placement test scores.

BIO 152 Principles of Biology II

3-3-4

Principles of reproduction, development, organic maintenance, organization and integration, and behavior in plants and animals. A study of the principles of evolution and the concept of species. Three laboratory hours per week. Pre-requisite: RED 090 or satisfactory placement test scores.

BIO 153 Principles of Biology III

3-3-4

A systematic study of living organisms with emphasis on the vertebrates and angiosperms. The principles of ecology and taxonomy will be included as they relate to the study of living organisms. This course also includes an oral communication component via debates. Three laboratory hours per week. Pre-requisite: RED 090 or satisfactory placement test scores.

BIO 165 Special Topics in Biology

variable

This course is designed to deal with any heretofore uncatalogued topics which are of timely and/or special interest. Prerequisites and credit hours will vary with each of the numerous biological topics which may be offered under this "Special Topics in Biology" description.

BIO 270 Anatomy and Physiology I

2.2.4

The first quarter considers basic chemistry, cells and tissues with a strong emphasis on the structure and physiology of the skeletal and muscular systems. Pre-requisite: RED 090 or satisfactory placement test scores. BIO 151 and 152 strongly recommended. (F)

BIO 271 Anatomy and Physiology II

3-3-4

This quarter deals with the respiratory, digestive and urogenital systems. Emphasis is placed on metabolism, excretion, fluid and electrolyte balance. Pre-requisite: RED 090 or satisfactory placement test scores. BIO 151 and 152 strongly recommended. (W)

BIO 272 Anatomy and Physiology III

3-3-4

This quarter covers the nervous system's organization along with the structure and physiology of the sense organs. The endocrine system, blood and cardiovascular physiology are also covered. Emphasis is given to the nervous system's organization and the cardiovascular systems. Pre-requisite: RED 090 or satisfactory placement test scores. BIO 151 and 152 strongly recommended. (SP)

BIO 280, 281 Microbiology 2-3-3

A general introduction to morphology, physiology and pathogenicity of viruses, bacteria, algae, fungi and protozoa. The fundamentals of laboratory techniques concerning isolation, reproduction, metabolism and taxonomy are included. Prerequisite: BIO 151 or 270; Prerequisite for BIO 281 is BIO 280. (Su)

BLUEPRINT READING

BPR 1101 Blueprint Reading 0-3-1

Interpreting and reading shop drawings and sketches. What to expect in a drawing: lines, views, dimensions, tolerances, symbols, and notes.

1-3-2

BPR 1103 Blueprint Reading and Pattern Sketching

A basic study of blueprint reading, various lines, extension, dimension, object center, projection lines and reference lines. Studies are made on welding symbols fillet weld, flat, convex, concave, field weld melt through, non-destructive examination symbols, lay out and project work.

BPR 1105 Blueprint Reading-Mechanical 0-3-1

Further practice in the identification of lines, views, notes, and dimensioning procedures; the reading of industrial blueprints; the introduction to drafting room procedures; and sketching as a means of passing on ideas, information, and processes. Prerequisite: BPR 1101

BPR 1106 Advanced Mechanical Blueprint Reading/Sketching 1-3-2
Advanced blueprint reading and sketching as related to detail and assembly drawings used in machine shops. The interpretation of drawings of complex parts and mechanisms for features of fabrication, construction, and assembly. Prerequisite: Permission from the instructor

BPR 1111 Blueprint-Electrical 0-3-1
Study and exercise in reading and interpreting drawings and specifications used in the building trades. Applications of sketching to construction detail and to deviations from existing specifications.

BUSINESS

BUS 100 Introduction to Business 3-0-3

An introductory course in the organization, functions, operations, controls, and problems of business enterprises. (F,W,Su)

BUS 101 Professional Development 3-0-3
This course reflects the concern for the development of successful work habits and personality traits in all workers. Learning about oneself, dealing with attitudes, coping and communicating at work. (Sp)

BUS 112 Business Finance 3-0-3
A study of the monetary and credit systems and policies in relation to the financing of sole

A study of the monetary and credit systems and policies in relation to the financing of sole proprietorships, corporations, and governments and a detailed study of short-term, longterm, and consumer financing. (W)

BUS 130 Materials Requirements Planning 3-0-3
This course covers the fundamental concepts and principles in time-phased material requirements planning. The key functions of inventory management.

BUS 131 Inventory Management 3-0-3
Major course objectives will cover the proper balance to maintain in order to achieve the desired level of customer service, investment in inventories, and proper timing in the management and purchasing requirements.

BUS 133 Capacity Management

3-0-3

The course will cover the functions of manufacturing schedules. The process of determining the number of employees, machines, and physical resources to meet the production objectives.

BUS 134 Master Planning

3-0-3

This course is divided into two major sections: forecasting and master production scheduling. The techniques and terminology used in a principles of forecasting will be presented. Master production scheduling activities of demand management, production planning, final assembly scheduling, and master production scheduling will be covered.

BUS 135 Production Activity Control

3.0.3

This course covers the most important principles and techniques of a shop floor control. The student will have a working knowledge of the approaches used by managers to plan, schedule, control, and evaluate the effectiveness of shop production operating. The course covers process plants, volume production lines, and industries that operate a shop floor control environment.

BUS 147 Small Business Management (Voc-Tech)

3-0-3

Upon completion of this course students should be able to understand the techniques and principles of planning, organizing, directing, controlling, and operating a small businesss. The three basic types of small businesses - retail stores, manufacturing, and service organizations will be discussed also. Students will also be made aware of opportunities and risks involving a small business.

BUS 150 Introduction to Small Business

3-0-3

This course is designed for persons already in a small business, for persons committed to starting one, or for people who operate a business from home. The course includes skills for home-based business, marketing, recordkeeping for tax purposes, licensing, permit requirements, and financial planning.

BUS 151 Small Business Management Skills

2-0-2

This course is designed to develop managerial skills in problem identification, problem solving, decision making, and negotiating. Participants will learn how to plan, replan, organize, and control their businesses through the use of special techniques, as well as how to cope effectively with time and stress. The course emphasizes the importance of effective personnel management through the use of goal setting, rewards, and consistency.

BUS 152 Managing a Services Business

2-0-2

This course is designed for people who operate a service business or who want to explore the possibility of doing so. The participants will be able to write a business plan; design a recordkeeping system for tax purposes; determine insurance needs; develop a financial plan, marketing strategy, and advertising plan; and project start-up costs.

BUS 153 Small Business Financial Management

2 0 - 2

This course is designed for people already in a small business or for those committed to starting one. The course includes financial management and determining ways to maximize profits through controlling costs and identifying positive cash flow.

BUS 154 Small Business Advertising

2-0-2

This course is designed for owners or managers of small businesses who want to develop an advertising program. The participants will study advertising and its goals, develop advertising budgets, plan advertising schedules, evaluate appropriate media, and design advertising messages.

BUS 155 Microcomputer Use for Small Business

1-2-2

This course is designed for persons committed to starting small business or for those already in one. The participants will determine their business needs of a microcomputer, select software and hardware. BUS 156 Small Business Inventory Management 2-0-2
This course is designed for people already in a small business or for those committed to starting one. The course covers the necessity of inventory control, identifying key elements of inventory management, establishing guidelines for suitable inventory levels, and identifying inventory losses through theft and ineffective handling.

BUS 158 Purchasing & Cost Control for Small Business 2-0-2
This course is created for persons committed to starting a small business or for those already in one. The course covers purchasing operations for management, how to negotiate effectively with suppliers, and how to implement effective cost control measures.

BUS 161 Business Law for Small Business 2:0-2
This course is designed for persons committed to starting a small business or those already in one. The course covers the basic concerns of how to operate legally both prior to and after startup, safeguarding the business through wise choices of legal, accounting, and insurance expertise, and understanding how federal, state, and local laws and regulations directly affect small businesses.

BUS 170 Business and Social Environment 3-0-3
A study of the economic, moral, and political environment in which business and industry operate today. The course examines relationships among business and its social influences, its moral and political institutions, and how business responds to the goals of society. (Su)

BUS 201 Industrial Psychology 3-0-3
A study of 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. Other topics investigated are the following: employee selection, supervision, job satisfaction, and industrial conflicts. (W)

BUS 214 Principles of Management 3-0-3
This course is designed to introduce students to the field of management. Emphasis will be placed on the evolution of the management concept and the functions of management planning, organizing, directing and controlling. (Sp)

BUS 215 Office Management 3-0-3
Presents the fundamental principles of office management with emphasis on the role of office management, including its functions, office automation, planning, controlling organizing, and actuating the office.

BUS 216 Principles of Supervision 3-0-3 Introduces the basic responsibilities and duties of the supervisor and his relationship to superiors, subordinates, and associates with emphasis on securing an effective work force, the role of the supervisor and methods of supervision. (Sp)

BUS 217 Advanced Supervision 3-0-3
This course is designed to improve supervisory manager effectiveness in several areas of responsibility which are of critical importance to the organization and often the most difficult to manage. (Sp)

BUS 218 Wage and Salary Administration 3-0-3
Basic systems and plans of compensating employees. Wages and salaries, structures, incentive plans, and fringe benefits such as holiday pay, pension, sick leave, life and hospitalization insurance are included. (Su)

BUS 223 Credit Procedures and Problems 3-0-3 Principles and practices in the extension of credit, collection procedures, and laws pertaining to credit extension and collection. BUS 224 Human Resource Management

3-0-3

A study of basic personnel policies, practices, objectives, functions and the organization of personnel programs. Emphasis is placed on recruiting, selection, placement, training and development, and employee evaluation. (F)

BUS 225 Business Law

3-0-3

A general course designed to acquaint the student with law, the court system, and certain fundamentals of principles of business law. The principal emphasis is contract law. (F)

BUS 226 Business Law

3-0-3

Legal principles pertaining to bailments, sales contracts, commercial paper, responsibilities of hotel keepers, regulation of common carriers and insurance. (W)

BUS 227 Business Law

3 - 0 - 3

A study of the law of agency, the law of employment, labor relations, partnerships and corporations, property rights, and wills and estates. (Sp)

BUS 239 Business Mathematics

3-2-4

A course designed to provide students with a vocational advantage of math competency by application of number and calculator skills to business problems. Topics will include percentage, trade and cash discounts, markup and markdown, and the use of metric terms in a practical context. Prerequisite: MAT 107 or satisfactory placement test score. (F,W,Sp,Su)

BUS 257 Applied Business Communications I

3-0-3

This course is designed to integrate traditional business communication principles with current communication technology. Emphasis is on written and oral communication, listening skills and perception. (F)

BUS 258 Applied Business Communications II

303

Further study of traditional business communication principles integrated with current communication technology. Emphasis on grammar, oral communication skills, letter, memoand report writing. Prerequisite: BUS 257 (W)

BUS 260 Leadership Development

3-0-3

This course deals with winning commitment and cooperation. A leader can learn how to focus the interests and expectations of his followers effectively as he uses a successful leadership style. The course involves looking at leadership characteristics and developing one's own style. (Sp)

BUS 1100 Small Business Operations

2-0-2

Upon completion of this course students should be able to understand the techniques and principles of planning, organizing, directing, controlling, and operating a small business. The three basic types of small businesses - retail stores, manufacturing, and service organizations will be discussed also. Students will also be made aware of opportunities and risks involving a small business.

BUSINESS COMPUTER PROGRAMMING see CAS and C5C course descriptions.

COMPUTER APPLICATIONS

CAS 101 Computer Applications and Concepts

3-0-3

This course is designed to introduce the student to the microcomputer and its operating system. Hands-on experience is provided using an integrated software package to introduce the student to word processing, electronic spreadsheets and databases. Prerequisite: OSC 101 or equivalent preferred. CAS 118 Computer Applications

2-3-3

This course is designed to acquaint the Vocational/Technical student with some of the applications of the microcomputer, both in and out of the classroom. It introduces basic microcomputer architecture, general operating procedures, word processing, spreadsheets and database. "Hands-on" laboratory experiences are emphasized.

CAS 160 Microcomputer Operating Systems

2-2-3

The concepts and principles of disk operating systems such as MS/PC DOS will be explored. Practical applications will be explored by completing a series of assigned laboratory exercises using IBM microcomputers. (F,W,Sp)

CAS 163 Word Perfect

3.2.4

This course is designed to teach the student to efficiently operate a word processor. Emphasis is placed on using a menu, creating and storing documents, making changes and corrections on documents, and retrieval and printing of documents. Prerequisite: OSC 102 or permission from instructor. (F,W,Sp,Su)

CAS 171 Microsoft Word for Windows

3-2-4

This course is designed to teach the student efficient use of Microsoft Word for Windows word processing software. Emphasis is placed on managing and editing documents, formatting and printing documents, using the button bar, and working with multiple windows. Prerequisite: OSC 101 or equivalent.

CAS 172 Advanced Microsoft Word for Windows

3-2-4

This course is designed to teach advanced commands and features of the Microsoft Word for Windows word processing software, preparing the student to perform complex operations. Emphasis is placed on special print features, techniques to arrange text in columns and tables, individualizing form letters, establishing consistent formatting throughout a document, creating and using macros, and adding graphics to a document. Prerequisite: CAS 171

CAS 181 Introduction to Multimedia

3-0-3

This course is designed to enable the student to develop professional-looking presentations quickly and easily. Topics include content development, preparation, and use of multimedia tools to present information effectively. Prerequisite: CAS 101 or equivalent.

CAS 185 Presentation Graphics

3-0-3

This course is designed to introduce the student to presentation graphics software. Topics include presentation design, presentation software overview, and hands-on development of presentations. Prerequisite: CAS 101 and CAS 214 or permission of the instructor.

CAS 191 Introduction to Internet

3-0-3

This course is designed to introduce the student to internet, including access options and tools for manipulation within internet. Hands-on experience will be provided. Prerequisite: CAS 101 or equivalent.

CAS 200 Operating System/400

4-3-5

This course is designed to demonstrate fundamentals of AS/400 computer operation. Special keys and navigating the system will be explored. Job management, system security, and object management concepts will be presented. Work with database files, computer objects, libraries, screen displays will be demonstrated through hands on operation. System utilities (SEU, DFU, SDA, QUERY) will be used in hands-on demonstration.

CAS 204 Introduction to the AS/400

3.0.3

This course is designed to introduce the student to the IBM Application System/400. Topics include features, available software and hardware, available education, and methods for incorporating these into the business environment. CAS 208 Desktop Publishing

3.2.4

This course will teach the student to electronically design, layout, edit, and produce a photo-ready document using the personal computer and word processing, graphic, and page-layout software. The student will use PFS: First Publisher and be introduced to Aldus PageMaker software. Prerequisite: CAS 160 or personal computer experience.

CAS 212 PC Installation and Maintenance

3-2-4

This is an introductory course in the initial hardware setup and loading of software on an IBM PC, IBM PS/2, or Compatible microcomputer systems. Maintenance and upgrading of both hardware and software will be covered. Prerequisite: CAS 160.

CAS 214 Microsoft Windows

3-0-3

Microsoft Windows is a software package that has the ability to run more than one application at a time and transfer information between applications. The superior way it uses the full power of a microcomputer, and its rich graphical interface provide a more intuitive and efficient work environment than ever before on a personal computer. This course teaches the student to effectively use Windows.

CAS 218 AS/400 Data File Utility and Screen Design Aid

3.0.3

This course is designed to explore two AS/400 utilities. These are the Data File Utility (DFU) and the Screen Design Aid (SDA). The Data File Utility will be used to create typical data files, update them, add to them. General concepts of file design will be discussed as data files relate to actual applications. The Screen Design Aid will be used to design and create menus and entry displays. Hands-on projects will be completed to illustrate the concepts discussed.

CAS 222 AS/400 Query

3-0-3

This course is designed to explore AS/400 Query. Query for selection, joining, and displaying / printing / database file creation. Changing a query, storing a query, and calling a query from a command line will also be explored.

CAS 224 The Electronic Office

3-2-4

This course is designed to present electronic methods of conducting normal office activities. Topics include scheduling, calendaring, mail handling, sending and receiving messages, and an introduction to word processing, spreadsheets and presentations graphics. Practical hands-on experience will be provided. Prerequisites: CAS 101 or permission of the instructor.

CAS 228 Database on the A5/400

3-0-3

This course is designed to enable the student to create, access, and maintain a database on the AS/400. Topics of discussion include physical and logical files, join files, coding and entry of DDS Specifications, and access through Query, DFU and applications programs.

CAS 232 AS/400 PC Support

3-0-3

This course is designed to enable the student to install and use PC Support Utility on the AS/ 400 to provide terminal access using a PS/2 with \$250 emulation.

CAS 240 Systems Analysis

3-2-4

A study of the concepts and steps involved in conducting a major systems project. A case study will be closely followed through all phases of a project with emphasis on the solutions to advanced data processing situations. Prerequisites: CSC 210, CSC 220 or CSC 230. (F)

CA5 241 Lotus 1-2-3

3-2-4

This class will cover all basic and intermediate aspects of the IBM PC spreadsheet program including cell entries, formulas, formatting of cells, organization of a spreadsheet, Lotus functions, special function keys, saving and printing of spreadsheets and 1-2-3 commands. Also selected advanced topics will be covered such as keystroke macros. Prerequisite: CAS 160. (W,Sp)

This course is designed to explore the more advanced features of Lotus 1-2-3 as they apply to business applications. The student should have taken CAS 160 and CAS 241 or should be familiar with the IBM or compatible PC's and be able to use Lotus 1-2-3.

CAS 245 Microsoft Excel

3-2-4

This course will cover all basic and intermediate features of the Excel spreadsheet program including cell entries, formulas, formatting of cells, organization of spreadsheet, Excel functions, saving, and printing of spreadsheets. Also, selected progressive topics will be covered such as graphics and database operations. Prerequisite: CAS 160 or equivalent.

CAS 246 Advanced Microsoft Excel

3-2-4

This course is designed to cover the more advanced features of Microsoft Excel as they apply to business applications. The student should have taken CAS 160 and CAS 245 or should be familiar with the IBM or compatible PC's and be able to use Microsoft Excel.

CAS 248 Advanced WordPerfect

3-2-4

This course is designed to teach the student advanced commands and features of word processing software that allows you to perform complex operations, develop and work with large documents easily, and save time. Emphasis is placed on special print features, macros, styles, tables, spreadsheets, and an introduction to desktop publishing and graphics. Prerequisite: CAS 163 or permission of the instructor.

CAS 250 Computer Training and Support

3-0-3

This course is designed to equip the student with the knowledge needed to plan and coordinate training for the computer. Topics include location of resources, methods of training, documentation, purchase of hardware, and development of procedure manuals.

CAS 252 DBASE

3-2-4

This course will present the concepts and applications of database design,maintenance, and processing. Students will utilize Database software of the IBM PC. Prerequisite: CAS 101 or CAS 160, (W)

CAS 253 Advanced DBASE

3.2.4

This course is designed to teach the student such database topics as dbase programming, an introduction to Structured Query Language (SQL), the applications generator, and other advanced topics. Prerequisites: CAS 252 or permission of the instructor.

CAS 255 Data Communications

3-2-4

This course is designed to familiarize the student with the concepts and terminology of data communications. Required reading and class discussions are supplemented by hands-on introduction to typical data communications equipment and video presentations. The fundamentals of local area networking will be explored from a communications viewpoint. Current concerns related to data communications will be introduced and discussed as appropriate. Prerequisite: CAS 160

CAS 261 Networking Fundamentals

3-0-3

This course is designed to introduce the student to a typical local area network (LAN). A series of hands-on exercises will be performed on the network to demonstrate the concepts of file serving, data sharing, program sharing and communicating from one workstation to another. Concepts, standards, hardware, and software required to participate in network operations will be discussed. Prerequisite: CAS 255 or permission of the instructor.

CAS 262 Networking Administration

3:0:3

This course is designed to learn the aspects of managing a typical local area network (LAN). A series of hands-on exercises will be performed to demonstrate installation of applications, configuring workstations, monitoring operations, protecting files, problem resolutions and directing output. Practical considerations of LAN choices to meet requirements, hardware specifications, installation and modifications will be discussed. Prerequisite: CAS 261

CHEMISTRY

CHM 100 Introduction to Chemistry

3-3-4

Study of the physical and chemical properties of substances, chemical changes, elements, compounds, gases, chemical combinations; weights and measurements; theory of metals; acids, bases, salts, solvents, solutions, and emulsions. Introduction to organic chemistry is included. Three laboratory hours per week.

CHM 110 General Chemistry for the Health Sciences

3-3-4

This is a brief presentation of the basic principles of chemistry. Emphasis will be on application of these principles to the Allied Health fields. Topics covered will include the following: systems of measurement, structure of matter, chemical bonding, stoichiometric, reactions, solutions, chemical equilibrium, and basic organic chemistry. (Su)

CHM 151 General Chemistry

3-3-4

An intensive treatment of basic principles with emphasis upon atomic and molecular theory. Special attention is given to quantitative topics. Three laboratory hours per week. Prerequisites: Currently taking MAT 151 or higher. (F)

CHM 152 General Chemistry

3-3-4

A continued study of basic principles with emphasis on solutions, the solid and liquid states of matter, and oxidation-reduction reactions. The laboratory considers the separation and identification of the more common cations and anions. Three laboratory hours per week. Prerequisite: CHM 151. (W)

CHM 153 General Chemistry

3-3-4

A continuation of general chemistry with major emphasis on stoichiometric chemistry, equilibrium reactions, electro-chemistry, acid-base reactions, and a brief introduction to organic chemistry. Three laboratory hours per week. Prerequisite: CHM 152. (Sp)

CHM 250 Organic Chemistry I

4.5-6

A study of the properties and reactions of aliphatic and aromatic hydrocarbon compounds with emphasis on mechanisms and structural influences. Laboratory exercises will deal with extraction/purification and synthesis. Prerequisite: 1 year of General Chemistry. (Su)

CHM 251 Organic Chemistry II

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Deals with the major functional group compounds, their synthesis and reactions. Laboratory will consider major reaction types. Prerequisite: CHM 250. (5u)

CRIMINAL JUSTICE

CIC 100 Basic Law Enforcement Training

16-30-26

The North Carolina Criminal Justice Education and Training Standards Commission requires all law enforcement officers to complete a Commission-approved training course. CJC 100 satisfies that requirement and prepares the student for the state comprehensive examination administered by the Commission at the conclusion of the course. This course is limited to sworn law enforcement personnel.

CJC 101 Nature and History of Law

5-0-5

The study of pre-political organizations of society; pre-legal means of social control; beginnings of potentially organized society; and beginnings and development of law as a means of social control in politically organized society.

CJC 102 Introduction to Criminal Justice System

5-0-5

This course is designed to introduce the student to the criminal justice system including the history, development, and current application of criminal justice in modern society. National crime data and statistics, criminology, criminal law, and constitutional law will also be reviewed within an introductory context. CJC 103 The Law Enforcement Officer's Function in Criminal Justice 5-0-5. The study of officers function in criminal justice will provide the student with an adequate background in the daily functions and responsibilities of law enforcement officials.

CJC 104 The Court's Function in Criminal Justice 3-0-3
This course will provide an introductory study of the modern court system in America. The structure and function of both federal and state courts will be explored, along with the scope and responsibilities of the judge, prosecutor, and defense attorney. The court process will also be studied, including the criminal trial.

CJC 105 Corrections in Criminal Justice 3-0-3
This course will provide an in-depth study into the role that corrections plays in modern criminal justice system.

CJC 106 Juvenile Justice 5-0-5
This course will provide students with a broad overview of the American juvenile justice system. Tracing the system from its earliest origins to the present, the weaknesses of the present system will be explored, along with suggestions as to how to best stem the rising tide of juvenile crime. Why juveniles commit crimes, crime data, and constitutional mandates upon juvenile justice will also be explored.

CJC 107 Introduction to Criminology 5-0-5

This course will provide students an introductory study into why and how crime occurs.
Relying on a sweeping array of crime data and statistics, various theories will be explored
concerning the origin and cause of criminal behavior. Sociological, psychological, and
biological theories will be discussed, along with an analysis of specific violent criminal
behavior such as murder and rape.

CJC 109 Victimology 3-0-3
Reflecting increasing attention on the victims of crime, this course will explore the plight of crime victims in modern day America. Largely ignored by the legal system in the past, students will study the historical treatment of victims. The devastating consequences of crime will also be revised, including the emotional and financial costs of crime, the needs and problems of special types of victims, recent trends in victimology, and the unique problems of balancing victim rights with criminal rights.

CJC 201 Criminal Law I 3-0-3
This course will explore the development of modern criminal law from its primitive origins to the complex system of today. General principles of law will be studied providing a foundation for the study of specific criminal offenses and laws in CJC 202.

CJC 202 Criminal Law II

3-0-3

This course will explore in detail the elements that make up a broad range of modern criminal law. A discussion of both felonies and misdemeanors will be included, as well as the historical origin of various laws, the need and purpose of such laws, and the esoteric application of such law within the criminal courts. This course will focus on both criminal statutory law, as well as case law and English common law and also North Carolina criminal law.

CJC 203 Motor Vehicle Laws of North Carolina 5-0-5
This course will provide an in-depth study of the motor vehicle laws of North Carolina, as well as those laws similar in other states. The purpose for enforcing motor vehicle laws will also be discussed including both national and state motor vehicle accident data.

CJC 204 Criminal Evidence 3-0-3
This course will provide an in-depth study into the role that criminal evidence plays in the modern criminal justice system. Laws of criminal evidence as it relates to the courtroom trial will provide students a thorough introduction into criminal evidence.

This course will provide an introductory study into the fundamentals of criminal investigation. Included in the instructional format will be both lecture, as well as practical exercises involving crime scene management and criminal investigation methods and techniques. Extensive practice or criminal investigative procedures will be emphasized.

CJC 206 Introduction to Criminalistics

4-3-5

This course will provide an introductory look into the application of science and laboratory techniques in modern criminal investigations. Using both lecture and hands-on training, students will be exposed to scientific concepts as diverse as fingerprints, blood splatter analysis, DNA, and trace metal detection. More than old-fashioned logic, modern criminal investigations rely on the latest advances in the scientific and medical fields. This course will introduce the student to such concepts and methods.

CIC 207 Law of Arrest, Search and Seizure

3-0-3

This course will provide a broad overview of procedural law, the law that governs the actions of law enforcement agencies in conducting arrest, searches, and seizures. Relying on both constitutional and case law, students will also be exposed to North Carolina statutory law as it governs such government action.

CJC 208 Use of Deadly Force

3-0-3

This course will focus on the application and use of deadly force as it relates to those in the law enforcement profession. Covering a broad spectrum of issues, students will explore statutory and constitutional concerns, as well as departmental policies, community interest, the media, and the human element in the use of deadly force. Court cases will also be reviewed, including the consequences of unjustified use of deadly force.

CIC 209 Law Enforcement Organization and Administration

3-0-3

This course will emphasize the management responsibilities of modern small law enforcement agencies. Agency size, structure, and purpose will be explored, along with various problems that such agencies encounter. In addition, leadership traits and qualities will be explored including an emphasis on personal leadership development.

COOPERATIVE EDUCATION

COT 100 Employment Seeking Skills

1-0-1

A course designed to help prepare the student for the world of work. The Cooperative Education Program is explained with emphasis on employee responsibilities and employer expectations in a job situation. The student receives instruction in interview techniques and develops a resume.

COE 101-106 Co-Op Parallel Work Experience

Through the Cooperative Education Program, the student works in a position related to his or her program of study and for an employer selected and/or approved by the College. The student attends classes and works on a parallel plan. Grades will be determined by the evaluations by employers, students, and the Co-op office.

Credit

1-2 Hours/Quarter

Contact

10-20 Hours/Quarter

Prerequisite

Full Admission to the Co-op Program; a minimum of one quarter at ICC with minimum C.P.A. of 2.0.

*Course numbers designation for registration:

COE 101 - 1st quarter student has parallel work assignment

COE 102 - 2nd quarter of parallel work assignment, etc.

COE 201-202 Co-Op Alternate Work Experience

Through the Cooperative Education Program, the student works in a full-time position directly related to his or her program of study and for an employer selected and/or approved by the College. The student attends classes full-time one quarter then works full-time the next quarter and does not attend classes. Grades will be based primarily on evaluation of the student's progress on the job by the employer, the student, and the Co-op office.

> Credit Contact

4 Quarter Hours 40 Quarter Hours

Prerequisite

Full admission to the Co-op Program

COE 250 Practicum

0-10-1

This supervised practicum experience gives the student an opportunity to apply age-appropriate principles of child development, relationships, and learning in a special needs environment. The seminar gives the student an opportunity to evaluate practical experiences and to discuss curriculum components.

COE 251 Practicum

0 - 10 - 1

This supervised practicum experience gives the student an opportunity to apply age-appropriate principles of child development, relationships, and learning in a preschool environment. The seminar gives the student an opportunity to evaluate practical experiences and to discuss curriculum components.

COE 252 Internship

0-10-1

This supervised internship gives the student an opportunity to apply age-appropriate principles of child development relationships and learning in a selected early childhood or elementary environment. The seminar gives the student an opportunity to evaluate practical experiences and to discuss curriculum components.

COE 254 Practicum

0-10-1

This supervised practicum experience gives the student an opportunity to apply age-appropriate principles of child development, relationships, and learning in an elementary environment. The seminar gives the student an opportunity to evaluate practical experiences and to discuss curriculum components.

COE 255 Practicum

0-10-1

This supervised practicum experience gives the student an opportunity to apply age-appropriate principles of child development, relationships, and learning in special needs environment. The seminar gives the student an opportunity to evaluate practical experiences and to discuss curriculum components.

COE 256 Practicum

0.20.2

This supervised practicum gives the student an opportunity to apply age-appropriate principles of child development relationships and learning in a selected early childhood or elementary environment. The seminar gives the student an opportunity to evaluate practical experiences and to discuss curriculum components.

COSMETOLOGY BEGINNER'S DEPARTMENT

Students shall spend three hundred (300) hours in this department before entering the advanced department and shall not work on members of the public during this 300 hours. The hours earned in the department shall be devoted to the following: Scientific Study and Mannequin Practice. Manicuring practice in this department shall be done on students enrolled in the school during the first 300 hours.

COS 1001 Introduction to Cosmetology

5-0-0-5

This course introduces the beginning student to various aspects of cosmetology, ethics, human relations, and orientation. The course includes the study of the hair and skin; the effects of cosmetics and chemical upon the hair and skin; cleansing, conditioning, and cutting of the hair; the basic of hairstyling; cosmetology law and first aid; and sterilization and sanitizing of implements and equipment. This course provides the cosmetology student with an understanding of not only "why" certain techniques are performed but also which chemical actions and reactions may be expected from the cosmetic products employed. Retail selling principles as they apply to products and services.

COS 1011 Mannequin Practice

2-0-21-9

Mannequin practice allows the student to develop cosmetological skills that will be needed when providing services to the public in a full service salon. The practical work is devoted to draping, finger waving, pin curling, marcelling, hair styling, hair cutting, hair relaxing, permanent waving, roller placement, thermal pressing, curling, application of products. After demonstration by a faculty member, hair and scalp treatments, shampooing, facials with massage, make-up, air waving, hair color and manicures will be practiced on other students. A study of skin disorders, procedures for correcting disorders, skin analysis, corrective and maintenance facial treatments, color analysis, and professional make-up application will also be studied. Emphasis is placed on first aid skills and sanitary and safety precautions. Prerequisite: COS 1001

ADVANCED DEPARTMENT

The hours earned in the advanced department shall be devoted to the study and live model completions. Work in the department may be done on the public. Students with less than 300 hours shall not work in this department.

COS 1002 Cosmetology Theory I.

5-0-0-5

This is a classroom study of advanced principles: chemical reformation (permanent waving, chemical relaxers); selling salon services and products; the basic principles of haircutting to achieve the various styles; how to style hair according to bone and body structure, facial features, lifestyle and customer preference; selection, hair composition and how its chemistry is affected by various products used in the salon; thermal pressing and styling and various scalp treatments. Prerequisite: COS 1001

COS 1022 Cosmetology Skills t

2-0-21-9

This is a classroom study of advanced principles: chemical reformation (permanent waving, chemical relaxers); chemicals incorporated in products, selling products and services; the basic principles of haircutting to achieve the various styles; how to style hair according to bone and body structure, facial features, lifestyle and customer preference; selection, care and styling of wigs and hairpieces; thermal pressing and styling and various scalp treatments. The students will study the theory of haircoloring, the pri scale, the structure of the hair in relation to haircoloring, the three classifications of haircoloring, the use of haircoloring to create special effects, and common problems encountered in haircoloring. The seven elements of design; form, line, movement, texture, size, value, and color will be introduced to the student with emphasis on form. Prerequisite: COS 1011

COS 1003 Cosmetology Theory II

5-0-0-5

This is a classroom study of the theory concept, application, and history of haircoloring; nails and disorders of the nails; anatomy of the arm and hand; and manicuring and pedicuring and wigs. Prerequisite: COS 1001

COS 1033 Cosmetology Skills II

2-0-21-9

This course is a continuation of instructor demonstrations and student live-model performances in the application of temporary haircolor, semi-permanent haircolor, permanent haircolor, hairlightening products and toners. The practice of pressing, curling and shaping the hair, hairwaving, perming, relaxing, hairstyling, manicuring and pedicuring are also presented in this course. This course is designed to give the experienced students an overview of the newest trends in hair sculpting and design and to develop advanced skills in sculpting design. Prerequisite: COS 1011

COS 1004 Cosmetology Theory III

5-0-0-5

This classroom study includes fundamentals of skin and its care, basics of facial massages, makeup application and corrective contouring, electricity and light therapy, professional business relationships and successful salon retailing, operating a beauty salon, and review of laws that govern cosmetologists. Prerequisite: COS 1001

COS 1044 Cosmetology Skills III

2-0-21-9

This course is a continuation of advanced demonstrations and clinical practices in all phase of beauty salon applications including sculptured nails and nail artistry. Students develop speed and accuracy in cosmetological skills which will enable them to be more effective and successful. The student will continue studies in laboratory practices in chemistry, sterilization, safety measures, the proper use of a curling iron, marcelling and speed in all areas of beauty salon service. Prerequisite: CO5 1011

COS 1055 Advanced Cosmetology Skills

3-0-22-10

This course is designed for the student who wishes to complete the additional hours and live model projects, as set forth by the North Carolina State Board of Cosmetic Art Examiners so that one may take the Cosmetologist Exam without serving the six month apprenticeship. Students will review theories and concepts and will explore advanced methods of hairstyling, haircutting, and creative concepts in hair coloring, sculptured nails and nail art. Prerequisite: COS 1044

COS 1101 Cosmetology Theory I

4-0-0-4

This course introduces the beginning student to various aspects of cosmetology, ethics, human relations, and orientation. The course includes the study of the hair and skin; the effects of cosmetics and chemicals upon the hair and skin; cleansing, conditioning, and cutting of the hair; the basics of hairstyling; cosmetology law and first aid; the sterilization and sanitizing of implements and equipment. Students will also learn conduct in relation to co-workers and others.

COS 1111 Cosmetology Skills I

1-0-18-7

Cosmetology Skills I allows the student to develop cosmetology skills that will be needed when providing services to the public in a full service salon. The practical work is devoted to draping, fingerwaving, pincurling, marcelling, hairstyling, haircutting, hair relaxing, permanent waving, roller placement, thermal pressing, and curling. After demonstration by the instructor, hair and scalp treatments, shampooing, facials with massage, make-up, air waving, hair color and manicures will be practiced on other students. Skin analysis, corrective and maintenance facial treatments, color analysis, and professional make-up application will also be studied. Emphasis is placed on first aid skills and sanitary and safety precautions. Prerequisite: COS 1101

COS 1102 Cosmetology Theory II

4-0-0-4

This is a classroom study of advanced principles: chemical reformation (permanent waving, chemical relaxers); the basic principles of haircutting to achieve the various styles; how to style hair according to bone and body structure, facial features, lifestyle and customer preference; thermal pressing and styling and various scalp treatments. Prerequisite: COS 1101

COS 1112 Cosmetology Skills II

1-0-18-7

A classroom study of advanced principles: chemical reformation (permanent waving, chemical relaxers); the basic principles of haircutting to achieve the various styles; how to style hair according to bone and body structure, facial features, lifestyle and customer preference; selection, care and styling of wigs and hairpieces; thermal pressing and styling and various scalp treatments. The student will study the theory of haircoloring, pH scale, structure of the hair in relation to haircoloring, three classifications of haircoloring, use of haircoloring to create special effects, and common problems encountered in haircoloring. The seven elements of design - form, line, movement, texture, size, value, and color will be introduced to the student with emphasis of form. Prerequisite: COS 1111

COS 1103 Cosmetology Theory III

4-0-0-4

This is a classroom study of the theory concept, application, and history of haircoloring, nails and disorders of the nails, anatomy of the arm and hand, and manicuring and pedicuring. Prerequisite: COS 1101

COS 1113 Cosmetology Skills III

1-0-18-7

This is a continuation of instructor demonstrations and student live model performances in the application of temporary haircolor, semipermanent haircolor, permanent haircoloring, hairlightening products and toners. The practice of pressing, curling and shaping the hair, hairwaving, perming, relating, hairstyling, manicuring and pedicuring are also presented in this course. This course is designed to give the experienced students an overview of the newest trends in hair sculpting and design and to develop advanced skills in sculpting design. Prerequisite: COS 1111

COS 1104 Cosmetology Theory IV

4-0-0-4

This classroom study includes fundamentals of skin and its care; basics of facial massages, makeup application and corrective contouring; electricity and light therapy; professional business relationships and successful salon retailing; operating a beauty salon; and review of laws that govern cosmetologists. Prerequisite: COS 1101

COS 1114 Cosmetology Skills IV

1-0-18-7

This course is a continuation of advanced demonstrations and clinical practices in all phase of beauty salon applications including sculptured nails and nail artistry. Students develop speed and accuracy in cosmetological skills which will enable them to be more effective and successful. The student will continue studies in laboratory practices in chemistry, sterilization, safety measures, the proper use of a curling iron, marcelling and speed in all areas of beauty salon service. Prerequisite: COS 1111

COS 1105 Cosmetology Theory V

4-0-0-4

This course is designed for students who wish to complete the additional hours and live model projects, as set forth by the North Carolina State Board of Cosmetic Art Examiners so that one may take the Cosmetologist Exam without serving the six month apprenticeship. Students will review theories and concepts and will explore advanced methods of hairstyling, haircutting, and creative concepts in haircoloring, sculptured nails and art. Prerequisite: COS 1101

COS 1115 Cosmetology Skills V

1-0-18-7

This course is designed to introduce the junior students (300-1200 hours) to all the services given in the full service salon. Each procedure will be explained verbally, followed by a review of a written task analysis, a five demonstration and/or audio/visual, and guided practice of the task on a mannequin supervised by the instructor. The procedures learned this quarter include an introduction to fingerwaving, pincurling, draping, wet construction hair styling, airwaving, marcelling, chemical reconstruction, shampooing and rinsing, scalp treatments, hair designing, hair sculpting, haircoloring, waxing, nail care, skin care, wig care, and styling will be a review and advanced in-depth technique in preparing the students for work in the salon. Prerequisite: COS 1111

COS 1106 Cosmetology Theory VI

4-0-0-4

This course is designed for students who wish to complete the additional hours and five model projects, as set forth by the North Carolina State Board of Cosmetic Art Examiners so that one may take the Cosmetologist Exam without serving the six month apprenticeship. Students will review theories and concepts and will explore advanced methods of hairstyling, haircutting, and creative concepts in haircoloring, sculptured nails and art. Prerequisite: COS 1101

COS 1116 Cosmetology Skills VI

1-0-18-7

This course is designed for students who wish to complete the additional hours and live model projects, as set forth by the North Carolina State Board of Cosmetic Art Examiners so that one may take the Cosmetologist Exam without serving the six month apprenticeship. Students will review theories and concepts and will explore advanced methods of hairstyling, haircutting, and creative concepts in haircoloring, sculptured nails and art. Prerequisite: COS 1111

COMPUTER SCIENCE/LANGUAGE

CSC 106 Principles of Problem Solving

3.2.

This course is a prerequisite to all programming courses. Approved structured methods of problem definition, logic development, flowcharting and modularization will be explored to introduce the student to fundamentals of business computer programming solutions. The BASIC programming language will be used to develop, test and verify typical problem solutions. (F)

CSC 151 Introduction to Computer Programming

3-0-3

This course emphasizes problem solving through the use of algorithms and pseudocode. The pseudocode will be translated into a high level computer language. Languages introduced are BASIC, Logo and Pascal. Topics to be covered include basic input-output operations, simple control statements and looping. Related computer lab required.

CSC 152 Pascal Programming

3-0-3

This course provides a more detailed study of structured programming techniques, data types, procedures, functions, arrays, files and data structures. Related computer lab required. Prerequisite: CSC 151.

CSC 161 FORTRAN Programming

3-0-3

The student will learn the fundamental programming rules of the FORTRAN (FORmula TRANslation) language, and its applications to numerical computation and file manipulation. Emphasis will be placed on developing programming techniques to translate problem statements into workable programs. A variety of business and scientific problems will be programmed and tested on the IBM S/36 computer or the TRS-80 microcomputer. Prerequisite: CSC 151. (Sp)

CSC 210 BASIC Programming

3-2-4

The student will study the BASIC programming language with applications including decisions and loops, arrays, file manipulation, menus and reports, sorting, tree structures, and graphics. Prerequisite: CSC 106. (F)

CSC 215 Visual BASIC Programming

3-2-4

The student will study the use of a graphical user interface (GUI) to build applications. Topics include creation, writing, running, reviewing, and saving the design; variables and constants; statements; expressions; procedures; use of Visual BASIC forms and tools; program control; use of procedures and functions; and debugging and error handling. Prerequisite: CSC 210

CSC 220 RPG/400 Programming

4-3-5

This course is a study of the RPG/400 programming language. Emphasis will be placed on the RPG fixed logic, calculations, control breaks, editing, arrays and tables, file access and manipulation, and interactive applications. Prerequisite: CSC 106

CSC 225 CL/400 Programming

3-2-4

The student will design, code and execute a variety of Control Language (CL) programs. Use of CL variables, arithmetic and string manipulations, and display files will be discussed and implemented through a variety of hands-on demonstrations/assignments on the AS/400 mid-range computer. Prerequisite: CAS 200, CSC 106

CSC 227 C Programming

3.2.4

The student will study the C programming language with applications containing calculations, loops, decisions, functions, arrays and strings, and basic file manipulation. Prerequisite: CAS 160 or permission of the instructor.

CSC 228 Advanced C Programming

3-2-4

A continuation of CSC 227, this course will include advanced C programming applications, including pointers, keyboard and cursor manipulation, structures, unions, and ROM BIOS, memory and character display operations, color graphics, and in-depth file manipulations. Prerequisite: CSC 227.

CSC 230 COBOL Programming

5-3-6

The COmmon Business Oriented Language (COBOL) is presented in detail, including structured concepts, calculations and comparisons, control breaks, sorting, file manipulations, tables, editing, and subprogramming. Prerequisite: CSC 106

CSC 251 Algorithms & Programming

3-0-3

A course in various programming concepts, including computer characteristics and operating systems as needed, but with emphasis on algorithms using pseudocode. Original algorithms are developed, programmed and documented. Use is made of subroutines, disc files, arrays and the various programming paraphernalia during the course. Related computer lab required. Prerequisite: CSC 152.

CSC 252 Assembly Language and Machine Operation

3-0-3

This course includes data representation in the computer, computer logic, and a brief look at circuits, hexadecimal and binary numbers and arithmetic with emphasis on the study and practice of assembly language programming. Related computer lab required. Prerequisite: CSC 251.

CSC 253 Data Structures

3-0-3

The use and implementation of various information structures, including arrays, records, stacks, queues, linked lists and trees. Related computer lab required. Prerequisite: CSC 251.

DAN 151 Introduction to Modern Dance

1-2-2

This course will introduce the student to the basic principles of dance and will include philosophy and some early history of dance as an art form. No previous experience in dance is needed.

DAN 152 Beginning Modern Dance and Improvisation

1-2-2

This course will continue training in modern dance technique and movement and will include specific history of modern dance from the 1920's to 1990's.

DAN 153 Beginning Modern Dance and Composition

1-2-2

This course will continue the technique started in Dance 151 and 152 with more emphasis on original work. The course will end with a workshop at which students' works will be presented.

DRAFTING DESIGN

DDF 201 Design Drafting I

2-6-4

Charts and graphs, design layouts and working drawings of gears, gear train drives, belt and pulley drives, and chain and sprocket drives. Prerequisite: DFT 101, 102, and 103

DDF 202 Design Drafting II

2-6-4

Assignment of mechanical design requiring use of research; application of basic engineering principles, calculations, and use of various manuals, catalogues, and periodicals. Preliminary design sketches layout drawings, detail drawings, sub-assembly drawings, assembly drawings specifications, patent drawings and simplified drawing practices will be required. Prerequisite: DDF 201.

DDF 212 Jig and Fixture Design

3-3-4

Jig and foture design is the process of designing and developing the tools, methods, and techniques necessary to improve manufacturing efficiency and productivity. Commercial standards, principles, practices and tools of Jig fixture design will be studied. Individual project and design work will be assigned to acquaint students with the basic process of design. Prerequisites: DDF 201 and DDF 202.

DESIGN (CREATIVE AND AESTHETIC)

DES 101 Graphic Layout and Design I

3.3.4

This is the beginning class for the commercial graphics program and is excellent for anyone interested in graphic layout and design. Students will be exposed to the different elements involved in a layout such as display type, artwork, and body copy. Students will begin to work with tools needed to produce layouts and will begin to use all these elements in the creation of posters, ads, and logos.

DES 102 Graphic Layout and Design II

3-3-4

This course follows DES 101 in the production of original designs and layouts. Students should be accomplished in the handling of designers tools and supplies and will be expected to produce artwork using the sketching development process. Creativity will be emphasized and an exploration of mechanical artwork and printing processes will begin. Prerequisite: DES 101 or permission from the instructor

DES 103 Typography and Design III

3-3-4

This course will place emphasis on typography as a design tool. Assignments will be type/ heavy. Some use of computers will be involved, and the study of the history and anatomy of type will be explored. Prerequisites: DES 101, 102, or permission from the instructor Computer Graphics is a course designed to give the student an overview of the uses of computers in the field of graphics and type generation. The course work encompasses the Macintosh computer with PageMaker and Freel-land software packages. The students will be introduced to the basic functions of hardware and software applications as they apply to the needs of the industry. Prerequisites: DES 101, 102, 103, or permission from the instructor

DES 105 Graphic Arts

1-6-3

In this course the students will become familiar with skills and techniques necessary to prepare a design for printing. Covered will be copy camera operation in the making of line shots and halftones. Also, the student will be expected to strip negatives, line and halftones, incorporating various elements such as step and repeats burns, multiple burns, screen tints, due tones and any other specialized procedures in darkroom work. Students must be able to produce daylight proofs to assure that all registration and stripping procedures are correct. Will be exposed to various types of films and materials available. Prerequisites: DES 101, 102, 103, 104, or permission from the instructor

DES 111 Airbrush I

2-3-3

This class will be an exploration of the many uses of the airbrush. The first meeting will serve as an introduction where the fundamentals of airbrush techniques will be covered extensively. Upon completion of the first two assignments, students will be encouraged to go into whichever area of airbrushing interests them most, whether it be freehand or controlled.

DES 201 Commercial Art I

3-3-4

The commercial art course series is designed for the development of areas in graphic design, commercial art, and illustration. Students will develop techniques used in the creative process, and emphasis will be placed upon individual areas of interest. Prerequisites: DES 101, 102, 103, 104, or permission from the instructor

DES 202 Commercial Art II

3-3-4

The commercial art course series is designed for the development of areas in graphic design, commercial art, and illustration. Students will develop techniques used in the creative process and emphasis will be placed upon individual areas of interest. Assignments become more complex and uses of mediums and equipments are expanded. Prerequisites: DES 101, 102, 103, 104, 201, or permission from the instructor

DES 203 Commercial Art III

3-3-4

The commercial art course series is designed for the development of areas in graphic design, commercial art, and illustration. Students will develop techniques used in the creative process and emphasis will be placed upon individual areas of interest. Three-dimensional design problems will be introduced. Students will be asked to work in group environments with leadership qualities being explored. Prerequisites: DES 101, 102, 103, 104, 201, 202, or permission from the instructor

DES 204 Commercial Art IV

3-3-4

The commercial art course series is designed for the development of areas in graphic design, commercial art, and illustration. Students will develop techniques used in the creative process and emphasis will be placed upon individual areas of interest. Students will be expected to complete projects accurately and in a timely manner being able to present finished artwork to a client. Prerequisites: DES 101, 102, 103, 104, 201, 202, 203, or permission from the instructor

DES 212 Illustration I

3-3-4

This course is provided for those whose special talents are in illustration. Also, it's excellent for those not in the Commercial Graphics program. Students are encouraged to develop their own individual techniques while also exploring new and different methods. Classroom atmosphere is excellent due to input from each students successes and failures. Various mediums will be used such as water color, pastels, pencil, pen and ink, acrylic painting, or an combination of these. Frequent critiques insure that each process is well thought out, and the finished piece is successful.

DES 214 Illustration II

3-3-4

The second in a two part series. Students will continue to explore the many mediums available to them. The students will be required to represent varied techniques and content drawings. Prerequisite: DES 212 or permission from the instructor

DES 216 Portfolio Preparation

1-6-3

This course will focus on the importance of developing and organizing a good portfolio as preparation for the job market. Students will organize and prepare their portfolio pieces for job interviews, which will be set up for practice. Also, students will prepare resumes, cover letters, personal letterheads, and logos. Job searching will begin and upon graduation students will be ready and comfortable in actual job interview situations. Prerequisites: DES 101, 102, 103, 104, 201, 202, 203, 204, 212, 214, GRA 152, 153, PHO 121, 122, 123, or permission from the instructor

DES 220 Computer Graphics

2-2-3

An introduction to the generation of graphics with the aid of a computer. Particular attention will be given to 2-D and 3-D forms, advertising, logos, typography and related design features. Prerequisite: Computer knowledge perferred but not required

DRAFTING

DFT 101 Engineering Drawing I

0-6-3

The field of drafting is introduced as the student begins the study of drawing principles and practices for print reading and describing objects in the graphic language. Basic skills and techniques of drafting are included and use of drafting equipment, lettering, freehand orthographic instrument drawing of principal views, and standards and practices of dimensioning. The principles of isometric, oblique, and perspective are introduced.

DFT 102 Engineering Drawing II

0-6-3

The application of orthographic projection principles to the more complex drafting problems, views, revolutions, and sections. Most important is the introduction of the graphical analysis of space problems. Problems of practical design elements involving points, lines, planes, and a combination of these elements will be studied. Dimensioning practices approved by the American National Standards Institute will also be included. Prerequisite: DFT 101.

DFT 103 Engineering Drawing III

0-6-3

This course is a continuation of DFT 102 - Engineering Drawing II. Dosign and working drawings and isometric pictorials will be studied. Special emphasis will be given to the specific interest of the student. Prerequisite: DFT 101 and DFT 102.

DFT 209 Industrial Systems Schematics

2-3-3

The student will read and draw schematic representations of water and gas plumbing, hydraulic and pneumatic circuits and electrical circuits. A brief overview of each area will be given to provide the student with a basic knowledge of the physical phenomena associated with each of these energy transport systems.

DFT 211 Mechanisms

3-3-4

Mathematical and drafting room solutions of problems involving principles of machine elements. Applications and construction of fasteners, keys, springs, gears, and cams will be covered by lecture and lab activities. Prerequisites: DFT 101, 102 and 103

DFT 220 Computer Aided Drafting and Design I

2-3-3

A study of the basic concepts that a drafter or potential drafter needs to know about CAD. The course will address several areas pertaining to CAD, such as why computer-aided drafting is used; types of CAD equipment; why CAD is used; techniques used in the operations of CAD.

DFT 221 Computer Aided Drafting and Design II

2-3-3

Further practice in Computer Aided Drafting (CAD) for the advanced student. At the completion of this class, the student should be able to do any type of drawing on the computer, such as electronics, mechanical, architectural, and schematic.

DFT 222 Technical Illustration

3-3-4

The techniques of design and illustration using isometric, oblique, and perspective drawings. Including: sketching, inking, shading, airbrush techniques, renderings, and finished illustrations. Prerequisite: Permission of instructor.

ECONOMICS

ECO 201 Principles of Economics

3-0-3

An introduction to economic principles, problems, and policies, the nature of economic concepts, the principles and problems involved in national incomes, employment and prices, and aggregate demand. (F)

ECO 202 Principles of Economics

3-0-3

A continuation of Economics 201 with emphasis on the market and price system, the allocation of resources, business cycles, monetary and fiscal policy. (W)

ECO 203 Principles of Economics

3-0-3

A continuation of Economics 202 with emphasis on a study of the international economy and perspectives on economic change and comparative systems. (Sp.)

ECO 204 Free Enterprise Economics

3-0-3

This course will include a study of basic micro-economics, economic principles and legislation that affects the natural levels of unemployment, income and prices.

ECO 225 Business and Economic Statistics

3-0-3

An introduction to basic modern statistics for those new to the subject. The study uses reallife situations and applications to describe what statistics is, how and when to apply statistical techniques to managerial situations, and how to interpret the results. (W)

ECO 250 Managerial Economics

3-0-3

This course is designed to acquaint the manager with various economic concepts which include: opportunity cost, supply and demand, cost, comparative advantage, competition, monopoly, pricing, monetary policy, fiscal policy, and international economics. (W)

ECO 260 Consumer Economics

3-0-3

A study of personal financial problems in such areas as housing, budgeting, loans, banking, taxes, credit and insurance. (W)

ECO 261 Labor Economics

3-0-3

Emphasis is placed on the history of the labor movement in the United States, the development of methods and strategies by labor organizations and management, the shift in the means of public control, and the factors of income and economic security. (Su)

EDUCATION

EDU 101 Foundations in Childhood Education

3-0-3

This course is a study of education as an institution in American Society, its foundation, development, function, and organization. The course focuses on the philosophy, theory, history, and federal, state, and local structure as it applies to public school classrooms.

DU 103 Teacher Associate Principles and Practices

3:0:3

This course is designed to provide a comprehensive overview of the teacher associates' role within the elementary school. Topics will include professionalism, parent relations, job responsibilities, cultural diversity, community resources, communication skills, and identifying the optimal learning environment.

EDU 104 Child Care Credential I

3-0-3

This course provides the first half of instruction necessary to qualify for the NC Child Care Credential. Areas of study include introduction to the child care profession, child growth and development, and getting to know the whole child.

EDU 105 Child Care Credential II

3-0-3

This course provides the second half of instruction necessary to qualify for the NC Child Care Credential. Areas of study include developmentally appropriate practices, positive guidance, and providing a safe and healthy environment.

EDU 107 Child Administration, Supervision and Standards

5-4-7

This course presents policy and procedures for operation of group care for children. Topics include principles of supervision, budgeting and funding, relationships with service and regulatory agencies, and state licensing guidelines. This course meets the NC Child Day Care Section's requirements for child day care administrators.

EDU 110 Introduction to Trade/Industrial Education

3-0-3

The philosophy, scope and objectives of industrial, vocational and occupational education; survey of employment opportunities; current events; and members of instruction in vocational programs.

EDU 111 Occupational Analysis and Course Development

3:0:3

Principles and techniques of selecting and analyzing suitable teaching activities and arranging such material into a functional instructional order. Instructional units prepared will be based on an analysis of vocational occupation or activity.

EDU 112 Instructional Methods

3-0-3

This course includes the various instructional methods in vocational education with emphasis on behavioral objectives and individualized instruction.

EDU 113 Shop Organization and Planning

3-0-3

A study of problems related to vocational shop layout, planning and management, supplies and equipment handling, textbooks, and sources of materials, will be made. The study will be required to design a shop or lab for his/her particular vocation.

EDU 114 Shop Safety

3-0-3

Basic principles of school shop safety will be studied. The OSHA regulations pertaining to educational institutions will be emphasized. Good housekeeping and fire prevention will be studied as well as machine guarding and personal protective equipment for various types of school shops. The importance of safety planning will be stressed.

EDU 117 Instructional Television

1-0-1

This course is designed to teach the use of color portable cameras in educational and industrial settings. Students will learn the use of the equipment and the development of informational video tapes. Students will learn how to use storyboards and script writing in order to give direction and meaning to their video programs.

EDU 122 Child Health, Safety and Nutrition

4.0.4

This course will introduce the factors influencing a young child's health. Emphasis will be placed on safety precautions and treatment procedures, and nutrition concepts and requirements. This course emphasizes the use of creative activities for children in art, music, movement, and dramatics. Topics include creative learning environments, planning and implementing developmental appropriate teaching materials for the classroom.

EDU 205 Behavior Management

3-0-3

This course presents guidelines for positive child guidance and includes the study of behavior management as an educational tool. Students will explore strategies for guiding behavior using productive and positive techniques.

EDU 213 Children's Literature

5-0-5

This course is a study of literature for young children. Topics include criteria for evaluating the literary value of children's books and strategies for sharing literature with young children.

EDU 216 Communication Activities in Early Childhood

5-3-6

This course is designed to teach methods of developing communication skills in children. Emphasis will be placed on the basic components of the language arts speaking, listening, writing, and reading (beginnings of literacy), and their interrelatedness.

EDU 217 Exploration Activities in Early Childhood

5-3-6

This course is an introductory study of discovery experiences in science, math, and social studies. Topics will include concepts, facts, phenomena and skills in each area which young children think about, discover, and develop.

EDU 223 Working with the Child's Family and Community

3-0-3

This course studies the relationship among the family and programs for children/school and community. Topics will include study of the family's influence on the child, the interaction between the family and the caregiver/teacher associate, and the role of the caregiver/teacher associate in assisting families with their children and community resources which serve children and their families.

EDU 225 Working with Children with Special Needs

5.3.6

This course is an introduction to working with children who have special needs. Topics include identification, causes, assessment, intervention strategies and techniques, and support services.

EDU 228 Math Methods and Materials for Children

2-3-3

This course will explore the concepts, methods, and approaches for the teaching of math to children in elementary school. Students will identify and implement developmentally appropriate math experience.

EDU 229 Reading and Writing Methods and Materials for Children

2-3-3

This course explores the methods and materials used in the teaching of reading and writing in elementary schools. Topics to be covered include importance of literacy, various reading/writing approaches and assessments and strategies for instruction.

EDU 233 Curriculum Principles in Elementary School

5-0-5

This course review major elements of elementary school curriculum planning. Topics include assessment of children and curriculum, instructional planning, and environment design.

EDU 234 AV Materials and Equipment

3-0-3

Instruction in the use of AV equipment and materials. Special attention is given to the variety equipment of materials available. Hands-on preparation and presentation of lesson is the main activity in the learning process. Theories, techniques, and methods observed in day care centers and classroom settings will be discussed. Students will integrate ideas related in course work and practicum situations. This course is designed for students completing the Child Care Worker program. The practicum correlating with the seminar must be taken the same quarter.

EDU 244 Seminar I: School Age Environment

1-0-1

A seminar for the Teacher Associate program gives the student an opportunity to express practicum experiences. Emphasis is placed on special learning techniques, communications, and lesson and unit planning for the school age environment. The practicum correlating with the seminar must be taken the same quarter.

EDU 245 Seminar II: Special Needs Environment

1-0-1

A seminar for the Teacher Associate program gives the student an opportunity to express practicum experiences. Emphasis is placed on special learning techniques, communications, and lesson and unit planning for the special needs environment. The practicum correlating with the seminar must be taken the same quarter.

EDU 246 Seminar III

2-0-2

A seminar for the Teacher Associate program gives the student an opportunity to express practicum experiences. Emphasis is placed on special learning techniques, communications, and lesson and unit planning. The practicum correlating with the seminar must be taken the same quarter.

ELECTRICITY

ELC 100 DC and AC Fundamentals

5-4-3-8

An introduction to passive electronic components such as resistors, capacitors and inductors is presented. Ohm's Law and Kirchoff's voltage and current laws are introduced. The concepts of power and energy in electrical circuits are covered. The sine wave as it relates to voltages and currents in electrical circuits is studied. Series, parallel and series-parallel circuit design, analysis and troubleshooting are emphasized with theory and with a concentration on hands-on, supervised laboratory exercises. Laboratory exercises also provide instruction and extensive hands-on experience in using analog and digital multimeters, function generators, oscilloscopes, impedance analyzers, frequency counters, and AC/DC power supplies. Students construct computer models of DC and AC circuits for simulation and analysis, using electronic workbench software. Prerequisite: MAT 150

ELC 205 Applied Electricity

3-3-4

A qualitative study of units of measurement, electrical quantities, simple circuits, electromotive forces, current power, laws, basic electrical instruments and measurements, resistance, impedance, and basic circuit components. Concepts taught are generally limited to
fundamentals with very little emphasis placed on quantitative aspects. Laboratory work
will teach the proper use and care of basic hand tools and the basic manual skills used in
working with electricity. Measurement techniques and safety practices will be stressed
throughout.

ELC 1101 Fundamentals of Electricity

4-12-8

A study of the electrical structure of matter and electron theory, the relationship between voltage current and resistance in series, parallel and series-parallel circuits. An analysis of direct current circuits by OHM's Law and Kirchoff's Law. Fundamental concepts of alternating current flow, reactance, impedance, phase angle, power and resonance. Instruction in the use of electrical test instruments in circuit analysis.

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, and National Electrical Code regulations in actual building mock-ups. Prerequisites: ELC 1101 or permission from the instructor.

ELC 1103 AC/DC Machines

4-12-8

Provides fundamental concepts in single and polyphase alternating current circuits. Also, provides basic concepts concerning the characteristics and applications of DC, single phase and three-phase motors, transformers, power measurement and generators. Prerequisites: ELC 1101 or instructor's permission.

ELC 1104 Controls of AC/DC Machines

4-12-8

Provides instructions and applications in basic controls of AC/DC machines, including various push-button stations, float switches, timers, sequencing switches, pressure switches and thermostats. Prerequisites: ELC 1101 or instructor's permission

ELC 1119 National Electrical Code-Residential

6-0-6

A study of the National Electrical Code and its relationship to state and local electrical codes.

ELC 1120 Troubleshooting Methods

5-3-6

Provides instruction and application in various methods of troubleshooting components, circuits and systems.

ELC 1121 Industrial Wiring

3-3-4

Provides fundamental concepts in industrial and commercial wiring. Also, a study of various raceways used in industry, including types of conduit and the preparation and installation of each type.

ELECTRONICS

ELN 104 Semiconductor Circuits and Applications

5-8-3-10

The theory of operation of the P-N junction is explained. Diodes and their applications in power supply rectifiers, clamping and limiting circuits, and voltage multipliers are studied. Special diodes such as zedner diodes, varactors, schottky diodes, tunnel diodes, LED's, photodiodes, and PIN diodes are covered. The P-N junction theory is expanded to cover bipolar and FET transistor theory. Biasing of bipolar and FET devices and the application of these devices in small signal and power amplifier circuits are explored. Amplifier frequency response is also covered. Extensive hands-on exercises are done in the laboratory where analysis and troubleshooting of the circuits are stressed. Prerequisite: ELC 100.

ELN 105 Semiconductor Control Devices

4-4-0-6

A study of thyristors, unijunction transistors and optoelectronic control devices. Silicon-Controlled Rectifiers (SCR's), Silicon-Controlled Switches (SCS's), DIAC's, TRIAC's and the Unijunction Transistor (UJT and PUT) are examples of the thyristors covered. Optoelectronic theory and devices such as photodiodes, phototransistors, light activated thyristors, opto-couplers and laser diodes are studied. Emphasis is placed on practical industrial application of these devices. Supervised laboratory providing hands-on experience for the student. Prerequisite: ELN 104 or permission of the instructor The course introduces the student to software schematic drawing packages. Electronic packaging techniques are learned through the packaging design of an electronic product. Flowcharts are created for troubleshooting electronic systems. Techniques for documenting reports and lists of instructions are studied. Methods of drawing cable assemblies and wiring lists are presented and practiced in shop sessions. Word processor software is employed for generating various documents. Project planning through milestones charts is explored. Prerequisite: course should be taken simultaneously with ELC 100

1-2-3-3 **Fabrication Techniques** ELN 111 This course contains a potpourri of subjects critical to the development of those manipulatory skills required of the well rounded electronics technician. Practical hand-on experience will be gained in this primarily laboratory and shop course. One segment includes extensive training in soldering, desoldering and printed circuit board repairs using the latest in high reliability interconnection technology. Other subjects include, but are not limited

to: breadboarding techniques; printed circuit board layout, design and fabrication; care and preservation of electronic components and hardware. The student will receive instructor certification for each skill required in this course. Prerequisite: permission of instructor

Digital Electronics A comprehensive course covering aspects of digital electronics from number systems through integrated combinational logic circuits. Subjects included are codes, Boolean Algebra, DeMorgans Theorems, Karnaugh mapping, logic gates, noise and fanout considerations, integrated circuit logic families, flipflops/multivibrators, counters, registers, memories, and other dital circuits leading up to a study of the microprocessor/microcontroller. A heavy emphasis is placed on hands-on projects in lab. Design, analysis and troubleshooting techniques are covered in lecture and experienced in lab/shop projects. Students construct computer models of digital logic circuits for simulation and analysis, using electronic workbench software. Prerequisite: ELN 104 or permission of instructor

Microprocessor Fundamentals 2-4-3-5 ELN 208 The microprocessor is first introduced in general terms using a generic model. The 6502 microprocessor is then covered in depth stressing architecture, machine language programming and associated subjects. The student will then transfer his/her knowledge of the 6502 microprocessor to learn the difference in programming various other microprocessors. Emphasis is placed on student programming and troubleshooting projects in the lab. The peripheral interface adapter is introduced and applications are explored in the lab. Prerequisite: ELN 207 or permission of instructor

Microprocessor Interfacing 2-4-3-5 ELN 209 This course is designed to give the student an in-depth understanding of various methods for interfacing the microprocessor to external devices. Projects in lab/shop will give the student experience in positive microprocessor control of stepper motors, relays, thyristor controls, robotics, and other industrial devices. Student designed projects will use input sensors such as optoelectronic devices, limit switches, and other industrial devices interfaced to the microprocessor as control elements. Methods of using the I/O capabilities of commercial microcomputers to control industrial devices are explored. Prerequisite: ELN 208 or permission of instructor

This course is designed to bring together all the concepts of troubleshooting that have been covered by the instructor and experienced by the student during the course of the curriculum. Troubleshooting techniques and problems solving theories will be explored. A scheme for learning from past fault corrections to develop preventative maintenance methodologies is presented for "troubleshooting in advance of the fault." Extensive problem scenarios and group participation are used in presentations. Prerequisite: permission of instructor

ELN 215 Industrial Electronics

2-4-3-5

Provides instruction in the selection and application of sensors, process control devices, transducers and other hardware used to control industrial equipment. An introduction to pneumatic and hydraulic actuators and controls is included. A segment on programmable logic controllers covers relay ladder logic and PLC ladder logic diagram analysis, design and troubleshooting. Extensive hands-on experience in lab/shop includes projects requiring programming of industrial PLC's in industrial applications such as conveyor systems, and AC/DC motor control. Tours of local industrial sites will be included as time permits. Prerequisite: ELN 105 or permission of instructor

ELN 217 Linear Integrated Circuits

4-12-0-10

A presentation of linear integrated circuits with an emphasis on the operational amplifier and its applications. Types of applications include op-amp, comparators, summing amplifiers, integrators and differentiators, instrumentation amplifiers, oscillators, phase locked loops, active filters, and voltage regulators. Extensive laboratory experimentation concentrates on circuit design, analysis and troubleshooting. Prerequisite: ELN 104 or permission of the instructor

ELN 221 Advanced Programmable Logic Controllers

4-4-0-6

An in-depth study of the programmable logic controller. Special emphasis is placed on practical industrial applications. Students will design and implement several projects which will require programming, interfacing, program debugging and system troubleshooting. Prerequisite: Permission of the instructor.

ELN 1118 Basic Electronics

3-3-4

An introduction to semiconductor diodes, silicon controlled rectifiers (SCR) and transistors. A study will be made of their operation, characteristics, testing procedures and applications

ENGLISH

ENG 090 Enrichment English

2-3-3=

This course provides basic English identified as necessary to succeed in the freshman composition sequence. A study of major structural errors, grammar, mechanics, punctuation, spelling, journal-keeping, and paragraph and essay writing are components of the course. This course is oriented toward student success.

*These credits are institutional credits only and cannot be used for graduation. They are used for determining hour load for payment, eligibility for financial aid, or classification for a full-time student.

ENG 150 Writing With The Computer

0-2-1

This course is designed to teach students how to use the personal computer for writing, editing, and printing college essays, reports, and research papers. The majority of this class will be hands-on experience with the computer. Students will be required to complete study packets, lab assignments, and writing assignments for other college courses. (F,W,Sp,Su)

ENG 151 Freshman Composition I

3-0-3

A writing and reading intensive course which emphasizes writing as process and includes a study of the elements of the essay, library use, language study, and the development of word processing skills. Rhetorical strategies for writing illustration, narration, and description are studied as well as strategies for such typical college writing assignments as the critical book review and the essay examination. Prerequisite: ENG 090 and/or RED 090 or satisfactory scores on placement test. (F,W,Sp,Su)

ENG 152 Freshman Composition II

3:0:3

A writing and reading intensive course which emphasizes the writing process and includes critical reading and thinking, library use and language study. Rhetorical strategies for writing expository and persuasive essays are studied. Prerequisite: ENG 151. (W, Sp. Su)

ENG 153 Freshman Composition III

3-0-3

An introduction to writing the research paper and to analyzing selected works of literature. Library research, the proper procedures for planning and writing the research paper, and correct documentation are studied. In addition, the course involves study of selected short stories, poems, and plays, and the conventions of each genre. Prerequisite: ENG 152. (F.Sp.Su)

ENG 154 Technical Report Writing

3-0-3

A course for technical students who seek training in letter writing, report writing, and oral and written communications skill in business and industry. Prerequisite: ENG 152.

ENG 161 Honors English I

3-0-3

An advanced freshman composition course which emphasizes critical thinking and reading, essay writing, and library research. Prerequisite: Above satisfactory scores on the placement test. (F)

ENG 162 Honors English II

3-0-3

A continuation of English 161. The course is organized thematically around relevant issues. Writing assignments include the expository essay, persuasive essay, and research paper. Prerequisite: ENG 161 or recommendation of an English instructor. (W)

ENG 163 Honors English III

3-0-3

An advanced course that emphasizes reading, analyzing and writing about selected works of literature. Additional objectives include becoming knowledgeable of the conventions of fiction, poetry, and drama; responding both through discussion and writing about selected works; and gaining a deeper appreciation for good literature and its refevance. Writing assignments include several short analytical papers and one researched and documented longer paper. Prerequisites: ENG 0111 and 0112, or ENG 0101 and 0112. (Sp.)

ENG 170 Public Speaking

3-0-3

A course in oral communication which includes instruction in effective public speaking. The course emphasizes the preparation and presentation of speeches for various occasions, along with the opportunity to listen and evaluate other's speeches. Prerequisite: None. (F,W,Sp,Su)

ENG 171 Advanced Public Speaking

3-0-3

A continuation of ENG 170, a course recommended for students transferring to four-year schools that require a full semester of public speaking. Prerequisite: ENG 170. (F,W,Sp,Su)

ENG 180 Journalism

3:0-3

A course on techniques of identifying news, gathering information, writing effective accurate news and feature stories. (F)

ENG 181 Journalism Practice

0.3.4

A course on how to prepare news copy for the press, it is primarily for the preparation of the school newspaper. This course can be taken as many as six times.

ENG 182 Photo Journalism

0 - 3 - 1

A course on layout design, documentation, graphics, and copy preparation. It is primarily for the preparation of a quarterly journal and can be taken as many as six times. (f;W,Sp)

ENG 250 World Literature I

5-0-5

A study of some of the principal authors and literary works of ancient Greece and Rome. In addition to the literary works themselves, various elements of classical literature, such as epic, tragedy, comedy, etc., will be emphasized, along with historical background of the classical period. Prerequisite: Successful completion of freshman English courses.

ENG 251 British Literature I

5-0-5

A reading and writing intensive survey of major British writers from the Old English through the neo-classic period, their works, and the historical events and philosophical movements which influenced them. Term papers and projects, optional. Prerequisites: Successful completion of freshman English courses.

ENG 252 British Literature II

5-0-5

A reading and writing intensive survey of major British writers from the romantic through the modern periods, their works, and the historical events and philosophical movements which influenced them. Term papers and projects, optional. Prerequisites: Successful completion of freshman English courses.

ENG 253 American Literature I

5-0-5

A reading and writing intensive survey of American literature primarily of the nineteenth century, highlighting major literary figures and their representative writings. Special emphasis is placed on the unique contributions of each author toward the formulation of an american identity. Term papers and projects, optional. Prerequisites: Successful completion of freshman English courses.

ENG 254 American Literature II.

5-0-5

A reading and writing intensive survey of modern American literature beginning with a unit on the turn-of-the century movement of Realism, and continuing through major authors and movements of the twentieth century. Term papers and projects, option. Prerequisites: Successful completion of freshman English courses.

ENG 260 Creative Writing I

3 - 0 - 3

A course designed to develop the student's potential as a creative writer, consisting of a study of basic fundamentals, selected contemporary models, and a variety of practical classroom exercises. The student will experiment in three types of original composition: poetry, the short story, and the personal essay.

ENG 261 Creative Writing II

2.0.2

Continued guidance and experience in producing various forms of literary expression poetry, short fiction, the essay—including the procedures involved in getting published. Prerequisite: ENG 260.

ENG 265 Special Topics in Literature

variable

A course designed around timely and/or special interest topics in literature. The credit hours and the quarter in which the course will be offered will vary depending upon the situation.

ENG 1101 Communication Skills

3-0-3

A course for vocational students designed to promote the practical application of effective communication in speaking, listening and writing.

FOREIGN LANGUAGES	see FRE	, GER,	SPA for	course	descriptions.
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FRENCH

FRE 150 Travel French

2-0-2

For the person who wishes to travel in French-speaking countries. The part of the language needed to communicate basic needs will be emphasized.

FRE 160, 161, 162 Fundamentals of French I, II, III

3-2-4

This is a program of study designed to teach understanding, speaking, reading and writing of French and to grant an awareness of France and its people. Prerequisite: Must be taken in sequence.

FRE 260, 261, 262 Intermediate French I, II, III

3-2-

In this course of study, the fundamentals of French are used as the background for a basic study of the culture, civilization, and literature of France with a further development of language skills. Prerequisites: Fundamentals of French I, II, III or two years of high school French.

GEOGRAPHY

GEO 160 Physical Geography

3-2-4

The earth's astronomical relations, factors of weather and climate, and physiographic features. Two lab hours per week. (F)

GEO 161 Economic Geography

3-0-3

Geographic factors involved in production, distribution, consumption, and conservation of the major crops, minerals, and industries of the world. This course emphasizes oral communication via a seminar format. (W)

GEO 162 World Regions

3-0-3

Relation of human activities to the larger geographic regions of the world. (Sp)

GEOLOGY

GEL 151 Physical Geology I

3-3-4

The nature and occurrence of rocks and minerals, together with crustal features of the earth's surface. Laboratory work devoted to a study of rocks and minerals and their structure and occurrence. (F)

GEL 152 Physical Geology II

3-3-4

A continuation of Geology 0101 with major emphasis upon glaciation and glacial deposits, deserts, oceans, mountains and mountain building, and the earth's interior. Laboratory work will consist of topographic map interpretation. (W)

GEL 153 Historical Geology

3-3-4

Emphasis in this course is on the statiographic and fossil history of the earth as found in the earth's crust together with the necessary information on both plant and animal kingdoms to trace the evolution of life down through the ages. Laboratory work will be devoted to experience with fossils, geologic maps, and aerial photographs. (Sp)

GEL 160 Topics in Geology

3.0.3

This course is designed to acquaint elementary and high school teachers with some of the major concepts in geology and to study some of the common minerals and rocks found in Rutherford and surrounding counties. A portion of the course will be devoted to working with minerals, rock types, and fossils.

GERMAN

GER 150 Travel German

2-0-2

For the person who wishes to travel in German-speaking countries. The part of the language needed to communicate basic needs will be emphasized.

GER 160, 161, 162 Fundamentals of German I, II, III

3-2-4

This is a program of study designed to teach understanding, speaking, reading and writing of German and to grant an awareness of Germany and its people. Prerequisite: Must be taken in sequence.

GRAPHICS

GRA 151 Offset Printing I

2-3-3

A study of the printing industry, the scope of it, the theory of the four major methods used today. The importance of health and safety in the workplace will be thoroughly covered. We will learn use of the process camera, film and darkroom techniques, film assembly, and plate preparation. Press operation and some bindory skills will also be learned.

GRA 152 Offset Printing II

2-3-3

Based on what the student has learned in the Offset Printing I course, we will move into more advanced skill development. Each student will bear their part of the responsibility in the production of a book. All the skills and knowledge acquired in Offset Printing I, plus new ones, will be put to work in this class. At completion of this class the student will have great understanding of the printing process, what it takes to get something printed, and what kind of employment may be in the printing industry that may interest them. Prerequisite: GRA 151 or permission from the instructor

GRA 153 Silkscreen Printing

1-6-3

Basic serigraphy or color stencil printing. Designs are created and prepared for production, using various techniques including cut-stencil, direct, and photo emulsion.

HEALTH

HEA 250 Personal and Community Health

5-0-5

A study of physical, emotional, mental, and environmental health problems as they relate to man's internal environment and his relationship with the community. Emphasis is placed on current health problems.

HEA 260 Special Topics in Health

Variable

This course will deal with timely and/or special interest topics in the health area. The credit and the time in which the course will be offered will vary depending upon the subject and specific situation.

HISTORY

HIS 151, 152, 153 World Civilization I, II, III

3-0-3(each)

A study of historical events, cultures, societies and beliefs in a global context covering three time periods: Ancient and Medieval; Renaissance through 18th Century; 19th and 20 Century. Pre-requisite: satisfactory placement scores in reading and English or completion of RED 090 and ENG 090.

HIS 170 Black History

3-0-3

A study of the history of the American Negro from his ancient African beginnings to the present. In addition to essential historical facts, the course will emphasize a critical interpretation of the forces which have influenced the Negro's interaction with his American environment. HIS 260, 261, 262 History of the United States I, II, III

3-0-3(each)

A survey of the history of the United States: 1492-1840; 1840-1896; 1896 to the present. Pre-requisite: satisfactory placement scores in reading and English or completion of RED 090 and ENG 090. (F.W.Sp.)

HIS 265 Special Topics

variable

This course deals with any history topics which are of timely and/or special interest. Prerequisites and credit hours will vary depending on the nature of the course. Various areas of study have been offered under this course title. Examples are History via Drama and Southern Afro-Americans Since Reconstruction. These or others will be given as the need or interest develops.

HIS 299 History of North Carolina

3.0.3

This course is designed to acquaint the students with the history of North Carolina from the inception to the modern day. It is designed for the student who has an interest in how North Carolina came about and what problems it has faced down through the years since its settlement. Students will be involved in classroom discussions and group and written projects during the quarter. Pre-requisite: satisfactory placement scores in reading and English or completion of RED 090 and ENG 090.

HUMANITIES

The following courses, in addition to specified humanities courses, can be taken to fulfill the humanities requirements for the A.A., A.S., and A.A.S. degrees. If a specific course is required for a College Transfer degree, then it cannot be used to satisfy the humanities requirement. ENG 170 (Public Speaking) cannot be used to fulfill the humanities requirement in College Transfer programs.

ENG 250, 251, 252, 253, 254, 260, 261, 265,

ART 160

MUS 151, 152, 153, 181, 182

PHI 260, 261, 262

REL 160, 161, 162, 170*

DAN 151, 152, 153

ENG 171 (Technical Programs)

Foreign language courses may also be used to fulfill humanities requirements.

Students should check catalogs at transfer institutions regarding transferability of these courses.

HUM 160 Introduction to the Humanities

3 - 0 - 3

Introduction to the humanities is a course designed to acquaint students with those disciplines which are ordinarily associated with the humanities—art, music, literature, philosophy and religion—but more importantly, it is a course designed to explore what makes life good, enriched, ennobled—in short, what makes life worth living. It will deal with the "art of being human" and will emphasize an appreciation for human accomplishments in the humanities. (F,5u)

HUM 161 Special Topics in the Humanities

variable

The course will deal with timely and/or special interest topics in the humanities. The credit hours and the time in which the course will be offered will vary depending upon the situation.

HYDRAULICS

HVD 235 Hydraulics and Pneumatics

3-0-3

Industrial hydraulics will introduce fluid power theory, component functions, interpreting schematic circuits, troubleshooting hydraulic systems, and circuit design. This course is designed for anyone interested in fluid power beginning at the basic level.

HYD 236 Advanced Hydraulics and Pneumatics

3-0-3

This is the second of two courses that deals with basic theory of fluid power. Hydraulic circuits, schematic symbols, hydraulic components, and design formulas will be discussed. Emphasis will be placed upon design of advanced circuits, troubleshooting circuits and preventive maintenance. Prerequisite: HYD 235

INSURANCE

INS 273 Life, Accident, and Health Insurance

4-0-4

This course includes a study of life insurance from the following points of view; life exposure, types of life insurance and life policy provisions. Health insurance will be discussed on the following points: health exposure, types of health insurance and health policy provisions. Social insurance topics will cover social security, unemployment compensation, and disability insurance. Approved by the N.C. Department of Insurance for licensing.

INS 274 Property and Liability Insurance

4-0-4

This course includes a study of property insurance, types of automobile insurance, general liability, commercial fire, homeowners, crime insurance, and government fire and casualty insurance. Approved by the N.C. Department of Insurance for licensing.

INS 275 Medicare Supplement & Long-Term Care

1-0-1

Upon successful completion of this course, the student should be knowledgeable of the basic health care benefits provided under Medicare and Long-Term Care.

INS 278 Personal Risk Management and Insurance II-CLU

4-0-4

A study of risk management as it applies to life insurance, retirement income, investments, business health insurance, estate planning and personal insurance cases.

INS 280 Income Taxation-CLU

4-0-4

The federal income tax system with particular reference to the taxation of life insurance and annuities. The income taxation of individuals, sole proprietorships, partnerships, corporations, trusts, and estates. The way income tax laws apply to transactions of individuals and businesses is important to financial services professionals in planning that can result in minimization or deferral of taxation. (W)

INDUSTRIAL SCIENCE

ISC 111 Occupational Safety and Health

3-0-5

Problems of accidents and fire in inclustry. Management and supervisory responsibility for fire and accident prevention. Additional topics cover accident reports and the supervisory good housekeeping and fire prevention; machine guarding and personnel protective equipment; state industrial accident code and fire regulations; the first aid department and the line of supervisory responsibility; job instruction and safety instruction; company rules and enforcement; use of safety committees; insurance carrier and the Insurance Rating Bureau; and advertising and promoting a good safety and fire prevention program. (W)

ISC 113 Statistical Quality Control

3-0-3

An introduction to probability, statistics, and quality control techniques, includes graphs, measures of central tendency, grouped and ungrouped data, and problem solving. (Sp)

ISC 114 Advanced Statistical Quality Control

3-0-3

This course is designed for those who have taken Statistical Quality Control (ISC 113), quality control people, and managers. Material used in this course will be more in depth, with extensive charting and involved projects. The class will be limited to 20 students. ISC 118 Industrial Safety 3:0:3

A study of the development of industrial safety; accident occurrence and prevention; safety education and training; accident reporting and records; employer/employee responsibility; safety organizations; first aid; mechanical safeguards; personal protective equipment use; materials handling; fire prevention; safety codes; and accident statistics.

ISC 121 Industrial Engineering Applications 3-0-3
To give supervisors, department heads, and staff managers an appreciation of the value of time study principles and methods engineering in a company; the approaches used, and

ISC 216 Job Analysis and Evaluation

This study is an integral part of Wage and Safety Administration. The job, as well as the person performing the job, are analyzed and evaluated in order to determine a job's relative worth to a company.

ISC 221 Production Planning and Management 3-0-3
Modern concept in the control of manufacturing production. Students will have an opportunity to study a production system with the specific purpose of identifying unnecessary costs. Making sound decisions through a common sense approach. Day-to-day plant direction, forecasting, product planning and control, scheduling, dispatching, routing, and inventory control. Case histories are discussed and actual layouts are utilized for planning and control. (Sp)

15C 236 Manufacturing Quality Control 3-0-3 Modern concepts of the quality function in industry to maximize customer satisfaction at optimum product cost. Special attention will be given to statistical process control.

MATHEMATICS

likely applications, (F)

MAT 090 Basic Math 2-3-3*

This course provides a strong foundation in arithmetic skills necessary for further study in any area of mathematics. Detailed attention is given to addition, subtraction, multiplication, and division of whole numbers, fractions, and decimals. Percentage, ratio, proportion, and applications of these skills are also covered. (F,W,Sp,Su)

MAT 095 Basic Algebra 2-3-3*
This course provides a strong foundation in algebra skills essential for students planning further study in algebra. Topics include integers and rational numbers, operations of polynomials, the solution and graphing of linear equations and inequalities, factoring. Prerequisite: MAT 0090 or satisfactory placement test score. (F,W,SP,Su)

*These credits are institutional credits only and cannot be used for graduation. They are used for determining hour load for payment, eligibility for financial aid, or classification for a full-time student.

MAT 107 Mathematics Principles

3-0-3

MAT 107 provides a review and application of the basic arithmetic skills and skills of estimation. In addition, MAT 107 offers an extensive program of diagnosis, instruction, and application of ratio and proportion, percent, English measurement, metric measurement, the integers, and evaluation and solution of algebraic expressions and equations. Prerequisite: Satisfactory placement test score in arithmetic or MAT 090.

MAT 111 Technical Mathematics 3-0-3
A course in basic applied geometry and right triangle trigonometry for students in management, police science, and other technical areas. Topics include: angles, triangles and other plane figures, solid figures, areas, volumes, trigonometric ratios, triangle solving, and vectors, Prerequisite: MAT 0090 or satisfactory placement test score in basic math. (W,Sp)

A course designed for students who plan to take College Algebra and Trigonometry (MAT 151) but who do not have an adequate background in algebra. The course includes a detailed study of: factoring: rational expressions; graphing; linear, quadratic, and linear absolute value equations; linear and quadratic inequalities; rational exponents and radicals, MAT 140 is developmental in nature and carries elective credit only. A student who has received credit (with at least a "C") for MAT 151 or MAT 152 may not take MAT 150 for credit. Prerequisite: Satisfactory placement test scores in arithmetic (or MAT 090) and algebra (or MAT 095). (F,W,Sp,Su)

MAT 150 Finite Math

5:0-5

This course provides an introduction in as nontechnical setting as possible to the basic concepts of finite mathematics, including the study of sets, introductory symbolic logic, topics from the real number system, math of finance, introductory probability and basic algebra. Pre-requisites: MAT 090 and 095 or satisfactory placement test scores.

MAT 151 College Algebra and Trigonometry I

5-0-5

The first in a two-quarter sequence of courses in algebra and trigonometry designed to provide thorough preparation for study in calculus, physics, chemistry, and other areas of technology. Topics include: polynomials, exponents, radicals, euations and inequalities, relations and functions, systems of equations and inequalities, exponential and logarithmic functions, and an introduction to trigonometry. A student who has received credit(with at least a "C") for MAT 161 (Calculus) may not take MAT 151 for credit except by special permission. Prerequisite: Satisfactory placement test scores or MAT 150. (I;Sp,Su)

MAT 152 College Algebra and Trigonometry II

5-0-5

A continuation of MAT 151. Topics include: trigonometric functions and their inverses, trigonometric identities and equations, triangle solving and vectors, complex numbers, theory of equations, polynomial and rational functions, sequences and series, and an introduction to probability. Prerequisite: MAT 151 or permission of instructor. (W,Sp,Su)

MAT 153 Pre-Calculus

5-0-5

An overview of algebraic concepts and an intense treatment of functions, including polynomial, rational, logarithmic, exponential, and trigonometric. A thorough study of analytic geometry and systems of equations is also included. This course is recommended for those students planning to take MAT 161. Credit cannot be given for MAT 153 and both MAT 151 and MAT 152.

MAT 160 Calculus with Business Applications

5-0-5

A course using the concepts of differentiation and integration placing particular emphasis upon their applications to solving problems that arise in business and economics. This course is designed primarily for business, economics, and social science majors and is not open to mathematics majors and cannot be used to satisfy the 10 hour math requirement. Prerequisite: MAT 152.

MAT 161 Calculus and Analytic Geometry I

5-0-5

A first course in calculus and analytic geometry, Topics include: functions, limits and continuity, the derivative, curve sketching and other applications of the derivative, anti-derivatives, and the definite integral. Prerequisite: MAT 152 or satisfactory placement test scores. (f,Sp)

MAT 162 Calculus and Analytic Geometry II

5-0-5

A second course in calculus and analytic geometry with emphasis on the calculus of transcendental functions and methods of integration. Topics include: differentiation and integration of trigonometric, inverse trigonometric, logarithmic, exponential, and hyperbolic functions, methods of integration and applications of the integral. Prerequisite: MAT 161. (F,W) MAT 163 Calculus and Analytic Geometry III

5-0-5

A third course in calculus and analytic geometry, with emphasis on analytic geometry and series. Topics include: vectors in the plane and in space, polar coordinates, conic sections, parametric equations, indeterminate forms, and infinite series. Prerequisite: MAT 162. (Sp)

MAT 170 Introductory Statistics

5-0-5

A course dealing with collecting, representing, analyzing, and interpreting data. Topics include: measures of central tendency and dispersion; an introduction to probability, permutations, and combinations; binomial and normal distributions; large and small sample theory and hypothesis testing; correlation and regression; and chi-square. Problems and applications from several disciplines are included. The course is especially recommended for students who plan to major in mathematics, science, medicine, psychology, sociology, and business administration. Prerequisite: MAT 151. (Sp,Su)

MAT 261 Calculus and Analytic Geometry IV

5-0-1

A course in solid analytic geometry and multivariate calculus, Topics include: three-dimensional coordinates, vectors, directional derivatives, partial derivatives, quadratic surfaces, multiple integrals, line integrals, and differential equations. Prerequisite: MAT 163. (Su)

MAT 265 Linear Algebra

5.0.

A study of vectors, matrices and linear transformations including systems of linear equations and determinants. Prerequisite: MAT 163.

MAT 270 Differential Equations

5-0-5

A study of the theory, methods of solution, and applications of ordinary differential equations with emphasis on first order equations and linear equations. Additional topics will include power series, Laplace transforms, linear systems, and numerical methods. Prerequisite: MAT 261.

MAT 1101 Math Fundamentals

3-0-3

Review and practice in the fundamental operations with whole numbers, fractions, decimals, and percentage. Formulas and practice problems are drawn from the skill areas of the vocational programs. (F)

MAT 1102 Measurements

3-0-3

A study of linear measurements, measuring devices, angles, perimeters, areas, volumes, and metric units. Prerequisite: Permission of advisor. (W)

MAT 1123 Machinist Mathematics

3-0-3

Introduces gear ratios, lead screw and indexing problems with emphasis on application to the machine shop. Practical applications and problems furnish the trainee with experience in geometric propositions and trigonometric relations to shop problems; concludes with an introduction to compound angle problems.

MECHANICAL

MEC 101 Manufacturing Processes I

3.9.6

An introduction to the metalworking trade as it relates to machining operations. The student will be oriented to the machine shop, safety, basic hand tools, and shop measuring instruments. Operations on engine lathes, drilling machines, metal cutting saws, milling machines, and bench grinders will also be covered.

MEC 102 Manufacturing Processes II

3.9.6

An introduction to the assembly of parts, fits, hand broaches, screw and tap extractors, setup equipment, inspection tools, gauges, buffing and polishing, and surface grinders. Continued instruction in the use of precision measuring tools, selection of speeds and feeds, reciprocating and continuous band cut-off saws, contour band saws, lathes, power drills, and milling machines. Prerequisite: MEC 101

MEC 103 Manufacturing Processes III

3.9.6

Additional instruction and practice in the use of precision measuring tools, milling machines, and surface grinders. Practice in setting up and operating machine tools including the selection and use of work holding devices, feeds and speeds, special heads and tables, cutting tools, and coolants. Instruction and practice in the use of power feed drills and abrasive saws. Prerequisite: MEC 102

MEC 104 Manufacturing Processes IV

3-9-6

The student will work to required tolerances setting up and operating machine tools. An introduction to turret lathes, advanced milling machine operations, special machining operations, and special machines. Also covered will be grinding specific surfaces using hand, surface and cylindrical grinders, and lapping and honing parts to specified tolerances. Prerequisite: MEC 103

MEC 110 Machine Processes

3-3-4

A course to acquaint the student with basic machine tools of industry through lectures, demonstrations, and hands-on practice. It will include the study of safety practices; measuring instruments; characteristics of basic machine tools, materials, and cutting tools; and actual experience on lathe, drill press, milling machines, shaper and grinder.

MEC 112 Introduction to Manufacturing

3-3-4

A basic introduction to manufacturing, both the industry and the process used. A good understanding of various industries, tools, materials, processes and safety procedures is also necessary. Research and development, production planning, and industrial processes will also be covered.

MEC 113 Numerical Control Principles

3 - 3 - 4

This course will acquaint students with the principles and applications of numerical control. The students will apply knowledge of blueprint reading, mathematics, and machining principles with programming code to develop N.C. programs for milling and turning projects in lab activities.

MEC 117 Industrial Materials and Processes

9.9.4

This course is designed to introduce the student to the important engineering materials of industry and how they are processed. The student will receive broad understandings and concepts of the nature, processing, application, and testing of industrial materials such as metals, woods, plastics, and ceramics. Much emphasis will be placed upon problem solving and fundamental engineering applications.

MEC 118 Introduction to Metals

3-3-4

This course is designed to familiarize the student with the different properties of ferrous and nonferrous metals. It provides a background for understanding the physical changes and chemical metallurgy for producing raw metal. It explains the material designation system, classifications of steels, trade names, and cross reference information for comparable materials. Common shop terms used in treatment of metals will also be explained.

MEC 119 Applied Metallurgy

3-3-4

This course is intended to develop a working knowledge of the methods of treating ferrous and nonferrous metals. The effects of hardening, tempering, and annealing upon the structure and physical properties of metals will be studied. Trainees will be given the opportunity to acquaint themselves with the equipment and processes of heat treating.

MEC 204 Applied Mechanics

5-0-5

The student will explore the principles of non-calculus based statics and applied mechanics. An overview of the classic areas of statics will be given to the student with applications in materials testing, materials selection, structural design, and machine design.

1/2/1

MEC 205 Strength of Materials

The primary objectives of the course in strength of materials are to develop a working knowledge of the relations between loads applied to an elastic body and the resulting deformation of the body; to develop an understanding of the relations between the load applied and the stresses produced in the body; to develop an insight into the relations between stress and strain for a wide variety of conditions and materials; and to develop adequate procedures for finding the required dimensions of a member of a specific material to carry a given load subject to stated specifications of load and deflection.

MEC 208 Machine Design

3-3-4

A study of factors affecting the design of machines. Applications of the principles of mechanics, properties of materials, manufacturing processes and economics of production fundamental to the design of machine components. Empirical and theoretical equations, practical considerations, and design procedures are included.

MEC 240 Computer Numerical Control Programming

3-3-4

Computer Numerical Control Programming is designed to teach students with numerical control skills how to develop part geometry and use computer software to write a CNC program. Using computers in programming CNC machines will greatly lessen programming time, eliminate many programming errors, enable programmers to simulate part machining on the computer to ensure accuracy and safety of machine moves, and provide fast and easy changes to the CNC program.

MEC 1101 Machine Shop Theory and Practice I

4-12-8

An introduction to the metal working trade as it relates to machining operations. The student will be oriented to the machine shop, safety, basic hand tools, and shop measuring instruments. Operations on engine lathes, drilling machines, metal cutting saws, milling machines, and bench grinders will also be covered.

MEC 1102 Machine Shop Theory and Practice II

4-12-8

An introduction to the assembly of parts, fits, hand broaches, screw and tap extractors, setup equipment, inspection tools, gauges, buffing and polishing, and surface grinders. Continued instruction in the use of precision measuring tools, selection of speeds and feeds, reciprocating and continuous band cut-off saws, contour band saws, lathes, power drills, and milling machines. Prerequisite: MEC 1101

MEC 1103 Machine Shop Theory and Practice III

4-12-8

Additional instruction and practice in the use of precision measuring tools, milling machines, and surface grinders. Practice in setting up and operating machine tools including the selection and use of work holding devices, feeds and speeds, special heads and tables, cutting tools, and coolants. Instruction and practice in the use of power feed drills and abrasive saws. Prerequisite: MEC 1102

MEC 1104 Machine Shop Theory and Practice IV

4-12-8

The student will work to required tolerances setting up and operating machine tools. An introduction to turret lathes, advanced miller machine operations, special machining operations, and special machines. Also covered will be grinding specific surfaces using hand, surface and cylindrical grinders, and lapping and honing parts to specified tolerances. Pre-requisite: MEC 1103

MEC 1112 Machine Shop Processes

1-3-2

This course acquaints the student with the procedures of layout work and the correct use of hand and machine tools. Experiences in the fundamentals of drill press and lathe operations, hand grinding of drill bits and lathe tools, and set-up work applied to the trade are provided. Prerequisite: None.

The student will be introduced to the metals commonly used in industry with primary emphasis on steel and other iron-based metals. There will be a brief introduction to the fundamental structure of materials in general, including organic as well as inorganic substances. The production, forming, cutting, finishing, and heat treatment will be studied.

MARKETING

MKT 119 Small Business Marketing & Sales Strategies

2-0-2

This course is designed for a person already in a small business or those committed to starting one. The course will include developing practical marketing guidelines, conducting marketing research, learning basic elements of a sound sales approach and formulating sales campaigns.

MKT 120 Marketing

3.0.3

A general survey of the field of marketing, with a detailed study of the function, policies, and instructions involved in the marketing process. Emphasis on marketing management.(F)

MKT 121 Retailing

3-0-3

A study of the role of retailing in the economy including development of present retail structure, functions, performed, principles governing effective operation and managerial problems resulting from current economic and social trends.

MKT 131 Small Business Sales Technique

2-0-2

This course is designed for persons already in a small business or for those committed to starting one. The course covers contacting new prospects and expanding their sales network, learning techniques to identify the needs and wants of potential customers, and learning methods to ensure future sales and referrals.

MKT 132 Sales Development

3-0-3

A study of retail, wholesale and specialty selling with emphasis placed upon mastering and applying the fundamentals of selling. Preparation for an execution of sales demonstration required. (Sp)

MKT 210 Advertising, Sales & Promotion

3-2-4

A study of the various aspects of advertising with heavy emphasis on the broadcast and cable inustries. An examination of up-to-date professional selling methods, plus techniques based on theoretical research in the behavioral sciences and sales performance.

MKT 243 Advertising

3-0-3

The role of advertising in a free economy and its place in the media of mass communications. A study of advertising appeals, product and market research, selection of media, means of testing effectiveness of advertising. Theory and practice of writing advertising copy for various media. (W)

MKT 249 Buying and Merchandising

3-0-3

A course dealing with the changes of opportunities apparent in retailing today. Many aspects of the business recession of the early 70's including inflation, curtailed buying by consumers, and uncertainty in fashion are discussed. Also, emphasized are the new techniques and managerial measures required for successful retail operation in today's business environment.

MKT 260 Commercial Display and Design

2-3-3

Internal- An introduction to basic layout and design and commercial displays, retail store, and service institutions.

APPLIED MUSIC

APPLIED MUSIC is the term given to the study of an instrument. The student may choose to study as his principal instrument Voice, Piano, Brass, Woodwind, Percussion, or Organ, depending upon prior experience or musical aptitude as shown in his/her audition. Each music major is required to accumulate 12 credit hours of Applied Music for graduation. A student may choose a secondary instrument for which a total of 6 credit hours may be earned.

APPLIED MUSIC: For Music Majors and advanced students, Audition is required before registering, Classes are self-supporting; additional fees are required. One hour lesson per week (TBA): 2 credit hours.

MUA 110, 111, 112 - Applied Voice (Major-Principal) I, II, III

MUA 210, 211, 212 - Advanced Applied Voice (Major-Principal) IV, V, VI

MUA 120, 121, 122 - Applied Piano (Major-Principal), I, II, III

MUA 220, 221, 222 - Advanced Applied Piano (Major-Principal) IV, V, VI

MUA 130, 131, 132 - Applied Brass (Major-Principal) I, II, III

MUA 230, 231, 232 - Advanced Applied Brass (Major-Principal) IV, V, VI

MUA 140, 141, 142 - Applied Woodwind (Major-Principal) I, II, III

MUA 240, 241, 242 - Advanced Applied Woodwind (Major-Principal) IV, V, VI

MUA 150, 151, 152 - Applied Percussion (Major-Principal) I, II, III

MUA 250, 251, 152 - Advanced Applied Percussion (Major-Principal) IV, V, VI

MUA 160, 161, 162 - Applied Organ (Major-Principal) I, II, III

MUA 260, 261, 162 - Advanced Applied Organ (Major Principal) IV, V, VI

MUA 170, 171, 172 - Applied Guitar (Major-Principal) I, II, III

MUA 270, 271, 272 - Advanced Applied Guitar (Major-Principal) IV, V, VI

APPLIED MUSIC: For non-majors or study in secondary instruments. Audition is required before registering. Classes are self-supporting; additional fees are required. One 1/2 hour lesson per week (TBA): 1 credit hour.

MUA 113, 114, 115 - Applied Voice (Secondary) I, II, III

MUA 213, 214, 215 - Advanced Applied Voice (Secondary) IV, V VI

MUA 123, 124, 125 - Applied Plano (Secondary) I, II, III

MUA 223, 224, 225 - Advanced Applied Piano (Secondary) IV, V, VI

MUA 133, 134, 135 - Applied Brass (Secondary) I, II, III

MUA 233, 234, 235 - Advanced Applied Brass (Secondary) IV, V, VI

MUA 143, 144, 145 - Applied Woodwind (Secondary) I, II, III

MUA 243, 244, 245 - Advanced Applied Woodwind (Secondary) IV, V, VI

MUA 153, 154, 155 - Applied Percussion (Secondary) I, II, III

MUA 253, 254, 255 - Advanced Applied Percussion (Secondary) IV, V, VI

MUA 163, 164, 165 - Applied Organ (Secondary) I, II, III

MUA 263, 264, 265 - Advanced Applied Organ (Secondary) IV, V, VI

MUSIC

MUS 151 Introduction to Music History I

3.0.3

A course which introduces the student to the materials of music, music terminology, the make-up of an orchestra, and forms and styles of music. It will focus on master works through the Baroque Period. Listening is emphasized.

MUS 152 Introduction to Music History II

3-0-3

A continuation of MUS 151. This course will focus on forms and styles of master works from the Classical, Romantic, and Modern Periods, Listening is emphasized.

MUS 160 Music Theory I

3-2-4

An introduction to the basic concepts of music theory and the materials of music: aural, analytical, vocal, and keyboard applications. Lecture 3, Lab (sight singing and ear training)2. MUS 161 Music Theory II 3-2-4

Expansion of materials in MUS 160 with emphasis on part-writing. Prerequisite: MUS 160 or permission of instructor, Lecture 3, Lab 2.

MUS 162 Music Theory III 3-2-4

Expansion of materials in MUS 161 with emphasis on dominant seventh chord, modulation, and secondary dominant chords. Prerequisite: MUS 161, or permission of instructor.

MUS 170 Chorus 0-3-1(each)

This study-activity course is designed to give the student a deeper understanding, appreciation, and enjoyment of choral music, its practice and performance. This choral class is open to all students in all divisions of the college who wish to continue their interest in part singing (soprano, alto, tenor, bass). This course may be taken 6 quarters for credit. No auditions are required.

MUS 173 Class Piano I 0-3-1

The student participating in Class Plano I will, at its conclusion, be able to demonstrate mastery of the repertoire and written assignments in Units I through IV of The Older Beginner Plano Course Level I. The student will also be responsible for supplementary repertoire chosen by the student with instructor approval. Mastery of these assignments must be demonstrated on tests which will be administered at regular intervals (including written work and plano performance), which must be passed before the student proceeds to the following levels. Each student will proceed at this own rate. Open to all students.

MUS 174 Class Piano II 0-3-1

The student participating in Class Piano II will, at its conclusion, be able to demonstrate mastery of the repertoire and written assignments, Units VI through X in The Older Beginner Piano Course Level I. The student will also be responsible for supplementary repertoire chosen by the student with instructor approval. Mastery of these assignments must be demonstrated on tests which will be administered at regular intervals (including written work and piano performance), which must be passed before the student proceeds to the following levels. Each student will proceed at his own rate. Prerequisite: Successful completion of Class Piano I or the approval of the instructor based on written tests and performance skills.

MUS 175 Class Piano III 0-3-1

The student participating in Class Piano III will, at its conclusion, be able to demonstrate mastery of the repertoire and written assignments in Units I through VII in The Older Beginner Piano Course Level II. The student will also be responsible for supplementary repertoire chosen by the student with instructor approval. Mastery of these assignments must be demonstrated on tests which will be administered at regular intervals (including written work and piano performance), which must be passed before the student proceeds to the following levels. Each student will proceed at his own rate. Prerequisite: Successful completion of Class Piano I and II, or the approval of the instructor based on written tests and performance skills.

MUS 176 Class Piano IV 0-3-1

The student participating in Class Piano IV will, at its conclusion, be able to demonstrate mastery of the repertoire and written assignments in Units VIII through X in The Older Beginner Piano Course Level II, plus all the Major Scales and Supplementary Repertoire in the text. The student will also be responsible for other supplementary repertoire chosen by the student with instructor approval. Mastery of these assignments must be demonstrated on tests which will be administered at regular intervals (including written work and piano performance), which must be passed before the student proceeds to the following levels. Each student will proceed at his own rate. Prerequisite: Successful completion of Class Piano I, II, and II, or the approval of the instructor based on written tests and performance skills.

MUS 177, 178, 179 Class Voice I, II, III

0-3-1 (each)

Elementary courses in singing in which both group and individual techniques are employed. Emphasis is on the study of voice production and principles of singing.

MUS 181 Music Appreciation

5-0-5

This course is designed to give the student an understanding of basic materials of music and to enable him to listen to the various forms of music with deeper understanding, appreciation, and pleasure. Representative works related to historical and cultural background of music from the Middle Ages to the Contemporary Period are studied and compared by lectures and aural analysis. Listening is emphasized. Open to all students.

MUS 182 Jazz Appreciation

3-0-3

This course is designed to give the student new insights and general knowledge of the historical evolution of jazz in the United States and of all jazz styles. Listening will be emphasized. This course does not require previous musical training.

MUS 183 Intro to Conducting

9.0.3

This course is an introduction to choral direction, focusing on basic techniques in conducting and training choral groups. It includes conducting in a variety of musical styles, improving vocal technique, and teaching sight reading and music theory to your choral group.

MUS 184 Opera Workshop

0-3-

Each fall, an opera is presented in the local area. This course is a study of the particular opera in terms of its history and content. The class also services as the chorus for the opera in actual performance, in the event that an opera is not produced in the fall, various opera scenes will be performed by the class. This course may be taken 2 quarters for credit.

MUS 185 Chamber Singers

0-3-1

A vocal group specializing in the performance of chamber literature of all periods. Although designed primarily for music majors, the group is open to all students by permission of the instructor. This course may be taken 2 quarters for credit.

MUS 186 Stage Band

0.3-1

This course is designed to provide basic experience in the performance of stage band literature. Instrumentation is flexible, but includes alto sax, tenor sax, baritone sax, trumpets, trombones, and rhythm. Jazz, swing, blues, and contemporary styles will also be introduced. Proficiency in playing an appropriate instrument is required. This course may be taken 6 quarters for credit.

MUS 187 Show Choir

0-3-1

Show choir is a performing group by audition and/or invitation only, as class size is limited. Singing, chorcography, and costumes are involved. This course may be taken 6 quarters for credit.

MUS 188 Gospel Choir

0-3-1

This course will survey the Afro-American cultural and musical heritage. Major emphasis will be placed on music of the gospel style.

MUS 190 Special Approaches to Music

0.3.1

This ensemble course will deal with timely or special interests in music. Specific approaches will vary depending on the talents and interests of students and faculty.

MUS 273 Advanced Class Piano

0.3 - 1

In an electronic plano laboratory setting, students will receive group and individual instruction. Repertoire will include solo, duet, and ensemble compositions. Prerequisite: Class Plano LIV or equivalent.

NURSING

NUR 100 Nursing Role Transition

3-2-0-4

This course is designed to facilitate the entry of advanced placement students into the fourth quarter of the Foothills Nursing Consortium Associate Degree program. The program's objectives and the legal roles and responsibilities of registered nurses will be presented. Theory and skills will be supplemented to equate the level of competency of the generic student. The course must be repeated every three years.

Prerequisite: Criteria met for Advanced Placement (on demand)

NUR 101 Basic Concepts in Nursing

6-4-3-9

Basic Nursing is a foundational course which provides the opportunity for students to explore basic principles, the nursing process, and the nurse-patient relationship. Units are included on the nurse's role in meeting individual needs for comfort, cleanliness, rest, activity, and safety.

Prerequisite: Admission to Program.

Corequisite: NUR 102, NUT 160, and BIO 270

NUR 102 Pharmacological Concepts in Nursing

3-0-0-3

A study of principles utilized in the administration of medications. Students must pass a mathematics and calculation competency examination to successfully pass the course. Major classifications of drugs are introduced as a basis for continued study of pharmacology. The role of the nurse in Pharmacology is presented with emphasis on the nursing process.

Prerequisite: Admission to program

Corequisite: NUR 101

NUR 103 Nursing Care of Adults I

4-2-12-9

The course focuses on the adult experiencing common health needs. The focus of prevention and psycho-physiotherapy in health and illness is studied. The nursing process and needs theory serve to guide the student's course of study with emphasis on the related roles of the ADN nurse.

Prerequisite: NUR 101, NUR 102, NUT 160

Corequisite: BIO 271, PSY 260

NUR 104 Nursing Care of Adults II

4-0-12-0

The course is a continued study of the adult experiencing selected health needs with increasing acuity. The focus of prevention, psychophysiotherapy, nursing process and ADN roles are utilized to guide the course of study.

Prerequisite: NUR 103

Corequisite: BIO 272, PSY 261

NUR 105 Mental Health Nursing

5-0-12-9

A study of the person experiencing altered patterns of psychosocial behavior. Major focus is upon appropriate nursing roles, psychotherapeutic modalities and the formation of therapeutic relationships. The theory of needs and the nursing process are emphasized.

Prerequisite: NUR 104, PSY 261

Corequisite: None

NUR 201 Nursing Care of Older Adults

4-0-12-8

The course provides an opportunity to utilize the manager of care role in meeting the needs of the older adult in long-term care, and community settings. Special emphasis will be placed on the aging process as it applies to developmental changes and pathological alterations commonly occurring in the older adult. The nursing process with principles of prevention and rehabilitation are emphasized.

Prerequisite: NUR 105 Corequisite: SOC 160 NUR 202 Nursing Care of the Childbearing Family

5-0-12-9

The provider of care role is utilized in caring for the mother, infant, and family during the normal and high-risk childbearing cycle using the nursing process, and needs approach.

Prerequisite: NUR 201, SOC 160, BIO 280

Corequisite: None

NUR 203 Nursing Care of Children

5-0-12-9

A study of the health care of children utilizing a needs theory, the nursing process, the nursing roles, and principles of growth and development. Both health maintenance and care of the ill child are emphasized. Consideration is given to the child within their family unit.

Prerequisite: NUR 202, SOC 160

Corequisite: None

NUR 204 Nursing Care of Adult III

5-0-15-10

Health care needs of the adult experiencing complex multi-system disorders or critical illness, provides the learner with the opportunity for implementation of the nursing process. The ADN roles in a variety of acute structured settings will be studied with emphasis on manager of care.

Prerequisite: NUR 203 Corequisite: NUR 205

NUR 205 Nursing Perspectives and Issues

3-0-0-3

The course focus is on the member within the discipline of nursing role. Selected events, legal and ethical aspects, trends, issues and responsibilities related to the practice of nursing are addressed. Emphasis is upon concepts designed to aid in the transition from nursing student to registered nurse. A seminar approach is utilized.

Prerequisite: NUR 203 Corequisite: NUR 204

NUR 1101 Nursing Fundamentals

6.4.3.9

An introduction to basic nursing principles and practices underlying safe nursing care. Emphases are on concepts of holistic health care; therapeutic communications; mental health concepts; safe, comfortable and therapeutic environments; competent performance of basic nursing skills; legal and ethical responsibility; historical development, accountability and liability of the practical nurse in the health care system. Utilization of the nursing process as the problem-solving strategy for nursing is emphasized. Corequisite: NUR 1105, BIO 270, and NUR 1109

NUR 1102 Med-Surg I

9-0-12-13

NUR 1102 Med-Surg I is designed to provide a beginning knowledge of health problems necessitating medical or surgical intervention and the development of plans for nursing care management. The LPN identifies the physiological, psychological and sociological factors that affect the health status of the adult.

Prerequisite: NUR 1101, NUR 1105, NUR 1109, BIO 270

Corequisite: BIO 271, NUR 1107, PSY 260

NUR 1103 Maternity Nursing

5-0-9-8

A study of nursing care problems presented during the normal and complicated childbearing maternity cycle with emphasis on the normal cycle. The student will develop the basic concepts of maternity care so that the highest level of health possible for every child bearing family may be achieved in the broader sense of physical, emotional and social well-being. Emphasis is placed on basic nursing skills in the period of gestation, labor, delivery, and post partum nursing care of the normal newborn and care of infants with special needs or disorders will be studied.

Prerequisite: NUR 1104, BIO 272, and PSY 261

Corequisite: NUR 1108

NUR 1104 Med-Surg II

8-0-18-14

This course is designed to develop knowledge in the area of the care of the seriously ill patients. Emphasis is given to continued development of knowledge, principles and nursing care at the LPN level for patients having complex medical surgical conditions which may result in alterations in body homeostasis.

Prerequisite: NUR 1102, NUR 1107, BIO 271, and PSY 260

Corequisite: BIO 272 and PSY 261

NUR 1105 Pharmacology I

3-0-0-3

A basic pharmacology course to enable the student to calculate drug dosages develop basic knowledge of the history of pharmacology, and identify the actions of drugs in the body. The course includes a mathematics review, a study of the systems of measurement, calculation of oral medications, calculation of parenteral medication, calculation of pediatric medication, introduction and history of pharmacology, actions of drugs in the body, classifications overview and a look at cardiovascular and respiratory medications. Corequisite: NUR 1101

NUR 1107 Pharmacology II

1-0-0-1

A study of medications and their administration. Emphasis is on laws concerning drug standards and dispensing, the classifi-cations, the routes, and the effects of administration of medications given for therapeutic purposes. Developing a knowledge base necessary for safe and effective administration of medications within the legal role for the practical nurse is also emphasized.

Prerequisite: NUR 1105

NUR 1108 Pediatrics

5-0-9-8

Differences between diseased children and adults, basics of child growth and development, common diseases of infants, children, and adolescents, and their related nursing care. Prerequisite: NUR 1104, BIO 272, and PSY 261

Corequisite: NUR 1103

NUR 1109 Nutrition

3-0-0-3

A study of normal nutrition and diet therapy including the study of nutrients, how they are used by the body, and sources and types of foods necessary for a balanced diet in developmental and ethnic variations; and physiological processes of digestion, absorption, and metabolism. Hospital diets commonly used for selected disorders and principles of meal planning to meet nutritional requirements for all age groups are also studied.

NUTRITION

NUT 160 Basic Nutrition

3-0-3

A study of the basic dietary needs of man including the study of nutrients, digestion, absorption, and metabolism, as well as contemporary issues on nutrition and food preservation. (W)

ORIENTATION

ORI 100 Student Orientation Seminar

1-0-1

This course is required of all full-time technical and college transfer students enrolling for the first time. It is designed to assist you in developing an attitude which will help you appreciate the value of higher education, point the way to college resources that will allow you to develop to your fullest potential, and thereby enable you to survive your college experience. (This course is not required for students with advanced academic standing.)

ORI 164 Textbook Reading and Study Skills

3 - 0 - 3

This course teaches a variety of reading, learning and study strategies to the student who wishes to get the most from the college experience. Recognition is given to the fact that what a student does before and after reading is as important as the actual reading. Study strategies are formatted to make optimum use of the student's potential for understanding and retention of information. The context of this course is based on current research and theory in the field of reading and study skills.

OFFICE SCIENCE

OSC 101 Keyboarding/Document Formatting I

2-3-3

Students who have had no previous typewriting experience or those students who cannot prove competency on a typewriting placement test should take this course. This course is an introduction to the touch typewriting system with emphasis on correct techniques, mastery of the keyboard, simple business correspondence and tabulation. The student should, at the end of the course, be able to type 30 words per minute for three minutes with no more than five errors. (E.W.Sp.Su)

OSC 102 Document Formatting II

3-2-4

Instruction emphasizes the development of speed and accuracy with further mastery of correct typewriting techniques. These skills and techniques are applied in tabulation, correspondence, manuscripts, and business forms. The student should, at the end of the course, be able to type 40 words per minute for five minutes with no more than five errors. Prerequisite: OSC 101 or proof of competency on a typewriting placement test, (F,W,Sp,Su)

OSC 103 Document Formating III

3 - 2 - 4

Instruction emphasizes production typing problems and speed building. Attention is given to the development of the student's ability to function as an expert typist, producing mailable copies. The production units are tabulation, manuscripts, business letters, memos, telegrams, and legal documents. The student should, at the end of this course, be able to type 50 words per minute for five minutes with no more than five errors. Prerequisite: OSC 102. (F,W,Sp,Su)

OSC 108 Records Management

3-0-3

A course designed to teach the principles of filling and records management. The five methods of organizing records—alphabetic, geographic, subject, numeric, and chronological will be covered. (F,W,Sp,Su)

OSC 109 Transcription Skills

3-2-4

A course designed to build transcription and vocabulary skills. Course offers study of language skills in the area of word choice, spelling, capitalization, and punctuation. Prerequisite: None. (Sp.5u)

OSC 165 Word Processing Applications

3-2-4

This course is designed to increase efficiency and productivity while using a word processing software package. Prerequisite: CAS 163-Word Perfect.

OSC 204 Stenoscript

3-2-4

A course offering the theory and practice of ABC Shorthand. Emphasis on speed in taking dictation as well as accuracy in transcription. Minimum dictation rate of 60 words a minute required. (F,W,Sp,Su)

OSC 205 Machine Transcription

3-2-4

Course offers the opportunity for students to acquire employable skills in transcribing various forms of dictated material. Emphasis is placed on proficiency in using the dictaphone, word usage, correct grammar, letter styles, and general neatness. Prerequisites: OSC 109 and OSC 103 or the ability to type 50 w.p.m. with no more than 5 errors, (F,W,Sp,Su)

OSC 206 Medical Terminology

3-0-3

This is designed to teach the student the meanings of 350 Latin and Greek elements, or word parts. The knowledge of the 350 elements will enable the student to interpret and understand more than ten thousand medical terms. (F,W,Sp,Su)

OSC 207 Medical Vocabulary/Anatomy

3-0-3

This course is designed to teach basic human anatomy for the modical secretary or the medical records clerk. The student will learn to pronounce, spell, identify, and locate parts of the human anatomy. (F,W,Sp,Su)

OSC 208 Medical Transcription

3.2.4

A course in which the student transcribes from cassette dictation medical reports, letters, etc., dealing with the various branches of medicine. Prerequisites: OSC 102, OSC 109, OSC 206. (F,W,Sp,Su)

OSC 213 Secretarial Administration

3-0-3

A course designed to acquaint students with practical applications of secretarial responsibilities. These duties include receptionist duties, mail handling, telephone technique, travel information, telegrams, office records, supplies purchasing, office organizations, and time management. Prerequisite: OSC 103. (Sp)

OSC 219 Legal Terminology

3-0-3

Student learns legal terminology and procedures related to transactions. General legal terminology and specialized terms and phrases are covered. Student also acquires a knowledge of the structure of the American Court System. Prerequisite: None. (F,W,Sp,Su)

OSC 220 Legal Transcription

9.9.4

Student acquires employable skills in transcribing dictation of legal instruments and documents. Prerequisites: OSC 102, OSC 109, OSC 219. (F,W,Sp,Su)

PHYSICAL EDUCATION

*Note: Non-Credit recreational activity classes are offered on a self-supporting basis. Consult current class schedules for non-credit activity class schedules,

PED 150 Concepts in Physical Education

1-2-2

A thorough investigation into the theoretical and practical applications of basic concepts in physical education, such as: exercise, diet, and weight control; and exercise and heart disease. A lecture-laboratory course of instruction providing the individual with a complete physical fitness profile, and the ability to make intelligent decisions relevant to the development, maintenance, and evaluation of physical fitness and related health-fitness areas.

PED 151 Physical Fitness

0 - 3 - 1

A course of instruction designed to develop and maintain the following components of physical fitness: cardiovascular endurance, muscular endurance, strength, body composition, and flexibility. Individuals begin and progress at a rate suited to their present fitness level and personal needs.

PED 152 Aerobic Dance

0 - 3 - 1

An exercise course designed to improve physical appearance, muscle tone, loss of body fat, graceful movement, and relaxation. Integrated into the course will be discussions of diet, weight loss, and posture.

PED 153 Low Impact Aerobics

0-3-1

An easy-on-the-joints approach to cardiovascular conditioning. Adaptable for beginning through advanced level students. This class also includes exercises to increase strength and flexibility.

PED 154 Weight Training

0-3-1

A course of instruction designed to develop and maintain an adequate level of physical fitness through resistive (weight) training. Each student works and progresses through the program of exercise at a rate reflecting their present level of capability and needs.

PED 155 Fitness Through Swimming

0-3-1

A course of instruction for the fair to excellent swimmer designed to improve general physical fitness through swimming activities. The fitness program will include warm-up and cardiovascular endurance exercise through swimming.

PED 156 Water Aerobics

0-3-1

A physical fitness course designed to improve muscular strength, endurance, flexibility and cardiovascular endurance through mild resistive exercise in the water. The course will contribute to improve appearance, release tension, and with proper diet can aid in weight reduction. Highly recommended for individuals who may not be able to participate in other types of fitness exercise due to muscle, bone, joint, and other conditions, as exercise in the water reduces the overall stress on the body during exercise.

PED 160 Beginning Swimming

0-3-1

This course is designed for the adult non-swimmer. It is recommended for those who have a fear of water, have had previous difficulty in learning to swim, have never tried, or have hesitated to take a course for other reasons. Individuals will work at their own level and progress at their own rate. The primary objectives of the course are to build confidence and dissipate fear through water adjustment, breath control, coordination in skills, and relaxation. Not recommended for advanced level swimmers.

PED 161 Intermediate Swimming

0-3-1

A course designed to increase the Individual's adjustment to the aquatic environment by adding to skills learned at the beginner level. Primary emphasis in the course is placed on developing relaxation, stamina, and basic coordination in fundamental swimming skills. Not recommended for the non-swimmer, Prerequisite: PED 0130 and/or the ability to jump into deep water, swim the crawl stroke a distance of 20 yards; swim a minimum of 10 yards on the back, and float on the back a minimum of 15 seconds.

PED 162 Swimming Techniques

0 - 1 - 3

A course devoted to developing and strengthening of skills in the basic swimming strokes and related water safety and recreational skills. American Red Cross Certification in intermediate swimming may be achieved through this course. Prerequisite: PED 0131 and/or the ability to jump into deep water, swim 25 yards using the crawl stoke, turn, and swim on back 20 yards, stop and float motionless for 30 seconds in deep water.

PED 163 Emergency Water Safety

0-3-1

The objective of this course is to provide the individual with the knowledge and skills designed to save his own life or the life of another in the event of an emergency. American Red Cross certification is obtainable through this course of instruction, Prerequisites: Intermediate Swimming and Basic Water Safety Certification or pass equivalent swim and safety skills tests.

PED 164 Lifeguard Training

0-3-1

A course of instruction designed to provide the necessary minimum skills training for a person to serve as a non-surf lifeguard. Prerequisites: (1) swim 500 yards continuously, (2) surface dive to 9 ft. and retrieve a 10 lb weight and bring it to the surface, (3) surface dive to 5 ft. and swim 15 yds under water, (4) tread water for 1 minute, (5) have, or earn prior to course completion, American Red Cross Certification in the new Standard First Aid or show current documentation of equivalent training, American Red Cross Certification is available through this course of instruction.

PED 165 Water Safety Instruction Training

0-3-1

A course of instruction leading to certification as an American Red Cross Water Safety Instructor, Prerequisite; Current Advanced Lifesaving Certification, (Sp)

PED 168 SCUBA Diving

0-3-1

A course of instruction designed to teach safety, basic skills, and knowledge of SCUBA diving. A student completing the course will be prepared to participate in open water diving to qualify for certification. Prerequisites: Swim 200 yards; tread water for 5 minutes; surface dive to a depth of 9 feet. (F,Sp,Su)

PED 170 Archery

0-3-1

Introduces the student to a versatile and exciting lifetime sport. Because of its few restrictions, archery can be performed by both sexes and is adaptable to the individual's physical capabilities. Included in the course are history, nature of the sport, fundamental skills, safety, competitive shooting and scoring.

PED 171 Bowling

0-3-1

A course of instruction designed to introduce the student to the fundamental skills and knowledge of the game. Includes instruction in rules, scoring, equipment, etiquette, and game playing experience.

PED 172 Beginning Golf

0 - 3 - 1

A course designed to develop and strengthen skill in the basic fundamentals of the game. Includes discussion of rules, equipment, playing strategy and etiquette. Not recommended for players of advanced ability.

PED 174 Karate I (Japanese Shotokan)

0-3-1

An introduction to the martial arts utilizing Japanese form referred to as Shotokan. Emphasis will be placed on proper conditioning, exercise, and body control relating to the fundamentals of self-defense. Attention will be given to Japanese terminology, including a historical overview of its foundation, ranks, promotion, and proper etiquette.

PED 176 Badminton

0-3-1

A course designed to develop and strengthen skill in the basic fundamentals of the game. Includes discussions of rules, equipment, playing strategy and etiquette.

PED 178 Beginning Tennis

0-3-1

A course designed to develop and strengthen skill in the basic fundamentals of the game. Includes discussions of rules, equipment, playing strategy and etiquette. Not recommended for players of advanced ability.

PED 180 Backpacking

0-3-1

A unique and innovative course for those who enjoy the out-of-doors. The course is designed to acquaint you with the various aspects of backpacking, to investigate the many facets of the subject and to make you feel qualified to participate in, and discuss, backpacking. This course includes field experience in a wilderness area.

PED 182 Basic Rock Climbing

0 - 3 - 3

A beginning course designed to teach the fundamental skills, knowledge of equipment, and safety of rock climbing. Practical application of skills and knowledge is achieved through an actual climb at a suitable location.

PED 184 Basic Canoeing

0-3-1

A basic course of instruction in the safe and correct handing of the canoe, rescue, and selfrescue skills. American Red Cross certification in Basic Canoeing is available through this course of instruction. Prerequisite: Ability to swim and stay affoat in deep water, fully clothed, for a minimum of 5 minutes.

PED 185 Basic River Canoeing

0-3-1

An opportunity for the beginner to experience the best whitewater in western North Carolina. Instruction will include skills of river running, safety and care of equipment. Application of skills and knowledge will be made on the school lake and a suitable river location. Prerequisite: Ability to swim and stay affoat in deep water for five minutes fully clothed.

PED 188 Basic Sailing

0 - 3 - 1

A course of instruction in the safe and correct handling of small sailing craft. (Sp)

PED 186 Canoe Camping

0.3.1

A course designed to teach the elementary skills of canoeing and camping. Emphasis in the course is placed on safety and efficiency in handling a canoe in calm to moderate water and, basic camping skills as they apply to the unique circumstances of extended canoe cruising. The course includes a two-four day field experience, Prerequisite: Ability to swim and stay affoat in deep water for five minutes fully clothed.

PED 190 Volleyball

0-3-1

A course designed to develop and strengthen skills in individual and team play fundamentals, includes discussions of rules, playing equipment, and etiquette. Emphasis is on individual basic skill performance and development of sound team playing strategy.

PED 191 Sports and Games

0.364

A course of instruction designed to provide a variety of sports and recreational games. The course includes racquet sports, team sports, individual sports, and recreational activities and games.

PED 192 Clogging

0.3-1

A course designed to teach various types of positions, formations, steps, and identifiable characteristics of clogging.

PED 242 Physical Activities for Children

2 - 3 - 3

This course focuses on the components of the early childhood curriculum. Topics include the importance of play in the early childhood environment, developmentally appropriate environments, and various types of early childhood programs/curricula.

PED 250/251 Restrictive Physical Education

0-3-1

A course of study designed specifically to meet the need of those individuals who cannot enroll in regular physical education courses due to temporary or permanent physical impairment. Prerequisite: Completion of the Physical Education Restriction form and approval by the designated Physical Education faculty member, prior to enrollment.

PHILOSOPHY

PHI 260 Introduction to Philosophy

5-0-5

An introduction to philosophy. This course will introduce the student both to the subject of philosophy and to the art of philosophy. In so doing, the student will study the great issues and the great persons whose work is the corpus of philosophy. Readings in the great issues will supplement the textbook.

PHI 261 Introduction to Logic

5-0-5

An introduction to critical thinking. This course will introduce the student to the principles of formal and informal reasoning, fallacies, extended reasoning, and the relationship between and among beliefs, information, language, and values, and their effects on reasoning.

PHI 262 Problems in Philosophy

5.0.5

An advanced study of philosophy. The subject matter of this course will range from classical to current issues in philosophy. New subject matter will be added at the discretion the instructor if it is timely or of special interest. Prerequisite: PHI 0260 or PHI 0261.

PHOTOGRAPHY

PHO 121 Introduction to Photography I

2-6-4

An introduction to basic photography skills, appreciation of black-and-white photography, developing black-and-white films, and making enlargements from black-and-white 35mm negatives.

PHO 122 Photography II

2-6-4

This class will introduce advanced photography skills such as time exposure and panning, the use of flash, how to do copy work, and the use of infrared film. Students will learn how to select the best film for the job and how to properly present their prints; Prerequisite: PHO 121 or permission from the instructor

PHO 123 Photography III

9.6.4

An introduction to color photography with emphasis on color positives, processing of color positives and cibachrome printing processing. Prerequisite: PHO 121, 122, or permission from the instructor

PHYSICAL SCIENCE

PHS 151, 152, 153 Physical Science I, II, III

3-3-4(each)

An integrated perspective of the physical sciences, study of selected topics such as systems of measurement, the expanding universe, structure of the earth, kinetic molecular theory of matter, energy (types, transformation, utilization), properties of elements and compounds, structure and utilization of atoms. The role of science in the development of civilization is emphasized. Three laboratory hours per week.

PHS 160 Science for Elementary Teachers

2-0-2

Discussion, demonstration, and practical experience of science principles for the elementary teacher. The theory and underlying principles of basic science will be discussed and demonstrated using materials which are often readily available from the normal source of the busy teacher. Such areas as air, water, magnetism, gravity, simple machines, sound, light, electricity, rocks-minerals, and plant and animal life will be considered.

Environmental Science PHS 170

3-0-3

This is a man-centered study of the health, economic, ecological and aesthetic effects of our use of our natural resources. The physical, biological, and chemical processes that occur in nature are studied as to how they relate to man's activity and his generation of the different forms of pollution. Methods of controlling our environment for better living conditions and for a longer future are considered.

PHYSICS

Principles of Technology PHV 100

3-3-4

Principles of Technology is a course in applied physics for students who plan to pursue careers as technicians. This course is designed to help students understand modern, interdisciplinary systems where mechanical, fluid, electrical, and thermal devices often work together.

PHY 101, 102 Technical Physics I, II

3.3.4

Technical Physics introduces physics in a practical sense. Topics covered include force, work and rate. The topics are covered from mechanical, electrical, fluidal, and thermal references giving the student a broad background in basic physics.

General Physics I PHY 151

3-3-4

This course deals mainly with classical mechanics. Review is given to all systems of measurement with emphasis placed on the MKSA system. Major areas of study deal with velocity, acceleration, Newton's Laws of Motion, vectors, work, energy, power and circular motion. Three laboratory hours per week. Prerequisite: Completion of, or currently enrolled in MAT 151 or higher. (F)

General Physics II PHY 152

3-3-4

The major areas of study are thermodynamics, sounds, and optics; with concentration on temperature, heat transfer, vibrations, waves, light and lenses. Three laboratory hours per week, Prerequisite: PHY 151, (W)

General Physics III PHY 153

Electricity and magnetism and atomic structure are the major topics for study. Three laboratary hours per week. Prerequisite: PHY 152. (Sp)

Descriptive Astronomy PHY 160

This course will study the structure, mechanics, and observation of the solar system, stars and nebulae. (W)

PHY 251, 252, 253 are calculus level courses for engineering and science majors.

Analytical Physics I

3 - 3 - 4

This is a quantitative treatment of Newtonian mechanics, covering different motions of bodies, vectors, work, energy and power. Prerequisites: MAT 161, 162. (F)

Analytical Physics II

3.3.4

A Continuation of physics with emphasis upon the study of thermodynamics, sound and optics. Prerequisite: PHY 251, (W)

Analytical Physics III

Electricity, magnetism and nuclear physics will be the major topics of study. Prerequisite: PHY 252. (5p)

PLASTICS

PLA 220 Introduction to Plastics

3-0-3

A basic introduction to industrial plastics concerning both thermosets and thermoplastics. The descriptions, classification, and properties of various plastics will be covered. Plastics testing and polymer chemistry will also be included in the first quarter.

PLA 221 Plastics Materials and Processes

3-3-4

A study of the plastics industry to include various products and manufacturing processes. Processes include extension, blow molding, thermoforming, roll forming, casting and thermofusion. Prerequisite: PLA 220

PLA 222 Injection Molding

3.3.4

A concentration of the injection molding process. Topics include industrial equipment, materials, mold design and troubleshooting. Lab activities will include setup and operation of a modern injection molding machine. Prerequisite: PLA 221

PLA 223 Mold Maintenance and Repair

3-3-4

An in-depth study of the principles of the design, maintenance, and repair of molds used in the plastics industry. The class will consist of both lecture and laboratory experiences covering mold materials, assembly, cleaning, and repair. Special attention will be given to mold fill problems and troubleshooting. Prerequisite: PLA 222

PLA 224 Polymers

3-0-3

This course is designed to provide the student with further study in the area of polymeric materials. Special emphasis will be placed upon the hierarchy of plastics, from commodity grade to advanced grade thermoplastics, to all grades of thermosets. Advanced polymer chemistry and principles of elastomers will also be covered during the course. Prerequisites: PLA 220 and PLA 221

POLITICAL SCIENCE

POL 261 Introduction to American Politics

5-0-5

A study of the role of the President, Congress, Supreme Court and national administrative agencies in the American political system. The course focuses on the relationship between the American people and their political institutions with emphasis upon political culture, the electoral process, political parties, interest groups, domestic and foreign policy and political communication. Pre-requisite: satisfactory placement test scores in reading and English composition or completion of RED 090 and ENG 090.

POL 262 American State and Local Government

3-0-3

A study of the organization, function, and powers of state and local government throughout the United States with major emphases on the comparison of various basic state governments to North Carolina and local governments to Rutherford County. Pre-requisite: satisfactory placement test scores in reading and English composition or completion of RED 090 and ENG 090.

POL 263 Special Topics in Political Science

variable

This course will be concerned with special timely topics that occur in the political science area of study.

PSYCHOLOGY

PSY 115 Child Growth and Development I

3-0-3

This course is an introduction to the field of child growth and development. Specific topics will include historical perspectives on children, research and observation techniques, terminology, and the areas of growth and development. Emphasis will be placed on conception, prenatal development, the birth process and the neonate.

PSY 116 Child Growth and Development II

3.0.3

This course examines the growth and development of infants through early childhood. Specific emphasis will be placed on factors influencing development in the physical/motor, cognitive/language, and social/emotional areas. Prerequisite: PSY 115

PSY 117 Child Growth and Development III

3-0-3

This course examines the growth and development of middle childhood and adolescence. Specific emphasis will be placed on factors influencing development in the physical/motor, cognitive/language, and social/emotional areas. Prerequisite: PSY 116

PSV 260 General Psychology

5-0-5

This course is designed to acquaint the student with the various aspects of psychology at the introductory level. It is a survey of psychology dealing predominantly with material that enhances a study of the bio-social nature of humankind. Topics range from a study of the bio/chemical structure of the brain and nervous system to the underlying causes of abnormal behavior.

PSY 261 Developmental Psychology

3-0-3

The course is designed to acquaint the student with the developmental sequence of human growth which will include the essential elements involved in the study of prenatal and infant time periods. A study of the characteristic behavioral growth patterns from the preschool child through adolescence and adulthood will also be emphasized. Considerations will be given to individual differences, perceptualizations, cognition and physical growth. The social, emotional, and attitudinal aspects from within these areas of development will be stressed as part of this study. (W)

PSY 262 Introduction to Applied Psychology

3 - 0 - 3

This course explores the field of psychology with reference to its application in human affairs. Applied Psychology focuses upon the transferral of theoretical concepts from a research emphasis in psychology to aspects of practical application. Topics cover such diverse areas as artificial intelligence and brain studies of whales and dolphins emphasizing the realistic usage of all data studied.

PSY 263 Abnormal Psychology

3-0-3

The course traces the development of recognized psychological abnormalities from early Greek references to personality disturbances through the era of "High Tech" disorder therapy. Models of abnormal behavior, syndromes of abnormal behavior and perspectives on schizophrenia will be examined along with the major sub-structures within each. The societal response to abnormal behavior, as well as modern psychotherapeutic techniques, form the basis for further in-depth study into the nature of pathological phenomena. (5p)

PSY 1100 Human Relations

3-0-3

This course is designed to enable students to better understand the basic principles of behavior. The human relations problems of the Individual are studied in relation to society, group memberships, and relationships within the work situation.

READING

RED 085 Basic Reading

2-3-3*

The Basic Reading course is designed for students who are not able to read (decode) longer words with the speed and accuracy needed for success in RED 0090. Students will develop a strong sound/sound relationship (phonics) using a structured multi-sensory approach. As such, this course will be beneficial to those students who have a spelling deficiency. Knowledge of syllable types further aids the student in decoding and spelling longer words. Vocabulary studies, comprehension skills, and discussion complete the curriculum.

RED 090 Reading Proficiency

2-3-3*

Reading Proficiency provides the opportunity for students to acquire the reading skills that will be necessary for successful completion of college transfer, business, technical, and vocational programs. The course includes vocabulary instruction, reading comprehension, and critical thinking studies, as well as study skills that relate particularly to reading (pre-reading activities, summary writing, annotation, preparation for testing, and activities intended to improve the memory for information). This is largely an interactive class in which the particular needs of individual students receive careful attention.

*These credits are institutional credits only and cannot be used for graduation. They are used for determining hour load for payment, eligibility for financial aid, or classification for a full-time student.

RED 260 Speed Reading

3-0-3

This course is designed to help a student become a more efficient reader by using the techniques of skimming, scanning, and study-type reading. The measurement of an efficient reader is not how many words he can recognize per minute; it is his/her ability to comprehend rapidly and retain concepts.

RELIGION

REL 160 Introduction to the Old Testament

5-0-5

A survey of the Old Testament, Emphasis will be placed on the content of the Old Testament, as well as on its background and development. (F)

REL 161 Introduction to the New Testament

5-0-5

A survey of the New Testament, After an introduction to the Interbiblical Period, emphasis will be placed on the content of the New Testament, as well as on its background and development. (W)

REL 162 World Religions

5-0-5

A survey and comparison of the origins, developments, beliefs, and practices of the major faiths. Pre-requisites: ENG 090 or satisfactory placement test scores. (Sp)

REL 170 History of Christianity

8-0-8

This course is designed to acquaint the student with the leaders of Christian doctrine and practice. It is a biographical study of men and women who have guided Christianity. Special emphasis is given to the Reformation period and the formation of various denominations. Pre-requisites: ENG 090 or satisfactory placement scores.

REL 180 Special Topics

variable

This course is designed to deal with any heretofore uncatalogued topics which are of timely and/or special interest. Prerequisites and credit hours will vary with each of the numerous topics which may be offered under this description. (On demand)

REAL ESTATE

RLS 121 Real Estate Math

3-0-3

A review of formulas for calculating the areas of squares, rectangles, circles, triangles, trapezoids, and volumes applied to house size or land area. Calculations of commissions, percentages, proration, capitalization, interest, depreciation, appreciation, and taxes. (F,Sp)

RLS 122 Real Estate Brokerage

3-0-3

This course covers the organization and conduct of real estate brokerage, business and professional activities; social, economic, legal licensing and ethical responsibilities of the real estate broker. (W) RLS 230 Real Estate Fundamentals

6-0-6

A study of brokerage, fair housing, contracts, property ownership and interests, leases, and transfer of title, financing, closing transactions, property management, building construction, property valuation, land use controls, and taxation. Meets North Carolina requirement for Sales examination and partial requirement for Brokerage examination. (F,Sp)

RLS 231 Real Estate Finance

3-0-3

A study of financing instruments and financial intermediaries, government insurance, guarantees, controls, appraisals, and the processing of loans. Borrowing for the purpose of investing in income properties and investment techniques are included. (W)

RLS 238 Real Estate Law

3-0-3

A comprehensive study of real property law as it relates to land, types of estates, easements, appurtenances, leases, types of tenancies, wills and deeds. (W)

RADIO AND TELEVISION BROADCASTING

RTV 116 Broadcasting Announcing

3-3-4

This course provides a study of the announcer's function, skills, characteristics, and techniques. Emphasis is placed on the analysis, interpretation, and communication of various types of announcing-performance projects. The course is also designed to familiarize the student with basic broadcast studio equipment and broadcast procedures.

RTV 201 Introduction to Broadcasting

5-0-5

A survey course of radio and television broadcasting including history and development; station organization and procedures; and a practical introduction to the fundamentals of industry.

RTV 203 Expression in the Media

5-0-5

An introduction to communication theory including the study of expressing oneself clearly and accurately as a mass media communicator. Basic communication skills that are important for any person involved in mass media communication. Communication has an immeasurable impact upon one's life. Broad exposure to a variety of speech experiences develops skills which are basic to higher education and human interaction. Critical listening, logic, organization, and speaking skills are emphasized.

RTV 204 Audio Production I

3-8-7

A two part course that deals with the "Ground Floor" basics of audio, Part I deals with the physical behavior and perceptual effects of sound. Part II focuses on Broadcast and Recording equipment and its innerworkings.

RTV 205 Broadcast Programming

3-0-3

Trends and requirements of broadcast programming. An analysis of community program needs and tastes, station image. Programming points of view of television, radio, cable, and public broadcasting.

RTV 206 Writing for Broadcasting

3-2-4

This course examines proper techniques and formats of writing scripts and copies for the radio and television media. Students will strive for professional standards of broadcast copy writing in the completion of a variety of writing projects. Prerequisite: OSC 101

RTV 207 Video Production I

3-8-7

Most video today is in education, industry, small-scale studios, and production shops, so students must learn to do production single-handedly. Students will apply their knowledge of television systems. They will focus on the theory, aesthetics, and terminology of producing and directing video programs. Prerequisite: RTV 220

This course in advanced audio production addresses the application of audio in various media. The technical planning process, sound design, and advanced radio production techniques and equipment are the main focus of the course. Students will become involved with multi-track recording and gain a basic understanding of audio signal processing equipment. Prerequisite: RTV 204

RTV 209 Video Production II

2-8-6

This course will prepare the student to handle planning, production and equipment from early stages of audience analysis to post production. Students will apply their knowledge of television systems and video production I to produce two complete programs (one artistic in nature and another with an educational objective). Prerequisites: RTV 220 and RTV 207

RTV 211 Broadcast Journalism

3-6-6

An introduction to the field of broadcasting journalism with special emphasis on the gathering, writing, delivery, editing and processing of news. Prerequisite: OSC 101

RTV 212 Broadcast Operations

3-0-3

The technologies of computers and satellites, combined with the date, audio and video messages of radio and television, center the human and technical systems that drive the modern broadcast facility's daily operations. This course studies first-hand the work involved in organizing, managing and maintaining the on-line systems of radio and television broadcast and cable facilities. Students will be introduced to a variety of new technologies which are likely to drastically change the telecommunications industry in the near future.

RTV 218 Broadcast Law

2.0.2

This is a lecture type course designed for upper level students to examine broadcast regulation. They will be exposed to the basis of American Law and how it created the Federal Communications Commission. The focus will be on first amendment, obscenity laws, and copyright regulation. Students will determine how current FCC regulation is affecting the broadcast industry.

RTV 220 Introduction to TV Systems

5-4-7

Students become familiar with the technical systems that allow the production, transmission, and reception of television. The course is meant to prepare students for a better rounded operational prospective rather than to train broadcast engineers.

RTV 221 Troubleshooting Broadcast Equipment

2-3-3

Students will learn that even though audio and video equipment are complex and expensive, it rarely breaks down if properly maintained. Students will be exposed to various common ailments and cures that can make their productions run smoother. They will gather a complete understanding of signal flow and how to quickly track down potential problems. Prerequisites: RTV 208 or RTV 209

RTV 222 Industrial/Instructional Television

4-0-4

Corporate, institutional, and instructional video will be examined as it is used at installations in the local area and nationally. The content of this type of programming and its design will be looked at as well as its financial implementation and evaluation.

RTV 223 Broadcasting Management

3-0-3

This is a lecture type course designed for upper level students to examine the issues, problems, and strategies of managing radio and TV stations and audio/video operations. The social, economic, and legal responsibilities of management are stressed and are analyzed in terms of the day-to-day realities of the communications industry. RTV 226 Supervised Work Experience 1 1 - 10 - 2

Students are assigned to work in either a radio, TV station, or related field for a minimum of ten hours a week. The objectives of the course is to provide actual experience for students, to practically apply their skills and knowledge, and to compile a usable portfolio of these and past experiences. Prerequisites: RTV 208 or RTV 209

Supervised Work Experience II RTV 227

1-10-2

Students are assigned to work in either a radio, TV station, or related field for a minimum of ten hours a week. The objectives of the course is to provide actual experience for students, to practically apply their skills and knowledge, and to compile a usable portfolio of these and past experiences. Prerequisites: RTV 208 or RTV 209 or RTV 226

SAFETY AND FIRST AID

Adult CPR SAF 150

1-0-1

A course of instruction designed to develop competency in Standard First Ald and CPR. American Red Cross certification in Standard First Aid and Adult CPR is available through this course of instruction,

First Aid/Community CPR SAF 151

3-0-3

A course of instruction designed to develop competency in the recognition of common emergencies, and the performance of first aid skills and CPR. Certification in American Red Cross Standard First Aid and Community CPR is available through this course of instruction.

SOCIOLOGY

Introduction to Sociology 5OC 160

An analysis of the society and culture dealing with social organization, control, institution, stratification, and social change. Pre-requisite: RED 090 or satisfactory placement test scores.

SOC 161 Social Problems 3-0-3

A study of the major social problems of modern society, including family disorganization, minority groups, and problems associated with industrial and urban development. Prerequisite: RED 090 and ENG 090 or satisfactory placement test scores. (W, Su)

Sociology of the Family SOC 162

3-0-3

Study of the American family with attention given to courtship, marriage, family relationships and interdependencies, and social cultural stresses emerging from contemporary family life. Pre-requisite: RED 090 or satisfactory placement test scores. (Sp,Su)

SOC 163 **Family Violence** 3-0-3

This course examines family violence in the context of a changing society and the family system. Beginning with a historical perspective of family violence, the course focuses attention on battering, child abuse, elder abuse, and sexual abuse. The investigation of each of these topics will enable the student to see how cultural factors and values influence family violence.

SOC 170 Special Topics

This course is designed to deal with any heretofore uncatalogued topics which are of timely and/or special interest. Prerequisites and credit hours will vary with each of the numerous topics which may be offered under this description. (On demand)

Human Sexuality SOC 171

A study of the biological and physiological elements of sex and reproduction, and that which is involved in our identity as sexual beings. A course of instruction which includes the psychological and social aspects of human sexuality.

The student will study the importance of values, personality development, self-concept and basic human relation principles, such as communication, speaking and listening; (W)

SPANISH

SPA 160, 161, 162 Fundamentals of Spanish I, II, III

3-2-4

This is a program of study designed to teach understanding, speaking, reading, and writing of Spanish and to grant an awareness of Spain and its people. An audio-visual method is used. Prerequisite: Must be taken in sequence. (F, W, Sp)

SPA 260, 261, 262 Intermediate Spanish I, II, II

3 - 2 - 4

In this course of study, the fundamentals of Spanish are used as the background for a basic study of the culture, civilization and literature of Spain with a further development of language skills. Prerequisites: Fundamentals of Spanish I, II, III or two years of high school Spanish. (F,W,Sp)

TEXTILES

TEX 101 Fundamentals of Textiles

3.0.3

An introduction to textiles, including the history of the industry, description of textile materials and products and their utilization. Presentation of the basic manufacturing systems, materials flow, terminology and calculations. (F)

TEX 102 Fiber Sciences

3-2-4

This course includes a study of the vegetable, animal, mineral, and man-made fibers. Their chemical and physical properties are examined. Prerequisite: TEX 101. (W)

TEX 211 Yarn Forming I

3.0.3

A general description of yarn will introduce the study of yarn forming systems. Included in this course will be opening and picking processes, card, drawing, and combing process, and fiber blending. Basic fundamentals of textile processing will be emphasized as each aspect of yarn formation is studied. (W)

TEX 212 Yarn Forming II

3-0-3

This course will deal with yarn formation starting with the roving processing and will include spinning, winding and twisting. Processing of filamentous synthetic yarns will also be studied. Basic fundamentals of textile processing will be emphasized. Prerequisite: TEX 211. (Sp)

TEX 213 Fabric Forming Systems

3-0-3

The course deals with the basic forming systems including weaving, knitting and nonconventional. Fundamentals of conversion of fibers and yarns into fabrics. Fabric design, construction and raw materials are considered which relate to properties and performance of the end product. (Su)

WELDING

WLD 1101 Welding I

4-12-8

A thorough study of basic oxyacetylene welding, cutting, brazing, soldering, and plasma are cutting. Setting up and shutting down oxyacetylene welding station. Demonstrations on various types of weld joints, butt, lap, inside corner, outside corner will be preformed.

WLD 1102 Welding II

A thorough on the history of arc welding and the operation of various A.C. transformers, A.C. and D.C. rectifiers and D.C. motor generator arc welding units will be introduced. Studies are made on welding heats, polarities, electrodes. Demonstration on various types of weld joints and positions will be performed.

4-12-8

WLD 1103 Welding III

4-12-8 Welding 1103 consists of arc welding and inertigas shield arc welding. A thorough study will be made of the equipment, operation, and procedures in gas-tungsten-arc welding and gas-metal-arc welding. This course is designed to provide practice in both types of welding. Safety procedures are stressed throughout the program.

4-12-8 WLD 1104 Welding IV

Welding 1104 consists of the study of pipe welding. A thorough study will be made on proper position and application. This course is designed to provide practice in all type of welding test pipe and plate. Safety procedures are stressed throughout the program.

2-6-4 WLD 1118 Welding Problems I A thorough study of basic oxyacetylene welding, cutting, brazing, soldiery and plasma cutting. Identify torch parts, types of gases, filler rods. Identify three types of flumes. Know what a good weld should look like and what type of penetration it has. Identify regulation

parts, and be knowledgeable on all safety procedure in welding lab.

WLD 1119 Welding Problems II

A thorough study of arc welding, identifying proper skills, beads, and welding electrodes. The study on polarities, positions, and identifying and inspect weld coupons. Test welds for proper penetration, size, depth, and be knowledgeable on all safety procedure in arc welding area.

2-6-4 WLD 1120 Welding Problems III A thorough study and operation on tungsten inert gas or "tig welding" and metal inert gas "mig welding" will be introduced. Studies are made on machine operations, torches, guns, heats polarities. Demonstration on various types of metal, weld joint and welding positions

will be performed.

2-6-4 WLD 1123 Auto Body Welding I

The basic principles in use of mig, spot and oxygen, acetylene welding will be taught as applied to auto motive collision repair. A through study of how individual panels are held in place. Cutting equipment covered will be gas and plasma arc. The use of airless plastic welding equipment will also be taught.

WLD 1124 Auto Body Welding II Further practice in replacing Auto Body Panels using spot welding, mig welding and plastic

welding. Replacement of quarter panels, rockers and high strength steel frame members will be taught. Plastic welding on composite type plastics as well as adhesive type plastic repairs will also be studied.

WLD 1135 Basic Gas Welding and Cutting 2-3-3 A thorough study of basic oxyacetylene welding, cutting, brazing, soldering, setting up and shutting down oxyacetylene welding station. Demonstrations on various types of weld joints, butt, lap, inside corner, outside corner will be preformed.

ADMINISTRATORS AND FACULTY

ADMINISTRATIONS AND INCOME
Joyce Abernethy
Marvie Alexander
Marisa Baron
Martha L. Baskin
Fred Bayley
Burr Beard
Timothy D. Beaver
Fay Bedell
Carole W. Bartol
Mary Blackwood
Ruth Boehning
Margaret Buchanan
Mary B. Burgin
Leonard Byers
Dean Byrd
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Aubrey Calton, Jr. Business B.E.E., North Carolina State University; M.S.E.E., USAF Institute of Technology
Steve L. Chrisman
Treva Clayton
Rebecca E. S. Cleland
Ronnie Connor
Jay Coomes

Michael Croussore	
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Mike Davis	alt Basic Education nessee
Rhonda Davis	Appalachian State
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Mohamed ElGazzar	Electronics
Phillip Fischer	
Clara Fowler	
Betty Gabriel	ector of Counseling
Shirley Lyon Garcia	
Jim Garren B.S., M.A., Appalachian State University	
Olan R. Gilbert	
Peter Golden	sity of Houston
Gene Green Director, Plant Operation	
James L. Hall	Mathematics sity
Frances Haney	Business
Burton Harris Electrical In B.S., University of Tennessee	stallation Instructor
Carrie E. Harris Child Carrie A.A., Gardner Webb; A.B., Lenoir Rhyne College	e/Teacher Associate
Donna Harrison	ent Support Services
Robert E. Harrison	and Student Affairs gan State University
Mary Ann Head	, Adult High School
Wesley Henderson A.A., Community College of Air Force; B.A., University of Mississippi; M.S. New York at Plattsburgh; Ed.S., Converse College	Social Science , State University of

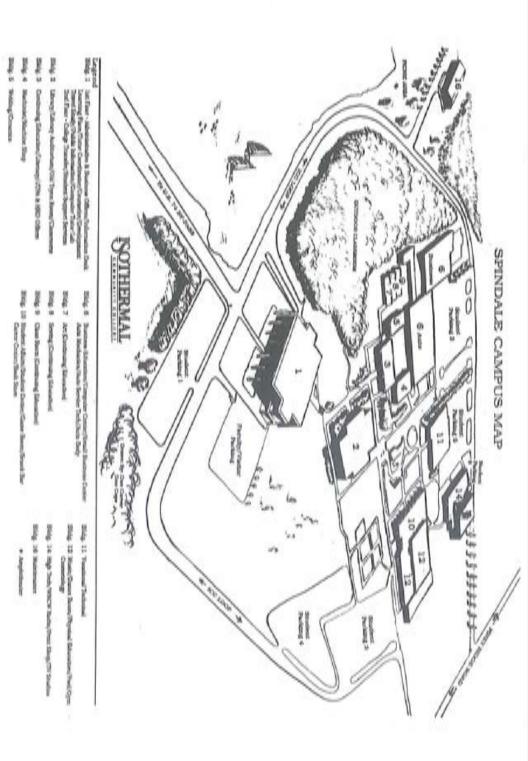
Wayne Hutchins
Augusta M. Hyde
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Cathy Jackson
Karen Jans
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Catherine Jolley
Carol Jones
Chris Koone
Dewalt Koone
Willard L. Lewis
Carol Lieurance
Helyn Lowery
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Cindy Martin
Gordon Martin
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William L. McDaniel, II
Susan C. Monday
Dillard L. Morrow
Virginia Neal

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Ethel Patterson
Barbara P. Peterson
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Deborah Rogers
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Index

Academic Load	College Transfer Program Associate of Arts
Accreditation13	Conduct, Student48
Administrators and Faculty219	Continuing Education
Admissions	Cooperative Education 149
Conditional Admissions18	Cosmetology
Foreign Students17	Course Description170
General Requirements16	Counseling, Student34
High School Students18	Criminal Justice108
Readmission 18	Curriculum Programs 66
Special Credit18	Dean's List
Transfer Requirements17	Drafting and Design Technology 111
Adult Basic Education 57	Dress Code45
Anthropology	Drug and Alcohol Policy48
Course Description154	Economics
Art	Course Description178
Course Description154	Education Course Description178
Associate Degree for Vocational	Electrical Installation and
Instructors95	Maintenance142
Auditing Courses20	Electronics Engineering Technology 113
Auto Body Repair	Electronics
Certificate Program135	Course Description182
Course Description	Engineering, Mechanical
Automotive Mechanics	Technology
Certificate Program	English Course Description184
Course Description	Fees, Student Activity51
Beautician—See Cosmetology	Financial Aid40
Biology	G.E.D. (General Educational Development)
Course Description	Program
Bookstore 50	Geography
Susiness	Course Description187
Certificate Program101	Geology
Course Description159	Course Description187
Pre-Business Administration 71	Grade Appeals
Pre-Business Education	Grading System26
Business Computer Programming 102	Graduation
Campus Visit	Honors
Career Development Center34	Procedures
Changes	Requirements31
Program	Grants
Chemistry	Federal Supplemental Education
Course Description166	Opportunity Grants (FSEOG)41
Child Care Worker Program	North Carolina Student Incentive
Diploma	Grants42
Class Attendance	Pell (formerly BEOG) Grant41
Classifications, Student	Health Course Description
College Calendar5	Health Services, Student

	2 5 Val. 8 8 Val. 12
listory	Pre-Computer Science College Transfer
College11	Program73
Course Description188	Pre-Law College Transfer Program 77
tousing37	Pre-Medical and Pre-Science College
4RD Program58	Transfer Program79
dumanities	Our reduced as an a
Course Description189	Course Description210
D Cards, Student	Radio/TV Broadcasting129
ndividualized Studies149	Reading
ndustrial Science	Course Description211
Course Description190	Real Estate
Course Description	Refunds, Tuition and Fees23
nsurance190	Registration20
Law—See Pre-Law	
Liberal Arts	Religion 213
College Transfer Program78	Course Description212
Loans	Repeating Courses27
Emergency Fund43	Residence Status for Tuition Purposes .51
Guaranteed Loan Program42	Scholarships
Scholarship Loan Fund for Prospective	Secretarial Programs
Teachers of North Carolina42	Administrative Office 89
Machinist	Social Work
Certificate—Evening144	College Transfer Program
Diploma143	Sociology
Mathematics	Course Description215
Course Description191	Student Government Association 37
Pre-Math College Transfer74	Student's Rights49
Mechanical Engineering123	Student Support Services150
Music	Teaching Pre-Teaching—College Transfer
Course Description197	Program
Pre-Music College Transfer81	Teacher Associate Program 132
Nondiscrimination Statement	Technical Programs
Nursing	Testing, Placement
Course Description200	Textiles
Practical Nurse	Course Description216
Education145	Traffic Regulations50
Office Hours13	Transcripts
Orientation	Tuition
Philosophy	Non-residents50
Course Description208	Residents50
Physical Education	Senior Citizens52
Course Description204	Veterans Affairs35
Office and some	Vocational Programs134
Physics Course Description209	Welding Certificate Program
Course Description	Course Description216
Placement Testing	Diploma Program142
Political Science	Withdrawals
Course Description210	Adords Church Department At
Polk County Campus62	Work-Study Program 42



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