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Pitt Community College

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PITT COMMUNITY COLLEGE

Greenville North Carolina

Recognized and Approved By North Carolina State Board of Community Colleges North Carolina State Board of Nursing Radiologic Technology Joint Review Committee of the American Medical Association

Accredited by Southern Association of Colleges and Schools

ARCHIVES

CATALOG OF COURSES DAY AND EVENING PROGRAMS

Volume XI 1982-84



Pitt Community College publishes this catalog to provide students and other interested persons with information about the College and its programs.

The provisions of the catalog are not to be regarded as an irrevocable contract between students and Pitt Community College. Every effort will be made to minimize the inconvenience such changes create for students. The College reserves the right to change any provisions, requirements, or schedules at any time or to add or withdraw courses or program offerings.

Students having questions not answered in this publication may secure additional information from the Dean of Students, Pitt Community College, P. O. Drawer 7007, Greenville, North Carolina 27834; telephone: (919) 756-3130.

It is the policy of Pitt Community College not to discriminate against any person on the basis of race, color, handicap, sex, religion, age, or national origin in the recruitment and admission of students; the recruitment, employment, training, and promotion of faculty and staff; and the operation of any of its programs and activities, as specified by federal laws and regulations.

Pitt Community College is an equal opportunity / affirmative action institution.



PRESIDENT'S MESSAGE

Welcome to Pitt Community College. We are delighted that you are interested in our College and look forward to this opportunity to serve you. Our wide range of courses and programs, designed with learning experiences to provide a practical education, will help you become a more productive individual in your chosen field.

This catalog provides you with a detailed description of the College's requirements, procedures, and offerings. What it cannot convey, however, is the satisfaction that comes from attending Pitt Community College where the staff and faculty have a genuine concern for the welfare and future success of its students. The opportunity is here for you. I urge you to take full advantage of the College's total resources in the development of your abilities in your chosen field.

Niciam & Trepd Je

Dr. William E. Fulford, Jr. President

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ACADEMIC CALENDAR 1982-83

FALL QUARTER

Cherectares (matallabon a
Wednesday, September 1
Thursday, September 2
Friday, September 3
Monday, September 6
Wednesday, September 8
Friday, October 1
er:
Friday, October 25 thru 29
er:
Thursday, October 25 & 28
Friday, October 29
Friday, November 19

WINTER QUARTER

Registration: Day and Evening Monday, November 29
Day and Evening Classes and Drop/Add Begin Tuesday, November 30
Last Day and Evening to Drop/Add Thursday, December 2
First Day of Christmas Holidays Monday, December 20
Classes Begin After Christmas Holidays Monday, January 3
Last Day to Officially Withdraw
Without Valid Reason Monday, January 10
Preregistration and Prepayment for Spring Quarter:
Day Classes7 Monday thru Friday, February 7 thru 11
Preregistration and Prepayment for Spring Quarter:
Evening Classes
Last Day to Remove Incompletes Monday, February 7
Last Day of Classes

SPRING QUARTER

Registration: Day and Evening Monday, March 7
Day and Evening Classes and Drop/Add Begin Tuesday, March 8
Last Day and Evening to Drop/Add Thursday, March 10
Easter Holiday Friday, April 1
Easter Holiday Monday, April 4
Last Day to Officially Withdraw
Without Valid Reason Wednesday, April 6
Preregistration and Prepayment for Summer Quarter:
Day Classes Monday thru Friday, May 2 thru 6
Preregistration and Prepayment for Summer Quarter:
Evening Classes
Last Day to Remove Incompletes
Last Day of Classes
Graduation

ACADEMIC CALENDAR 1982-83 (Cont'd)

SUMMER QUARTER

Registration Summer Quarter and	
First Summer Session: Day and Evenin	ng Tuesday, May 31
Day and Evening Classes and Drop/Add	Begin Wednesday, June 1
Last Evening to Drop/Add	Thursday, June 2
Last Day to Drop/Add	Friday, June 3
Last Day to Officially Withdraw	
Without Valid Reason	Tuesday, June 28
Independence Day Holiday	Monday, July 4
First Summer Session Ends	Friday, July 8
Summer Break	Monday thru Friday, July 11 thru 15
Registration Second Summer Session .	Monday, July 18
First Day of Classes	Tuesday, July 19
Last Day to Drop/Add	Thursday, July 21
Last Day to Remove Incompletes	Wednesday, August 3
Preregistration and Prepayment for Fall	Quarter:
Day Classes	Monday thru Friday, August 1 thru 5
Preregistration and Prepayment for Fall	Quarter:
Evening Classes	Monday & Thursday, August 1 & 4
Last Day of Classes	Wednesday, August 24
Graduation	Thursday, August 25



ACADEMIC CALENDAR 1983-84

FALL QUARTER

Faculty Orientation and Registration	n:
Day and Evening	Wednesday, August 31
Registration: Day and Evening	
Evening Classes Begin	Thursday, September 1
Day Classes and Drop/Add Begin .	Friday, September 2
Labor Day Holiday	Monday, September 5
Last Day and Evening to Drop/Add	Wednesday, September 7
Last Day to Officially Withdraw	
Without Valid Reason	Friday, September 30
Preregistration and Prepayment for	Winter Quarter:
Day Classes	Monday thru Friday, October 24 thru 28
Preregistration and Prepayment for	Winter Quarter:
Evening Classes	Monday and Thursday, October 24 & 27
Last Day to Remove Incompletes .	Friday, October 28
Last Day of Classes	Friday, November 18

WINTER QUARTER

Registration: Day and Evening Monday, November 28
Day and Evening Classes and Drop/Add Begin Tuesday, November 29
Last Day and Evening to Drop/Add Thursday, December 1
First Day of Christmas Holidays Monday, December 19
Classes Begin After Christmas Holidays Monday, January 2
Last Day to Officially Withdraw
Without Valid Reason Monday, January 9
Preregistration and Prepayment for Spring Quarter:
Day Classes Monday thru Friday, February 6 thru 10
Preregistration and Prepayment for Spring Quarter:
Evening Classes Monday & Thursday, February 6 & 9
Last Day to Remove Incompletes Monday, February 6
Last Day of Classes Monday, February 27

SPRING QUARTER

ACADEMIC CALENDAR 1983-84 (Cont'd)

SUMMER QUARTER

Registration Summer Quarter and
First Summer Session: Day and Evening Tuesday, May 29
Day and Evening Classes and Drop/Add Begin Wednesday, May 30
Last Evening to Drop/Add Thursday, May 31
Last Day to Drop/Add Friday, June 1
Last Day to Officially Withdraw
Without Valid Reason
Independence Day Holiday Wednesday, July 4
First Summer Session Ends Friday, July 6
Summer Break Monday thru Friday, July 9 thru 13
Registration Second Summer Session Monday, July 16
First Day of Classes Tuesday, July 17
Last Day to Drop/Add Thursday, July 19
Last Day to Remove Incompletes Wednesday, August 1
Preregistration and Prepayment for Fall Quarter:
Day Classes Monday thru Friday, July 30 thru August 3
Preregistration and Prepayment for Fall Quarter:
Evening Classes Monday & Thursday, July 30 & August 2
Last Day of Classes Wednesday, August 22
Craduation Thursday August 23



ORGANIZATION

BOARD OF TRUSTEES

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R. E. Davenport, Jr. Max R. Joyner G. Henry Leslie Henry C. Oglesby Raymond Reddrick Corey Stokes Joseph M. Taft William F. Tyson Vernon E. White A. B. Whitley, Jr.

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Terri R. Little Secretary fo	r Institutional Development
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Elizabeth L. Mallory, A.A.S.	Switchboard Operator and
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OFFICE OF INSTRUCTION

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Willard C. Finch, M.A.	Assistant Dean of Instruction
Ola L. Porter, M.A.	Assistant Dean of Instruction for
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Joyce Williams	Secretary, Continuing Education Division

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Carolyn S. Smith, M.L.S Librarian and Coordinator
of Library Services
John L. Griffin, B.F.A Instructional Designer and
Media Production Specialist
Bruce Dolin Audiovisual Equipment Technician
Patricia F. Casper, Diploma LRC Acquisitionist/Bookkeeper
and Secretary to the Assistant Dean of Instruction
for Learning Resources
Mary K. Godley, A.A.S LRC Technical Assistant
Rita B. Harris, A.A.S LRC Technical Assistant

LEARNING CENTER

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Sidney M. Posey, A.A.S Assistant	Learning Center Coordinator
Rudy Lloyd, A.A.S Assistant	Learning Center Coordinator

OFFICE OF STUDENT SERVICES

Edgar L. Boyd, M.Ed	Dean of Students
Norma S. Barrett, M.S	Director of Counseling
Sylvia Corey, A.A.S D	Director of Admissions and Records
James O. Deans, M.A	Counselor
Yvonne George, M.S	Counselor
Kathy Kinlaw, B.A.	Assistant Registrar
Ernest L. Quinn	Veterans Affairs Officer and
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Nancy Taylor	Financial Aid Officer
Gail Wallace, M.A.	Placement Officer
Connie Wrenn, B.A.	Counselor
Marietta Williams, A.A.S.	Encoder
Sally Allen	Secretary, Financial Aid
Mitzi Bromberg, A.A.S.	Secretary, Directory of Admissions
Donna Arnold, A.A.S.	Secretary, Financial Aid
Jean King	Secretary, Dean of Students
Kathy Ruffin, A.A.S.	Secretary, Counselors

OFFICE OF FISCAL AFFAIRS

William H. Howell, M.S	Dean of Fiscal Affairs
Connie S. Harrell, A.A.S.	Comptroller
Doris D. Baker, A.A.S.	····· Purchasing Officer
Frances D. Elks	Batching Clerk and Central Supply
	Store Manager
Clifton J. Moss, A.A.S Equip	ment and Inventory Control Officer
Alberta M. Moye	Secretary, Dean of Fiscal Affairs

Helen J. Vandiford Accountant
Janice McGowan, B.S Accountant
Susan Counterman, A.A.S Computer Operator
Byron Dickens, B.S Bookstore Manager
Judy Harris Secretary, Bookstore
Jenny Edwards, A.A.S Accountant
Brenda Williams, A.A.S Accountant
Rudy Ross Mail Clerk and Maintenance
Paul Suggs Graphic Arts Technician
Brenda Smith, A.A.S Graphic Arts Technician

MAINTENANCE STAFF

William Dinkins, A.A.S.	Superintendent of Buildings
	and Grounds
C. J. Best	Maintenance Engineer
Owen Burney	Maintenance Engineer
Douglas Jobes, A.A.S.	Maintenance Engineer
Ella Mae Barnhill	Maintenance
Albert L. Crandell	Maintenance
Ernest L. White	Evening Supervisor
Jesse Whitehurst	Maintenance
Betty P. Strong	Maintenance
William Taylor Strong	Maintenance
David L. Carmon	Maintenance
Farley Ebron	Maintenance
Norwood Garris	Maintenance
Terry Green	Maintenance
James Wrenn	Maintenance

SPECIAL STAFF

Hazel Barrow	Instructor, Human Resources
	Development Program
Charles M. Dickens, M.A Coo	ordinator of Human Resources
	Development Program
A. J. Tyson, B.A	Instructor, Human Resources
	Development Program
Carolyn H. Stephenson, A.A.S.	Secretary, TRIO
Irene Hanifer, M.A.Ed.	Principal, Pitt County
	Extended School

INSTRUCTIONAL STAFF

*I. Kelly Adams, M.F.A.	Commercial Art and Graphic Design
J. Sam Arnett, M.A.	Architectural Drafting
Sally A. Barnaby, B.S.N.	Nursing Education

Frances T. Bennett, B.S.N Nursing Education
*William Roy Boyd, Diploma Air Conditioning, Heating,
and Refrigeration
Cheryl Brandon, B.A., M.A English and Social Science
Michael Bridgers, M. S TRIO
Lanny Joe Brittain, Certificate Industrial Maintenance:
Electromechanical
*James T. Brooks, Diploma Carpentry and Cabinetmaking
Angela Buck, B.S.N Nursing Education
Catherine S. Bullock, M.Ed English and Social Science
Ann B. Byrd, M.A.
Glenda H. Carawan, B.S.B.A.E., M.A.Ed Business Education
John Cayton, M.A TRIO
*Dale Chalmers, Licensed Cosmetologist Cosmetology
*Gavle Cobb. B.S.N Surgical Technology
Charissa Colclough, B.S.N Nursing Education
*Philip J. Costello, M.A.
Louise R. Cox, R.TR Radiologic Technology
Julia D. Craft, B.S.N Nurse Assistant, Hospital Ward Clerk
*Lyman C. Craft, Certificate Farm Machinery Mechanics
James A. Creech, M.S Business Education
*Susan H. Creech, M.S.H.E., M.A.Ed Teacher Assistant, Early
Childhood Associate, Educational Associate
Mary Daughtry, A.A.S Business Education
Mary Daughtry, A.A.S Business Education Faye H. Dempsey, M.A.Ed Business Education
Mary Daughtry, A.A.S
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Mary Daughtry, A.A.S. Business Education Faye H. Dempsey, M.A.Ed. Business Education Larry C. Dendy, M.P. Math and Science Elaine Denton, M.A. Business Education R. Patsy McAllister, M.A. Math and Science Patricia S. Earnhardt, B.S.N. Nursing Education *Margaret J. French, M.S. Human Services James E. Fulcher, Apprentice School Diploma Machinist Kay H. Galloway, B.S. Preschool Laboratory Kay Elizabeth Gladson, M.A. English and Social Science *James A. Harris, Diploma Machinist Martha Hester, M.A. English and Social Science Jean Holley, M.A.Ed. Business Education *James N. Hoover, M.S. Electronics Engineering Bryon W. Horton, M.A. English and Social Science *Lloyd F. Huggins, A.B. Criminal Justice, Paralegal *John C. Hutchens, M.A. English and Social Science Judith Kasperek, B.A., M.T. Nursing Education *Marcus C. King, B.S. Energy Technology
Mary Daughtry, A.A.S. Business Education Faye H. Dempsey, M.A.Ed. Business Education Larry C. Dendy, M.P. Math and Science Elaine Denton, M.A. Business Education R. Patsy McAllister, M.A. Business Education R. Patsy McAllister, M.A. Math and Science Patricia S. Earnhardt, B.S.N. Nursing Education *Margaret J. French, M.S. Human Services James E. Fulcher, Apprentice School Diploma Machinist Kay H. Galloway, B.S. Preschool Laboratory Kay Elizabeth Gladson, M.A. English and Social Science *James A. Harris, Diploma Masonry Gene D. Hemby, B.S. Machinist Martha Hester, M.A. English and Social Science Jean Holley, M.A.Ed. Business Education *James N. Hoover, M.S. Electronics Engineering Bryon W. Horton, M.A. English and Social Science *Lloyd F. Huggins, A.B. Criminal Justice, Paralegal *John C. Hutchens, M.A. English and Social Science Judith Kasperek, B.A., M.T. Nursing Education *Marcus C. King, B.S. Energy Technology *Judith W. Kuykendall, B.S.N., M.S. Nursing Education
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Linda C. Leighty, M.A., M.S. English and Social Science *IoAnn Leith, M.A. Business Education Carla Lewis, B.S.N. Nursing Education Chester K. Lilly, M.S. Air and Water Judith Kasperek, B.A., M.T. Math and Science Melinda Newell, M.F.A. Commercial Art and Graphic Design Jan Maclaga, B.S.B.A. Electronic Data Processing: Business Tom Marsh, M.A. English and Social Science H*Daniel C. Martin, Jr., A.A.S. Electronic Servicing *Edwin F. Martin, Jr., M.A.Ed. Architectural Drafting Robert May, M.S. Veterans Farm Cooperative Program Dwight D. McGowan, Diploma Automotive Mechanics *Mildred T. McGrath, M.A. .. Electronic Data Processing: Business Jimmy C. McLamb, A.A.S. ... Electronic Data Processing: Business Carolyn E. Means, M.A. Human Services Garrie W. Moore, A.A.S., R.T.-R Radiologic Technology Shirley H. Moore, M.Ed. Business Education William H. Moore, M.Ed., M.S. Agricultural Programs Kenneth D. Morey, M.S. Criminal Justice, Paralegal Marcia Moye, M.A. Math and Science Kathryn W. Pacha, M.A.T. English and Social Science Helen M. Parks, M.S. Electronic Data Processing: Business Thomas W. Parrish, Juris Doctor Criminal Justice, Paralegal *Constance L. Rhem, M.A. Math and Science *Roland A. Smith, B.S. Automotive Mechanics Sylvia Smith, B.S.N. Nursing Education Hugh P. Stanley, M.A., M.A.Ed. Industrial Management Carol Stevens, B.S.N., M.S. Nursing Education Linwood Stroud, B.S. Surveying Frank Sutton, M.B.A., C.P.A. Business Education *Jarvis E. Tripp, Diploma .. Electrical Installation and Maintenance Elaine F. Umphlett, M.A. Business Education Joseph M. Whitehurst, A.B. Electronics Engineering Lynda B. Wilms, M.A. TRIO Barbara B. Wilson, M.A.Ed. Business Education Helena Woodard, M.A. English and Social Science Linwood Wood'ard, M.A. English and Social Science Katherine G. Yopp, M.S.H.E. Teacher Assistant, Early Childhood Associate, Educational Associate

ADJUNCT FACULTY

Robert McMillan	Radiologic Technology
Nancy Phelps	Surgical Technology

*Departmental Chairman.



GENERAL INFORMATION

HISTORY OF THE COLLEGE

In March, 1961, Pitt Community College was chartered and designated by the State Board of Education as an Industrial Education Center. The College began its operation as Pitt Industrial Education Center during the same year. The programs developed and expanded, and in 1964, the school was designated a technical institute by the State Board of Education. The name was changed in July, 1964, to Pitt Technical Institute, and it opened in its new facilities in September, 1964, with nine curricula and 96 students.

In 1970, a second building was completed, providing an additional 31,458 square feet to serve the citizens of Pitt County. The White Building and the Humber Building have approximately 120,000 square feet of usable space with well designed laboratories, shops, and classrooms.

In 1975, an addition was made to the White Building, adding a new student lounge with various recreational facilities. This addition also provided facilities for the Nursing and Electronic Data Processing curricula.

The summer of 1979 brought about two important changes to Pitt Technical Institute. The Whichard Building, a 26,000 square foot classroom/shop facility, was completed on campus. Also, the North Carolina General Assembly enacted a bill that changed Pitt Technical Institute to Pitt Community College. The change brought about the addition of the two-year college transfer programs.

Today, Pitt Community College offers twenty-six technical programs, fourteen vocational programs, three certificate programs, and three college transfer programs.

LOCATION

The College is located on Highway 11, South, between Greenville and Winterville.

STATEMENT OF PURPOSE

The purpose of Pitt Community College is to provide an environment and atmosphere conducive to occupational education designed to fill the manpower need in our society and to provide for the fullest possible development of the potential of students so that they may attain effective citizenship in society.

Toward this end, Pitt Community College is committed

• To provide expanded educational opportunities for young people and adults who desire to continue their education;

- To provide relatively inexpensive, nearby educational opportunities for high school graduates, school dropouts, and adults;
- To provide vocational programs of less than technical level, preparing students for jobs requiring different levels of ability;
- To provide technical programs preparing students for jobs of this level in industry, agriculture, business, and service occupations;
- To provide college transfer programs consisting of the first two years of general college studies;
- To provide programs of technical and vocational education for employed and underemployed adults who need training or retraining or who can otherwise profit from the programs; and
- To provide short courses that will meet the general adult and community service needs of the people.

AREAS OF STUDY AT PITT COMMUNITY COLLEGE

ASSOCIATE IN APPLIED SCIENCE DEGREE (Two-year Programs)

Accounting **Agricultural Business Technology Agricultural Chemicals Technology Agricultural Science** Agricultural Science and Mechanization (Technical Specialty) **Veterans Farm Cooperative Program** Air and Water Technology Architectural Drafting Technology Banking and Finance** **Business Administration Career Option Nursing Education* Commercial Art and Graphic Design** Criminal Justice: Corrections Criminal Justice: Law Enforcement Early Childhood Associate **Educational Associate** Electronic Data Processing: Business **Electronics Engineering Technology Energy Technology General Office Technology** Human Services Technology Industrial Maintenance Technology** Industrial Management Technology** Medical Secretary Paralegal Technology

Radiologic Technology* Secretarial Science

*Satisfactory admissions test results, interview, high school record, and physical examination are some of the requirements for enrollment.

**Evening programs only.

DIPLOMA (One-year Programs)

Air Conditioning, Heating, and Refrigeration Automotive Mechanics (Two-year Option) Carpentry and Cabinetmaking Cosmetology Electrical Installation and Maintenance Electronic Servicing (Two-year Option) Farm Machinery Mechanics Industrial Maintenance: Electromechanical Machinist (Two-year Option) Masonry Practical Nurse Education* Surgical Technology* Teacher Assistant Welding

*Satisfactory admissions test results, interview, high school record, and physical examination are some of the requirements for enroll ment.

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CERTIFICATE

Hospital Ward Clerk (Three-Month Program) Nurse Assistant (Three-Month Program) Surveying (Technical Specialty)

ASSOCIATE IN ARTS DEGREE (Two-year College Transfer Programs)

Pre-Business Administration Pre-Education (Secondary) Pre-Liberal Arts

SPECIAL CREDIT

Students may enroll in available courses from different curricula for possible transfer or self-improvement.



Student Life



ADMISSIONS

Pitt Community College operates under the open-admissions policy established by the North Carolina General Assembly. All technical institutes and community colleges maintain an open-door admissions policy for all applicants who are high school graduates or high school leavers 18 years of age or older. The College has the right to selectively place these applicants.

General Admissions

The basic requirements for curricular programs (Allied Health Admissions excepted) follow:

- 1. The College requires high school graduation or the high school equivalency diploma for all technical, college transfer, and certificate programs. For vocational programs, the College requires students to have at least eight units of high school work.
- 2. Each applicant must submit a completed Application for Admission.
- 3. All students take placement tests with the exception of those making satisfactory scores on the SAT and transfer students who have successfully completed appropriate units in mathematics and English.
- 4. Applicants for Electronics Engineering Technology and Architectural Drafting Technology should have completed one unit of algebra and one unit of geometry.
- 5. Each applicant should make an appointment with an admissions counselor for a personal interview prior to enrollment in the College. The counseling session is designed to acquaint the student with the College and to help the student make a wise choice in program selection.
- 6. All new students are expected to participate in the orientation program.

Allied Health Curricula Admissions

Prior to admission, applicants for Nursing Education, Radiologic Technology, Surgical Technology, Hospital Ward Clerk, and Nurse Assistant must complete the following three stages.

Stage One: Preliminary Interviewing, Transcripts, Testing

- 1. Have an initial interview with an admissions counselor;
- 2. Submit a completed preliminary application form;
- 3. Submit an official copy of high school transcript and official copies of all college transcripts. Transcripts should show one unit of high school chemistry with a grade of "C" or better, or one year of College chemistry with grade of "C" or better. CHM 110 may be taken prior to entry in lieu of this requirement.

- 4. Take the admissions test on the date assigned by the admissions office; and
- 5. Achieve at least the minimum scores on the Comparative Guidance and Placement Test listed as follows:

Test Section	Practical Nurse Education, Surgical Technology	Career option Nursing Education, Radiologic Technology	Hospital Ward Clerk	Nurse Assistant
Letter Groups	35	35	25	20
Reading	39	39	20	20
English Expressions	30	30	20	20
Computation	40	40	20	20
Arithmetic	31	31	20	20
Year 2000	26	36	17	17

EACH APPLICANT WILL BE PERMITTED TO TAKE THE CGP TEST ONLY ONCE A YEAR, AND ONLY TWICE IN A THREE YEAR PERIOD.

TEST SCORES AND TRANSCRIPTS WILL BE CONSIDERED TOGETHER IN DETERMINING APPLICANT'S PRELIMINARY ELIGIBILITY FOR THE ALLIED HEALTH PROGRAMS.

Stage Two: References, Admissions Questionnaire

- When an applicant successfully completes stage one, the admissions office will send reference forms and an admissions questionnaire which must be returned directly to Pitt Community College within ten (10) days of receipt.
- 2. Applicants who are already LPN's must request the North Carolina Board of Nursing submit an official copy of their LPN board scores. Applicants must also submit a copy of their current license to practice nursing in North Carolina.

Stage Three: Final Interview, Acceptance/Rejection Procedure

- 1. When stage two is successfully completed, the applicants will be notified of an interview date and time. Applicants failing to report at the scheduled time for interview will have their names withdrawn from consideration unless they have previously notified the department of their inability to keep the scheduled interview.
- 2. If applicants complete the admissions procedure (including the interview) by the end of February, the applicant will be notified of acceptance or rejection after March 1. Applicants who complete the admissions process after March 1 will be notified as soon as possible of their acceptance or rejection.

- 3. Applicants who are accepted in the Nursing, Surgical and Radiologic Technology programs are required to have a physical examination and a dental checkup.
- 4. Hospital Ward Clerk and Nurse Assistant students are admitted quarterly depending upon needs of Pitt County Memorial Hospital. Hospital Ward Clerk and Nurse Assistant applicants who are accepted are required to have the TB and VDRL tests.
- 5. When classes are filled, the admissions committee will evaluate all additional completed applications and determine their eligibility. Applicants will be notified of their waiting list status, and if vacancies occur, members of the class will be selected from the waiting list.

Transfer Admissions

Pitt Community College will accept students from other post secondary institutions provided applicants

- 1. Submit formal applications, and
- 2. Submit high school transcript and furnish transcript from each post secondary institution attended.

The dean of students may refuse admission to transfer students not in good standing at previously attended post secondary institutions.

Readmission of Curricular Students

Students re-entering after one or more quarters out of school, with the exception of summer quarter, will follow normal admission procedures. Students out of school as a result of disciplinary action must appear before the dean of students and petition for readmission to the College.

Provisional Admissions

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A student applying too late to complete pre-entrance requirements may be admitted as a provisional student. In such cases, all requirements should be completed within the first quarter of attendance, including mailing of official transcripts (high school and post secondary) directly to the registrar's office.

High School Admissions (Dual Enrollment)

The College admits selected high school students to appropriate courses as space permits under the following conditions:

1. The student is 16 years old or older;

- 2. Admission is approved by the Board of Trustees of the College and the appropriate local board of education upon recommendation by the College President and the applicable school unit superintendent; and
- 3. The student is taking at least three courses at the high school and is making appropriate progress toward graduation as determined by the school principal.

Individual student programs are jointly approved by the principal of the secondary school and the admissions office of the College.

High school students will pay regular tuition and fees and shall be treated as all other students.

International Student Admissions

Pitt Community College has been approved by the U. S. Immigration and Naturalization Service to enroll international students from three categories: permanent residents with the Alien Registration ("green card"), refugees, or student visa holders ("F-1" Student Visa). International students present in the United States on a student visa ("F-1") are considered non-residents for the purpose of tuition payments. Length of stay, payment of taxes, or ownership of property, in themselves, do not qualify international students for the status of legal residence or domicile. For further information concerning international students' admissions, contact the office of the dean of students.

TUITION, FEES AND OTHER EXPENSES

Financial support from local, state, and federal sources allows each student an educational opportunity at minimum cost. Tuition is set by the North Carolina State Board of Community Colleges and is subject to change without notice. Textbooks, fees, 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.

Tuition

Full-Time Students

All North Carolina residents enrolled for twelve (12) or more curricular credit hours are charged a maximum tuition of \$39.00 per quarter.

Part-Time Students

The tuition charge for curricular credit students and audit students is \$3.25 times the number of credit hours for which the student is enrolled. Example: 9 credit hours x \$3.25 equals \$29.25.

Senior Citizens

North Carolina residents 65 years of age and older shall be exempted from the payment of curricular tuition and extension registration fees.

Audit Students

Audit students must pay the same tuition rates as other students.

Out-of-State Students

The entrance requirements and admission procedures for persons who reside outside North Carolina are the same as for residents. Tuition for nonresidents is \$198.00 per quarter for full-time enrollment. For part-time students, the fee is \$16.50 per credit hour.

Residence Classification for Tuition Purposes

Under North Carolina law, a person may qualify as a resident for tuition purposes in North Carolina, thereby being eligible for a tuition rate lower than that for nonresidents. Copies of the applicable law and of implementing regulations are available for inspection in the office of the dean of students and also in the Learning Resources Center where they may be examined upon request.

28 FEES AND OTHER EXPENSES

Student Activity Fee (Day Students Only)

The student activity fee for each full-time student (12 credit hours or more) is \$6.00 per quarter. Those students registered for nine through eleven credit hours are charged \$4.00 per quarter. Students registered for six through eight credit hours are charged \$2.00 per quarter and students registered for less than six credit hours are charged \$1.00 per quarter.

Accident Insurance Fee

Accident insurance, covering hours in school and transportation to and from school, is available for \$9.00 per year. This insurance is strongly recommended, though not required. Students must submit claims for injury covered under the accident insurance provisions immediately, but in no instance later than 30 days, in order to expect coverage.

The premium for accident insurance is subject to change annually.

Parking Fee

There is a \$4.00 annual charge for parking permits for day students who enroll in fall quarter. Charges for students beginning in a later quarter are prorated.

Textbooks and Supplies

The cost of textbooks and supplies varies according to the program of study. These items may be purchased from the bookstore.

Lab Fees for EDP Courses

Lab fees are charged for classes which require special equipment or supplies. These fees are indicated in course listings in the catalog. See course descriptions for actual fee per course.

REFUND POLICY

The College will refund tuition if the student is, in the judgment of the dean of students, compelled to withdraw for unavoidable reasons. In such cases, two-thirds of the student's tuition may be refunded if the student withdraws within ten calendar days after the first day of classes as published in the school calendar. Tuition refunds will not be considered for tuitions of \$5.00 or less, unless a course or curriculum fails to materialize due to no fault of the student.

Activity and insurance fees are nonrefundable.

Students desiring a tuition refund are asked to follow the steps listed below:

- 1. Contact the registrar's office for approval to officially withdraw from classes (see Official Withdrawal) and obtain the appropriate withdrawal form,
- 2. Complete the withdrawal form,
- 3. Contact the dean of students for approval and a written request to receive a tuition refund, and
- 4. Submit the completed withdrawal form and the written request for tuition refund to the cashier.

Students prepaying may receive a full refund of tuition and fees if the official withdrawal is completed by 3:00 p.m. of the day before registration of the quarter involved.

ACADEMIC REGULATIONS

REGISTRATION

The College year consists of four quarters. Students who are pursuing a curriculum must preregister or register at the beginning of each quarter as they progress toward their educational objectives. Returning students must make satisfactory settlement with the College office for all indebtedness and not be on academic probation before preregistering or registering. All students will register during the prescribed registration period for that quarter (refer to College calendar).

Preregistration and Prepayment

Preregistration and prepayment are held the eighth week of each quarter at a time when students and advisors can review students' academic progress and plan courses for the coming quarter.

This opportunity is an important part of each student's program. Students and their advisors have an opportunity to discuss academic problems on an individual basis and keep abreast of progress.

Only those students currently enrolled and not on academic probation are allowed the privilege of preregistering and prepaying.

Those students failing to preregister at the designated time must complete registration on registration day.

Late Registration (Second day of classes through drop/add)

A student may register for class(es) provided:

- 1. The class is not cancelled or closed;
- The student convinces the advisor and the dean of students that it was impossible or would have involved extreme hardship to register at the appointed time; and
- 3. The student pays a late registration fee of \$5.00.

Auditing Courses

Students who wish to audit courses must register for such courses. Auditors receive no credit but are expected to adhere to the same attendance policy as credit students. Participation in class discussion and examinations is at the option of the student. Fees for auditors are the same as for regular students. In the event of limited classroom space, first priority will be given to regular credit students. The word "audit" will be written on the registration form by the student during registration clearly indicating the class(es) to be audited. AN AUDIT CANNOT BE CHANGED TO CREDIT NOR CREDIT TO AUDIT AFTER THE DEADLINE FOR ADDING COURSES.

FINANCIAL AID RECIPIENTS WILL NOT RECEIVE PAY FOR AUDIT-ING A COURSE.

DROPPING AND / OR ADDING COURSES

In some instances it is necessary for students to make adjustments in their schedules. To insure that the student receives proper credit, a Drop-Add Form should be completed and returned to the registrar's office. The College calendar (published in the Student Handbook and the General Catalog) indicates the last day to drop or add courses. This date is subject to change with proper notification.

NO COURSE IS OFFICIALLY DROPPED OR ADDED UNTIL THE REQUIRED PROCEDURE IS COMPLETED.

The procedure to be followed is:

- 1. Obtain drop-add form from the registrar's office,
- 2. Have instructor(s) involved initial the form,
- 3. Have advisor sign the form,
- 4. Have registrar sign the form, and
- 5. Have the form validated by the cashier.
- PLEASE NOTE: If a class for which a student is enrolled is cancelled by the College, it is the student's responsibility to withdraw from the class as outlined above.

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WITHDRAWAL FROM CLASSES

Official Withdrawal

During the first twenty class days of a quarter, a student may withdraw from courses without penalty. (See College calendar for applicable date each quarter.) After the fourth week, official withdrawals from one or more courses or from the College are permissible when circumstances beyond control of the students prevent them from completing courses EXCEPT THAT NO OFFICIAL WITHDRAWALS WILL BE PERMITTED DURING THE LAST TEN (10) CLASS DAYS OF ANY QUARTER. Official withdrawals do not count as hours attempted. Official withdrawals after the first twenty days and prior to the last ten days of a quarter may be secured for the following reasons:

• Verification of personal illness,

- Illness or death in immediate family,
- Change in employment status, and
- Relocation to another area.

An official withdrawal may be allowed at the discretion of the dean of students for reasons other than the previous reasons, if in his judgment such a withdrawal is warranted.

Students qualifying for an official withdrawal must use the following procedures:

- 1. Present verification that the student qualifies for official withdrawal status to the registrar to obtain a withdrawal form,
- 2. Have advisor sign the form,
- 3. Have instructor(s) sign the form,
- 4. Have registrar sign the form, and
- 5. Have the form validated by the cashier.

Students who officially withdraw from courses before the end of the quarter will receive no grades for those courses. Only the course(s) for which they registered and the date of the official withdrawal will appear on the transcript. For more information, see the courselors or the registrar.

Unofficial Withdrawal

An unofficial withdrawal from one or more classes is given to students who leave school or stop attending classes without qualifying for or following procedures for official withdrawal status. This includes students dropped for excessive absences (see Attendance) and not reinstated and those never attending classes after registration. Unofficial withdrawals count as hours attempted with quality points of "0" in determining the grade point average. Students who leave school without officially withdrawing will lower their GPA and jeopardize future readmission to the College. For more information see the counselors or the registrar.

VETERANS NOTE: Any course for which an unofficial withdrawal or an "I" (Incomplete) is received may not be retaken for pay purposes under Title 38, U.S. Code as amended by Public Law 93-508.

CREDIT BY EXAMINATION

A student who evidences prior proficiency for a course due to previous work or educational experience may apply for credit by examination provided the student is currently enrolled in the College. Application for approval to take the examination must be made through the academic advisor and approved by the department chairman, using the Permit for Credit by Examination form. If approved, the chairman will make arrangements for the student to take an appropriate test administered by a department instructor.

Exams will be scheduled at the discretion of the department chairman. No student may be permitted to take an exam without presenting the course instructor the properly executed Permit for Credit by Examination.

ALL EXAMINATIONS MUST BE COMPLETED DURING THE FIRST 8 WEEKS OF EACH QUARTER. A STUDENT MAY NOT TAKE AN EXAM-INATION FOR ADVANCED PLACEMENT MORE THAN ONCE FOR ANY ONE COURSE. A minimum grade of "D" will be accepted.

Students applying for credit by examination must use the following procedure:

- 1. Contact the advisor and the department chairman to obtain the Permit for Credit by Examination,
- 2. Have registrar's office sign the permit,
- 3. Pay additional non-refundable tuition, if applicable, and
- 4. Present Permit to instructor who will administer the test.

The instructor administers and reports the results of the examination to the registrar's office within one week of the date of approval of the Permit by that office. Credit hours will count toward graduation; these will be computed in grade point average as grades and quality points will be recorded.

CHALLENGE EXAMINATION

Students enrolled in a course may feel they have become proficient in course subject matter before the scheduled time for completion of the course. In that event, if they can demonstrate prior knowledge of subject matter based on work or educational experience, they may, with the instructor's approval, "challenge" the course by taking the challenge examination during the first eight weeks of the quarter.

THIS DOES NOT APPLY TO AUDIT STUDENTS (See Audit).

TRANSFER CREDIT

Curricular students are responsible for requesting transcripts from all previously attended institutions.

Transcripts for all students enrolled in a curricular program will be evaluated automatically.

Students transferring to Pitt Community College may transfer all courses with comparable course content so long as the GPA of all courses being transferred does not fall below a 2.0.

A maximum of sixty (60) credit hours may be transferred from institutions outside the North Carolina Community College System toward completing an associate degree or diploma program. Transfer students must complete a minimum of twelve (12) quarter hours of major course work (departmental prefix designation) at Pitt Community College.

Pitt Community College awards credit for appropriate scores on various exams of the College-Level Examination Program (CLEP). The chairman of the department in which the courses will be taught determines credit to be awarded.

College transfer or technical credit for work experience cannot be allowed except through the organized and supervised cooperative education program. Academic credit is not allowed for previous work experience outside of the supervision of the College; however, a student may challenge relevant courses by examination.

Work at institutions which are not regionally accredited is evaluated on the basis of the current issue of *Report of Credits Given by Educational Institutions* published by the AACRAO or similar publications. Credit toward technical and vocational programs may be accepted from other agencies at the discretion of the appropriate department chairman.

GRADE POINT AVERAGE (GPA)

The grade point average is determined by dividing the total number of quality points by the total number of credit hours of work attempted.

DEAN'S LIST AND HONOR ROLL

All full-time technical, vocational, and college transfer students maintaining a quarterly grade point average between 3.50 and 4.00 will be recognized on the Dean's List. Those maintaining a quarterly grade point average between 3.00 and 3.49 will be recognized on the Honor Roll.

The Dean's List and Honor Roll are prepared by the registrar's office and mailed to all local or area newspapers of the students who qualify for either.

A student with an "Incomplete" grade is not eligible for the Dean's List or Honor Roll in the quarter the "Incomplete" is received.
GRADING SYSTEM

The following grading system is used by Pitt Community College:

Letter	Numerical Equivalent	Quality Points Per Quarter Hour
А	93-100	4
В	85-92	3
С	77-84	2
D	70-76	1
F	Below 70-Failing	0
W	Unofficially Withdrew	0
Х	Never Attended	0
*1	Incomplete	0
*Aud	Audit	0

*Not included in computing grade point average.

INCOMPLETE

An "Incomplete" is given at the discretion of the instructor when a student demonstrates progress in a course but needs more than one quarter to complete the requirements of the course. To qualify for a grade of "I", a student must be enrolled in a course the last ten days of the quarter. No grades or quality points are awarded because of incomplete work.

The student and instructor (or if unavailable, the department chairman) must fill out a "Requirements to Remove Incomplete" form indicating what the student must do to earn a final grade. This should be signed by both instructor and student with a copy to student's advisor.

REMOVAL OF INCOMPLETE

An "I" must be removed during the next quarter immediately following receipt of the "I". The instructor has two options for requiring the student to remove the "I":

- 1. Re-enroll in the class or
- 2. Complete the work during the first eight weeks.

A student may be granted an extension of time under the following provisions:

- 1. A student must request the extension from the instructor.
- 2. A student may be given an extension of up to 12 months to remove an "I".

Extensions must be approved by the department chairman and submitted to the registrar's office prior to the deadline for removal.

If the student fails to take action as and when prescribed, a grade of "F" will be automatically computed in the student's cumulative grade point average. After that date, no change in grade will be made because of this failure.

A student receiving an "1" in a prerequisite course may not proceed to the sequential course without permission of the instructor or, if absent, the department chairman. No student can graduate with an "1" on his records if the course is required in his curriculum for graduation.

FINANCIAL AID RECIPIENTS WILL NOT RECEIVE PAY FOR REPEAT-ING A COURSE TO REMOVE AN INCOMPLETE.

ACADEMIC PROBATON AND SUSPENSION

The policy governing academic progress at Pitt Community College is intended to assist the student in successfully completing a chosen program of study within a given period of time. A cumulative or overall grade point average of 2.00 is required for graduation in all curricular programs.

Academic Probation: A student is on academic probation when the cumulative grade point average falls below the academic probation level according to the standards of academic progress. Students will have one quarter on academic probation to earn the required grade point average.

Academic Suspension: A student may receive academic suspension if unsatisfactory progress is shown after one quarter on academic probation. The dean of students may require the student to register as a special credit student with limited credit hours or to withdraw from the College.

Unsatisfactory Academic Progress: A student who remains on academic probation for the second consecutive quarter is considered making unsatisfactory progress during that quarter.

Satisfactory Academic Progress: A student is considered making satisfactory academic progress until placed on academic probation for the second consecutive quarter; then the student is considered making unsatisfactory academic progress as of the beginning of that quarter. Federal regulations require that a student receiving federal financial aid of any kind be making satisfactory academic progress. Special provisions may be made for students enrolled in TRIO and students receiving incompletes in developmental courses.

Good Academic Standing: A student who is not on academic probation or suspension is considered in good academic standing.

Standards of Academic Progress Scale

The following scales establish standards of academic progress to ensure that the student will attain a cumulative grade point average of 2.00 required for graduation.

Scale for Diploma and Certificate Programs			
Hours Toward Degree	GPA		
0-15	1.00		
16-30	1.35		
31-40	1.75		
41-	2.00		
Scale for Associate Degr	ee Programs		
Hours Toward Degree	GPA		
0-15	1.00		
16-30	1.25		
31-45	1.50		
46-60	1.75		
61-75	1.90		
76-	2.00		

This policy does not apply to students classified as Special (those students not working toward a degree or diploma). When a student enrolls in a regular curriculum, all credit hours previously attempted will be computed in the grade point average.

TRANSCRIPTS

Student transcripts are available under the provisions of The Family Educational Rights and Privacy Act of 1974 (P.L. 93-380). Under this Act, written consent from the student is required before the student records can be released to anyone. Additional information may be obtained from the registrar's office.

The first two transcripts are free; subsequent transcripts will cost \$1.00 each.

TRANSFER TO OTHER INSTITUTIONS

Students planning to transfer to four-year colleges or universities are responsible for becoming acquainted with that institution's departmental requirements in the intended major and being guided by those requirements in selecting curriculum and electives. The College maintains a file of catalogs of many other colleges and universities in the counselors' office. The counselors and the faculty advisors will assist students in selecting an appropriate institution and interpreting its requirements.

COURSE LOAD

Full-time curricular students must take a minimum of 12 credit hours. Normally students take 15 to 18 hours. In addition to 12 credit hours, vocational students must take a minimum of 22 contact hours to be classified full-time. Students registering for more than 20 credit hours must have a cumulative grade point average of 2.0 or above or permission of the department chairman.

Students who are employed more than 15 hours per week should reduce their class load accordingly. Beginning students who have full-time employment are urged to limit class loads to 9 to 12 credit hours until they have demonstrated ability to carry a heavier schedule.

ATTENDANCE

Regular and punctual class attendance is expected of all students in order for them to achieve their highest potential in the curriculum they have chosen and to develop desirable personal traits necessary to obtain employment after graduation. Students who anticipate absence should contact their instructors prior to the absence if possible. It is the students' responsibility to make up work missed as soon as possible if the instructors' course guidelines permit.

Instructors will drop students from class rolls (see Unofficial Withdrawal) for the following reasons:

- Students will be dropped from class rolls when their absences from the class begin to affect the quality of their class work and their class grades as determined by the class instructor.
- Any student absent five consecutive class meetings will be dropped from the class roll.
- For evening students, any student absent two consecutive class meetings must secure permission from the director of evening programs or the dean of students to continue in the class.

Students who have been dropped and have a valid reason for the absences may be reinstated at the discretion of the instructor. Should the instructor deny reinstatement, the student has recourse to appeal to the dean of students.

CLASS SCHEDULE

Pitt Community College offers classes between the hours of 8:00 A.M. and 10:00 P.M. five days per week, except on Friday when all classes end at 6:00 P.M. The majority of the credit courses are offered between the hours of 8:00 A.M. and 6:00 P.M. When demand justifies, at least one section of each curricular course is offered during the evening hours.

Non-credit courses for personal, occupational, and community improvement are offered during both day and evening hours.

With careful planning a person can complete most of the work required for a degree or diploma in certain programs by attending evening classes.

CHANGES IN REGULATIONS

Pitt Community College reserves the right to make changes in the regulations, courses, fees, and other matters of policy and procedure as deemed necessary.

CHANGE IN MAJOR COURSE OF STUDY

Students desiring to change major course of study must receive counseling. A request for change of curriculum is initiated with a student counselor, signed by both previous and new advisors, and returned to the registrar's office. No registration schedule should be completed by an advisor until this is done.

STUDENT CLASSIFICATIONS

Freshman	A student who has earned fewer than 54 quarter hours of credit.
Sophomore	A student who has earned 54 or more quarter hours of credit.
Full-time Technical or	
College Transfer Student	A student who is registered for twelve or more quarter hours of credit.
Part-time Student	A student who is registered for eleven quarter hours of credit or fewer.
Special Student	A full-time or part-time student not seeking a degree or diploma.
Full-time Vocational Student	A student who is registered for twelve or more credit hours and at least 22 contact hours.

GRADUATION REQUIREMENTS

Upon recommendation of the faculty and the approval of the Board of Trustees, appropriate degrees, diplomas, or certificates will be awarded to students successfully completing the requirements of the curricula in which they were enrolled.

All students must

- 1. Complete required and elective courses as prescribed in the catalog of record of the candidate for graduation,
- 2. Earn a minimum of 2.0 grade point average ("C" average),
- 3. Clear all financial obligations to the College,
- 4. Complete a minimum of 12 quarter hours of major course work (departmental prefix designation) at the College (See Transfer Policy), and
- 5. Apply for graduation.

Students should meet with their advisors and complete their graduation checklists during preregistration for the candidates' last quarter of attendance. When the checklists have been completed and signed by both students and advisors, the advisors will present them to the registrar. After a complete check, the registrar will notify the dean of students of candidates' eligibility for graduation. Those students determined ineligible will be notified by their advisors.

Graduation exercises are held in late May and August. Presence at graduation is required except when permission for graduation in absentia has been granted by the dean of students. Requests for such permission must be made in writing 30 days prior to graduation.

Students pay for their caps and gowns. The Student Government Association provides degrees, diplomas, and certificates. A reception for graduates and their guests is held immediately following graduation exercises.

CATALOG OF RECORD

Students in continuous attendance (summer quarter excepted) may graduate under the provisions of the catalog in effect on their dates of entry, or they have the option of choosing the requirements of a subsequently revised issue. Students not in continuous attendance must graduate under the provisions of the catalog in effect on their last reentry dates or subsequent issues.

REPETITION OF COURSE WORK

Students may repeat any course, but each attempt will be recorded and counted in determining the students' grade point averages. No course may be counted more than once in calculating the total number of quarter hours credit toward graduation. When students receive "Fs" in courses not offered during the remainder of those students' residence, equivalent courses may be substituted for purposes of meeting program requirements upon recommendation of the appropriate department chairman and the assistant dean of instruction for curricular programs.

Veterans should be aware that they cannot receive VA benefits for repeating courses passed.

FINANCIAL AID

Pitt Community College provides limited assistance to students who are in need of financial aid to meet their educational expenses. All inquiries concerning financial aid should be addressed to the Financial Aid Officer, Pitt Community College, Post Office Drawer 7007, Greenville, North Carolina 27834. Applications for financial aid should be submitted **six weeks** before the quarter begins. Applications received later will be processed on first-come, first-served basis as funds and time permit.

Students should apply for financial aid by submitting a Financial Aid Form (FAF) to the College Scholarship Service. The FAF may also be used to apply for the Pell Grant and for the North Carolina Student Incentive Grant. Students should specify 5556 as the code number for Pitt Community College in the appropriate section of the FAF.

A letter from the financial aid officer explaining the award decision and detailing information about any aid offered will be sent to each student.

To receive financial aid, a student must maintain satisfactory academic progress according to the standards of the College and not owe a refund on a grant or be in default on a loan. A student must be enrolled in an eligible program and carrying at least six credit hours.

GRANTS

Pell Grant (formerly Basic Educational Opportunity Grant)

The purpose of the Pell Grant, a federal aid program, is to provide financial assistance to those who need it to attend post-secondary educational institutions. Students may contact the financial aid officer concerning eligibility.

Supplemental Educational Opportunity Grant (SEOG)

The purpose of the SEOG program is to make post-high school education available to high school graduates of exceptional financial need who, without the grants, would be unable to continue their education.

Any student in extreme financial need who has been accepted for admission or who is already enrolled and is in good standing as a full-time student may be eligible for SEOG.

The institution is responsible for selecting eligible students and handling the daily operation of the program.

North Carolina Student Incentive Grant

Legal residents of North Carolina accepted for enrollment or enrolled full time in good standing may apply for Student Incentive Grants to help pay their educational expenses. Students must demonstrate "substantial financial need" as determined through the need analysis system of the College Scholarship Service. The amount of each grant will be based on the individual student's demonstrated financial need in relation to resources and cost of education but may not exceed \$1,500 per academic year.

Application forms may be obtained from the financial aid office or directly from College Foundation. After the student completes the application, the College financial aid officer must certify it and forward it to College Foundation. Requests are processed according to the date the properly completed application forms and need analysis reports are received. Applications received after March 15 will be processed if funds are available.

Please note that all students applying for North Carolina Incentive Grants must first apply for the Pell Grant. Both Incentive Grant and Pell Grant applications are available from financial aid offices at eligible North Carolina post-secondary educational institutions.

LOANS

Guaranteed Student Loan

Through the College Foundation, Incorporated, a North Carolina resident approved for admission may borrow up to \$2,500 per year as provided by the Higher Education Act of 1965, Section IV-B. The financial aid officer gives institutional approval and awards the loan through the College accounting office. Application must be made prior to July 1 of the school year.

Repayment of the Guaranteed Student Loan shall begin on the first of the tenth month after the student ceases to be a full-time student. The repayment period may not exceed 10 years. The borrower may accelerate repayment without penalty.

Out-of-state students should contact their family banks or state higher education assistance agencies concerning state-administered guaranteed student loan programs.

Doris Hall Phelps Memorial Loan Fund

Eligible students may borrow money to pay tuition charges only. There will be a 5% interest charge assessed on any money loaned. These loans are for short terms not to exceed two quarters. A cosigner will be required before any of these funds can be loaned.

This fund was established in memory of Mrs. Doris Hall Phelps, who for several years was a loyal and devoted employee of Pitt Community College in the Learning Resources Center.

Educational Loan for Medical and Related Studies

Licensed practical nurses accepted for enrollment and other students who have successfully completed their first academic year of the associate degree nursing program may apply to the following address for an Educational Loan:

N. C. Dept. of Human Resources Student Loan Branch P. O. Box 12200 Raleigh, NC 27605 (919) 733-2164

The applicant must be a North Carolina resident. The maximum amount of loan each year is \$1,500 and is secured by a promissory note endorsed by the applicant's parents or by two other sureties approvable to the N. C. Medical Care Commission. The loan recipient agrees, upon completion of the required training, to practice as a registered nurse in approved shortage areas in North Carolina a full year for each \$1,500 loan.

Burroughs-Wellcome Loan

Pitt Community College administers a loan fund which is supported by the Burroughs-Wellcome Company. Eligible students may secure short-term loans at no interest. Money obtained through this loan fund must be used for direct educational expenses which are limited to the costs of tuition, insurance fees, supplies, and books. These loans must be repaid before the end of the current quarter. All loans must be secured by a promissory note with the signature of the borrower and the signature of one other person as surety.

SCHOLARSHIPS

Prepshirt Scholarships

Two scholarships of \$200 each are granted to qualified students. These scholarships are provided by Prepshirt, Incorporated, a Greenville industry.

Finch Vocational Education Scholarship

This scholarship is furnished by Mr. and Mrs. Willard Finch in the amount of \$100 per year to cover the cost of tuition only. This scholarship is renewable for the second year if the recipeint has successfully passed the first year's work.

Wachovia Technical Scholarship

Wachovia Bank and Trust Company has made available to students enrolled in technical programs at Pitt Community College two scholarships annually in the amount of \$500.00 each to second year technical students. The scholarships will be awarded based on need and the student's performance in the first year of a two-year technical program.

Weyerhaeuser Foundation Vocational/Technical Scholarship

The Weyerhaeuser Company has made available to students enrolled in an industrial related field of study at Pitt Community College two scholarships annually in the amount of \$900.00 each to either technical or vocational students. The scholarships will be awarded based on academic achievement, need, performance, and participation in outside activities coupled with a proven interest toward an industrial career.

Farm Machinery Mechanics Scholarship

The Farm Equipment Dealers of Pitt County and eastern North Carolina have made available to students enrolled in Farm Machinery Mechanics at Pitt Community College scholarships in the amount of \$200.00 each. The number of scholarship awards made annually is determined by the amount of scholarship funds available. Recipients are selected based on need, academic achievement, performance, and a proven interest toward pursuit of farm machinery mechanics as a career.

Tar Heel Chapter — RSES Scholarship for Air Conditioning, Heating and Refrigeration Students

The Tar Heel Chapter of RSES (Refrigeration Servicing Engineering Society) has made available to students enrolled in the Air Condition-

ing, Heating and Refrigeration curriculum at Pitt Community College one scholarship annually in the amount of \$200.00 to a second quarter student in this four-quarter program. The scholarship will be awarded based on academic performance, need, and proven interest in the air conditioning, heating and refrigeration field. Recipients are expected to become members of the Tar Heel Chapter. (Membership fees will be paid by the chapter.)

Other Institutional Scholarships

The following scholarship endowment funds are being established at Pitt Community College in memory of the individuals indicated.

George S. McRorie Arlene Collins C. W. Sawyer

As these funds are endowed, the available monies will be utilized to recognize achievement and assist needy students.

Various civic and community groups award scholarships periodically to Pitt Community College for particular purpose and utilization to assist students in their pursuit of a chosen field of study.

Additional information regarding the above scholarships is available in the dean of students office.

College Work-Study, Vocational Work-Study Programs of Employment

Students, particularly those from the low-income families, who need a job to help pay for school expenses are potentially eligible for employment by Pitt Community College under federally supported work-study programs.

Students may work up to 15 hours per week while attending classes full-time.

To work under these programs, students must be enrolled and be in good standing, or be accepted for enrollment as a full-time student. The student's eligibility depends upon need for employment to defray school expenses, with preference given to applicants from low-income families. Payment for work performed is made on the basis of a time sheet certified by the signature of the person supervising the student's work.

Comprehensive Employment Training Act (CETA)

This program is offered in cooperation with the N. C. Employment Security Commission and is available to students who qualify. Students should file an application for admission to Pitt Community College and then visit the Employment Security Commission nearest the applicant.

Migrant and Seasonal Farmworkers Association

For information concerning this program, write or contact Migrant and Seasonal Farmworkers Association, Inc., District I Office, P. O. Box 970, Bethel, N. C. 27812.

Vocational Rehabilitation

Any physically handicapped student may be eligible for scholarship assistance under the provision of Public Law 565. Applications for this scholarship aid should be processed through the district vocational rehabilitation office nearest the applicant. Inquiries may be directed to any rehabilitation office.

Local Sources of Financial Aid

Students are encouraged to keep in touch with their respective high school guidance counselors in order that they may be aware of the various kinds of scholarships granted by hometown civic clubs, church groups, or other non-profit associations or foundations.

Various fund regulations require that an individual application be completed for that specific fund. More detailed information relating to specific programs is available in the financial aid office.

Veterans Benefits

The Veterans Benefits Laws provide financial assistance to any veteran enrolled in an approved curriculum and eligible for benefits. To be eligible, the veteran student must be enrolled in an approved curriculum and taking (for pay) only those classes required for graduation in the chosen curriculum. Veteran students must maintain satisfactory attendance, conduct, and academic progress, according to the school standards, for continuing eligibility for payment.

V. A. payments for veterans in a technical or college transfer program are based on credit hours per quarter as indicated below:

12 or more credit hours	full time
9-11 credit hours	three quarter time
6-8 credit hours	half time
Below 6 credit hours	no pay

V. A. payments for veterans in a vocational program are based on a combination of credit hours per quarter and contact (clock hours in school) hours per week as follows:

12 credit and 22 contact hoursfull time9-11 credit and 16-21 contact hoursthree quarter time6-8 credit and 11-15 contact hourshalf timeBelow 6 credit and 11 contact hoursno pay

Dependents of Veterans

The veterans administration offers up to 45 months of educational benefits for qualified dependents of certain disabled or deceased veterans. An allowance of up to \$342.00 per month is made to students under the program.

For further information on V.A. benefits, the student should contact the College veterans affairs office, the N. C. Division of Veterans Affairs, or the V.A. Regional Office at Winston-Salem.

Social Security

Unmarried dependents of retired, disabled or deceased workers who register for and maintain a minimum of 12 credit hours per quarter may be eligible for continuation of social security benefits subject to the following requirements:

- 1. If over 18 years old, student must have been entitled to benefits for August 1981, and
- 2. Student must be enrolled full time in a post-secondary school before May 1, 1982.

Students not meeting these requirements will be paid through July 1982 only.

Students meeting the above requirements will not receive any further cost of living increases nor will they receive pay for the months of May, June, July and August beginning in May 1982.

Beginning August 1982 the student benefits will be reduced 25% from August 1981 entitlement. Each August thereafter, benefits will be reduced another 25% until August 1985, when the program will be discontinued.

For further information contact the College financial aid office or the Social Security Commission in Greenville.

THE FACULTY ADVISOR SYSTEM

The faculty advisor system is designed to make a contribution to the students' educational progress. Students who have declared curriculums are assigned a faculty advisor. Students may know their advisors not only as instructors, but also as one to whom they may go and receive assistance in program planning, scheduling, and registration.

The objectives of the faculty advisors are as follows:

- To have a conference with each new advisee as soon as possible to get acquainted.
- To be alert to student problems in order to assist the student in both academic and personal matters. (Problems which the advisor feels unqualified to handle should be referred to the counselors office.)
- To assist the individual student in planning an academic schedule to meet course prerequisites and curriculum requirements.
- To maintain an academic progress file on each advisee. (This file should include grade reports, a graduation checklist, and an information sheet.)
- To post office hours, showing when available for consultation with students.
- To serve, upon request of the student, as the student's representative in conferences where decisions affecting status are made.

STUDENT SERVICES

Counseling Services

Counseling services are provided by trained personnel and are available to every curriculum student from pre-admission through graduation. There is no charge for these services.

Students may come to the counselors office any time a problem arises which could affect progress in school. The counselor will try to have at least one conference per year with each student. A counselor is on duty on Monday and Thursday nights until 8:30 P.M.

Tests are administered by the counselors on a group or individual basis for admission, placement, career development, and personal problem solving (interest inventories or personal interviews). Test results are available and are interpreted by the counselors at the request of faculty members or students.

Placement Services

The placement office provides information to students and alumni about career opportunities and helps them in preparing for, and eventually acquiring positions in their fields of interest. Information about job opportunities in business, government, industry, and service occupation is available.

To receive placement assistance, students must register and complete an interview with the placement officer. This office coordinates on-campus interviews, schedules off-campus interviews, makes employer visitations, conducts career development workshops, and maintains career opportunities information and employer information files.

Health Services

Pitt Community College maintains no health facilities other than first aid supplies, which are located in the office of the dean of students and in the laboratories and shops. The responsibility for medical services rests with students and their parents or guardians. Emergency facilities are available at Pitt Memorial Hospital. Entering students are required to answer the health questionnaire on the application for admittance form. Student accident insurance is available at a cost of \$9.00 per year.

Food Service

The College has a hot food service operated in the student lounge. Hot sandwiches, other short-order items, and fountain drinks are available in the student lounge. Also, vending machines for soft drinks, cigarettes, and sundries are located in each building.

Housing

The College does not provide housing facilities for students either on or off campus. It does, however, maintain a list of housing available in the Greenville area. In addition, the services of the director of housing at East Carolina University are available on a space-available basis to students. There is no other involvement on the part of the College. Students are responsible for obtaining their own housing.

Student Government Association

Pitt Community College has a Student Government Association. Each curriculum has one representative and one alternate in the Association. Officers are elected from this body annually. Activities supported by the SGA include the Pitt Community College athletic teams, field days, dances, cookouts, community projects, and intramural sports.

Identification Cards

All day students must secure an ID card from the counselors office during the second or third week of each quarter. This card will admit students to social, cultural, and educational events that are sponsored by the College.

Gamma Beta Phi

Gamma Beta Phi is an honor society chartered in 1975. Membership is based upon a GPA of 3.0. Gamma Beta Phi comes under the supervision of the SGA.

Student Publications

Pitt Community College publishes the following:

- College Catalog
- Student Handbook
- Program Brochures
- New Student Information Sheet
- Co-Op Newsletter
- PCC Newsclips

Guided Tours

Many groups visit Pitt Community College during the year for the purpose of inspecting the facilities and opportunities available in vocational, technical, and college transfer education.

Groups are assembled in the lobby where they are greeted by the dean of students. Larger groups are divided into smaller groups and taken on a guided tour of the College. All programs are explained to the groups as the tour progresses. In addition to seeing classes and shops, the groups are also taken to the Learning Resources Center and the Learning Center.

Class Rings

All orders for class rings will be made with the dean of students. Notices will be posted relevant to dates for measurements. Students are urged to be prompt when making these orders.

TRAFFIC REGULATIONS

All automobiles operated on the campus by day students and College personnel must be registered with the chief of security. Parking permits are issued for each registered vehicle and must be displayed on the rear bumper, left side. The operators of automobiles on the campus are subject to specific parking and traffic regulations. The College reserves the right to withdraw the privilege of operating an automobile on the campus for failure to abide by the regulations.

INCLEMENT WEATHER

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

FIRE DRILLS

Fire drills will be held once a quarter. The fire alarm consists of a pulsating, repeated sounding of a bull horn. Personnel will exit at the outside door closest to where they are at the time the alarm is sounded and proceed in an orderly manner to a safe distance from the building. The all clear signal is a long sounding of the bell system.

STUDENT RIGHTS AND RESPONSIBILITIES

Students are responsible for the proper completion of their academic program, for familiarity with all requirements of the curriculum from which they intend to graduate, for maintaining the grade average required and at all times knowing their academic standing, and for meeting all other degree requirements. Their advisors will counsel them, but the final responsibility remains that of the student.

Students are required to have knowledge of and observe all regulations pertaining to campus life and student behavior. They are responsible for maintaining communications with Pitt Community College by keeping on file with the registrar's office at all times their current address and telephone number.

Copies of the Rights and Freedoms of Students can be obtained from the office of the dean of students.

DISCIPLINARY ACTION

Student Conduct

It is expected that at all times the student will conduct himself as a responsible adult. Destruction of school property, stealing, cheating, gambling, use of profane language, engaging in personal combat, possession of dangerous weapons, or the possession and/or use of alcoholic beverages and/or the possession and/or use of any drug as defined under the North Carolina Controlled Substance Act, G. S. 90-89 through G. S. 90-94 in or on any part of the Pitt Community College campus will not be tolerated. Any violation of these regulations will result in expulsion from the College. In addition, any infraction which is a violation of N. C. law may be turned over to the local authorities.

Due Process

Students who question the fairness of disciplinary action taken against them are entitled to due process by submitting a written notice of appeal. The appeal is heard by the Hearing Committee (Judicial Review Board), which is composed of the President and the Vice-President of the Student Government Association and two faculty members appointed by the President of the College. The decision of the committee is final, subject only to the student's right of appeal to the President of the College or ultimately to the Board of Trustees. Additional information may be obtained from the dean of students.

Dismissal

A student may be dismissed from a class or from the College for conduct or personal habits which are not in the best interest of the student and of the College.

Information on dismissal and reinstatement procedure may be obtained from the office of the dean of students.

The provisions of due process will be applicable to all actions involving suspensions, extensions, probation, and dismissal.

LEARNING RESOURCES CENTER

The Learning Resources Center (LRC) at Pitt Community College includes Library Services, Audiovisual Services, and Media Production Services. The primary purpose of the LRC is to provide learning resources and services to support and enrich the educational programs of the College. These resources and services are available to students, faculty, and staff of Pitt Community College and to the adult citizens of Pitt County.

LRC resources and services include a wide variety of print and nonprint materials, technical equipment, supportive facilities, and specialized services. The print materials collection includes books, magazines, newspapers, pamphlets, government publications, and other printed materials. Audiovisual materials in the LRC collection include films, filmstrips, filmloops, transparencies, slides, audio and video tapes, and records. Microfilm copies of back issues of selected magazines and newspapers and certain historical records of the Pitt County area are also available for use in the LRC. Equipment needed for the utilization and duplication of certain instructional materials is provided by the LRC.

A staff of professional librarians, media specialists, technicians, and assistants provide instruction and assistance in the use of LRC materials, equipment, and services at all hours the LRC is open.

The LRC is open Monday through Thursday from 7:45 A.M. to 9:30 P.M. and on Friday from 7:45 A.M. to 5:00 P.M. (closed Saturdays, Sundays, and holidays). Located on the third floor of the Humber Building (easily reached by elevator), the LRC is arranged and furnished to provide a pleasant atmosphere conducive to study and to leisure-time use of the variety of resources and services available.

COOPERATIVE EDUCATION

Cooperative Education Program

The Cooperative Education Program is designed to give students the opportunity to integrate their classroom study with practical experience in the major field. This is done by working and attending school in optional plans.

Eligibility

All students who are taking six (6) quarter hours or more who have completed one quarter or who are already employed in work-related jobs are eligible to enter the Cooperative Education Program provided they meet the following requirements:

- 1. Students must have a 2.0 GPA, and/or approval of the department chairman and cooperative education director.
- 2. Students must plan to graduate from Pitt Community College.

When to Apply

Students may apply as soon as they have been accepted for enrollment by the school even though they will not receive a work assign ment until after they have completed one quarter of school.

Application Procedure

Students who are interested in the Cooperative Education Program should follow the procedure outlined below:

- 1. The student will obtain an application form from the cooperative education office and make an appointment with the co-op office to review the completed application.
- 2. The director or the coordinator will conduct an interview with the student with regard to his career goals and possible cooperative assignments.
- 3. If the student is accepted, the cooperative education office with the assistance of the department chairman or advisor will be responsible for locating an appropriate training position.

Academic Credit

A. One (1) credit hour will be given for the satisfactory completion of each quarter's cooperative training assignment of each ten hours per week. The cooperative education director will grade assignments based on reports submitted by the student, the employer, and the faculty advisor. Reports of credit will be made to the registrar's office by the cooperative education director.

- B. Generally, a student may receive a maximum of four credit hours during any one quarter and a maximum of nine credit hours toward degree or diploma requirements. Those enrolled in the associate in arts degree program can earn up to six credit hours.
- C. Credits earned may be used as add-on, elective, or substitute. This is to be determined by the advisor and the department chairman.

CONTINUING EDUCATION

The Continuing Education Division at Pitt Community College is committed to serve adults from the general community, business, and industry. Various programs are offered for the individual to meet particular needs and interests. Opportunities exist to upgrade occupational skills, to acquire new skills, to complete high school, and to pursue activities for personal enrichment.

Classes are held on campus and in off-campus facilities such as public schools, community buildings, churches, civic centers, industrial plants, and fire stations.

Each course is open to adults 18 years of age or older and not enrolled in a secondary school. However, high school students 16 years or older are permitted to enroll with approval from the appropriate public school official.

Schedule of Courses

A schedule of Continuing Education classes is published quarterly and distributed throughout Greenville and surrounding areas. Classes are organized upon demonstration of sufficient interest and availability of the required facilities and instructors. Newspaper, radio, and television are utilized to announce course offerings. Classes are usually held from 7:00 P.M. to 10:00 P.M.; however, classes can be scheduled for mornings or afternoons.

Course Credit

Generally courses offered in Continuing Education are non-credit; however, credit will be given in the Adult High School Diploma Program. CEU's (Continuing Education Units) are also awarded for certain courses and seminars. (Ten contact hours of class earn a CEU.) Written acknowledgement of course completion or participation may be provided to individuals upon request.

Registration and Attendance

Registration for classes is normally completed on a first-come, firstserved basis. A minimum of 14 persons is usually needed to begin classes. If regular attendance falls below six people, the class may be discontinued.

Fees

A registration fee of \$8.00 or \$15.00 is required for all non-credit courses (except Adult Driver Training for which there is an additional fee) and must be paid at the first class meeting. There is no charge for registration to senior citizens 65 years of age or older. Accident insurance is available to all students. Students in laboratory courses requiring the use of equipment and machinery must either purchase insurance or sign a waiver form.

Veterans Benefits

Information regarding veterans benefits may be found in the appropriate section of this publication. For additional information, contact the veterans affairs officer: telephone 756-3130, extension 260. After 5:00 P.M., visit Room 113 in the Humber Building or telephone 756-3130, extension 238.

Course Descriptions

Course descriptions are available upon request by calling or visiting the Division of Continuing Education. Individuals who desire counseling or other special assistance may contact either the instructor or the directors in the Continuing Education Division.

Books and Supplies

Most courses do not require textbooks. When a text is required, students will be notified at the first class meeting. Students are generally responsible for their class supplies.

General Adult Education

The General Adult Education Program consists of non-credit courses which enable the adult to develop a skill or an art in an area of interest.

Adult Basic Education

Adult Basic Education is designed to improve the reading and math skills of persons who seek self improvement through organized classes. The goal of the program is to help the student function more effectively in the environment. Classes may be established throughout the Pitt County area and may be co-sponsored with churches, schools, or community organizations. Groups interested in developing a class (at least 10 people), may contact the adult basic education coordinator at Pitt Community College. There are no charges for the classes or materials.

Adult High School Equivalency

The Adult High School Equivalency program is designed to prepare the adult to take the state high school equivalency test, the General Educational Development Test (GED). Adults may enroll in morning, afternoon, or evening classes at specified locations in the Greenville and Pitt County area. Program content covers English expression, literature, mathematics, social studies, and natural science. There is a \$5.00 tuition fee, and students may be required to purchase instructional materials.

The GED test program, through which adults may earn a high school equivalency diploma, is administered in the Learning Center by appointment. The state of North Carolina requires a \$5.00 fee to take the GED. Telephone 756-3130, extension 231, or come by the Learning Center in Room 2 of the White Building.

General Interest Offerings

The following are examples of general interest courses:

Art: Painting, Drawing, and Sketching Arts and Crafts Auto Care and Tune-up Baking and Decorations Calligraphy Conversational French, German, Spanish Creative Writing Crewel Embroidery Crochet Investments and Securities Knitting Macrame Needlepoint Prenatal Education (Lamaze Method of prepared childbirth) Pottery Rug Hooking Seasonal Decorations Sewing Sign Language Spinning and Natural Dyes Weaving

The Learning Center

The Learning Center at Pitt Community College is designed to provide opportunities for individual study for both curricular students and adults in the community. Study areas include the following: preparation for taking the high school equivalency test, preparation for entrance into a curricular program, preparation for college entrance, upgrading in specific areas, and study of subjects for personal satisfaction.

Pitt Community College is approved by the North Carolina Department of Public Instruction and the American Council on Education as a testing center for the General Education Development Test Battery (GED). This testing program, through which adults may earn a high school equivalency diploma, is administered in the Learning Center by appointment. The state of North Carolina requires a \$5.00 fee to take the GED. Telephone 756-3130, extension 231, or come by the Learning Center in Room 2 of the White Building.

Hours of Operation:

8:00 AM — 5:00 PM, Monday — Thursday 6:00 PM — 10:00 PM, Monday — Thursday 8:00 AM — 5:00 PM, Friday

A coordinator is available at all times to evaluate, advise, and aid students in their progress.

Anyone 18 years of age or older who is not enrolled in a secondary school may enroll in the Learning Center.

High school students 16 years or older are permitted to enroll with approval from the appropriate public school official.

Occupational Extension

Occupational courses are offered for employed persons needing to upgrade their skills or for persons seeking employment at the skilled technical and vocational level.

General Occupational Courses

The following are examples of general occupational courses:

Arc Welding Automotive Repair Aviation Ground School Basic Blueprint Reading Basic Electricity Basic First Aid Brick Masonry Estimating for the Building Trades Fundamentals of Real Estate Handyman Bricklaying Home Plumbing Repair Household Appliance Repair Ornamental Horticulture Outboard Motor Repair Real Estate Appraisal Secretarial Refresher Small Engine Repair Speedwriting Tobacco Auctioneering Tobacco Ticket Marketing TV Service and Repair Woodworking and Cabinetmaking

Specialty Occupational Programs

Fire Service Training

Fire Service Training is designed to provide firemen the opportunity to gain technical information and skill in modern fire fighting through

a variety of learning experiences. Usually these courses are conducted in the local fire departments for the volunteer firemen, who train as an organized group utilizing equipment and methods they would ordinarily use in preventing and suppressing fire.

Some of the subject areas for volunteer firemen are as follows: arson detection, compressed gas emergencies, fire apparatus practices, hazardous materials, introduction to fire fighting, ladder practices, hose practices, rescue practices, protective breathing equipment, and fire fighting procedures.

Courses such as Home Safety, Fire Prevention and Industrial Fire Brigade Training are available to the public and industry as well as fire service personnel.

Hospitality Training

This program is provided to train hotel-motel managers, food service personnel, waiters, waitresses, cooks, and maids or any other individual or group in the hospitality field.

Hospitality education has three objectives: (1) to develop, within individuals, skills that will qualify them for better employment opportunities in the hospitality field; (2) to provide employers with welltrained personnel to operate their businesses; and (3) to provide better hospitality. Some of the courses are as follows: Front Office Procedures, Human Relations, Communication, Basic Nutrition and Menu Planning, Overview of School Food Service, Use and Care of Equipment, Quantity Cooking, and Quantity Food Preparation.

Law Enforcement Training

Several short courses and seminars are conducted to upgrade and train law enforcement officers. Some courses are as follows: Introduction to Police Science, Courts and Law, Laws of Arrest, Search and Seizure, and General Criminal Investigation.

The College also offers two-year associate degrees in criminal justice.

Management Development Training

Management Development Training Courses are designed for potential and active supervisors who want to prepare for more effective leadership and advancement. Courses are offered both on and off campus. The courses are flexible in terms of content and meeting times. Every effort is made to fit course content to particular individual, industrial, or business needs.

Some of the courses are:

Principles of Supervision Economics and Management Economics in Business and Industry Creative Thinking Supervisory Techniques Employee Evaluation and Interviewing Conference Leadership Training Effective Writing Motivation Techniques Effective Communication

Professional In-Service Programs

Teacher Certificate Renewal: Local superintendents responsible for providing in-service upgrading and training for teachers coordinate with the division of continuing education to develop special courses deisgned to meet the needs of the local school unit. The division assists in the development and presentation of approved courses by providing needed personnel, facilities and services in coordination with the local school unit.

Other Professional In-Service: Various institutions and agencies require employee upgrading through the offering of in-service classes. The division of continuing education coordinates with each agency to develop the in-service program most appropriate to their needs.

Special Industrial Training

Classes may be in the immediate area in which the industry is located.

In addition, special classes may be developed for training of personnel for a new industry locating in the area or an expanding industry.

Courses are designed to meet specific group needs. New programs and classes are scheduled at the time and place convenient to the interested group or individuals.

For information and assistance in developing occupational extension classes, call the assistant dean for continuing education.

Workshops, Seminars, and Conferences

Workshops, seminars, and conferences are planned and offered by Pitt Community College on a variety of topics in cooperation with civic groups, non-profit organizations, or by special request from the citizens of Pitt County.

The workshops and seminars may carry CEU credit if arrangements have been made in advance with Pitt Community College, and if participants meet necessary requirements for receiving credit.

The Visiting Artist Program

The Visiting Artist Program is a cooperative effort between the North Carolina Arts Council and the Department of Community Colleges. Pitt Community College is one of the many institutions throughout the state which employs full-time artists representing a variety of different art forms.

The purpose of the program is to enhance the appreciation and cultivation of the arts within the College and the surrounding areas. This unique program presents to students, faculty, and the community at large an opportunity to experience first hand the work of creative and performing artists.

During the residency, the artist presents performances, lectures, demonstrations, and workshops as well as providing assistance to organizations such as civic clubs, public schools, arts councils and church groups. The artist also organizes exchange programs with artists from other schools in the Visiting Artist Program in order to bring a variety of artistic experience to the College and community.





College Transfer



REQUIREMENTS FOR THE ASSOCIATE IN ARTS DEGREE

The Associate in Arts degree is awarded upon completion of at least 96 quarter hours of credit with an overall grade point average of 2.0 (C) or better, to include:

Ci	redit Hours
COMMUNICATIONSGrammer and Composition, Lib 150	11
HUMANITIES AND FINE ARTS Literature, philosophy, religion, foreign language, art, drama, speech, and music	15
MATHEMATICS	5
SCIENCE Courses, at least one of which is to include laboratory e will be chosen from areas such as astronomy, biology, o geology, and physics	12 experience, chemistry,
SOCIAL SCIENCE	20 gy,
HEALTH AND PHYSICAL EDUCATION	5
*ELECTIVES	28
TOTAL CREDIT HOURS FOR DEGREE	96
* Electives should be selected on the basis of the student's	major field

* Electives should be selected on the basis of the student's major field of study and on the requirements of the institution to which the student intends to transfer.



PRE-BUSINESS ADMINISTRATION

Pre-Business Administration is designed for those students who wish to transfer to a senior college or university to pursue majors in the areas of Accounting, Banking, Business Administration, Economics, Finance, Management, Marketing, Quantitative Methods, or Real Estate. Degree plans may vary according to requirements of the senior institution.

PRE-BUSINESS ADMINISTRATION SUGGESTED CURRICULUM BY QUARTERS

F	IRST QL	JARTER	COURSE TITLE	С	L	СН
	*ENG	150	Composition I	3	0	3
	HEA	150	Personal and Community Health	3	0	3
	PSY	150	General Psychology I	3	0	3
	BUS	165	Introduction to Business	5		_5
				14	0	14
s	ECOND	QUAR	TER			
	ENG	151	Composition II	3	0	3
	*MAT	150	College Algebra	5	0	5
	LIB	150	Library Research Skills	2	0	2
	SOC	150	Sociology I	5	0	5
	PSY	151	General Psychology II	3	_0	_3
			,	18	0	18
т			R			
	ENIC	152	Composition III	3	0	3
	APT	160	Art Appreciation	3	0	3
	EDD	150	Introduction to Computers	5	0	5
	CDU	150	Voice and Diction			
	or	150	Voice and Diction			
	SPH	160	Public Speaking	3	0	3
	5111	100	Physical Education	_0	_2	1
			Thyseur Eddeation	14	2	15
1	OURTH	I QUAR	TER			
	ENG	250	British Literature I			
	or			3	0	3
	ENG	260	American Literature I	5	U	
	BIO	250	General Biology I			
	or			2	2	4
	PHY	260	Physics and the Environment I	2	0	3
	ECO	150	Economics I	2	2	4
	ACT	150	Principles of Accounting	0	2	1
			Physical Education	-0		15
				12	6	15

FIFTH QU	JARTER	COURSE TITLE	С	L	C
ENG	251	British Literature II			
or					1
ENG	261	American Literature II	3	0	. 3
BIO	251	General Biology II			1
or					
PHY	261	Physics and the Environment II	3	2	4
ECO	151	Economics II	3 .	0	3
ACT	151	Principles of Accounting	3 .	2	4
BUS	166	Business Law I	_3	_0	_3
			15	4	17
SIXTH Q	UARTER				
BIO	252	General Biology III			
or					į
PHY	262	Solar Influences and Applications	3	2	4
ACT	152	Principles of Accounting	3	2	4
BUS	167	Business Law II	3	0	3
ECO	152	Economics III	3	0	3
		Humanities Elective	3	_0	3
			15	4	17
TOTAL	LARTE	HOURS			96

*If students, as a result of placement tests or grades, are found to be deficient in math and English skills, they will be required to take the appropriate courses from the following list:

MAT 099, 100R, 100, 101, ENG 100R-1, 100R-2, 100R-3, 100R-4, 100G, 100G-A, 101; ORI 150.

The pre-business student may select additional elective credits from approved college transfer courses and make course substitutions from such college transfer courses on a credit-for-credit basis upon approval by the student's department chairperson.

PRE-EDUCATION (SECONDARY)

Pre-Education (Secondary) is designed for students who plan to transfer to senior institutions and major in secondary education and then teach in high school. Students take the same courses as preliberal arts students, with elective hours chosen in the area of major interest.

PRE-EDUCATION (SECONDARY) SUGGESTED CURRICULUM BY QUARTERS

FIRS	ST QU	ARTER	COURSE TITLE	С	L	СН
*	ENG	150	Composition I	3	0	3
1	HEA	150	Personal and Community Health	3	0	3
	HIS	150	American History I			
	or		·			
1	HIS	160	World History to 1500	5	0	5
	PSY	150	General Psychology I	3	0	3
			, ,	14	0	14
SEC	OND	OUAR	TER			
	ENG	151	Composition II	3	0	3
	HIS	151	American History II			
	or	101				
	HIS	161	History of Europe Since 1500	5	0	5
	PSV	151	General Psychology II	3	0	3
*	MAT	150	College Algebra	5	0	5
	LIR	150	Library Research Skills	2	0	2
	LID	150	Library Research skins	18	0	18
TLU		LIADTE	D			
1.00		JED	Composition III	3	0	3
	CDU	152	Voice and Diction			
	SPH	150	Voice and Diction			
	CDLI	160	Public Speaking	3	0	3
	ADT	100	Art Appreciation	3	0	3
	AKI	100 *	Art Appreciation	5	0	5
			Bhusical Education	0	2	1
			Physical Education	14	2	15
		OLIAN	TED			
rU	UKIH	QUAR	Dettich Literature I			
	ENG	250	British Literature i			
	Or	260	A sea term l'iterature l	3	0	3
	ENG	260	American Literature 1			
	RIO	250	General biology i			
	or	262	plate data Environment l	3	2	4
	РНҮ	260	Physics and the Environment i	0	2	1
			Physical Education	8	0	8
			TElectives	14	4	16
				1.1		

FIFTH QU	UARTER	COURSE TITLE	С	Ł	СН
ENG	251	British Literature II			
ENG	261	American Literature II	3	0	3
BIO	251	General Biology II			
PHY	261	Physics and the Environment II	3	2	4
	*	*Electives	10	_0	10
			16	2	17
SIXTH Q	UARTER				
BIO	252	General Biology III			
PHY	262	Solar Influences and Applications	3	2	4
		Humanities or Fine Arts Elective	3	0	3
	*	*Electives	_9	_0	_9
			15	2	16
TOTAL C	UARTE	R HOURS	 		96

*If students, as a result of placement tests or grades, are found to be deficient in math and English skills, they will be required to take the appropriate courses from the following list:

MAT 099, 100R, 100, 101; ENG 100R-1, 100R-2, 100R-3, 100R-4, 100G, 100G-A, 101, 101A; ORI 150.

**Elective credits should be selected based on the student's prospective teaching field.

PRE-LIBERAL ARTS

The Pre-Liberal Arts curriculum is designed for students who intend to transfer to a senior college for their four-year degrees and for people who wish a liberal arts education ending in a two-year degree. Students take general college courses, including courses in English, math, biology, speech, health, physical education, and social science such as psychology, sociology, and history. Because the program is general, many students who have not decided on a major select pre-liberal arts. Adjustments can be made to meet the general education requirements of most colleges and universities.

PRE-LIBERAL ARTS SUGGESTED CURRICULUM BY QUARTERS

FIRS *E	T QU Ing Hea	ARTER 150 150	COURSE TITLE Composition I Personal and Community Health	C 3 3	L 0 0	СН 3 3
ł	HIS or	150	American History I			
ł	HIS	160	World History to 1500	5	0	5
F	PSY	150	General Psychology I	<u>3</u> 14	0	<u>3</u> 14
SEC		OUARI	FR			
F	NG	151	Composition II	3	0	3
ł	HIS	151	American History II			
	-115	161	History of Europe Since 1500	5	0	5
ŗ	ρςγ	151	General Psychology II	3	0	3
*/	MAT	150	College Algebra	5	0	5
1	IR	150	Library Research Skills	_2	0	2
		130		18	0	18
THI	RD Q	UARTE	2			_
1	ENG	152	Composition III	3	0	3
	SPH	150	Voice and Diction			
	or			_		2
	SPH	160	Public Speaking	3	0	3
	ART	160	Art Appreciation	3	0	5
		*	*Social Science Elective	5	0	2 1
			Physical Education			
				14	2	15
FO	URTH	QUAR	FER			
	ENG	250	British Literature I			
	FNG	260	American Literature I	3	0	3
	BIO	250	General Biology I			
	or	200	0,000		-	4
	PHY	260	Physics and the Environment I	3	2	4
		200	Physical Education	0	2	0
			*Electives	8		0
				14	4	16

FIFTH QU	JARTER	COURSE TITLE		С	L	СН
ENG	251	British Literature II				
or						
ENG	261	American Literature II	1	3	0	3
BIO	251	General Biology II				
or						
PHY	261	Physics and the Environment II		3	2	4
	3	**Electives	3.1	10	0	10
				16	2	17
SIXTH Q	UARTE	R				
BIO	252	General Biology III				
or						
РНҮ	262	Solar Influences and Applications		3	2	4
	*	**Humanities or Fine Arts Elective		3	0	3
	*	**Electives		9	_0	9
				15	2	16
TOTAL		RHOURS				96

*If students, as a result of placement tests or grades, are found to be deficient in math and English skills, they will be required to take the appropriate courses from the following list:

MAT 099, 100R, 100, 101; ENG 100R-1, 100R-2, 100R-3, 100R-4, 100G, 100G-A, 101, 101-A; ORI 150.

****RECOMMENDED ELECTIVES:**

Fine Arts: ART 170; MUS 150 Humanities: PHI 150; REL 150, 160, 161 Social Science: ANT 150, 160; ECO 150, 151, 152; GEO 150; POL 150; PSY 160, 170; SOC 150, 160, 170

68 General Electives

ACT 150, 151, 152; BUS 165, 166, 167; EDP 150; EDU 250; ENG 270, 271, 272, 273, 274, 275; MAT 180; PED.







Technical Education

ACCOUNTING

Opportunities in accounting are increasing. With the increasing population, the industrial development, and the growth in large and small business in North Carolina, the need for competent accountants is rapidly increasing.

The accounting curriculum is designed to help students take advantage of these employment opportunities. Students are given training in the accounting theories and skills necessary for entry into the accounting profession.

The accounting curriculum aims to develop the following competencies:

- 1. Understanding of the principles of organization and management in business operations;
- 2. Ability to practice accounting, including tax and cost accounting;
- 3. Knowledge in specific elements of business law, finance, economics, and data processing;
- 4. Knowledge of human relations as they apply to successful business operations in a rapidly expanding economy; and
- 5. Understanding and skill in effective communication for business.

Graduates in accounting may qualify for any of the following positions: accounting clerk, payroll clerk, ledger accountant, junior auditor, and junior cost accountant. This training plus further work experience should prepare students to become office manager, accounting supervisors, and to fill other responsible positions in a business firm. Job opportunities are also available in federal, state, and local government offices.

ACCOUNTING SUGGESTED CURRICULUM BY QUARTERS

FIRST QU	ARTER	COURSE TITLE	С	L	СН	
ACT	150	Principles of Accounting	3	2	4	
BUS	165	Introduction to Business	5	0	5	
ECO	150	Economics I	3	0	3	
*ENG	101	Grammar	3	0	3	
*MAT	110	Business Mathematics	_5	_0	_5	
			19	2	20	
SECOND	QUART	ER				
ACT	151	Principles of Accounting	3	2	4	
BUS	102	Beginning Typewriting	2	3	3	
BUS	166	Business Law I	3	0	3	
ECO	151	Economics II	3	0	3	
ENG	102	Composition	3	_0	_3	
			14	5	16	
TH	IIRD C	QUARTER	COURSE TITLE	С	- L	СН
-----	--------	---------	--------------------------	---------	-----	-----
	ACT	152	Principles of Accounting	. 3	2	4
	BUS	110	Office Machines	- 2	2	3
	BUS	167	Business Law II	3	. 0	3
	EDP	115	FORTRAN	2	4	4
	ENG	204	Oral Communications	3	0	3
				13	8	17
FC	URTH	I QUART	ER			
	BUS	222	Intermediate Accounting	5	0	. 5
	BUS	235	Business Management	3	0	3
	EDP	223	Introduction to RPG II	2	4	. 4
	ENG	103	Report Writing	3	0	3
	BUS	226	Payroll Accounting	_3	_2	_4
				. 16	6	19
FIF	FTH Q	UARTER				
	BUS	123	Business Finance	3	0	3
	BUS	223	Intermediate Accounting	5	0	- 5
	BUS	225	Cost Accounting	3	2	4
	BUS	268	Auditing Theory	- 3	0	3
	ENG	206	Business Communication	3	_0	3
				17	2	18
51)	CHQ	UARIER	-	2	2	А
	BUS	229	Taxes	5 E	2	5
	BUS.	224	Intermediate Accounting		0	
	BUS	269	Auditing	3	0	3
		44	ciective	<u></u>		15
				14	2	15
тс	DTAL C	DUARTER	HOURS			105

ENG 100R-1, 100R-2, 100R-3, 100R-4, 100G, 100G-A, 101-A, 102-A; MAT 099, 100R.

**The accounting student may select elective credits from the list of recommended electives or from other related courses and make course substitutions from appropriate subject areas on a credit-for-credit basis upon approval by the student's department chairperson.

RECOMMENDED ELECTIVES:

BUS 103, 112, 153, 219, 227, 237; ECO 108; EDP 105; ENG 105, 106; PAL 102, 103; PSY 102, 206; SOC 102, 103; SSC 101; COE 100.

AGRICULTURAL BUSINESS TECHNOLOGY

Many responsible positions in agricultural businesses and industries require technical training not available in high school or in four year colleges. The Agricultural Business Curriculum is designed to help students acquire knowledge, understanding, and abilities in the broad field of agriculture with business training to prepare the graduate for many of the varied employment opportunities in agriculture.

Successful completion of this curriculum should enable persons to assume responsibilities in an agricultural firm and should enable them to advance within such a business. Upon graduation from this curriculum, an individual should qualify for various jobs in agricultural business and industry, such as salesperson or store manager in farm supply stores; agricultural field serviceperson; salesperson, demonstrator, or plant manager of feed and food companies; farm products inspector; or salesperson or office managers of farm products marketing firms.

AGRICULTURAL BUSINESS TECHNOLOGY SUGGESTED CURRICULUM BY QUARTERS

FIRST Q	UART	ER COURSE TITLE	С	L	СН
*ENG	101	Grammar	3	0	3
*MAT	100	Review of Fundamental Mathematics	5	0	5
AGR	125	Animal Science	5	2	6
		**Agricultural Elective	_3	_2	_4
			16	4	18
SECOND	QU/	ARTER			
ENG	102	Composition	3	0	3
AGR	185	Soil Science and Fertilizers	5	2	6
ACT	150	Principles of Accounting	3	2	4
		**Business Elective	_3	_0	_3
			14	4	16
THIRD C	UAR	TER			
ENG	204	Oral Communications	3	0	3
EDP	114	Introduction to Computer Concepts	3	· 0	3
AGR	170	Plant Science	5	2	6
BUS or	102	Beginning Typewriting			
BUS	103	Intermediate Typewriting	_2	_3	_3
			13	5	15
FOURTH	I QUA	ARTER			
ENG	103	Report Writing	3	0	3
AGR	278	Weed Identification and Control	3	2	4
BUS	232	Sales Development	3	0	3
AGR	228	Plant and Animal Diseases	3	2	4
СНМ	101	Chemistry	_4	2	5
			16	6	10

FIFTH QU	JARTER	COURSE TITLE	С	L	СН
AGR	119	Techniques of Welding	2	3	3
AGR	204	Agricultural Economics and Farm Records	3	2	4
AGR	225	Agricultural Pollution Control	3	2	4
***AGR	205	Agricultural Marketing	3	2	4
	3	**Social Science Elective	_3	_0	_3
			14	9	18
SIXTH Q	UARTE	2			
AGR	203	Pesticide and Fertilizer Application	3	2	4
***AGR	247	Pesticides and Their Use in Home			
		and Community	3	2	4
BUS	110	Office Machines	2	2	3
AGR	245	Crop Insects	3	2	4
		**Social Science Elective	_3	0	3
			14	8	18
TOTAL C	UARTE				104

ENG 100R-1, 100R-2, 100R-3, 100G, 100G-A, 101-A, 102-A; MAT 009, 100R.

**The agricultural business technology student may select elective credits from the list of recommended electives or from other related courses and make substitutions from appropriate subject areas on a credit-for-credit basis upon approval by the student's department chairperson.

RECOMMENDED ELECTIVES:

 Agricultural:
 AGR 155, 218, 272, 273, 279, 290

 English:
 ENG 105

 Environmental:
 ENV 101, 103, 104

 Social Science:
 AGR 296; ECO 108; PSY 101, 102, 206; SOC 101, 102, 103; SSC 101; COE 100

 Business:
 BUS 100, 103, 166, 167, 123, 154, 229, 235, 239; ACT 151

***AGR 218 may be substituted for AGR 205.

***AGR 273 may be substituted for AGR 247.

AGRICULTURAL CHEMICALS TECHNOLOGY

Pitt Community College was selected by the North Carolina State Board of Education to offer this curriculum and it has been equipped with facilities consistent with needs reflected through an active industrial advisory committee. This curriculum is the only one of its kind in the state and one of 15 in the nation. It is widely supported and advised by related industries statewide. The program will prepare a graduate with a sound, well-rounded background that offers to industry a semiprofessional employee who, with normal on-the-job orientation, can actively execute the many technical tasks demanded by this field of endeavor. Specific objectives of this curriculum are to develop the following student competencies:

- 1. Understanding the basic agricultural sciences such as crop production and pest control in their application to farming;
- 2. Understanding applied chemistry within the agricultural chemicals industry;
- 3. Understanding business organizations, procedures, and management of firms producing, marketing, and applying agricultural chemicals; and
- Understanding the formulation and use of farm chemicals and their relation to profitable agricultural production, including safety procedures.

A broad base of general technical courses is combined with selected courses in weed control, entomology, pathology, and chemistry to give balance over a broad area with emphasis on particular chemical skills.

AGRICULTURAL CHEMICALS TECHNOLOGY SUGGESTED CURRICULUM BY QUARTERS

FIRST QUARTER	COURSE TITLE	С	L	СН
*ENG 101	Grammar	3	0	3
*MAT 100	Review of Fundamental Mathematics	5	0	5
AGR 125	Animal Science	5	2	6
,	**Agricultural Elective	3	_2	_4
		16	4	18
SECOND QUAR	TER			
ENG 102	Composition	3	0	3
AGR 185	Soil Science and Fertilizers	5	2	6
ACT 150	Principles of Accounting	3	2	4
CHM 102	Introduction to General Chemistry	_4	_2	_5
		15	6	18

1	THIRD Q	UAR	TER COURSE TITLE	С	L	CH
	ENG	204	Oral Communications	3	0	3
	CHM	103	General Chemistry II	4	2	5
	EDP	114	Introduction to Computer Concepts	3	0	3
	AGR	170	Plant Science	5	2	6
	BUS	102	Beginning Typewriting			
	or					
	BUS	103	Intermediate Typewriting	2	3	3
				17	7	20
				.,	,	20
1	FOURTH	QUA	ARTER			
	ENG	103	Report Writing	3	0	3
	AGR	278	Weed Identification and Control	3	2	4
	BUS	232	Sales Development	3	0	3
	AGR	228	Plant and Animal Diseases	3	2	4
	CHM	106	Organic Chemistry	4	2	5
				16	6	19
					Ŭ	10
1	FIFTH Q	UART	ER			
	AGR	119	Techniques of Welding	2	3	3
	AGR	204	Agricultural Economics and Farm Records	3	2	4
	AGR	225	Agricultural Pollution Control	· 3	2	4
-	***AGR	205	Agricultural Marketing	3	2	4
			**Social Science Elective	3	0	3
				14	9	18
	SIXTH Q	UART	ER			
	AGR	203	Pesticide and Fertilizer Application	3	2	4
-	***AGR	247	Pesticides and Their Use in Home			
			and Community	3	2	4
	BUS	110	Office Machines	2	2	3
	AGR	245	Crop Insects	3	2	4
			**Social Science Elective	3	0	3
				14	8	18
			TERHOURS			111
	ionr c	20AK		1. (* . * * .		and

ENG 100R-1, 100R-2, 100R-3, 100G, 100G-A, 101-A, 102-A; MAT 099, MAT 100R.

**The agricultural chemicals technology student may select elective credits from the list of recommended electives or from other related courses and make course substitutions from appropriate subject areas on a credit-for-credit basis upon approval by the student's department chairperson.

RECOMMENDED ELECTIVES:

Agricultural: AGR 155, 218, 272, 273, 279, 290 English: ENG 105 Environmental: ENV 101, 103, 104 Social Science: AGR 296; PSY 101, 102, 206; SOC 101, 102, 103; SSC 101; ECO 108; COE 100 Business: BUS 100, 103, 123, 154, 166, 167, 229, 235, 239; ACT 151 ***AGR 218 may be substituted for AGR 205. ***AGR 273 may be substituted for AGR 247.

AGRICULTURAL SCIENCE

The Agricultural Science curriculum provides a training program for developing the basic knowledge and skills needed for the successful operation and management of a general farming program involving crops and livestock. Agribusiness firms are seeking trained personnel with technical knowledge and skills in the Agricultural Sciences. Modern farm production units also require trained managers in economics, business management, and technical skills in production practices. The objective of the curriculum is to provide technically trained personnel for managerial positions in agribusiness, as well as managerial and operative skills in production agriculture.

AGRICULTURAL SCIENCE SUGGESTED CURRICULUM BY QUARTER

FIRST QUARTI	ER COURSE TITLE	С	L	СН
AGR 135	Agricultural Law	3	0	3
AGR 185	Soil Science and Fertilizers	_5	_2	_6
		8	2	9
SECOND QUA	RTER			
AGR 205	Agricultural Marketing	3	2	4
AGR 127	Animal Nutrition	3	_2	_4
		6	4	8
THIRD QUAR	FER			
AGR 119	Techniques of Welding	2	3	3
AGR 279	Farm Forestry	. 3	_2	_4
		5	5	7
FOURTH QUA	RTER			
AGR 222	Farm Electrification	3	2	4
AGR 215	Farm Machinery Repair and Maintenance	3	_2	_4
		6	4	8
FIFTH QUART	ER			
AGR 228	Plant and Animal Diseases	3	2	4
AGR 278	Weed Identification and Control	3	_2	4
		6	4	8
SIXTH QUART	ER			
AGR 204	Agricultural Economics and Farm Records	. 3	2	4
AGR 223	Livestock Production	3	2	4
		6	4	8
SEVENTH QUA	ARTER			
AGR 218	Agricultural Mechanization	3	2	4
AGR 105	Pastures and Forage Crops	3	2	4
		6	4	R

EIGHTH	QUART	ER COURSE TITLE	С	L	CH
AGR	245	Crop Insects	3	2	4
AGR	149	Introduction to Plant Science and Horticulture	3	2	4
			6	4	8
NINTH C	QUART	FER			
AGR	201	Agricultural Chemicals (Pesticides)	3	2	4
AGR	187	• Fertilizers and Lime	3	2	_4
			6	4	8
TENTH C	UART	ER			
*AGR	136	Agricultural Mathematics	5	0	5
AGR	290	Soil and Water Conservation	_3	_2	_4
			8	2	9
ELEVENT	H QU	ARTER			
AGR	128	Farm and Home Construction	2	3	3
AGR	121	Crop Production	3	2	4
			5	5	7
			Ū		
IWELFIF		Takasa Deduction	2	2	1
AGR	2/2	Plant Propagation	3	2	4
AGK	234	Plant Propagation			
			0	4	0
TOTAL	QUART	FER HOURS			96
PEOLUP					
*ENIC	101	Grammar	3	0	3
ENG	107	Composition	3	0	3
ENG	102	Report Writing	3	0	3
ENG	204	Oral Communications	3	0	3
TOTAL					. 12
IOTAL	JUAKI				
ELECTIV	ES:				
	Two S	ocial Science Electives from the following:	2	0	3
PSY-	102	General Psychology	2	0	3
PSY	206	Applied Psychology	3	0	3
SOC	102	Principles of Sociology	3	0	3
SOC	103	Social Problems	3	0	3
SSC	101	Introduction to Social Science			C
TOTAL	QUAR	TER HOURS		••••	6
TOTAL	QUAR	TER HOURS REQUIRED FOR ASSOCIATE DEGREE .			114
*If stu and follo	dents, English wing li	as a result of placement tests or grades, are found to b skills, they will be required to take the appropriate st:	e deficie e course	ent in r s from	nath the
ENG	100R-1	I, 100R-2, 100R-3, 100G, 100G-A, 101-A, 102-A; MAT	099, 100F	۲.	

Upon approval of the department chairperson, the agricultural science student may make course substitutions on a credit-for-credit basis from the agricultural science courses listed below.

RECOMMENDED ELECTIVES:

Agricultural: AGR 112, 135, 149, 150, 154, 155, 188, 203, 207, 227, 273, 297

AGRICULTURAL SCIENCE AND MECHANIZATION VETERANS FARM COOPERATIVE PROGRAM (WITH TECHNICAL SPECIALTY OPTION)

This curriculum provides a training program for developing the basic knowledge and skills needed for the successful operation and management of a general farming program involving crops and livestock. There is a scarcity of people trained in basic agricultural science and mechanization. Larger farming operations require more mechanization and tremendous outlays of capital; thus, the need for trained farmers becomes increasingly critical.

The graduates of the Agricultural Science and Mechanization Curriculum are trained to manage and operate a farm. In addition, they should be able to perform most of the repairs to buildings and equipment, as well as perform the necessary electrical, construction, and plumbing operations pertaining to the farm.

The satisfactory completion of a minimum of 18 hours of general education in addition to the technical specialty courses will lead to an Associate in Applied Science Degree.

AGRICULTURAL SCIENCE AND MECHANIZATION VETERANS FARM COOPERATIVE PROGRAM (WITH TECHNICAL SPECIALTY OPTION) SUGGESTED CURRICULUM BY QUARTERS

FIRST OI	ARTER	COURSETITIE	C	1	СН
ACR	135	Agricultural Law	2	0	2
ACD	105		5	0	5
AGK	185	Soll Science and Fertilizers	_5		<u> </u>
			8	2	9
SECOND	QUARI	TER			
AGR	205	Agricultural Marketing	3	2	4
AGR	127	Animal Nutrition	3	· 2	- 4
			6	4	8
THIRD Q	UARTE	2			
AGR	119	Techniques of Welding	2	3	3
AGR	279	Farm Forestry	3	2	4
			5	5	7
FOURTH	QUARI	TER			
AGR	222	Farm Electrification	3	2	4
AGR	215	Farm Machinery Repair and Maintenance	3	2	4
			6	4	8

FIFTH QUARTER	COURSE TITLE	С	L	СН
AGR 228	Plant and Animal Diseases	3	2	4
AGR 278	Weed Identification and Control	3	2	4
		6	4	8
		0	7	0
SIXTH QUARTER				
AGR 204	Agricultural Economics and Farm Records	3	2	4
AGR 223	Livestock Production	3	2	4
		0	4	0
SEVENTH QUART	FR			
AGR 218	Agricultural Mechanization	3	2	4
AGR 105	Pastures and Forage Crops	3	2	4
Arean 105	rustures und rotage crops			
		б	4	8
	Crop Incosts	2	2	4
AGK 245	Crop Insects	3	2	4
AGK 149	Introduction to Plant Science and Horticulture			_4
		6	4	8
ACP 201	Agricultural Chamicals (Posticidae)	2	2	4
AGK 201	Agricultural Chemicals (Pesticides)	2	2	4
AGK 225	Agricultural Pollution Control			
		6	4	8
TENTH OUARTER				
AGR 227	Beef Production	3	2	4
ACR 200	Soil and Water Conservation	3	2	4
AGK 250	Son and water conservation			
		0	4	0
ELEVENTH QUAR	TER			
AGR 154	Swine Production	3	2	4
AGR 121	Crop Production	3	2	4
A CONCENTRATION	crop rioduction	6	4	8
(Ŭ		Ŭ
TWELFTH OUART	TER			
AGR 272	Tobacco Production	3	2	4
AGR 254	Plant Propagation	_3	_2	_4
		6	4	8
THIRTEENTH QU.	ARTER			
AGR 187	Fertilizers and Lime	3	2	4
AGR 112	Small Engine Repair	_2		
		5	5	7
FOURTEENTH QU	JARTER	2	2	4
AGR 207	Poultry Enterprises	2	3	3
AGR 128	Farm and Home Construction			
		5	5	
HIFTEENTH QUAR	A subscrapt Mathematics	5	0	5
AGR 136	Agricultural Mathematics	3	2	4
AGK 188	Cultural and Imgation Mactices	8	2	9
		Ū		
	HOURS			119
- Working				

AIR AND WATER TECHNOLOGY

The responsibility for solving environmental problems at the state level rests mainly with the N. C. Department of Natural and Economic Resources, Air and Water Resources Division, and the N. C. Department of Human Resources. In addition to these agencies, the Department of Transportation, private industry, and the municipalities and counties of the state must develop staffs knowledgeable in the solution of environmental problems to ensure compliance with state and federal antipollution regulations. Many of these staff positions can be filled by well-trained technicians knowledgeable in air pollution, water purification, water pollution, solid waste pollution, and other sanitation fields.

This curriculum is designed to train technicians to be aware of the impact their technical field exerts on the entire environment and to be able to communicate with those outside their technical field as well as those within. Graduates of the program will be knowledgeable about state and federal laws related to air and water pollution and the solutions to environmental problems. They will be trained to operate and maintain sampling, testing, and analytical equipment required in the area of water purification and air and water pollution detection and control.

A graduate of this program is qualified for entry into positions such as physical science technician GS-4, air pollution control technician, water pollution control technician, industrial waste technician, public health sanitation aide, laboratory technician, environmental monitoring technician, environmental engineering technician II, water treatment plant operator, waste water treatment plant operator, and technical sales and services of equipment and chemicals in related fields.

AIR AND WATER TECHNOLOGY SUGGESTED CURRICULUM BY QUARTERS

FIRST QUARTER	COURSE TITLE	С	L	СН
ENV 101	Environmental Orientation	4	2	5
ENV 103	General Biology	3	2	4
*MAT 100	Review of Fundamental Mathematics	5	0	5
*ENG 101	Grammar	_3	_0	_3
		15	4	17
SECOND QUART	TER			
ENV 105	Environmental Microbiology	2	4	4
CHM 102	Introduction to General Chemistry	4	2	5
MAT 101	Algebra I	5	0	5
ENG 102	Composition	3	_0	_3
		14	6	17

ENV 104 Environmental Biology 4 2 5 CHM 103 General Chemistry II 4 2 5 ENV 115 Environmental Physics I 3 2 4 MAT 103 Algebra II 5 0 5 Id 6 19 FOURTH QUARTER ENV 112 Air Resources Management 3 2 4 ENV 107 Water Resources Management 4 2 5 CHM 104 General Chemistry III 4 2 5 ENV 107 Water Resources Management 4 2 5 ENV 116 Environmental Physics II 3 2 4 Id 8 18 14 8 18 FIFTH QUARTER ENV 212 Air Pollution Sources and Control 3 4 5 ENV 217 Waste Water Treatment 3 2 4 ENV 201 Environmental Laboratory I 3
CHM 103 General Chemistry II 4 2 5 ENV 115 Environmental Physics I 3 2 4 MAT 103 Algebra II 5 0 5 FOURTH QUARTER 5 0 5 ENV 112 Air Resources Management 3 2 4 ENV 107 Water Resources Management 4 2 5 CHM 104 General Chemistry III 4 2 5 ENV 116 Environmental Physics II 3 2 4 I4 8 18 FIFTH QUARTER ENV 212 Air Pollution Sources and Control 3 4 5 ENV 212 Air Pollution Sources and Control 3 4 5 ENV 217 Waste Water Treatment 3 2 4 ENV 201 Environmental Laboratory I 3 4 5 **Elective 3-5 0-2 3-5 12-14 10-12 17-19
ENV 115 Environmental Physics I 3 2 4 MAT 103 Algebra II 5 0 5 FOURTH QUARTER 16 6 19 FOURTH QUARTER 3 2 4 ENV 112 Air Resources Management 3 2 4 ENV 107 Water Resources Management 4 2 5 CHM 104 General Chemistry III 4 2 5 ENV 116 Environmental Physics II 3 2 4 Id 8 18 14 8 18 FIFTH QUARTER ENV 212 Air Pollution Sources and Control 3 4 5 ENV 212 Air Pollution Sources and Control 3 4 5 ENV 217 Waste Water Treatment 3 2 4 ENV 201 Environmental Laboratory I 3 4 5 **Elective 3-5 0-2 3-5 12-14 10-12 17-19
MAT 103 Algebra II 5 0 5 FOURTH QUARTER 16 6 19 FOURTH QUARTER 3 2 4 ENV 112 Air Resources Management 3 2 4 ENV 107 Water Resources Management 4 2 5 CHM 104 General Chemistry III 4 2 5 ENV 116 Environmental Physics II 3 2 4 It 8 18 14 8 18 FIFTH QUARTER ENV 212 Air Pollution Sources and Control 3 4 5 ENV 212 Air Pollution Sources and Control 3 4 5 ENV 217 Waste Water Treatment 3 4 5 ENV 201 Environmental Laboratory I 3 4 5 **Elective $3-5$ $0-2$ $3-5$ **Elective $3-5$ $1-7$ $10-12$ $17-19$ </td
FOURTH QUARTER ENV 112 Air Resources Management 3 2 4 ENV 107 Water Resources Management 4 2 5 CHM 104 General Chemistry III 4 2 5 ENV 116 Environmental Physics II 3 2 4 14 8 18 FIFTH QUARTER ENV 212 Air Pollution Sources and Control 3 4 5 ENV 217 Waste Water Treatment 3 2 4 ENV 201 Environmental Laboratory I 3 4 5 **Elective 3-5 0-2 3-5 12-14 10-12 17-19
FOURTH QUARTER ENV 112 Air Resources Management 3 2 4 ENV 107 Water Resources Management 4 2 5 CHM 104 General Chemistry III 4 2 5 ENV 116 Environmental Physics II <u>3 2 4</u> 14 8 18 FIFTH QUARTER ENV 212 Air Pollution Sources and Control 3 4 5 ENV 217 Waste Water Treatment 3 2 4 ENV 201 Environmental Laboratory I 3 4 5 **Elective <u>3-5 0-2 3-5</u> 12-14 10-12 17-19
FOURTH QUARTERENV112Air Resources Management324ENV107Water Resources Management425CHM104General Chemistry III425ENV116Environmental Physics II32414818FIFTH QUERTERENV212Air Pollution Sources and Control345ENV217Waste Water Treatment324ENV201Environmental Laboratory I345**Elective3-50-23-5
ENV112Air Resources Management324ENV107Water Resources Management425CHM104General Chemistry III425ENV116Environmental Physics II32414818FIFTH QUARTERENV212Air Pollution Sources and Control345ENV217Waste Water Treatment324ENV201Environmental Laboratory I345**Elective3-50-23-512-1410-1217-1917-19
ENV107Water Resources Management425CHM104General Chemistry III425ENV116Environmental Physics II32414818FIFTH QUARTERENV212Air Pollution Sources and Control345ENV217Waste Water Treatment324ENV201Environmental Laboratory I345**Elective3-50-23-512-1410-1217-19
CHM 104 ENVGeneral Chemistry III425ENV116Environmental Physics II32414818FIFTH QUARTERENV212Air Pollution Sources and Control345ENV217Waste Water Treatment324ENV201Environmental Laboratory I345**Elective3-50-23-512-1410-1217-1917-19
ENV116Environmental Physics II32414818FIFTH QUARTERENV212Air Pollution Sources and Control345ENV217Waste Water Treatment324ENV201Environmental Laboratory I345**Elective3-50-23-512-1410-1217-19
FIFTH QUARTER ENV 212 Air Pollution Sources and Control 3 4 5 ENV 217 Waste Water Treatment 3 2 4 ENV 201 Environmental Laboratory I 3 4 5 **Elective 3-5 0-2 3-5 12-14 10-12 17-19
FIFTH QUARTER ENV 212 Air Pollution Sources and Control 3 4 5 ENV 217 Waste Water Treatment 3 2 4 ENV 201 Environmental Laboratory I 3 4 5 **Elective <u>3-5 0-2 3-5</u> 12-14 10-12 17-19
FIFTH QUARTER ENV 212 Air Pollution Sources and Control 3 4 5 ENV 217 Waste Water Treatment 3 2 4 ENV 201 Environmental Laboratory I 3 4 5 **Elective 3-5 0-2 3-5 12-14 10-12 17-19
ENV212Air Pollution Sources and Control345ENV217Waste Water Treatment324ENV201Environmental Laboratory I345**Elective34512-1410-123-512-1410-1217-19
ENV217Waste Water Treatment324ENV201Environmental Laboratory I345**Elective3-50-23-512-1410-1217-19
ENV 201 Environmental Laboratory I 3 4 5 **Elective 3-5 0-2 3-5 12-14 10-12 17-19
**Elective <u>3-5</u> <u>0-2</u> <u>3-5</u> 12-14 10-12 17-19
12-14 10-12 17-19
12-14 10-12 1/-19
SIXTH QUARTER
ENV 205 Environmental Laboratory II 2 4 4
ENV 218 Environmental Instrumentation I 2 4 4
ENV 226 Atmospheric Air Sampling 2 6 5
ENG 103 Report Writing 3 0 3
**Social Science Elective 3 0 3
12 14 19
SEVENTH QUARTER
ENV 236 Air Pollution Source Sampling and Anaylsis 2 6 5
ENV 219 Environmental Instrumentation II 2 4 4
ENV 200C Environmental Project 0 9 3
ENG 204 Oral Communications 3 0 3
**Social Science Elective <u>3</u> 0 <u>3</u>
- 10 19 18
TOTAL QUARTER HOURS

ENG 100R-1, 100R-2, 100R-3, 100G, 100G-A; MAT 100R.

**The air and water technology student may select elective credits from the list of recommended electives or from other related courses and make course substitutions from appropriate subject areas on a credit-for-credit basis upon approval by the student's department chairperson.

RECOMMENDED ELECTIVES:

AGR 185, 247, 290; ARC 106, 107, 202; CHM 106; CIV 101; DFT 101; ECO 108; EDP 114; ENV 200A,B, 220 A,B,C, 230A,B,C, 240A,B,C,; 225; ISC 102; MAT 102, 104, 120, 150; PHO 116; PHY 101, 107; PSY 102, 206; SOC 102, 103; SSC 101; COE 100, 101-106

Cooperative Education does not qualify for veterans' benefits.

ARCHITECTURAL DRAFTING TECHNOLOGY

Architectural drafting technicians are concerned with turning the architect's design sketches into complete and accurate working plans and detailed drawings for construction purposes. They may prepare floor plans, elevation drawings, construction details, and mechanical equipment layouts and door, window, and room schedules and site plans. The drafting technician may be involved in work in areas such as industry, engineering, building construction, specification writing, construction models, or architectural rendering. The technician communicates the architect's design to the builder in the form of working drawings.

Graduates should be competent drafting personnel, well informed on the building industry in general, the operation of architect's offices, and knowledgeable about materials and techniques of construction. Their training includes an appreciation of the mechanical, electrical, and structural aspects of buildings. Basic training in oral and written communication offers graduates a background for developing their potential in broader aspects of architectural practice, such as specification writing and supervision of construction.

ARCHITECTURAL DRAFTING TECHNOLOGY SUGGESTED CURRICULUM BY QUARTERS

FIRST QU	JARTER	COURSE TITLE	С	L	CH
CIV	105	Architectural Materials and Methods I	3	3	4
ARC	106	Architectural Drafting	2	6	4
*ENG	101	Grammar	3	0	3
*MAT	101	Algebra I	5	0	5
	*	*Social Science Elective	_3	_0	_3
			16	9	19
SECOND	QUART	ER			
ARC	107	Architectural Drafting	2	6	4
AHR	106	Architectural Mechanical Equipment	3	3	4
ENG	102	Composition	3	0	3
MAT	102	Trigonometry	5	0	5
РНҮ	101	Technical Physics	4	_2	_5
			17	11	21
THIRD C	UARTE	R Contraction of the second			
ARC	108	Architectural Drafting	0	9	3
DFT	236	Construction Estimating and Field Inspecting	3	3	4
ENG	204	Oral Communications	3	0	3
MAT	103	Algebra II	5	0	5
РНҮ	102	Technical Physics	_4	_2	5
			15	14	20

OURTH	QUAR	TER'COURSE TITLE	С	L	СН
ARC	201	Architectural Design I	3	9	6
CIV	106	Architectural Materials and Methods II	3	3	4
ARC	202	Environmental Design	_2	_3	3
			8	15	13

In lieu of the fourth quarter courses, students, with department chairperson's approval, may work as a cooperative education intern full time in a related area of employment. (Cooperative Education courses do not qualify for veterans' benefits.)

FIFTH Q	UAKII	EK			
CIV	114	Statics	5	0	5
CIV	101	Surveying	2	6	4
ARC	220	Architectural Drafting	2	9	5
PHY	103	Technical Physics	4	2	5
ENG	103	Report Writing	3	_0	_3
			16	17	22
SIXTH Q	UART	ER			
CIV	216	Strength of Materials	3	2	4
ARC	221	Architectural Drafting	2	9	5
DFT	235	Codes, Specifications, and Contract Documents.	3	3	4
ARC	233	Office Practice Seminar	2	0	2
		**Social Science Elective	_3	_0	_3
			13	14	18
SEVENTH	I QU	ARTER			
CIV	221	Reinforced Concrete Construction	3	2	4
ARC	222	Architectural Drafting	2	9	5
DFT	230	Structural Drafting	_2	_6	_4
			7	17	13
TOTAL					126

*If students, as a result of placement tests, are found to be deficient in math and English skills, they will be required to take the appropriate courses from the following list:

ENG 100R-1, 100R-2, 100R-3, 100G, 100G-A, 101-A, 102-A; MAT 100R, 100.

**The architectural drafting technology student may select elective credits from the list of recommended electives or from other related courses and make course substitutions from appropriate subject areas on a credit-for-credit basis upon approval by the student's department chairperson.

RECOMMENDED ELECTIVES:

ENG 105; PSY 101, 102, 206; SOC 101, 102, 103; SSC 101; COE 100

BANKING AND FINANCE

The purpose of the banking and finance curriculum are to prepare the individual to enter the banking and finance industries, to provide an educational program for the banking employee wanting to receive the American Institute of Banking certificate, and to provide an educational program to upgrade or retrain individuals presently employed in the banking or finance industry. These purposes will be fulfilled through study in areas such as banking and finance principles, theories and practices; teller operation; lending and collections procedures; financial analysis; and marketing and public relations.

This curriculum will provide the opportunity for an individual to enter a variety of banking or finance jobs in retail banks, commercial manks, government lending agencies, mortgage banks, and credit companies.

BANKING AND FINANCE SUGGESTED CURRICULUM BY QUARTERS

FIRST QU	JARTER	COURSE TITLE	C ·	1 L	CH
AIB	120	Accounting I	4	0	. 4
AIB	202	Principles of Bank Operation	4	0	4
ECO	150	Economics I	3	0	3
*ENG	101	Grammar	3	0	3
*MAT	110	Business Mathematics	_5	_0	_5
			19	0	19
SECOND	QUAR	TER			
AIB	111	Business Administration	4	0	4
AIB	121	Accounting II	4	0	4
AIB	210	Money and Banking	4	0	4
EDP	114	Introduction to Computer Concepts	3	0	3
ENG	102	Composition	3		3
			18	0	18
THIRD C	UARTEI	R			
AIB	205	Bank Management	· 4.	0	4
AIB	212	Planning Management Development	0	· 2	1
AIB	214	Effective Speaking	4	0	4
AIB	231	Savings and Time Deposit Banking	4	0	4
PSY	206	Applied Psychology	3	_0	3
			15	2	16
FOURTH		TER			
AIB	203	Bank Investments	4	0	4
AIB	206	Bank Letters and Reports	4	0	4
AIB	208	Conference Planning and Leadership	0	2	1
AIB	219	Credit Administration	4	0	4
AIB	234	Loss Prevention	0	2 -	1
SOC	102	Principles of Sociology	3	_0	_3

FIFTH O	QUARTER	COURSE TITLE	С	1.1	СН
AIB	209	Installment Credit	4	0	4
BUS	232	Sales Development	3	0	3
AIB	233	Analyzing Financial Statements	4	0	4
AIB	239	Bank Public Relations and Marketing	4	0	4
AIB	259	Law and Banking	_4	_0	4
			19	0	19
SIXTH	QUARTER				
AIB	204	Bank Management by Objectives	0	2	1
AIB	213	Trust Functions	4	0	4
AIB	235	Loan and Discount	3	0	3
AIB	236	Home Mortgage Lending	4	0	4
AIB	272	Supervision and Persoinnel Administration	_4	0	_4
			15	2	16
TOTAL	QUARTE	R HOURS			105

ENG 100R-1, 100R-2, 100R-3, 100G, 100G-A, 101-A, 102-A; MAT 099, 100R.

The banking and finance student may select elective credits from the list of recommended electives or from other related courses and make course substitutions from appropriate subject areas on a credit-for-credit basis upon approval by the student's department chairperson.

RECOMMENDED ELECTIVES:

AIB 123, 207, 232, 237; BUS 102, 110; COE 100; ENG 105

BUSINESS ADMINISTRATION

The Business Administraton Curriculum is designed to prepare the student for employment in one of many occupations common to business. Training is aimed at preparing the student in administrative work that might be encountered in the average business.

The Business Administration Curriculum aims to develop the following competencies:

- 1. Understanding of the principles of organization and management in business operations;
- 2. Understanding the economy through study and analysis of the role of production and marketing;
- 3. Knowledge in specific elements of accounting, finance, and business law;
- 4. Understanding and skill in effective communication for business; and
- 5. Knowledge of human relations as they apply to successful business operations in a rapidly expanding economy.

The graduate of the Business Administration Curriculum may enter a variety of positions from beginning salesperson or office clerk to manager trainee. The duties and responsibilities of this graduate vary in different firms, including preparing and filing reports, tabulating and posting data in various books, sending out bills, checking calculations, adjusting complaints, operating various office machines, and assisting managers in supervising personnel.

BUSINESS ADMINISTRATION SUGGESTED CURRICULUM BY QUARTERS

FIRST QL	JARTER	COURSE TITLE	С	L	Cł
*ENG	101	Grammar	3	0	3
BUS	165	Introduction to Business	5	0	5
ECO	150	Economics I	3	0	3
*MAT	110	Business Mathematics	5	0	5
ACT	150	Principles of Accounting	_3	_2	_3
			19	2	20
SECOND	QUAR	TER			
ENG	102	Composition	3	0	3
ECO	151	Economics II	3	0	3
BUS	166	Business Law I	3	0	3
ACT	151	Principles of Accounting	3	2	4
BUS	102	Beginning Typewriting	_2	_3	_3
			14	5	16

1	THIRD O	QUAR	TER COURSE TITLE	C		CH
	ENG	204	Oral Communications	3	0	3
	BUS	167	Business Law 11	3	Ő	3
	ACT	152	Principles of Accounting	3	2	ر ۲
	BUS	110	Office Machines	2	2	3
			**Elective	3	0	3
				 14	4	 16
	OUDTL		ADTED			
ľ	ENIC	102	AKIEK			
	EING	103	Report Writing	3	0	3
	BUS	239	Marketing	5	0	5
	BUS	232	Sales Development	3	0	3
	BOS	235	Business Management	3	0	3
			**Elective	_3	0	_3
				17	0	17
F	IFTH Q	UART	ER			
	ENG	206	Business Communications	З	0	З
	BUS	243	Advertising	3	2	4
	BUS	123	Business Finance	3	õ	3
	EDP	114	Introduction to Computer Concepts	3	Ő	3
			**Elective	3	0	3
				15	2	16
6		LIADT				
3		DAKI	EK	2	-	
	DUS	229	Taxes	3	2	4
	DUS DUS	271	Office Management	3	0	3
	005	212	**Election	3	0	3
			Electives			0
				15	2	16
T	DTAL Q	UARI				101

ENG 100R-1, 100R-2, 100R-3, 100R-4, 100G, 100G-A, 101-A, 102-A; MAT 099, 100R.

**The business administration student may select elective credits from the list of recommended electives or from other related courses and make course substitutions from appropriate subject areas on a credit-for-credit basis upon approval by the student's department chairperson.

RECOMMENDED ELECTIVES:

BUS 103, 112, 219, 222, 223, 225, 231; ECO 108; ENG 105, 106; POL 102, 103; PSY 206; SOC 102, 103; SSC 101; COE 100; INS 214, 215, 216.

CAREER OPTION NURSING EDUCATION

The Career Option Nursing Education Program is based on the concept that two levels provide training leading to a career either as a Licensed Practical Nurse or Registered Nurse. Level I is basic to the LPN and the Associate Degree programs. Upon completing Level I, students will either take the LPN examination or continue with Level II in order to complete the requirements to qualify for the licensing examination for Registered Nurse.

Level I, the LPN portion of the instruction, is concerned with the knowledge and techniques necessary for bedside nursing care, meeting the daily needs of patients, and assisting the registered nurse with complex nursing procedures. Instruction for Level II or the remaining requirements for the Associate Degree is concerned with the knowledge and skills needed in all aspects of the patient's daily needs, assisting the patient in becoming independent or rehabilitated, and directing the patients care. Level II presents progressively more complex technical theory, experience, and responsibility as a professional nurse trainee.

Curriculum currently under revision.



CAREER OPTION NURSING EDUCATION SUGGESTED CURRICULUM BY QUARTERS

Nursing I

FIRST	QUA	RTER COURSE TITLE	С	L	CL	СН
NUR	101	Fundamentals of Nursing	6	6	0	9
BIO	101	Basic Life Sciences	4	2	0	5
ENG	101	Grammar	3	0	0	3
NUT	101	Basic Nutrition	3	0	0	3
MAT	114	Basic Math for Health Professions	3	0	0	3
			19	8	0	23
SECO	ND Q	UARTER				
NUR	102	Medical-Surgical Nursing I	8	0	15	13
NUR	110	Pharmacology	3	0	0	3
PSY	150	General Psychology	3	0	0	3
			14	0	15	19
THIRI	D QUA	ARTER				
NUR	103	Medical-Surgical Nursing II	9 .	0	15	14
NUR	104	Maternal Child Health Nursing I	8	0	15	13
PSY	120	Human Growth and Development	3	0	0	3
+BIO	106	Microbiology	2	2	0	3
			13-14	2	15	19-20
FOUR		UARTER				
NUR	103	Medical-Surgical Nursing II	9	0	15	14
OF NILID	104	Maternal Child Health Nursing I	8	0	15	13
NUR	104	Nursing Seminar	3	0	0	3
CHM	110	Chemistry for Nurses	2	2	0	3
Criivi	110	Chemistry for Hurses	12 14		15	10_20
			13-14	2	10	19-20
ΤΟΤΑ	LQUA	ARTER HOURS FOR PRACTICAL NURSES			. 75	5

+Required only for students entering the fifth quarter.

Nursing II

FIFTH	QUART	TER COURSE TITLE	С	L	CL	СН
NUR	201	Advanced Maternity Nursing	3	0	8	6
NUR	203	Clinical Nursing I	2	0	8	5
BIO	201	Human Anatomy and Physiology I	3	2	0	4
ENG	102	Composition	3	0	0	3
			11	2	16	18
SIXTH		TER				
NUR	204	Clinical Nursing II	6	0	16	11
BIO	202	Human Anatomy and Physiology II	3	2	0	4
			9	2	16	15
SEVEN	ITH QU	ARTER				
NUR	202	Psychiatric Nursing	6	0	15	11
*SOC	102H	Principles of Sociology				
		(Health Professions)	3	0	0	3
			9	2	15	14
EIGH.	TH QUA	RTER				
NUR	205	Clinical Nursing III	5	0	18	11
NUR	231	Nursing Seminar	3	0	0	3
			8	0	18	14
NUR	235	Special Problems in Nursing				
		(Elective—Not Required)	0	4	0	2
		Total Credit Hours for Second Level				67
		Total Credit Hours for First Level				75
ΤΟΤΑ		RTER HOURS FOR ASSOCIATE DEGREE NURSING	G			. 142

**The Career Option Nursing Education student may select elective credits from the list of recommended electives or from other related courses, and make course substitutions from appropriate subject areas on a credit-for-credit basis upon approval by the student's department chairperson.

Curriculum currently under revision.



COMMERCIAL ART AND GRAPHIC DESIGN

Surveys have shown an increase in the demand for graduates possessing training in the field of commercial art and graphic design. This curriculum will prepare graduates with broad backgrounds for technical and creative achievement throughout their professional lives. Design and illustration for commerce is continually advancing its standards; therefore, the background offered the students must be well developed to prepare them for performance on a contemporary, professional level. Graduates of this program will have an adequate background in illustration, layout and lettering, design, and production.

Equipped with professional competency and the potential for continuing growth and improvement, graduates are qualified for employment in advertising agencies, design studios, department stores, industrial advertising departments, government agencies, newspapers, television studios, and printing and publishing houses.

Their activities may include designing layouts and illustrations for printing; creating posters, sign boards, billboards, and show cards; or illustrating package designs. Such a career affords the individual an opportunity for creativity and continuing professional growth and improvement.

COMMERCIAL ART AND GRAPHIC DESIGN SUGGESTED CURRICULUM BY QUARTERS

FIRST		TER COURSE TITLE	С	L	СН
BUS	102	Beginning Typewriting	2	3	3
CAT	102	Drawing I	1	4	3
CAT	107	Drafting for Art	1	3	2
CAT	121	Design I	3	6	6
MAT	100	Review of Fundamental Mathematics	_5	0	5
			12	16	19
SECO	ND QU	ARTER			
CAT	103	Drawing II	1	4	3
CAT	108	Drafting for Art	1	3	2
CAT	110	Art History to 1300	3	0	3
CAT	122	Design II	3	6	6
ENG	101	Grammar		_0	3
			11	13	17
THIR		RTER		4	2
CAT	104	Drawing III	1	4	2
CAT	111	Art History Since 1300	3	0	5
CAT	123	Layout and Design I	2	0	2
ENG	102	Composition	3	4	4
PHO	116	Photography	_2	-4	-
			11	14	18

FOUF	RTH QU	JARTER COURSE TITLE	С	L	CH
CAT	109	Drawing IV	1	4	3
CAT	120	Illustration Techniques	1	4	3
ENG	204	Oral Communications	3	0	3
		**Social Science Elective	3	0	3
			8	8	12
FIFTH		RTER			
CAT	210	Production Techniques	1	4	3
CAT	212	Advertising Illustration	1	4	3
CAT	224	Layout and Design II	3	6	6
ENG	103	Report Writing	3	0	3
PHO	217	Photography	_2	_4	4
			10	18	19
SIXTH		RTER			
CAT	214	Type and Letter Form Design	1	4	3
CAT	213	Advertising Illustration	1	4	3
CAT	225	Graphic Design I	3	6	6
		**Social Science Elective	3	_0	3
			8	14	15
*SEVEN	NTH QI	UARTER			
CAT	218	Photomechanical Techniques	2	6	5
CAT	226	Graphic Design II	3	6	6
CAT	235	Portfolio Development	1	4	3
			6	16	14
TOTA					114
TOTA	IL QUA	KIEK HOUKS	• • • • • • • • • •		114

ENG 100R-1, 100R-2, 100R-3, 100R-4, 100G, 100G-A, 101-A, 102-A; MAT 099, 100R.

**The commercial art and graphic design student may select elective credits from the list of recommended electives or from other related courses and make course substitutions from appropriate subject areas on a credit-for-credit basis upon approval by the student's department chairperson.

RECOMMENDED ELECTIVES:

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CAT 250; ENG 105; PHO 218, 219, 220; PSY 102, 206; SOC 102, 103; SSC 101; COE 100

***In lieu of seventh quarter courses, students, with department chairperson's approval, may work full-time as a cooperative education intern in a related area of employment. (Co-op Education courses do not qualify for veterans' benefits.)

CRIMINAL JUSTICE: CORRECTIONS

Correctional officers must be knowledgeable in many areas if they are to function effectively in our complex society. They study specialized areas such as interviewing, counseling, drug abuse, rehabilitation techniques, testing, and community relations. In addition, they must be familiar with the law and the criminal justice system.

To this end, the correctional science program is dedicated to developing proficiency in both pre-service high school graduates and inservice correctional personnel. It offers theoretical and practical instruction to meet the needs and requirements of the various correctional agencies and provides the student with the knowledge, skills, and attitudes necessary for a successful career in the corrections field.

Employment opportunities for graduates of this curriculum are available at state and federal correctional institutions as correctional officers or as correctional program assistants. Youth development correctional officer positions are also available to graduates of this program.

In-Service Officer Programs

In addition to the regular curriculum, the criminal justice department offers the degree program on a rotating schedule, designed to coincide with the in-service officer's work schedule. The courses are being offered during the day and again at night so the working officer can attend without missing any classes.

In recognition that the in-service officer must divide his time between his personal life, his job, and his school, only one-half of the courses normally offered to full-time students are offered on the rotating schedule. Since the officer is taking a reduced load, four (rather than two) years are required to complete the requirements for the associate in applied science degree.

CRIMINAL JUSTICE: CORRECTIONS SUGGESTED CURRICULUM BY QUARTERS

	FIRST	OUA	RTER COURSE TITLE	С	L	CH
	BUS	102	Reginning Typewriting	2	3	3
*	CIC	101	Introduction to Criminal Justice	5	0	5
	CIC	112	Motor Vahiela Laws	3	0	3
	CIC	112	Criminal Low L	3	0	3
	CIC	110	Criminal Law I	2	2	3
	HEA	110	First Ald and Medical Terminology	3	0	3
	PSY	102	General Psychology			20
				18		20

SECO	ND QU	ARTER COURSE TITLE	С	L	СН
CJC	109	Interviewing	3	0	3
CJC	116	Criminal Law II	3	0	3
CJC	120	Principles of Organization	3	0	3
*ENG	101	Grammar	3	0	3
*MAT	101	Algebra I	5	0	5
POL	102	National Government	3	_0	3
			20	0	20
тырг		DTED			
CIC	102	Legal Research I	3	0	3
	113	Corrections Law	3	0	3
CIC	125	Criminal Procedure	3	0	3
ENG	102	Composition	3	0	3
ENG	204	Oral Communications	3	0	3
POL	103	State and Local Government	3	0	3
101	105	State and Local Soloninisti	18	0	18
			10	Ŭ	
FOUR		JAKIEK	А	2	5
CHM	101	Adversions and the Comily	3	0	3
CSC	201	Marriage and the ramity	3	0	3
CJC	205	Evidence	3	0	3
CSC	203	Abasemal Bauchology	3	0	3
PST	228	Abnormal Psychology Bringiples of Sociology	3	0	3
SOC	102	Principles of Sociology			
FIETH	OUAR	TER	19	2	20
PSC	213	Identification Techniques	3	2	4
CSC	207	Confinement Facilities Administration	3	0	3
CSC	213	Dynamics of Substance Abuse	3	0	3
CSC	229	Career Information	3	2	4
ENG	103	Report Writing	3	0	3
PSY	103	Adolescent Psychology	3	0	3
			18	4	20
SIXTH		RTER			
CSC	226	Administration and Interpretation of Tests	3	0	3
CSC	224	Rehabilitation Techniques	3	0	3
CSC	234	Community Based Corrections	3	0	3
PSC	202	Police-Community Relations	2	0	2
PSC	110	Juvenile Delinquency	5	0	5
PSC	240	Firearms and Defensive Tactics	_2		3
			18	2	19
TOT					117

ENG 100R-1, 100R-2, 100R-3, 100G, 100G-A, 101-A, 102-A; MAT 099, 100R, 100.

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The Criminal Justice: Corrections student may select additional elective credits from approved courses and make course substitutions on a credit-for-credit basis upon approval by the student's department chairperson.

**CJC 151, 152, 153, 154, 155, and 156 totaling 6 quarter hours of credit may be substituted for CJC 101, Introduction to Criminal Justice, which is a 5-credit-hour course.

CRIMINAL JUSTICE: LAW ENFORCEMENT

Today's law enforcement officer is expected to handle matters dealing with human relations; he frequently has to act in legal matters; he must be skilled in the most recent operations techniques in order to insure equality of justice to all. The Law Enforcement Program offers theoretical and practical instruction to meet the requirements of various law enforcement agencies and provides the student with the skills, knowledge, and attitudes necessary for employment in the law enforcement profession. Demand for properly trained law enforcement officers in industry and in municipal, county, state, and federal agencies is increasing, and the highly trained law enforcement officer will find challenging opportunities with public and private law enforcement services.

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

Inservice Officer Program

In addition to the regular curriculum, the Law Enforcement Department offers the degree program on a rotating schedule, designed to coincide with the inservice officer's work schedule. The courses are being offered during the day and again at night so the working officer can attend without missing any classes.

In recognition that the inservice officer must divide his time between his personal life, his job, and his school, only one-half of the courses normally offered to full-time students are offered on the rotating schedule. Since the officer is taking a reduced load, it requires four rather than two years to complete the requirements for the associate in applied science degree.

CRIMINAL JUSTICE: LAW ENFORCEMENT SUGGESTED CURRICULUM BY QUARTERS

FIRST		RTER COURSE TITLE	С	L.	СН
RUS	102	Reginning Typewriting	2	3	3
DU3	102	Introduction to Criminal Justice	5	0	5
CJC	101	Introduction to Criminal Justice	3	0	3
CJC	112	Motor Vehicle Laws	3	0	3
CJC	115	Criminal Law I	. 2	2	3
HEA	110	First Aid and Medical Terminology	3	0	3
PSY	102	General Psychology			
			18	5	20

SECO	ND Q	UARTER COURSE TITLE	C	L	CH
CJC	109	Interviewing	3	0	3
CJC	116	Criminal Law II	3	0	3
CJC	120	Principles of Organization	3	0	3
*ENG	101	Grammar	3	0	3
*MAT	101	Algebra I	5	0	5
POL	102	National Government			3
			20	0	20
TUD		ADTED			
	102	AKIEK Logal Research I	3	0	3
	102	Corrections Law	3,	0	3
	125	Criminal Procedure	3	0	3
ENG	102	Composition	3	0	3
ENG	204	Oral Communications	3	0	3
POL	103	State and Local Government	3	0	3
			18	0	18
FOUF	RTH C	QUARTER			
CHM	101	Chemistry	4	2	5
CJC	205	Evidence	3	0	3
CJC	211	Criminalistics	4	2	5
CSC	203	Survey of Corrections	3	0	3
PSY	228	Abnormal Psychology	3	0	3
SOC	102	Principles of Sociology	3	_0	3
			20	4	22
FIFTH	ιου	ARTER			
CJC	204	Evidence Photography	3	3	4
CSC	213	Dynamics of Substance Abuse	3	0	3
ENG	103	Report Writing	3	0	3
PSC	201	Patrol Procedures	4	2	5
PSC	213	Identification Techniques	_3	_2	_4
			16	7	19
SIXTI	100	AKIEK	,	2	5
CIC	210		4	2	5
CJC DSC	235	Inventio Delinguency	3	2	4
PSC	202	Police Community Polations	5	0	2
psc	202	Firearms and Defensive Tactics	2	2	2
rse	240	ritearing and Detensive factics			
			16	6	19
TOT	AL OL	JARTER HOURS			. 118

ENG 100R-1, 100R-2, 100R-3, 100G, 100G-A, 101-A, 102-A; MAT 099, 100R, 100.

The Criminal Justice: Law Enforcement student may select additional elective credits from approved courses and make course substitutions on a credit-for-credit basis upon approval by the student's department chairperson.

**CJC 151, 152, 153, 154, 155, and 156 totaling 6 quarter hours of credit may be substituted for CJC 100 Introduction to Criminal Justice, a 5 credit-hour course.

EARLY CHILDHOOD ASSOCIATE

This curriculum is designed to prepare students for directing or teaching in a day care center. Courses in administration, food for children, working with parents, and planning and directing learning activities for young children are emphasized.

The graduate of the Early Childhood Associate Program will be qualified to work in developmental child care centers, day care facilities, and public and private schools and preschools.

EARLY CHILDHOOD ASSOCIATE SUGGESTED CURRICULUM BY QUARTERS

FIRS1		TER COURSE TITLE	С	L	CL	СН
EDU	102	Child Health and Safety	3	0	0	3
EDU	103	Preschool Orientation	1	0	6	3
*MAT	100R	Computational Skills	5	0	0	5
PSY	115	Child Growth and Development:				
		Prenatal-Early Childhood	3	0	0	3
SPH	150	Voice and Diction	3	0	0	3
			15	0	6	17
SECO						
RUS	102	Beginning Typewriting	2	3	0	3
EDU	102	Preschool Observation	1	0	6	3
EDU	221	Creative Activities	5	0	0	5
*ENIC	101	Grammar	3	0	0	3
DEV	116	Child Growth and Development:				
F 5 1	110	Middle Childhood-Adolescence	3	0	0	3
DCV	102	Conoral Psychology	3	0	0	3
r51	102	General rsychology		2	6	20
	_		17	5	0	20
THIR		RTER				_
EDU	111	Language Arts Techniques I	5	0	0	5
EDU	115	Audiovisual and Media Instruction	3	0	0	3
ENG	102	Composition	3	0	0	3
SOC	101	Introduction to Sociology	5	0	0	5
		**Elective	3	0		
			19	0	0	19
FOU	RTH O	UARTER				
ENG	103	Report Writing	3	0	0	3
EDU	203	Exceptional Child	5	0	0	5
200	200	**Elective	4	0	0	
·			12	0	0	12
FIET		RTER				
EDU	202	Discipline Strategies in the Classroom	3	0	0	3
EDU	202	Seminar-Practicum: Preschool	1	0	15	6
FDU	220	Preschool Education	5	0	0	5
NUT	102	Food for Children	3	2		
101	102		12	2	15	18

SIXTH	QUART	ER COURSE TITLE	С	L	CL	Ch
ECO	108	Consumer Economics	3	0	0	3
EDU	204	Parent Education	3	0	0	3
EDU	225B	Seminar-Practicum: Preschool	1	0	15	6
EDU	232	Preschool Administration and Supervision	3	0	0	3
EDU	229	Infant Care	3	0	0	3
			13	0	15	18
SEVEN	ITH QU	ARTER				
EDU	225C	Seminar-Practicum: Preschool	1	0	15	6
ENG	217	Children's Literature	3	0	0	3
PSY	220	Psychology of Learning	5	0	0	5
SOC	221	Family	3	0	0	3
			12	0	15	17

TOTAL QUARTER HOURS 121

*If students, as a result of placement tests, are found to be deficient in math and English skills, they will be required to take the appropriate courses from the following list:

ENG 100R-1, 100R-2, 100R-3, 100R-4, 100G, 100G-A, 101-A, 102-A; MAT 099.

**The early childhood associate student may select elective credits from the list of recommended electives or from other related courses and make course substitutions from appropriate subject areas on a credit-for-credit basis upon approval by the student's department chairperson.

RECOMMENDED ELECTIVES:

BUS 110, 112, 134; CAT 110; ECO 102; ENG 105, 106; PHY 120; POL 102; PSY 206; SOC 103; SSC 101; COE 100; and/or any college transfer course as approved by the department chairperson. Students may elect to participate in Cooperative Education Field Experience: COE 101-106.

EDUCATIONAL ASSOCIATE

This curriculum is designed to prepare students as assistants to classroom teachers in social and educational fields. The program provides a course of study for individuals who have the desire and capability to work with primary and elementary school children under the supervision of the classroom teacher. Study and application will be employed in areas such as language arts, math, child growth and development, curriculum activities, and preparation of educational materials.

The graduate of the Education Associate Program will be qualified to enter the field of education as a paraprofessional, performing duties required of a teacher aide. The role of the teacher aide will vary from school to school. The aide may be assigned as a general instructional aide, clerical aide, or tutorial aide, depending on the particular needs of the school.

EDUCATIONAL ASSOCIATE SUGGESTED CURRICULUM BY QUARTERS

			_		-	~
FIRST	QUAR	RTER COURSE TITLE	С	L	CL	СН
EDU	102	Child Health and Safety	3	0	0	3
EDU	103	Preschool Orientation	1	0	6	3
MAT	100R	Computational Skills	5	0	0	5
PSY	115	Child Growth and Development:				
1.1		Prenatal-Early Childhood	3	0	0	3
SPH	150	Voice and Diction	3	0	0	_3
			15	0	6	17
ECO	ND Q	UARTER				
BUS	102	Beginning Typewriting	2	3	0	3
DU	104	Preschool Observation	1	0	6	3
DU	231	Creative Activities	5	0	0	5
NG	101	Grammar	3	0	0	3
PSY	116	Child Growth and Development:				
		Middle Childhood-Adolescence	3	0	0	3
PSY	102	General Psychology	3	0	0	_3
			17	3	6	20
HIR	D QUA	ARTER	-	0	0	5
DU	111	Language Arts Techniques I	5	0	0	2
DU	115	Audiovisual and Media Instruction	3	0	0	2
NG	102	Composition	3	0	0	5
OC	101	Introduction to Sociology	5	0	0	3
		**Elective				
			19	0	0	19
4						
OUI	RTH Q	UARTER	F	0	0	5
DU	203	Exceptional Child	2	0	0	3
NG	103	Report Writing	5	0	0	4
		**Elective				12
			12	0	0	12

FIFTH	QUAR	TER COURSE TITLE	С	L	CL	СН
EDU	202	Discipline Strategies in the Classroom	3	0	0	3
EDU	212	Language Arts Techniques II	5	0	0	5
EDU	224A	Seminar-Practicum: Elementary School	1	0	15	· 6
MAT	210	Concepts of Elementary Math	_5	_0	_0	5
			14	0	15	19
SIXTH		TER				
ECÓ	108	Consumer Economics	3	0	0	3
EDU	204	Parent Education	3	0	0	3
EDU	224B	Seminar-Practicum: Elementary School	1	0	15	6
EDU	250	Introduction to Education	_4	_2	_0	_5
			11	2	15	17
SEVEN	NTH QU	ARTER				
EDU	224C	Seminar-Practicum: Elementary School	1	0	15	6
ENG	217	Children's Literature	3	0	0	3
PSY	220	Psychology of Learning	5	0	0	5
SOC	221	Family	_3	_0	_0	3
			12	0	15	17
ΤΟΤΑ		RTER HOURS				. 121

ENG 100R-1, 100R-2, 100R-3, 100R-4, 100G, 100G-A, 101-A, 102-A; MAT 099.

**The educational associate student may select elective credits from the list of recommended electives or from other related courses and make course substitutions from appropriate subject areas on a credit-for-credit basis upon approval by the student's department chairperson.

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RECOMMENDED ELECTIVES:

BUS 110, 112, 134; CAT 110; ECO 102; ENG 105, 106; PHY 120; POL 102; PSY 206; SOC 103; SSC 101; COE 100; and/or any college transfer course as approved by the department chairperson. Students may elect to participate in Cooperative Education Field Experience: COE 101-106.

ELECTRONIC DATA PROCESSING: BUSINESS

The Electronic Data Processing: Business curriculum provides the student with financial competence in the solution of business data processing problems using the computer. An understanding of business operations, techniques of handling data, and development of management information systems is combined with experience in computer programming through extensive laboratory work. The related skills, such as business mathematics, accounting, English, and communications are part of the curriculum to give the student the basic abilities of all well-qualified technicians.

ELECTRONIC DATA PROCESSING: BUSINESS SUGGESTED CURRICULUM BY QUARTERS

TIDOT	0114		C		CH
FIRSI	QUA	KIEK COURSE IIILE	2	L 0	2
EDP	114	Introduction to Computer Concepts	с С	4	2
EDP	115	FORTRAN	۲ ۲	4	-4 E
MAI	110	Business Mathematics	с Э	0	2
ENG	101	Grammar	2	0	2
		**Business Elective			
			16	4	18
SECO	ND C	DUARTER			
ACT	150	Principles of Accounting	3	2	4
BUS	166	Business Law I	3	0	3
EDP	223	Introduction to RPG II	2	4	4
ENG	102	Composition	3	0	3
		**Business or Social Science Elective	3	0	3
			14	6	17
THIR	d qu	ARTER			
ACT	151-	Principles of Accounting	3	2	4
EDP	118	COBOL I	2	4	4
EDP	224	RPG II	2	4	4
ENG	204	Oral Communications	3	0	3
		**Business or Social Science Elective			
			13	10	18
FOU	оты с	NIADTED			
ACT	152	Principles of Accounting	3	2	4
FDP	214	Computer Systems 1	2	2	3
EDP	110	COBOL II	2	4	4
MAT	111	Computer Mathematics	5	0	_5
		computer mathematics	12	8	16
FIFTH	I QU/	ARTER	2	2	А
BUS	225	Cost Accounting	3	2	7
BUS	235	Business Management	3	4	4
EDP	211	Applications I	2	0	3
ENG	206	Business Communications	3	0	3
		**Business or Social Science Elective			
			14	6	1/

SIXTH	I QUA	RTER COURSE TITLE	С	L	C
EDP	212	Applications II	2	4	4
EDP	230	Internship I	0	10	5
EDP	231	Internship II	0	10	5
EDP	232	Communications Control Programming	_2	_2	3
			4	26	17

TOTAL QUARTER HOURS 103

*If students, as a result of placement tests, are found to be deficient in math and English skills, they will be required to take the appropriate courses from the following list:

ENG 100R-1, 100R-2, 100R-3, 100R-4, 100G, 100G-A, 101-A, 102-A; MAT 099, 100R.

**The electronic data processing student may select elective credits from the list of recommended electives or from other related courses and make course substitutions from appropriate subject areas on a credit-for-credit basis upon approval by the student's department chairperson.

RECOMMENDED ELECTIVES:

BUS 101, 116, 134, 150, 151, 152, 153, 222, 229, 272; COE 100, 101A, 106D; ECO 102, 104, 108; ENG 103, 105; EDP 111, 116, 117; MAT 180; PSY 102, 206; SOC 102, 103; SSC 101



ELECTRONICS ENGINEERING TECHNOLOGY

This curriculum provides a basic background in electronic theory with practical applications for business and industry. Courses are designed to develop competent electronics technicians who may take their places as assistants to engineers or as liaison between engineers and the skilled craftsmen.

The electronics technician may start in research, design, development, production, maintenance, or sales. Possible starting positions include assistant to an engineer, engineering aide, laboratory technician, supervisor, and equipment specialist. Maintaining liaison between the engineer and the skilled craftsman may also be the responsibility of the electronics technician. Training provided in this curriculum program is similar to training received by engineers, but has less depth and is more practical in application.

ELECTRONICS ENGINEERING TECHNOLOGY SUGGESTED CURRICULUM BY QUARTERS

FIRST	QUA	RTER COURSE TITLE	С	L	СН
DFT	101	Technical Drafting	0	6	2
ENG	101	Grammar	3	0	3
ELN	100	Introduction to Electronics	3	2	4
MAT	101	Algebra I	5	0	5
MEC	112	Machine Shop Processes	_1	_3	_2
			12	11	16
SECO	ND Q	UARTER			
DFT	102	Technical Drafting	0	6	2
ELC	101	Fundamentals of Electricity 1	4	4	6
ENG	102	Composition	3	0	3
MAT	102	Trigonometry	5	0	5
PHY	101	Technical Physics			
			16	12	21
THIR	D QU	ARTER	-		7
ELC	102	Fundamentals of Electricity II	5	4	2
ENG	204	Oral Communications	3	0	5
MAT	103	Algebra II	D D	2	5
PHY	102	Technical Physics	-4		
			17	6	20
FOU	хтн с	UARTER			2
ELN	101	 Electronic Instruments and Measurements 	1	4	2 7
ELN	105	Control Devices	5	4	5
MAT	104	Calculus I	5	2	5
PHY	104	Technical Physics	4	2	3
		**Social Science Elective			
			18	10	23

FIFTH		TER COURSE TITLE	С . С	L	CH
ENG	103	Report Writing	3	0	3
ELC	210	Rotating Devices	2	2	3
ELN	205	Application of Vacuum Tubes and Transistors	5	6	8
MAT	201	Calculus II	_5	_0	_5
			15	8	19
SIXTH	I QUAR	TER			
ELN	210	Semiconductor Circuit Analysis	5	4	7
ELN	211P	Communication Circuits	4	4	6
ELN	214	Fundamentals of Digital Electronics I	3	3	4
	*	*Social Science Elective	_3	_0	_3
			15	11	20
SEVEN	NTH QU	ARTER			
ELN	215	Fundamentals of Digital Electronics II	3	· 3	4
ELN	220	Electronic Systems	5	· 4	7
ELN	235	Industrial Instrumentation	3	3	4
	*	*Technical Elective	0-3	3-7	2-4
			11-14	13-17	17-19
TOTA		RTER HOURS		13	36-138

ENG 100R-1, 100R-2, 100R-3, 100G, 100G-A, 101-A, 102-A; MAT 099, 100R, 100.

**The electronics technology student may select elective credits from the list of recommended electives or from other related courses and make course substitutions from appropriate subject areas on a credit-for-credit basis upon approval by the student's department chairperson.

104 RECOMMENDED ELECTIVES:

ELN 218, 230, 245; ENG 105; PSY 102, 206; SOC 102, 103; SSC 101; COE 100

ENERGY TECHNOLOGY

Since the early 1960's predictions have been echoing an impending energy crisis resulting in electrical brownouts and shortages of gasoline, diesel fuel, and heating oil. The reality of these predictions and the skyrocketing prices of energy have given rise to the need for more technically trained energy specialists.

The Energy Technology Program is a two-year technical curriculum designed to give a technical background resulting in an associate of applied science degree. A graduate will be prepared to work with industry, contractors, and government agencies performing services related to energy utilization, production, conservation, and management. Energy technologists are capable of performing various technical functions including: conducting audits, monitoring facility operations for energy efficiency, operating and servicing energy management systems and devices, assisting engineering staff in energy utilization and management, and making energy-related recommendations including cost-benefit analysis.

ENERGY TECHNOLOGY SUGGESTED CURRICULUM BY QUARTERS

FIRST	OUA	RTER COURSE TITLE	С	L	СН
ARC	106	Architectural Drafting	2	6	4
CIV	105	Architectural Materials and Methods I	3	3	4
ENIC .	101	Grammar	3	0	3
ENG	101	Energy Tachnology	2	2	3
EGI	101	Algebra	5	0	5
"MAT	101	Algebra I	15	11	19
SECO	ND Q	UARTER		0	2
DFT	106	Blueprint Reading and Technical Sketching	2	0	° 2
ENG	102	Composition	3	0	3
ELN	110	Fundamentals of Electricity and Electronics	2	4	4
MAT	102	Trigonometry	5	0	5
PHY	101	Technical Physics		_2	5
			16	6	19
THIR	D QU	ARTER	2	2	3
EGY	109	Mechanical Devices and Building Systems	2	0	3
ENG	103	Report Writing	2	2	3
ELN	111	Electronic Components and Systems	2	2	5
PHY	102	Technical Physics	4	0	3
PSY	206	Applied Psychology			
			14	6	1/

FOUR	TH QU	JARTER COURSE TITLE	С	L	Cŀ
EDP	111	Basic Programming	2	2	19
EGY	110	Energy Audits and Procedures	2	2	3
EGY	111	Energy Conservation Techniques	2	2	3
EGY	112	Special Projects: Energy	1	6	3
or					
COE	101C	Cooperative Education Intern	0	30	3
MAT	103	Algebra II	5	0	5
			12	12-36	17
FIETH	OUAR	TER			
AHR	101	Air Conditioning and Refrigeration	3	з	4
CHM	101	Chemistry	5 4	2	7
FIN	201	Microcomputer Concepts	2	2	3
PHY	103	Technical Physics	4	2	5
	105	reconneur mysics			
			13	9	17
SIXTH		RTER			
BUS	272	Principles of Supervision	3	0	3
ELN	202	Microcomputer Hardware	2	2	3
EGY	201	Fundamentals of Solar Energy	- 2	2	3
EGY	203	Energy Management and Planning	3	0	3
ENG	204	Oral Communications	3	0	3
		**Elective	_3	0	3
			16	4	18
SEVEN	TH QL	JARTER			
ECO	201	Cost Benefit Analysis (Energy)	3	0	3
EGY	202	Solar Energy Applications	2	3	3
EGY	205	Alternate Energy Sources	2	2	3
ELN	236	Instrumentation and Controls	2	2	3
		**Social Science Elective	3	0	3
		**Elective	3	0	3
			15	7	18
ΤΟΤΑ	L QUA	RTER HOURS			. 125

ENG 100R-1, 100R-2, 100R-3, 100G, 100G-A, 101-A, 102-A; MAT 099, 100R, 100.

**The energy technology student may select elective credits from the list of recommended electives or other related courses and make course substitutions from appropriate subject areas on a credit-for-credit basis upon approval by the student's department chairperson.

RECOMMENDED ELECTIVES:

106

ENG 105; PSY 101, 102, 206; SOC 101, 102, 103; SSC 101; COE 100
GENERAL OFFICE TECHNOLOGY

The General Office Technology Curriculum is designed to prepare students for a variety of office-related jobs that do not require shorthand. Machine transcription is stressed and the usual skills courses such as typewriting, office machines, and word processing are supplemented with general education courses as well as other related business courses.

The graduate of the General Office Technology Curriculum will be trained for jobs such as transcribing-machine operator, file clerk, clerk-typist, accounting clerk, bookkeeper, word processor, general office worker, receptionist, sales clerk, and a variety of related jobs.

GENERAL OFFICE TECHNOLOGY SUGGESTED CURRICULUM BY QUARTERS

FIRST	OUA	RTER COURSE TITLE	C	L	СН
BUS	100	Business Education Orientation	1	0	1
BUS	102	Beginning Typewriting	2	3	3
COE	100	Student, Career, and Society	3	0	3
*ENG	1015	Secretarial Grammar	5	0	5
ENG	106	Spelling Techniques	3	0	3
			14	3	15
SECO	ND Q	UARTER			
BUS	103	Intermediate Typewriting	2	3	3
BUS	231	Sales and Inventory Procedures	3	0	3
ENG	102	Composition	3	0	3
EDP	114	Introduction to Computer Concepts	3	0	3
*MAT	110	Business Mathematics			
	-		16	3	17
THIR	D QU/	ARTER			2
BUS	104	Advanced Typewriting	2	3	3
BUS	112	Filing	3	0	3
BUS	117	Office Machines	3	2	4
BUS	134	Personal Grooming	3	0	3
ENG	204	Oral Communications	3		
			14	5	16
FOU	RTH Q	UARTER	2	2	4
ACT	150	Principles of Accounting	3	2	-4
BUS	113	Machine Transcription I	5	2	3
BUS	258	Speed Typewriting	2	0	3
ENG	206	Business Communications	3	0	3
		**Business Elective			
			10	6	18

FIFTH	QUA	RTER COURSE TITLE	С	L	CH
BUS	114	Machine Transcription 11	5	0	5
BUS	216	Office Procedures	5	0	5
ECO	108	Consumer Economics	3	0	3
		**Social Science Elective	. 3	0	3
		**Business Elective	_3	_0	3
			19	0	19
SIXTH QUARTER					
BUS	205	Production Typewriting	2	3	3
BUS	213	Machine Transcription III	- 5	0	5
BUS or	215	Office Application			
COE	101A	Cooperative Education Field Experience	0	10	1
BUS	259	Office Simulation	2	3	3
		**Business Elective	3	_0	_3
			12	16	15
ΤΟΤΑ	LQUA	ARTER HOURS			. 100

ENG 100R-1, 100R-2, 100R-3, 100R-4, 100G, 100G-A, 101, 101-A, 102-A; MAT 099, 100R.

**The general office technology student may select elective credits from the list of recommended electives or from other related courses and make course substitutions from appropriate subject areas on a credit-for-credit basis upon approval by the student's department chairperson.

RECOMMENDED ELECTIVES:

BUS 106, 107, 108, 206, 207 (and accompanying labs), 123, 151, 152, 166, 167, 183L, 184M, 235; ECO 150, 151; EDP 114; ENG 105; PSY 101, 102, 206; POL 102, 103; SOC 102, 103; SSC 101

HUMAN SERVICES TECHNOLOGY

The greatest challenge in the field of human services is to help people rediscover a meaningful and productive life. Human service workers are people who like to work with people. The student learns how to deliver services to the client or help others meet their human needs. Problem-solving skills, both performance and conceptual, are learned in the classroom work and in practical experience throughout the field placement agencies. The student will grow academically, personally, and professionally.

The human services program is a two-year course of study leading to an associate of applied science degree. Graduates are qualified to take the N. C. Department of Human Resources Examination to qualify for many state positions in human service agencies and institutions. Jobs are possible in mental retardation centers, mental hospitals, mental health centers, developmental day care centers, school systems, and many other agencies.

HUMAN SERVICES TECHNOLOGY SUGGESTED CURRICULUM BY QUARTERS

FIRST		RTER COURSE TITLE	С	L	СН
+ENG	101	Grammar	- 3	0	3
HSA	111	Introduction to Human Services	3	3	4
HSA	112	Group Processes I	1	3	2
PSY	150	General Psychology I	3	0	3
SOC	150	Sociology I	_5	_0	5
			15	6	17
SECO		JARTER			
+ENG	102	Composition	3	0	3
HSA	100	Basic Health Science	3	0	3
HSA	112P	Practicum I	1	6	3
HSA	113	Group Processes II	1	3	2
HSA	220	Activities in Human Services	2	2	3
PSY	211	Behavior Disorders	5		
			15	11	19
THIR	D QUA	ARTER	2	0	2
ENG	103	Report Writing	3	0	3
HSA	113P	Practicum II	1	0	3
HSA	114	Interviewing and Counseling	3	2	4
PSY	120	Human Growth and Development	3	0	5
PSY	222	Exceptionality	5		
			15	8	18
FOU	RTH Q	UARTER	1	30	14
LICA	115	Field Internship	1	55	

FIFTH	QUART	ER COURSE TITLE	С	L	Cł
+ENG	204	Oral Communications	3	0	
MHA	211P	Practicum IV	1	6	,
PSY	151	General Psychology II	3	0	
PSY	230	Psychology and Physiology of Aging	3	0	
SOC	160	Courtship and Marriage	5	0	!
000	**.	+Elective			1-:
			15		10 21
			15	0	10-20
SIXTH	OUARI	FR			
мна	201	Mental Health Care	4	3	L
мна	215P	Practicum V	1	6	
DSV:	2731	Learning and Behavior	3	4	t
PSV	225	Tests and Measurements	3	0	-
151	**.	+Elective		Ŭ	1-1
		Liective			
			11	13	17-19
SEVEN	ITH QU/	ARTER			
МНА	209	Treatment Modalities	2	4	4
МНА	116	Group Processes III	1	3	2
МНА	215	Mental Health Seminar	2	2	3
мна	225	Crisis Intervention	3	0	3
	**.	+Elective			1-3
			8	9	13-15
τοτα	LOUAR	TER HOURS		1	16-122

ENG 100R-1, 100R-2, 100R-3, 100G, 100G-A, 101-A, 102-A.

+College transfer courses may be substituted.

**The human services associate/mental health associate student may select elective credits from the list of recommended electives or from other related courses and make course substitutions from appropriate subject areas on a credit-for-credit basis upon approval by the student's department chairperson.

RECOMMENDED ELECTIVES:

110

BUS 102; EDU 203, 204, 231; ENG 105; MHA 131, 132, 133, 208, 210P, 213, 231, 232, 233, college transfer courses; COE 100. Students may elect to participate in cooperative education field experience: COE 101-106. (Cooperative Education courses do not qualify for veterans' benefits.)

INDUSTRIAL MAINTENANCE TECHNOLOGY

The Industrial Maintenance Technology curriculum is designed to educate students in technical areas in which there is a need for trained and skilled people. This program is designed to prepare graduates for employment as industrial maintenance technologists. Training in theory and practical skills will provide the knowledge needed to inspect, diagnose, repair, and install industrial, electrical, and mechanical equipment. Special emphasis will be in using hand tools and metal working machines and in checking the work with measuring and testing instruments. The Industrial Maintenance Technology curriculum is flexible in that courses in major fields may be supplemented by a wide selection of courses in related curricula such as welding, machine shop, hydraulics and pneumatics, metallurgy, and electricity.

INDUSTRIAL MAINTENANCE TECHNOLOGY SUGGESTED CURRICULUM BY QUARTERS

FIRST	QUART	ER COURSE TITLE	С	L	СН
ELC	112	Alternating and Direct Current	2	6	4
MAT	100	Review of Fundamental Mathematics	5	0	5
			7	6	9
SECO	ND QU	ARTER			
ELC	113	Alternating Current and Direct Current Machines			
		and Controls	2	6	4
PHY	120	Introduction to the Metric System	3	0	3
WLD	120	Oxyacetylene Welding	_2	_3	
			7	9	10
THIR	D QUAR	TER	-	c	
ELC	119	Industrial Electrical Controls and Systems	2	6	4
*ENG	101	Grammar	3	0	3
ISC	102	Industrial Safety			
			8	6	10
FOUI	RTH QU	ARTER		-	2
ELC	121	Electrical Trouble Shooting	2	3	3
WLD	121	Arc Welding	_2		-4
			4	9	7
FIFTH		TER	2	0	3
DFT	104	Blueprint Reading: Mechanical	3	0	3
ENG	204	Oral Communications	3	2	4
MEC	101	Machine Processes			
			9	3	10

SIXTH	QUAR	TER COURSE TITLE	С	L	СН
DFT	105	Blueprint Reading and Sketching	3	0	3
ISC	201	Industrial Organization and Management	3	0	3
MEC	102	Machine Processes	3	3	_4
			9	3	10
CEVEN		ADTED			
SEVEN	101	Air Conditioning and Pofrigoration	3	3	4
	101	Air Conditioning and Keingeration	3	3	4
MEC	210	Physical Metanurgy		-	-
			6	6	8
EIGH.	TH QUA	RTER			
MEC	114	Shop Practice	1	6	3
MEC	222	Rigging and Material Handling	2	3	3
			3	9	6
NINT	H QUAI	RTER	2	0	2
BUS	272	Principles of Supervision	3	0	3
WLD	122	Commercial and Industrial Practice	2	3	с 2
		*Elective			
			8	3	9
TENT		RTER			
ISC	205	Maintenance Management	3 .	· 0	3
MEC	235	Hydraulics and Pneumatics	3	3	4
PSY	206	Applied Psychology	3	0	3
			9	3	10
			Ĵ		
ELEVE	NTH Q	UARTER			
ISC	202	Quality Control	3	0	3
MEC	298	Maintenance Problems I	2	3	3
	4	**Social Science Elective	3	_0	3
			8	3	9
TIA/FI		LADTED			
	201	Principles of Heating	2	3	4
MEC	201	Maintenance Problems II	2	3	3
WILC	295	**Social Science Elective	2	0	3
		Social Science Liective			
			8	6	10
TOTA		RTER HOURS			. 108

ENG 100R-2, 100R-3, 100R-4, 100G, 100G-A, 101-A, 102-A; MAT 099, 100R.

**The industrial maintenance student may select elective credits from the list of recommended electives or from other related courses and make course substitutions from appropriate subject areas on a credit-for-credit basis upon approval by the student's department chairperson.

RECOMMENDED ELECTIVES:

112

DFT 101; EDP 114; ENG 105; ISC 110, 120, 130, 140, 150, 160, 209, 231; MAT 101; PSC 102; PSY 101, 102, 104, 120, 217, 228; SOC 101, 102, 103, 104; SSC 101; COE 100

INDUSTRIAL MANAGEMENT TECHNOLOGY

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

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

The curriculum is designed for presently employed persons who wish to attend courses and work toward a degree in the evening. On-thejob training is a desirable and recommended part of the program.

The supervisor coordinates the activities of workers in one or more occupations. Duties may encompass interpreting company policies to workers, planning production schedules, estimating time required for job completion, adjusting work problems and motivating workers to achieve work goals.

113

INDUSTRIAL MANAGEMENT TECHNOLOGY SUGGESTED CURRICULUM BY QUARTERS

FIRST		RTER COURSE TITLE	C	L	CH
EDP	114	Introduction to Computer Concepts	3	0	3
*ENG	101	Grammar	3	0	3
ISC	110	Readings in Industrial Management	1	0	1
*MAT	101	Algebra I	5	0	5
			12	0	12
SECO	ND Q	UARTER			
ENG	102	Composition	3	0	3
ISC	120	Readings in Industrial Management	1	0	1
ISC	231	Manufacturing Processes	5	0	5
PHY	120	Introduction to the Metric System	3	0	3
			12	0	12

THIR		RTER COURSE TITLE	С	L	СН
BUS	128	Basic Accounting I	3	0	3
ENG	103	Report Writing	3	0	3
ISC	102	Industrial Safety	3	0	3
ISC	203	Motion Economy	3	0	3
			12	0	12
FOUF	RTH QU	ARTER			
BUS	129	Basic Accounting II	3	0	3
ENG	204	Oral Communications	3	0	3
ISC	202	Quality Control	3	0	3
ISC	204	Value Analysis	$\frac{3}{12}$	0	$\frac{3}{12}$
PILC	122	IEK Rusiness Einanse	з	0	3
DUS	123	Rusiness Finance	2	0	3
BUS ECO	100	Economics I	3	0	3
600	100	Economics i Social Brobloms	3	0	3
300	105	Social Problems	$\frac{3}{12}$	0	12
SIXTE		TER			
BUS	229	Taxes	3	2	4
ECO	151	Economics II	3	0	3
ISC	130	Readings in Industrial Management	1	0	1
ISC	213	Production Planning	4	0	4
		0	11	2	12
SEVE	NTH QL	JARTER			
BUS	235	Business Management	3	0	3
BUS	239	Marketing	5	0	5
ISC	209	Plant Layout	_4	0	_4
			12	0	12
EIGH	TH QU	ARTER			
BUS	272	Principles of Supervision	3	0	3
DFT	101	Technical Drafting	1	3	2
ISC	232	Labor Relations	4	0	4
PSY	206	Applied Psychology	3	0	3
			11	3	12
TOT	AL QUA	RTER HOURS			96

ENG 100R-1, 100R-2, 100R-3, 100G, 100G-A, 101-A, 102-A; MAT 099, 100R, 100.

114

The industrial management technology student may select additional elective credits from approved courses and make course substitutions on a credit-for-credit basis upon approval by the student's department chairperson.

Cooperative Education credits may substitute for social science and reading courses on a credit-for-credit basis up to nine hours maximum.

MEDICAL SECRETARY: MACHINE TRANSCRIPTION OPTION

The purposes of the Medical Secretarial curriculum are to prepare the individual to enter the medical secretarial profession through work in a doctor's office in city, county, state or government offices; provide an educational program for individuals wanting education for upgrading (moving from one medical position to another) or retraining (moving from present position to medical secretarial position); and provide an opportunity for individuals wanting to fulfill professional or general interest needs.

These purposes will be fulfilled through skill development in the areas of medical typewriting, machine transcription, and machines operation. Through these skills, the individual will be able to perform medical, office-related activities and through the development of personal competencies and qualities will be provided the opportunity to enter the medical secretarial profession.

MEDICAL SECRETARY: MACHINE TRANSCRIPTION OPTION SUGGESTED CURRICULUM BY QUARTERS

FIRST		TER COURSE TITLE	С	L	CH
BIO	101	Basic Life Sciences	4	2	5
BUS	102	Beginning Typewriting	2	3	3
*ENG	1015	Secretarial Grammar	5	0	5
*MAT	110	Business Mathematics	5	0	5
			16	5	18
SECO		ARTER			
ACT	150	Principles of Accounting	3	2	4
BUS	103	Intermediate Typewriting	2	3	3
BUS	117	Office Machines	3	2	4
BUS	184M	Terminology and Vocabulary: Medical I	3	0	3
ENG	106	Spelling Techniques	3	_0	3
			14	7	17
THIR		TER			2
BUS	104	Advanced Typewriting	2	3	5
BUS	113	Machine Transcription I	5	0	5
BUS	185M	Terminology and Vocabulary: Medical II	3	0	3
BUS	112	Filing	3	0	3
ENG	102	Composition	3		
			16	3	17
FOU	RTH QU	ARTER	2	0	2
BUS	134	Personal Grooming	3	2	5
BUS	188	Medical Transcription 1	4	2	2
BUS	186M	Terminology and Vocabulary: Medical III	3	2	2
BUS	258	Speed Typewriting	2	3	2
ENG	206	Business Communications	3		
			15	5	17

систы	OUART	FR COURSE TITLE	С	L	СН
PUS	216	Office Procedures	5	0	5
DUS	10214	Medical Typing Practice	2	3	3
BUS	100	Medical Transcription II	4	2	5
BUS	109	Electronic Keyboarding	2	3	3
BUS	191	Liuman Polations	3	0	3
PSY	104	numan kelations	16	8	19
SIXTH		FER	3	0	3
BUS	115M	Medical Ethics and Law	2	3	3
BUS	192	Word Processing Applications	õ	18	6
BUS	214A	Clinical Experience	0	10	U
or COE	101B	Cooperative Education Field Experience	0	20	2
DLIC	014B (F	Medical Transcriber Seminar	2	0	2
BUS	2140		7	21-23	10-14
TOT	AL QUAR	RTER HOURS		98	or 102

ENG 100R-1, 100R-2, 100R-3, 100R-4, 100G-A, 101, 101-A, 102-A; MAT 099, 100R.

The medical secretary student may make course substitutions from appropriate subject areas on a credit-for-credit basis upon approval by the student's department chairperson.



MEDICAL SECRETARY: SHORTHAND OPTION

The purposes of the Medical Secretarial curriculum are to prepare the individual to enter the medical secretarial profession through work in a doctor's office in city, county, state or government offices; provide an educational program for individuals wanting education for upgrading (moving from one medical position to another) or retraining (moving from present position to medical secretarial position); and provide an opportunity for individuals wanting to fulfill professional or general interest needs.

These people will be fulfilled through skill development in the areas of medical typewriting, shorthand and machine transcription, and machines operation. Through these skills, the individual will be able to perform medical, office-related activities and through the development of personal competencies and qualities will be provided the opportunity to enter the medical secretarial profession.

MEDICAL SEC	RETARY:	SHORTH	AND	OPTION
SUGGESTED	CURRIC	ULUM BY	' QUA	ARTERS

FIRST	QUAR	TER COURSE TITLE	С	L	СН
BIO	101	Basic Life Sciences	4	.2	5
BUS	102	Beginning Typewriting	2	3	3
ENG	1015	Secretarial Grammar	5	0	5
*MAT	110	Business Mathematics	_5	0	_5
			16	5	18
SECO	ND QU	ARTER			
PSY	104	Human Relations	3	0	3
BUS	103	Intermediate Typewriting	2	3	3
BUS	106	Beginning Shorthand	5	0	5
BUS	106A	Beginning Shorthand Lab	0	5	0
BUS	117	Office Machines	3	2	4
BUS	184M	Terminology and Vocabulary: Medical I	3	_0	
			16	10	18
THIR		TER			2
BUS	104	Advanced Typewriting	. 2	3	3
BUS	107	Intermediate Shorthand	5	0	5
BUS	107A	Intermediate Shorthand Lab	0	5	0
BUS	113	Machine Transcription I	5	0	. 5
BUS	185M	Terminology and Vocabulary: Medical II	3	0	
ENG	102	Composition			
			18	8	19
FOU	RTH QU	ARTER	-	0	E
BÚS	108	Dictation and Transcription	5	5	0
BUS	108A	Dictation and Transcription Lab	0	2	5
BUS	188	Medical Transcription I	4	0	3
BUS	186M	Terminology and Vocabulary: Medical III	2	3	3
BUS	258	Speed Typewriting	2	0	3
ENG	206	Business Communications			10
			17	10	19

FIFTH	QUART	ER COURSE TITLE	C	L	CH
ACT	150	Principles of Accounting	3	2	4
BUS	216	Office Procedures	5	0	5
BUS	189	Medical Transcription II	4	2	5
BUS	191	Electronic Keyboarding	2	3	3
			14	7	17
SIXTH		FER			
BUS	112	Filing	3	0	3
BUS	115M	Medical Ethics and Law	3	0	3
BUS	192	Word Processing Applications	2	3	3
BUS	214A	Clinical Experience	0	18	6
or					
COE	101B	Cooperative Education Field			
		Experience	0	20	2
BUS	214B	Medical Transcriber Seminar	_2	0	2
			10	21-23	13-17
TOTA				104	or 108

ENG 100R-1, 100R-2, 100R-3, 100R-4, 100G-A, 101, 101-A, 102-A; MAT 099, 100R.

The medical secretary student may make course substitutions from appropriate subject areas on a credit-for-credit basis upon approval by the student's department chairperson.



PARALEGAL TECHNOLOGY

The increased need for legal services in all aspects of law has placed a heavy demand on attorneys' time. In response to this situation, a special committee of the American Bar Association has recommended the use of paralegals to relieve the lawyers of many routine legal matters.

Paralegals are highly trained men and women who occupy an important position in the legal profession. Neither legal secretaries nor practicing attorneys, they are trained specialists who have studied legal procedure and can apply their knowledge as important members of the legal service team. Paralegal graduates will be able to assist the attorney in many facets of law, including work on probate matters, conducting investigations, documents, bookkeeping, library research, and providing office management. In no case will the paralegal give legal advice, enter into courtroom procedure, or be involved in litigation.

Pitt Community College has been approved to offer the paralegal program by the North Carolina State Bar, the Third Judicial District Bar, and the Pitt County Bar. Its curriculum developed in conjunction with an advisory board of prominent practicing attorneys offers a balanced course of study in law, accounting, management, and investigation. These courses will provide both the theoretical knowledge and practical skills necessary for a career as a paralegal.

Evening Program

In addition to the regular day curriculum program, the paralegal degree program is offered during the evening in order that working secretaries and other interested persons might obtain a degree or upgrade their skills in the paralegal area.

In recognition that persons attending the evening program usually have to divide their time between their job, family, social responsibilities, and school, evening students will take approximately one-half of a full-time day student's load. With this reduction in load, evening students should expect to take between three and four years to complete the degree requirements.

PARALEGAL CURRICULUM SUGGESTED CURRICULUM BY QUARTERS

FIRST Q	UAR	RTER COURSE TITLE	С	L	Cŀ
BUS 1	02	Beginning Typewriting	2	3	3
*CJC 1	01	Introduction to Criminal Justice	5	0	
CJC 1	12	Motor Vehicle Laws	3	0	-
CJC 1	15	Criminal Law I	3	0	3
HEA 1	10	First Aid and Medical Terminology	2	2	3
PSY 1	02	General Psychology	3	_0	
			18	5	20
SECON	D QI	JARTER			
CJC 1	09	Interviewing	3	0	-
CJC 1	16	Criminal Law II	3	0	-
CJC 1	20	Principles of Organization	3	0	
ENG 1	01	Grammar	3	0	
*MAT 1	01	Algebra	5	0	
POL 1	02	National Government	_3	_0	
			20	0	20
THIRD	QUA	RTER			
CJC 1	02	Legal Research I	3	0	1
CIC 1	13	Corrections Law	3	0	3
CIC 1	25	Criminal Procedure	3	0	:
ENG 1	02	Composition	3	0	1
ENG 2	204	Oral Communications	3	0	
POL 1	03	State and Local Government	3	0	
			18	0	18
FOURT	но				
CHM 1	01	Chemistry	А	2	ſ
ENG 2	206	Business Communications	3	Ô	
LEC 2	200	Legal Research II	3	0	
LEC 2	203	Family Law	3	0	
LEC 2	20	Torts	3	0	
LLC 2	-2-7	10103	16	2	
			10	<i></i>	
FIFTH C		RTER Principles of Assounting	2	2	
	005	Evidence		2	
	205	Criminalistics	3	. 0	
	211	Law Office Management	4	2	
LEC 2	207	Real Property and Title Abstracting I	3	0	
LEC 2	210	Real Property and Title Abstracting i	<u></u> 15	-2	
			51	0	10
SIXTH C		RTER Rusiness Law L	2	0	
	204	Evidence Photography	3	0	
ENC 1	102	Poport Writing	3	3	
LING I	03	Real Property and Title Abstraction U	. 3	0	
LEC 2	211	Estate Administration	2	2	-
LEC 2	232	Litigation Dropontier	3	0	-
LEC 2	240	Litigation Preparation		_0	-
			17	5	19

SEVE	NTH Q	UARTER COURSE TITLE	С	L	СН
BUS	167	Business Law II	3	0	3
CJC	210	Criminal Investigation	4	2	5
CJC	235	Forensic Science	3	2	4
LEC	212	Real Estate Transactions	2	2	3
LEC	229	Taxes	3	0	_3
			15	6	18
TOT		ARTER HOURS			120

ENG 100R-1, 100R-2, 100R-3, 100G, 100G-A, 101-A, 102-A; MAT 099, 100R, 100.

The Paralegal student may select elective credits from the list of recommended electives or from other related courses and make course substitutions from appropriate subject areas on a credit-for-credit basis upon approval by the student's department chairperson.

RECOMMENDED ELECTIVE:

LEC 250

*CJC 151, 152, 154, 155, 156 may be substituted for CJC 101 Introduction to Criminal Justice, which is a 5 credit-hour course.



RADIOLOGIC TECHNOLOGY

This curriculum is designed to meet the ever-increasing need for technologists in the rapidly growing branch of medicine known as radiology. The aim of the Radiologic Technology Program is to prepare qualified persons for positions in the area of radiologic technology and to prepare them for furthering their education, if they wish, in nuclear medicine, radiation therapy, other imaging modalities, or a baccalaureate program.

Students are selected on the basis of demonstrated aptitude for radiology, as determined by entrance tests, interviews with faculty members, high school records, character references, and physical examinations. Graduates of accredited programs are eligible for examination by the American Registry of Radiologic Technologists. After passing the examination, they are certified as registered technologists in x-ray technology and entitled to use the legal title Registered Technologist (R.T.). They are then eligible for membership in the American Society of Radiologic Technologists, an organization dedicated to maintaining high educational standards of training and professional stature.

Radiologic technologists work in hospitals, clinics, doctor's offices, public health institutions, and industrial medical clinics. They assist radiologists in the use of x-rays to examine for broken bones, ulcers, tumors, and disease or malfunctions of various organs.

The radiologic technologists take x-ray films called radiographs. They adjust radiographic equipment to the correct settings for a specific examination and position the patient and make, develop, and file the required number of radiographs.

X-ray technologists also aid the physician in administering chemical mixtures to the patient to make certain organs show up clearly in x-ray examinations. Technologists may need to use mobile x-ray equipment at a patient's bedside and in surgery.

RADIOLOGIC TECHNOLOGY SUGGESTED CURRICULUM BY QUARTERS

FIRST	QUART	ER COURSE TITLE	С	L	CL	CH
ENG	101	Grammar	3	0	0	3
MAT	101	Algebra I	5	0	0	5
SOC	102H	Principles of Sociology				
		(Health Professions)	3	0	0	3
BIO	107	Anatomy and Physiology I	4	2	0	5
RDT	101	Radiologic Technology I	4	2	0	5
PHY	107	Radiologic Physics	3	3	0	4
RDT	111	Clinical Education	2	0	6	4
			24	7	6	20

SECO	ND Q	UARTER COURSE TITLE	С	L	CL	СН
ENG	102	Composition	3	0	0	3
PSY	104	Human Relations	3	0	0	3
BIO	108	Anatomy and Physiology II	4	2	0	5
RDT	102	Radiologic Technology II	4	3	0	5
RDT	112	Clinical Education	1	0	15	6
EDP	111	BASIC Programming	2	2	0	3
					15	25
THIR	DQUA	ARTER				
ENG	103	Report Writing	3	0	0	3
RDT	103	Radiologic Technology III	4	2	0	5
BUS	272	Principles of Supervision	3	0	0	3
RDT	201	Topographic Anatomy	2	0	0	2
RDT	113	Clinical Education	1	0	24	9
			13	2	24	22
FOU						
PDT		Dadielegie Technology IV	4	2	0	-
RDT	204	Clinical Education	4	3	22	2 10
KDT	114	Clinical Education				12
			5	3	53	17
FIFTH		RTER				
RDT	215	Clinical Education	1	0	39	14
SIVE		DTED				
RUS	166	Business Law	3	0	0	3
BIO	208	Pathology	3	0	Ő	3
PDT	200	Padiologic Technology V	4	3	õ	5
PDT	205	Clinical Education	1	0	24	9
PSY	102	Ceneral Psychology	3	0	0	3
151	102	General rsychology	14			23
				9	2.	10
SEVE	NTH Q	UARTER				
RDT	206	Radiologic Technology VI	4	0	0	4
RDT	217	Clinical Education	1	0	36	13
			5	0	36	17
FIGH						
EIGH	HQL	JAKIEK	C	0	0	6
RDT	208	Radiologic Technology VII	0	0	33	12
KDT	218	Clinical Education				19
			/	0	55	10
TOTA	LOU	ARTER HOURS				. 165

The Radiologic Technology student may select elective credits from approved courses, and make course substitutions on a credit-for-credit basis upon approval by the student's department chairperson.

SECRETARIAL SCIENCE

The Secretarial Science curriculum is designed to offer students secretarial skills in typing, dictation, transcription, and terminology for employment in the business world. The special training in secretarial subjects is supplemented by related courses in mathematics, accounting, and personality development.

The graduate of the Secretarial Science curriculum should have a knowledge of business terminology, skill in dictation, and skill in transcription of business letters and reports. The graduate may be employed as a stenographer or a secretary. Stenographers are primarily responsible for taking dictation and transcribing letters, memoranda, or reports. The secretary, in addition to taking dictation and transcribing, is given more responsibility including meeting office callers, screening telephone calls, and assisting an executive. The graduate may enter a secretarial position in a variety of businesses such as insurance companies, banks, marketing institutions, and financial firms.

SECRETARIAL SCIENCE SUGGESTED CURRICULUM BY QUARTERS

FIRST	QUAF	RTER COURSE TITLE	С	L	СН
BUS	100	Business Education Orientation	1	0	1.
*ENG	1015	Secretarial Grammar	5	0	5
BUS	102	Beginning Typewriting	2	3	3
COE	100	Student Career and Society	3	0	3
ENG	106	Spelling Techniques	3	0	• 3
BUS	134	Personal Grooming	3	0	3
			17	3	18
SECO		UARTER			
ENG	102	Composition	3	0	3
BUS	103	Intermediate Typewriting	2	3	3
*MAT	110	Business Mathematics	5	0	5
BUS	106	Beginning Shorthand	5	. 0	5
BUS	106A	Shorthand Lab	0	5	0
BUS	113	Machine Transcription I	_5	_0	5
			20	8	21
THIR	D QUA	RTER			
ENG	204	Oral Communications	3	0	3
BUS	104	Advanced Typewriting	2	3	3
BUS	107	Intermediate Shorthand	5	0	5
BUS	107A	Shorthand Lab	0	5	0
BUS	114	Machine Transcription II	5	0	5
BUS	117	Office Machines	3	2	4
			18	10	20

FOU	RTH QU	JARTER COURSE TITLE	C	1	СН
ENG	206	Business Communications	3	0	2 Ch
BUS	108	Advanced Shorthand	5	0	5
BUS	108A	Shorthand Lab	0	5	0
ACT	150	Principles of Accounting	3	2	1
BUS	258	Speed Typewriting	5 2	2	4
ECO	108	Consumer Economics	R COURSE TITLECLiness Communications30vanced Shorthand50rthand Lab05iciples of Accounting32ed Typewriting23osumer Economics30idee Procedures30duction Typewriting23vg30iness Elective60ince Application23operative Education Field010iness Elective30iness Elective3	2	
			16	10	18
FIFTH		RTER			
BUS	216	Office Procedures	5	0	5
BUS	205	Production Typewriting	J 2	2	2
BUS	112	Filing	2	0	2
		**Business Elective	5	0	5
					-0
			16	3	17
SIXTH		RTER			
BUS	259	Office Simulation	2	3	3
BUS	271	Office Management	3	0	3
BUS or	215	Office Application			
COE	101A	Cooperative Education Field			
		Experience	0	10	1
	1	**Business Elective	3	0	3
			8	13	10
ΤΟΤΑ	LQUA	RTER HOURS			104

ENG 100R-1, 100R-2, 100R-3, 100R-4, 100G, 100G-A, 101, 101-A, 102-A; MAT 099, 100R.

*The secretarial science student may select elective credits from the list of recommended electives or from other related courses and make course substitutions from appropriate subject areas on a credit-for-credit basis upon approval by the student's department chairperson.

RECOMMENDED ELECTIVES:

BUS 123, 151, 152, 153, 160, 161, 162, 163, 164, 166, 167, 183L, 183M, 191, 192, 213, 229, 231, 235; ECO 150, 151; EDP 114; ENG 105; PSY 102, 103, 206; SSC 101









Vocational Education



AIR CONDITIONING, HEATING, AND REFRIGERATION

The Air Conditioning, Heating, and Refrigeration curriculum is designed to prepare the student to assist in planning, installing, operating, and maintaining air conditioning equipment. Technical information is presented and related skills are developed to enable the graduate to function efficiently when working with engineers, systems designers, skilled craftsmen, salesmen, and others in the field. Considerable emphasis is placed on self-development in an effort to encourage the graduate to continue to study and grow as the industry advances.

Air Conditioning, Heating, and Refrigeration technicians may be employed in areas of sales, installation, maintenance, production drafting, systems design, or research engineering (assistant). They work with equipment for regulating temperature and humidity and with control systems, ducts, and piping for distribution of air, water, steam, and refrigerants.

AIR CONDITIONING, HEATING, AND REFRIGERATION SUGGESTED CURRICULUM BY QUARTERS

FIRST	QUAR	TER COURSE TITLE	С	L	SH	CH
AHR	1121	Principles of Refrigeration	3	0	12	7
AHR	1107	Gas Laws: Refrigeration	2	0	3	3
*MAT	1101	Fundamentals of Mathematics	5	0	0	5
*ENG	1101	Reading Improvement	2	0	0	2
DFT	1104	Blueprint Reading: Mechanical	3	0	_0	3
			15	0	15	20
SECO	ND QU	ARTER				
AHR	1123	Principles of Air Conditioning	3	0	12	7
AHR	1115	Fundamentals of Heating	2	0	6	4
ENG	1102	Communication Skills	3	0	0	3
DFT	1116	Blueprint Reading: Air Conditioning	1	3	0	2
			9	3	18	16
THIRE	O QUAR	TER				
AHR	1122	Domestic and Commercial Refrigeration	3	0	6	5
AHR	1128	Automatic Controls	3	• 0 .	6	5
ELC	1102	Applied Electricity	3	3	0	4
PSY	1101	Human Relations	3	0	0	3
WLD	1102	Basic Gas Welding	0	0	3	1
			12	3	15	18

FOUF	RTH QU	JARTER COURSE TITLE	С	L	SH	СН
AHR	1124	Air Conditioning, Heating, and				
		Refrigeration Servicing	3	0	6	5
AHR	1126	All Year Comfort Systems	3	0	6	5
MEC	1120	Duct Construction and Installation	3	0	6	5
		**Elective	3	0	_0	_3
			12	0	18	18
TOTA		RTER HOURS				. 72

ENG 1000; MAT 0099, 1000.

*The Air Conditioning, Heating, and Refrigeration student may select elective credits from the list of recommended electives or from other related courses and make course substitutions from appropriate subject areas on a credit-for-credit basis upon approval by the student's department chairperson.

RECOMMENDED ELECTIVES:

BUS 1103, 1105; ELC 1126

Students may elect to participate in Cooperative Education field experience: COE 101-106.



AUTOMOTIVE MECHANICS

This curriculum provides a training program for developing the basic knowledge and skills needed to inspect, diagnose, repair, or adjust automotive vehicles. Manual skills are developed in practical shop work.

Automobile designs are rapidly changing as a result of differing buyer markets, rising fuel and production costs, and the passing of new state and federal regulations. To keep up with these changes, the auto mechanic must continue to update and add to his knowledge and skills in this area. The fundamentals of the diesel engine will be taught since this engine seems promising in the fight against pollution.

Automobile mechanics maintain and repair mechanical, electrical, and body parts of passenger cars, trucks, and buses. In some communities and rural areas, they may also service and/or inspect and test tractors and other farm vehicles or machines to determine the causes of faulty operation and repair or replace defective parts to restore the vehicles or machines to proper operating condition. They use shop manuals and other technical publications.

Automotive mechanics in smaller shops usually are general mechanics qualified to perform a variety of repair jobs. A large number of automobile mechanics specialize in particular types of repair work. For example, some may specialize in repairing only powr steering and power brakes, or repairing only automatic transmissions. Usually such specialists have a general knowledge of automotive repair and may occasionally be called upon to do other types of work.

AUTOMOTIVE MECHANICS SUGGESTED CURRICULUM BY QUARTERS

FIRST	QUAR	TER COURSE TITLE	С	L	SH	СН
*ENG	1101	Reading Improvement	2	0	0	2
*MAT	1101	Fundamentals of Mathematics	5	0	0	5
PME	1100	Engine Shop Practice	0	0	3	1
PME	1101	Internal Combustion Engine:				
		Gasoline and Diesel	5	0	12	9
			12	0	15	17
SECO	ND QU	ARTER				
ENG	1102	Communication Skills	3	0	0	3
MEC	1147	Systems of Measurement and				
		Measuring Tools	2	0	0	2
PHY	1103	Principles of Electricity	3	2	0	4
PME	1102	Electrical Systems	5	0	12	9
			13	2	12	18

THIR	D QUA	RTER COURSE TITLE	С	L	SH	СН
PME	1104	Fuel Systems: Gasoline and Diesel	5	0	9	8
PME	1123	Brake, Chassis, and Suspension	3	0	9	6
PSY	1101	Human Relations	3	0	0	3
			11	0	18	17
FOU	RTH QU	ARTER				
AHR	1101	Automotive Air Conditioning	3	0	6	5
PME	1124	Power Trains	3	Ő	9	6
WLD	1129	Basic Gas and Electric Welding	2	0	6	4
			8	0	21	15
FIFTH		TER				
PME	1125	Auto Servicing	3	0	9	6
PME	1204	Emission Controls	_5	0	_6	_7
			8	0	15	13
SIXTH		TER				
MEC	1112	Machine Shop Processes	1	0	3	2
PME	1202	Electricity/Electronics	3	0	9	6
PME	1227	Power Accessories	2 .	0	_6	_4
			6	0	18	12
SEVEN	NTH QU	ARTER				
PME	1224	Automatic Transmissions	5	0	12	9
PME	1230	Auto Service Excellence Test Review	_5	0	0	5
			10	0	12	14
ΤΟΤΑ		RTER HOURS				106

ENG 1000; MAT 0099, 1000.

The Automotive Mechanics student may select additional elective credits from approved courses and make course substitutions on a credit-for-credit basis upon approval by the student's department chairperson.

Students may elect to participate in Cooperative Education field experience: COE 101-106.

CARPENTRY AND CABINETMAKING

Carpentry is one of the basic trades in the construction field. Carpenters construct, erect, install, and repair structures of wood, plywood, and wallboard, using hand and power tools. The work must conform to local building codes for both residential and commercial structures.

The curriculum in carpentry is designed to train individuals to enter the trade with a background in both shop skills and related information. They must have knowledge of mathematics, blueprint reading, methods of construction, building materials, concrete form construction, rough framing, roof and stair construction, the application of interior and exterior trim, and the installation of cabinets and fixtures.

Most carpenters are employed by contractors in the building construction fields. Specialists may work as layout carpenters, framing carpenters, concrete form carpenters, scaffolding carpenters, accoustical and insulating carpenters, and finish carpenters.

CARPENTRY AND CABINETMAKING SUGGESTED CURRICULUM BY QUARTERS

FIRST	QUAR	TER COURSE TITLE	С	L	SH	СН
CAR	1101	Carpentry	3	0	15	8
DFT	1110	Blueprint Reading: Building Trades	3	0	0	. 3
*ENG	1101	Reading Improvement	2	0	0	2
*MAT	1101	Fundamentals of Mathematics	5	0	0	5
			13	0	15	18
SECO	ND QU	ARTER				
CAR	1102	Carpentry: Millwork and Cabinetmaking	3	0	15	8
DFT	1111	Blueprint Reading and Sketching I	3	0	0	3
ENG	1102	Communication Skills	3	0	0	3
MAT	1112	Building Trade Mathematics	3	0	0	3
			12	0	15	17
THIR	D QUAF	RTER				
CAR	1103	Carpentry: Framing	3	0	15	8
CAR	1113	Carpentry: Estimating	3	0	3	4
PSY	1101	Human Relations	3	0	0	3
			9	0	18	15
FOUR	TH QU	ARTER				
BUS	1103	Small Business Operations	3	0	0	3
CAR	1104	Carpentry: Finishing I	3	0	18	9
CAR	1114	Building Codes	3	0	0	3
			9	0	18	15
ΤΟΤΑ		RTER HOURS				. 65

ENG 1000; MAT 0099, 1000.

The Carpentry and Cabinetmaking student may select additional elective credits from approved courses and make course substitutions on a credit-for-credit basis upon approval by the student's department chairperson.

COSMETOLOGY

Cosmetologists perform many functions in providing beauty services for customers. These services may include styling, cutting, trimming, straightening, permanent waving, coloring, tinting, bleaching, and shampooing hair and wig styling and wig care services. They sometimes do make-up analysis, suggest cosmetology aids, and advise customers regarding what products to use and how to use them with the greatest benefits.

Designed to prepare the student for employment in the field of cosmetology, the cosmetology curriculum program provides instruction and practice in manicuring, facials, massages, scalp treatments; and shampooing, permanent waving, cutting, styling, pressing, chemical relaxing, thermal waving, and curling hair; and wig care services. The Cosmetology Program is approved by the North Carolina State Board of Cosmetic Art Examiners.

State laws and regulations require the completion of a minimum of 1200 contact hours of instruction in prescribed subject matter prior to applying to the State Board of Cosmetic Art Examiners for examination. For additional information pertaining to rules and regulations governing the Cosmetology program, contact the North Carolina State Board of Cosmetic Art Examiners, Box 1108, Raleigh, North Carolina.

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COSMETOLOGY SUGGESTED CURRICULUM BY QUARTERS

FIRS	T QUARI	ER COURSE TITLE	С	L	SH	СН
COS	1101	Cosmetology I	0	0	40	12
SECO	OND QU	ARTER			10	40
COS	1102	Cosmetology II	0	0	40	12
THIR	ID QUAR	TER		0	40	10
COS	1103	Cosmetology III	U	0	40	12
FOU	RTH QU	ARTER		0	40	10
COS	1104	Cosmetology IV	0	0	40	12
TOT		RTER HOURS				. 48

ELECTRICAL INSTALLATION AND MAINTENANCE

Electrical Installation and Maintenance program provides training in the basic fundamentals and practices involved in the electrical trades. A major portion of the program is devoted to laboratory and shop instruction designed to give the student practical knowledge and experience in applying the fundamentals taught in class.

Graduates of the electrical trades program will be qualified to enter an electrical trade as on-the-job trainees or apprentices, where they will assist in the planning, layout, installation, check out, and maintenance of systems in residential, commercial, or industrial plants. They will have an understanding of the fundamentals of the National Electric Code regulations as related to wiring installations, electrical circuits, and the measurements of voltage, current, power, and power factor of single and polyphase alternating circuits. They will have a basic knowledge of motor and motor control systems; industrial electronic control systems; business procedures, organization, and practices; communicative skills; and the necessary background to be able to advance through experience and additional training.

ELECTRICAL INSTALLATION AND MAINTENANCE SUGGESTED CURRICULUM BY QUARTERS

FIRST	QUAR	TER COURSE TITLE	C	: L	SH	СН
DFT	1110	Blueprint Reading: Building Trades	1	3 0	0	3
ELC	1112	Direct and Alternating Current	. 5	5 0	12	9
ELC	1114	Electrical Safety	3	3 0	0	3
*ENG	1101	Reading Improvement	2	2 0	0	~ 2
*MAT	1101	Fundamentals of Mathematics		<u> </u>	_0	_5
			18	3 0	12	22
SECO	ND QL	JARTER				
DFT	1113	Blueprint Reading and Sketching III	3	3 0	0	3
ENG	1102	Communication Skills	3	3 0	0	3
ELC	1113	Alternating Current and Direct				
		Current, Machines and Controls	5	5 0	12	9
PSY	1101	Human Relations	3	3 0	0	3
PHY	1101	Applied Science	3	3 2		4
			17	2	12	22
THIR	D QUA	RTER				
ELC	1124	Residential Wiring	5	5 0	9	8
ELN	1118	Industrial Electronics	3	8 0	6	5
MEC	1140	Hydraulic and Pneumatic Fundamentals	3	0	3	4
			11	0	18	17

FOU	FOURTH QUARTER COURSE TITLE			L	SH	СН
BUS	1103	Small Business Operations	3	0	0	3
ELC	1125	Commercial and Industrial Wiring	5	0	12	9
ELN	1119	Industrial Electronics	3	0	6	5
			11	0	18	17
TOT		PTER HOURS				70

ENG 1000; MAT 0099, 1000.

The Electrical Installation and Maintenance student may select additional elective credits from approved courses and make course substitutions on a credit-for-credit basis upon approval by the student's department chairperson.

Students may elect to participate in Cooperative Education field experience: COE 101-106.



ELECTRONIC SERVICING

Within recent years, rapid advances in electronics technology have created an increased need for skilled electronic service representatives. Individuals who expect to qualify as competent and up-to-date service representatives must expand their knowledge and skills to meet the job needs of the fast-growing electronics industry.

The Electronic Servicing Program provides training in the knowledge and skills required for the installation, maintenance, and servicing of electronic systems. A major portion of the time is spent in the laboratory verifying electronic principles and developing servicing techniques.

A service representative may be required to install, maintain, and service many types of electronic systems. The service representative may be employed in one or more of the following areas: electrician, radio and television servicing, broadcast technician, or as a technician in many industrial applications including manufacturing, quality control, and sales of electronic equipment. Other opportunities are available in other phases of industry depending upon the individual's interest and ability.

ELECTRONIC SERVICING SUGGESTED CURRICULUM BY QUARTERS

FIRST	QUAR	TER COURSE TITLE	С	L	SH	CH
DFT	1120	Drafting: Electronic Servicing	3	0	3	4
ELC	1112A	Direct Current Theory and Practice	5	0	15	10
*ENG	1101	Reading Improvement	2	0	0	2
*MAT	1101	Fundamentals of Mathematics	_5	_0	_0	_5
			15	0	18	21
SECO	ND QU	ARTER				
ELC	1112B	Alternating Current Theory and Practice	5	0	15	10
ENG	1102	Communication Skills	3	0	0	3
MAT	1102	Algebra	5	0	0	5
РНҮ	1101A	Applied Science	_2	_0	0	_2
			15	0	15	20
THIR		RTER				
ELN	1103	Introduction to Control Devices	5	0	15	10
ELN	1125	Radio Receiver Servicing	5	0	0	5
MAT	1103	Basic Geometry and Trigonometry	5	0	0	5
РНҮ	1101B	Applied Science	_1	_2		_2
			16	2	15	22
FOU	RTH QU	ARTER				
ELN	1127	Television Receiver Circuits and Servicing	10	0	18	16
TOTA		THOURS REQUIRED EORIONE VEAR DIRU		CDAA	A	70

Students who desire to complete the two-year advanced diploma program must first complete the four-quarter diploma program; then enroll full-time and complete the last three quarters, thereby earning an advanced diploma.

FIFTH	QUART	ER COURSE TITLE	С	L	SH	СН
ELN	1104	Application of Control Devices	5	0	15	10
ELN	1107	Communications	5	Ő	.0	5
ELN	1108	Digital Concepts	5	0	0	5
			10			
			15	0	15	20
SIXTH	QUARI	ER				
BUS	1103	Small Business Operations	3	0	0	3
ELN	1105	Industrial Electronics and Instrumentation	5	0	15	10
ELN	1111	Electronic Trouble-shooting	3	0	0	
		Ŭ	11	0	15	16
SEVEN	ITH QU/	ARTER				
ELN	1106	Maintenance and Analysis of Electronic				
		Systems	5	0	15	10
ELN	1109	Television Broadcasting	5	0	0	5
PSY	1101	Human Relations	3	0	0	3
			13	0	15	18
ΤΟΤΑ	L CREDI	T HOURS REQUIRED FOR TWO-YEAR PROGR	AM			. 133

ENG 1000; MAT 0099, 1000.

The Electronic Servicing student may select additional elective credits from approved courses and make course substitutions on a credit-for-credit basis upon approval by the student's department chairperson.

Students may elect to participate in Cooperative Education field experience: COE 101-106.

FARM MACHINERY MECHANICS

This curriculum is designed to provide broad training to permit entrance into the field best suited to the interest and aptitude of the graduate. Emphasis is placed on the basic theories of farm machinery mechanics and techniques of maintenance, troubleshooting, and repair of general farm machinery with specialization to be developed later in employment.

Graduates of this curriculum can quickly adapt themselves for employment in the areas of sales, service, distribution, and installations or provide the service that must be done in the field. They make inspections and tests to determine the causes of faulty operation and repair or replace defective parts to restore the tractor or other gasoline-powered equipment to proper operating condition.

FIRST	QUAR	TER COURSE TITLE	С	L	SH	СН
*ENG	1101	Reading Improvement	2	0	0	2
*MAT	1101	Fundamentals of Mathematics	5	0 ·	0	5
PME	1105A	Fundamentals of Diesel Engines	5	0	6	7
PME	1135	Basic Fuel Systems: Gasoline and Diesel	3	0	3	4
AGR	119	Techniques of Welding	2	0	3	3
			17	0	12	21
SECO	ND QU	ARTER				
COE	100	Student, Career, and Society	3	0	0	3
ENG	1102	Communication Skills	3	0	0	3
PME	1105B	Fundamentals of Diesel Engines	1	0	6	3
PME	1137	Basic Power Transmission	4	0	6	. 6
PME	1050	New Tractor and Equipment Setup	1	0	3	2
PME	1126	Small Engine Repair	1	0	3	2
			13	0	18	19
THIR		TER				
COE	101D	Cooperative Education Intern	0	0	40	4
FOUF	RTH QU	ARTER				
PME	1010	Air Conditioning	2	0	3	3
PME	1136	Fundamental Hydraulics	2	0	6	4
PME	1030	Electrical Systems in Farm Equipment	3	0	3	4
PME	1040	Farm Harvesting Equipment	3	0	6	5
PSY	1101	Human Relations	3	0	0	3
			13	0	18	19
TOTA						
TUTA	L UUAK					63

FARM MACHINERY MECHANICS SUGGESTED CURRICULUM BY QUARTERS

*If students, as a result of placement tests, are found to be deficient in math and English skills, they will be required to take the appropriate courses from the following list:

ENG 1000; MAT 0099, 1000.

The Farm Machinery Mechanics student may select additional elective credits from approved courses and make course substitutions on a credit-for-credit basis upon approval by the student's department chairperson.

INDUSTRIAL MAINTENANCE: ELECTROMECHANICAL

This curriculum is designed to meet the need for plant maintenance workers. Existing industries in North Carolina and new industries moving into the state express the need for skilled craftsmen with the background, knowledge, and potential to advance in the plant maintenance field. This curriculum is designed to prepare the individual, through theory and practice of various maintenance skills and related courses, to obtain employment in industrial maintenance occupations.

The Industrial Maintenance: Electromechanical program is designed to prepare individuals to repair and maintain mechanical systems and equipment, plumbing, physical structure, and electrical wiring and fixtures of commercial and industrial establishments. They measure, cut, and install pipe and tubing for gas, water, and hydraulic lines using appropriate tools. They may install electrical equipment and repair or replace wiring and fixtures. They do repair work on metal structures and equipment using welding equipment. They may operate metalworking machines to repair or fabricate new parts. They may clean, lubricate, repair, and replace various machine parts including bearings, gears, pulleys, gauges, valves, and control devices.

The plant maintenance worker may start in one of the following areas: general maintenance helper, factory or mill maintenance repairer helper, and millwright helper. Advanced jobs in the field include plant maintenance worker, factory or mill maintenance repairer, millwright, powerhouse mechanic, maintenance electrician, mechanical maintenance supervisor, and utilities and maintenance supervisor.

INDUSTRIAL MAINTENANCE: ELECTROMECHANICAL SUGGESTED CURRICULUM BY QUARTERS

FIRST	QUAR	TER COURSE TITLE	С	L	SH	СН
*MAT	1101	Fundamentals of Mathematics	5	0	0	5
*ENG	1101	Reading Improvement	2	0	0	2
DFT	1104	Blueprint Reading: Mechanical	3	0	0	. 3
ELC	1112	Direct and Alternating Current	5	0	12	9
PSY	1101	Human Relations	3	0	_0	3
			18	0	12	22
SECO	ND QU	ARTER				
ENG	1102	Communication Skills	3	0	0	3
DFT	1113	Blueprint Reading and Sketching III	3	0	0	3
MEC	1140	Hydraulics and Pneumatics Fundamentals	3	0	3	4
ELC	1113	AC and DC Machine and Controls	5	0	12	9
PHY	1101	Applied Science	3	2	0	4
			17	2	15	23
THIRI		RTER				
WLD	1102	Basic Gas Welding	0	0	3	1
MEC	1133	Electrical and Mechanical Maintenance	3	0	6	5
ISC	1101	Industrial Safety	3	0	0	3
PLU	1110	Plumbing Pipework	3	0	9	6
			9	0	18	15
FOUR	RTH QU	ARTER				5
WLD	1103	Basic Arc Welding	0	0	3	1
MEC	1134	Electrical and Mechanical Maintenance	3	0	6	5
AHR	1102	Introduction to Cooling and Heating				
		Systems	3	0	. 9	6
BUS	1105	Industrial Organizations	3	0	0	3
			9	0	18	15
TOTA		RTER HOURS				75

*If students, as a result of placement tests, are found to be deficient in math and English skills, they will be required to take the appropriate courses from the following list:

ENG 1000; MAT 0099, 1000.

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The Industrial Maintenance: Electromechanical student may select additional elective credits from approved courses and make course substitutions on a credit-for-credit basis upon approval by the student's department chairperson.

Students may elect to participate in Cooperative Education field experience: COE 101-106.

MACHINIST

The Machinist curriculum is designed to provide training in the basic skills and related technical information necessary to gain employment and build a profitable career in the machine shop industry.

Machinists are skilled metal workers who shape metal parts by using machine tools and hand tools. Their training and experience enables them to plan and carry through all the operations needed in turning out a machined product and to switch readily from one kind of product to another. Machinists are able to select the proper tools and materials required for each job and to plan the cutting and finishing work according to blueprint or written specifications. They make standard shop computations relating to dimensions of work, tooling, feeds, and speeds of machining. They often use precision measuring instruments such as micrometers and gauges to measure to the thousandths of an inch the accuracy of their work.

These skilled machinists must be able to set up and operate most types of machine tools. They must also know the composition of metals so that they can heat and quench cutting tools and parts to improve machineability. Their wide knowledge enables them to turn a block of metal into an intricate, precise machined part.

SH CH С L FIRST QUARTER COURSE TITLE 3 3 0 0 DFT 1104 Blueprint Reading: Mechanical 2 2 0 0 *ENG 1101 **Reading Improvement** 5 5 0 0 **Fundamentals of Mathematics** *MAT 1101 3 0 12 7 Machine Shop Theory and Practice MEC 1101 3 3 0 0 Industrial Safety ISC 1101 0 12 20 16 SECOND QUARTER 3 3 0 0 **Blueprint Reading: Mechanical** DFT 1105 3 0 3 0 **Communication Skills** ENG 1102 0 5 0 5 MAT 1102 Algebra 3 0 12 7 Machine Shop Theory and Practice MEC 1102 4 2 0 3 PHY 1101 **Applied Science** 2 12 22 17 THIRD QUARTER 3 0 0 3 Blueprint Reading: Mechanical DFT 1106 5 5 0 0 **Basic Geometry and Trigonometry** MAT 1103 12 7 0 3 Machine Shop Theory and Practice MEC 1103 0 3 2 3 Metallurgy: Ferrous Metals MEC 1115 3 0 0 3 Human Relations PSY 1101 12 21 3 16

MACHINIST SUGGESTED CURRICULUM BY QUARTERS

**FOURTH QUARTER COURSE TITLE	С	L	SH	СН
DFT 1201 Drafting: Mechanical I	1	3	0	2
MEC 1104 Machine Shop Theory and Practice	3	0	12	7
MEC 1116 Metallurgy: Non-Ferrous Metals	2	3	0	3
WLD 1102 Basic Gas Welding	0	0	_3	1
	6	6	15	13
TOTAL QUARTER HOURS FOR STUDENTS GRADUATING A QUARTERS	FTER FO	DUR		. 76
**Two quarters of advanced training may be offered to outstand tory completion of the four quarter course of study and upon curriculum instructors.	ing stud recomm	ents af nendat	ter satis ion of t	sfac- heir
FIFTH QUARTER COURSE TITLE	С	L	SH	СН
MAT 1123 Machinist Mathematics	3	0	0	3 -
MEC 1105 Machine Shop Theory and Practice	3	0	15	8
MEC 1221 Machine Maintenance	2	0	. 3	3
	8	0	18	14
SIXTH QUARTER				
DFT 1202 Drafting: Mechanical II	1	3	0	2
MEC 1106 Machine Shop Theory and Practice	3	0	12	7
MEC 1107 Jigs and Fixtures	2	0	6	4
	6	3	18	13

TOTAL QUARTER HOURS FOR STUDENTS COMPLETING SIX QUARTERS 103

*If students, as a result of placement tests, are found to be deficient in math and English skills, they will be required to take the appropriate courses from the following list:

ENG 1000; MAT 0099, 1000.

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The Machinist student may select additional elective credits from approved courses and make course substitutions on a credit-for-credit basis upon approval by the student's department chairperson.
MASONRY

Masons are the artisans in the building trades who work with brick, concrete masonry units, stone and artificial stone, and other similar building materials in the construction industry. Most masons are employed by contractors in the building construction fields to lay brick and blocks made of tile, concrete, glass, gypsum, or terra cotta. Also, they construct and repair walls, partitions, arches, sewers, furnaces, and other masonry structures. Masons must have a knowledge of basic mathematics, blueprint reading, and masonry technology. They must also know the methods used in laying out a masonry job with specific reference to rigid insulation, refractories, and masonry units specified for residential, commercial, and industrial construction.

Most employment opportunities for masons are with contractors in new building construction. However, a substantial proportion of masons are self-employed or work with contractors doing repair, alteration, or modernization of existing masonry construction.

After gaining experience in the various types of the masonry trade along with leadership training, it is possible for the artisan to become a technical inspector and to eventually become a contractor.

FIRST	OUART	ER COURSE TITLE	С	L.	SH	СН
DFT	1110	Blueprint Reading: Building Trades	3	0	0	3
MAS	1101	Bricklaving	3	0	21	10
MAT	1112M	Building Trades Mathematics	3	0	0	3
		0	9	0	21	16
SECO	ND QU/	ARTER				
DFT	1111	Blueprint Reading and Sketching I	3	0	0	3
MAS	1102	Bricklaying II	3	0	21	10
MAT	1113	Building Trades Mathematics: Masonry	3		0	3
		1	9	0	21	16
THIRI		TER			-	-
DFT	1112	Blueprint Reading and Sketching II	3	0	0	3
MAS	1103	Bricklaying III	2	0	21	9
MAS	1113	Masonry Estimating I	_1		3	
			6	0	24	14
FOUR	TH QU	ARTER			0	2
DFT	1113M	Blueprint Reading and Sketching: Masonry	3	0	0	3
MAS	1104	Bricklaying IV	2	0	21	3
MAS	1114	Masonry Estimating II				
			6	0	24	14
						. 60
TOTA	LOUAR					

MASONRY SUGGESTED CURRICULUM BY QUARTERS

The Masonry student may select additional elective credits from approved courses and make course substitutions on a credit-for-credit basis upon approval by the student's department chairperson.

PRACTICAL NURSE EDUCATION

The Practical Nurse Education Curriculum is designed to make available to qualified persons the opportunity to prepare for participation in care of patients of all ages, in various stages of dependency, and with a variety of health conditions. Throughout the program, the student is expected to grow continuously in acquisition of knowledge and understanding related to nursing, the biological sciences, and the social sciences and in skills related to nursing practices, communications, interpersonal relations, and use of good judgment. Graduates are eligible to take a state licensing examination given by the North Carolina Board of Nursing for employment as a licensed practical nurse (LPN).

The licensed practical nurse is prepared for employment in hospitals, nursing homes, clinics, doctors' and dentists' offices, and public health agencies. In all situations the LPN functions under the supervision of a registered nurse and/or licensed physician.

Curriculum currently under revision.



PRACTICAL NURSE EDUCATION SUGGESTED CURRICULUM BY QUARTERS

FIRST	QUART	ER COURSE TITLE	С	L	SH	СН
BIO	101	Basic Life Sciences	4	2	0	-5
ENG	101	Grammar	3	0	0	3
MAT	114	Basic Math for Health Professions	3	0	0	3
NUR	101	Fundamentals of Nursing	6	6	0	9
NUT	101	Basic Nutrition	3	0	0	3
			19	8	0	23
SECO	ND QUA	ARTER				
NUR	102	Medical-Surgical Nursing I	8	0	15	13
NUR	110	Pharmacology	3	0	0	3
PSY	150	General Psychology I	3	0	0	3
			14	0	15	19
THIRI		TER				
NUR	103	Medical-Surgical Nursing II	9	0	15	14
PSY	120	Human Growth and Development	3	_0	0	3
			12	0	15	17
FOUR	TH QUA	ARTER				
NUR	104	Maternal Child Health Nursing I	8	0	15	13
NUR	131	Nursing Seminar	3	0	0	3
			11	0	15	16
ΤΟΤΑ		TER HOURS				. 75

The Practical Nurse Education student may select additional elective credits from approved courses and make course substitutions on a credit-for-credit basis upon approval by the student's department chairperson.

Curriculum currently under revision.



SURGICAL TECHNOLOGY

The twelve-month Surgical Technology Program offers students opportunities to acquire knowledge in areas of anatomy, physiology, microbiology, principles of asepsis, and preparation of the operating room for surgery. The primary objective of the program is to prepare the graduate to perform all the functions of the surgical technologist and to provide the best service possible as a member of the surgical team in the care of each patient who comes to the operating room. Graduates of the program are eligible to write the certifying examination given by the Association of Surgical Technologists. Passing the certifying examination entitles the graduate to use the title "Certified Surgical Technologist."

The surgical staff renders an important service in the overall care of a patient. Good organization of the department and of surgical teams is required. Each individual must know specific functions and responsibilities in order to correlate them with the duties of others.

The surgical technologist works under the direct supervision of a registered professional nurse and/or licensed physician.

SURGICAL TECHNOLOGY SUGGESTED CURRICULUM BY QUARTERS

FIRST	QUAR	TER COURSE TITLE	С	L	CL	CH
BIO	101A	Basic Life Sciences	4	2	0	5
SUR	1102	Surgical Safety and Orientation	5	4	0	7
SUR	1114	Principles and Practices of Operating				
		Room Techniques	4	10	0	9
BIO	1104	Introduction to Microbiology	3	0	0	- 3
			16	16	0	24
SECO	ND QL	ARTER				
BIO	101B	Basic Life Sciences	4	2	0	5
SUR	1116	Surgical Procedures and Clinical				
		Practice I	9	0	18	15
SUR	1115	Pharmacology for Operating Room	2	0	0	2
			15	2	18	22
THIR	D QUA	RTER				
SUR	1127	Surgical Procedures and Clinical				
		Practice II	9	0	24	17
FOU	RTH QL	JARTER				
SUR	1128	Surgical Specialties and Clinical				
		Practice III	4	0	33	15
TOT		RTER HOURS				

The Surgical Technology student may select additional elective credits from approved courses and make course substitutions on a credit-for-credit basis upon approval by the student's department chairperson.

During the summer quarter, students will be taking night and weekend operating room call as part of their clinical experience.

TEACHER ASSISTANT

The Teacher Assistant program is designed to prepare the student for work in assisting the professional teacher, freeing the latter for teaching duties. Students will receive extensive training for duties normally assigned to assistants, including operating audiovisual equipment and making audiovisual teaching/learning materials, typing, and assisting in reading instruction.

The graduate will be prepared to use a variety of audiovisual materials, to make transparencies and stencils, to assist with physical education programs, to construct bulletin boards, and, in general, to help teachers in the performance of classroom duties.

TEACHER ASSISTANT SUGGESTED CURRICULUM BY QUARTERS

FIRST	QUAR	TER COURSE TITLE	С	L	CL	СН
EDU	102	Child Health and Safety	3	0	0	3
EDU	103	Preschool Orientation	1	0	6	3
*MAT	100R	Computational Skills	5	0	0	5
PSY	115	Child Growth and Development:				
		Prenatal-Early Childhood	3	0	0	3
SPH	150	Voice and Diction	3	0	0	3
			15	0	6	17
SECO	ND QL	JARTER				
BUS	102	Beginning Typewriting	2	3	0	3
EDU	104	Preschool Observation	1	0	6	3
EDU	231	Creative Activities	5	0	0	5
*ENG	101	Grammar	3	0	0	3
PSY	116	Child Growth and Development:				-
		Middle Childhood-Adolescence	3	0	0	3
PSY	102	General Psychology	3			3
			17	3	6	20
THIR	D QUA	RTER			45	6
EDU	106	Practicum in Elementary School	1	0	15	6
EDU	111	Language Arts Techniques I	5	0	0	5
EDU	115	Audiovisual and Media Instruction	3	0	0	3
ENG	102	Composition	3	0	0	5
SOC	101	Introduction to Sociology	_5	_0		
			17	0	15	22

FOUR	TH Q	UARTER COURSE TITLE	С	L	SH	CI	
ENG	103	Report Writing	3	0	0	3	
EDU	203	Exceptional Child	5	0	0	5	
EDU	107	Practicum in Preschool Experience	1	0	15	6	
			9	0	15	14	
ΤΟΤΑ	LQU	ARTER HOURS	 			. 73	

*If students, as a result of placement tests, are found to be deficient in math and English skills, they will be required to take the appropriate courses from the following list:

ENG 100R-1, 100R-2, 100R-3, 100R-4, 100G, 100G-A, 101-A, 102-A; MAT 099.

The Teacher Assistant student may select elective credits from the list of recommended electives or from other related courses and make course substitutions from appropriate subject areas on a credit-for-credit basis upon approval by the student's department chairperson.

RECOMMENDED ELECTIVES:

BUS 110, 112, 134; CAT 110; COE 100; ECO 102; ENG 105, 106; PHY 120; POL 102; PSY 206; SOC 103; SSC 101

Students may elect to participate in Cooperative Education field experience: COE 101-106.

WELDING

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The Welding curriculum is designed to provide students with opportunities to acquire an understanding of the principles, methods, techniques, and skills essential for successful employment in the welding field and metals industry. The program prepares students for employment in practically any industry: shipbuilding, automotive, aircraft, guided missiles, railroads, construction, pipe fitting, production shop, job shop, and many others.

Welders join metals by applying intense heat and sometimes pressure to melt the edges to form a permanent bond. Of the more than 35 different ways of welding metals, arc, gas, and resistance welding are the three most widely used and are emphasized in this program. Closely related to welding is "oxygen cutting."

The principal duty of the welder using manual techniques is to control the melting by directing the heat from either an electric arc or gas welding torch and to add filler metal where necessary to complete the joint. Welders must possess high-level manipulative skill and knowledge of jigs, welding symbols, mathematics, basic metallurgy, and blueprint reading.

WELDING SUGGESTED CURRICULUM BY QUARTERS

FIRST	QUART	ER COURSE TITLE	С	L	SH	СН	
DFT	1104	Blueprint Reading: Mechanical	3	0	0	3	
ENG	1101	Reading Improvement	2	0	0	2	
MAT	1101	Fundamentals of Mathematics	5	0	0	5	
WLD	1141	Beginning Welding	5	0	15	10	
			15	0	15	20	
SECO	ND QU	ARTER					
DFT	1117	Blueprint Reading: Welding	3	0	0	3	
ENG	1102	Communication Skills	3	0	0	3	
MAT	1103	Basic Geometry and Trigonometry	5	0	0	5	
WLD	1142	Intermediate Welding	5	0	15	10	
			16	0	15	21	
THIRE	D QUAR	TER					
DFT	1118	Pattern Development and Sketching	3	0	0	3	
PSY	1101	Human Relations	3	0	0	3	
WLD	1112	Mechanical Testing and Inspection	1	0	3	2	
WLD	1123	Inert Gas Welding	1	0	3	2	
WLD	1124	Pipe Welding	3	0	12	7	
			11	0	18	17	
FOUR	TH QU	ARTER					
BUS	1105	Industrial Organizations	3	0	0	3	
MEC	1112	Machine Shop Processes	1	0	3	2	
WLD	1122	Commercial and Industrial Practices	3	0	9	6	
WLD	1125	Certification Practices	3	_0	6		
			10	0	18	16	
ΤΟΤΑ	LQUAR	RTER HOURS				. 74	
lf stuc skills,	f students, as a result of placement tests, are found to be deficient in math and English kills, they will be required to take the appropriate courses from the following list:						

ENG 1000; MAT 0099, 1000.

The Welding student may select additional elective credits from approved courses and nake course substitutions on a credit-for-credit basis upon approval by the student's department chairperson.

Students may elect to participate in Cooperative Education field experience: COE 101-106.

HOSPITAL WARD CLERK

A one-quarter program, the Hospital Ward Clerk Program is designed to prepare qualified men and women to perform a variety of clerical duties such as maintaining patients' charts, requesting equipment and services for patients, requesting supplies and equipment for the nursing unit, and completing all forms correctly. Emphasis is placed on communication techniques, including communication with the hospital staff, physicians, and visitors; and telephone communications. The hospital ward clerk is an important and vital link in the health care team. Clinical experiences provide opportunities for applying classroom learning in the hospital setting.

FIRST QUARTER COURSE TITLE	С	L	SH	СН
MED 1100 Hospital Ward Clerk	9	0	21	16
Theory and Fractice	9	0	21	10

NURSE ASSISTANT

The continuing shortage of nursing personnel has created the need for nurse assistants who are prepared to assist with patient care by performing duties which require limited training.

Working under the supervision of a registered nurse, the nurse assistant has a well-defined role on the nursing team.

Admission requirements to the nurse assistant program are established cooperatively by Pitt Community College and Pitt County Memorial Hospital. All students admitted to the program are potential employees of the hospital. Standards of achievement for the program are established by Pitt Community College. Graduates will receive certificates upon satisfactory completion of the one-quarter program.

FIRST QUARTER COURSE TITLE	С	L	CL	СН
NUR 1100 Nurse Assistant Theory and				
Clinical Practice	9	0	21	16

SURVEYING (TECHNICAL SPECIALTY)

The Surveying curriculum is designed for persons interested in learning to assist surveyors or engineers in land, forest, highway, marine, and other types of surveying. The emphasis of the program may be adapted by choice of electives. A certificate is awarded to students completing the program.

The graduates of this program will be prepared to determine exact location and measurements of points, elevations, lines, areas, and contours of the surface of the earth for construction, map making,

land valuation, mining, or other purposes. They may calculate information needed to conduct surveys from notes, maps, deeds, or other records. They will use surveying instruments and perform calculations to verify the accuracy of survey data.

SURVEYING (TECHNICAL SPECIALTY) SUGGESTED CURRICULUM

BASIC	C COI	URSES COURSE TITLE	С	L	SH	СН
CIV	101	Surveying	2	0	6	4
CIV	102	Surveying	2	0	6	4
CIV	103	Surveying	2	0	6	4
CIV	204	Surveying	2	0	6	4
DFT	101	Technical Drafting	0	6	0	2
MAT	101	Algebra I	5	0	0	5
MAT	102	Trigonometry	5	0	0	5
ΤΟΤΑ		ARTER HOURS				. 28

Students who wish to acquire additional surveying skills may take any of the following courses:

ELECTIVE COURSES

CIV	110	Surveyor Practices	1	0	0	1
CIV	223	Codes, Contracts, and Specifications	2	0	0	3
FOR	208	Forest Surveying	2	0	3	3
MAT	103	Algebra II	5	0	0	5



Course Descriptions



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			Clinical	/ Credit
ACCOUNTING	Class	Lab	Shop	Hours
ACT 150 Principles of Accounting	3	2	0	4
Basic accounting concepts as applied to a sing requiring the use of journals and general ledge sheets, the balance sheet, and income statemen nternal control included.	le proprietor ers, preparati nts. Introduct	rship. P ion and tion to	ractical p l analysis basic coi	oroblem s of wor ncepts c
ACT 151 Principles of Accounting	3	2	0	4
An expanded study of the accounting cycle with	emphasis on t control. Incl	the reco udes a	ording, su study of	ummariz payroll
federal and state taxes, and basic applications fo	or computeriz	zed acc	ounting.	
federal and state taxes, and basic applications for ACT 152 Principles of Accounting Prerequisite: ACT 151	or computeriz 3	zed acc 2 financi	ounting. 0	4
federal and state taxes, and basic applications for ACT 152 Principles of Accounting Prerequisite: ACT 151 Partnership and corporation accounting, includi sis and use of financial ratios. AGRICULTURE	or computeriz 3 ng a study of	zed acc 2 financi	ounting. 0 al stateme	4 ent analy
ACT 152 Principles of Accounting Prerequisite: ACT 151 Partnership and corporation accounting, includi sis and use of financial ratios. AGRICULTURE AGR 103 Feeding and Management	ng a study of	2 financi	ounting. 0 al stateme	4 ent analy
ACT 152 Principles of Accounting Prerequisite: ACT 151 Partnership and corporation accounting, includi sis and use of financial ratios. AGRICULTURE AGR 103 Feeding and Management Study of applied principles and concepts of anin feeding livestock, nutritional diseases, balancing anatomy and physiology of the digestive systems of and economic problems associated with the feeding	ar computeria 3 ng a study of 3 nal nutrition. rations, feed of farm anima ding and mar	zed acc 2 financi 2 Probler additiv ls. Inclu	ounting. 0 al stateme 0 ms associ res, feeds udes man of livesto	4 ent analy 4 ated wit tuffs, an- nagemen ock.
federal and state taxes, and basic applications for ACT 152 Principles of Accounting Prerequisite: ACT 151 Partnership and corporation accounting, includi sis and use of financial ratios. AGR 103 Feeding and Management Study of applied principles and concepts of anin feeding livestock, nutritional diseases, balancing anatomy and physiology of the digestive systems of and economic problems associated with the fee AGR 105 Pastures and Forage Crops	ar computeria 3 ng a study of 3 nal nutrition. rations, feed of farm anima ding and mar 3	2 financi 2 Proble: additiv ls. Inclu rketing 2	ounting. 0 al statemo 0 ms associ es, feeds udes man of livesto 0	4 ent analy 4 ated wit tuffs, an agemer ock. 4
ACT 152 Principles of Accounting Prerequisite: ACT 151 Partnership and corporation accounting, includi sis and use of financial ratios. AGR 103 Feeding and Management Study of applied principles and concepts of anin feeding livestock, nutritional diseases, balancing anatomy and physiology of the digestive systems of and economic problems associated with the fee AGR 105 Pastures and Forage Crops Study of the major grasses and legumes of econ Attention given to management, soil types, fertili	ng a study of 3 ng a study of 3 al nutrition. rations, feed of farm anima ding and mar 3 nomic impor zation, harve	2 financi 2 Proble additiv Is. Inclu rketing 2 tance i sting, a	ounting. 0 al stateme 0 ms associ es, feeds udes man of livesto 0 n North nd nutrie	4 ent analy 4 ated wit tuffs, an- agemen ock. 4 Carolina ent value

Introductory course to accounting methods related to farm business; acquaints students with the terminology and basic principles and techniques used in recording transactions. Practical application of the principles learned made by working with actual farm situations. Study of taxes as related to farm income including tax forms, deductions, depreciation, and tax schedules applicable to farmers.

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AGR 112 Small Engine Repair 2 3 0 3

Study of two-and four-cycle, one-cylinder gasoline engines and their power trains. Students taught preventive maintenance, troubleshooting, and repair of the typical auxiliary engine on the farm.

AGR 119 Techniques of Welding 2 3 0 3

Study of principles of oxyacetylene and electrical welding, cutting, and brazing; principles, procedures, safety precautions, and experience in using oxyacetylene and arc welding equipment; and projects to develop skill in the use of equipment. Also includes a study of metals, rods, gases, and special electrical welding machinery.

			Class	Lab	Clinical/ Shop	Credit Hours
AGR	121	Crop Production	3	2	0	4
Study rotatio produc	of the ons, fei ction.	characteristics of field crops relative to rtilization, control of pests, and cultu	varieties ural prac	, enviro tices p	onmental ertinent	factors, to crop
AGR	125	Animal Science	5	2	0	6
Introd ductio growth ing, an	uctory n. Stuc h, fatte nd marl	animal science course covering the fin: dy of the animal body and the basic prir ning, and digestion; and of the selection keting of livestock.	ancial pri nciples of , feeding	nciples reproc , impro	of livesto luction, g vement, p	ock pro- enetics, process-
AGR	127	Animal Nutrition	3	2	0	4
Deals v horses	with the , sheep	e principles of nutrition and their applica o, and swine production in North Caroli	ntion to fe na.	eding p	oracticesi	n cattle,
AGR	128	Farm and Home Construction	2	3	0	3
Deals the co projec waste their p	with th ourse g cts such dispose proper	e fundamentals of farm carpentry, fence ives students an opportunity to learn a s farm utility buildings. Also includes al. Attention is given to planning farm care and maintenance.	es, concre and prac a study o water and	ete, and stice ho of farm d plum	d masonry ome consi water ne bing syste	r. Part of truction eds and ems and
AGR	135	Agricultural Law	3	0	0	3
Desigr of law, study o real pr	ned to a , incluc of law roperty	acquaint the agricultural student with ce ding contracts, agency, and negotiable i pertaining to partnership, corporation,	rtain func nstrumer sales, su	dament nts. Inc retyshij	als and pr ludes the p, bailme	inciples general nts, and
AGR	136	Agricultural Mathematics	5	0	0	5
Stresse proble mission	es the f ems. To n, taxes	fundamental mathematics operations a pics covered include payrolls, price man s, and pertinent use of mathematics in t	ind their king, inte he field c	applica erest an of busir	ation to b nd discour ness.	ousiness nt, com-
AGR	149	Introduction to Plant Science and Horticulture	3	2	0	4
Introd proces of plar	uction ssing, re nt proc	to botany as applied to higher plants. Th eproduction (sexual and asexual), growt esses to certain commercially grown fie	e fundam h, and de Id and ho	nental p evelopn orticulti	orinciples nent. App ural crops	of plant lication
AGR	150	General Horticulture	3	2	0	4
D 1		and the set of the offension	ofplant	ccionce	fundame	entalsto

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Deals with horticultural principles and the application of plant science fundamentals to horticultural practices.

AGR 154 Swine Production 3 2 0 4

Study of the scientific methods of selecting, breeding, feeding, and managing swine. Special attention is given to housing and marketing.

			Class	Lab	Clinical/ Shop	Credit Hours
AGR	155	Introduction to Food Science	3	2	0	4
Introd given princij dratioj	uctory to deve ples of n, conc	study of various phases of food science elopment, size, distribution, and futu food preservation and unit operation centration, and fermentation will be s	ce and pro are of the p as covering tressed.	cessing processi cannin	. Attentic ng indus g, freezir	on will t try. Bas ig, dehy
AGR	170	Plant Science	5	2	0	6
Introd ples of with a	uctory the re pplicat	general botany and crop science cour production, growth, functions, and d ion to certain commercially importan	se coverin developme it plants in	g the fu ent of s North	ndament eedbearii Carolina.	al princ ng plan
AGR	185	Soil Science and Fertilizers	5	2	0	6
of soils AGR	; care, 187	cultivation, and fertilization of the so	pil; and co	nservati 2	ion of soi	l fertilit
Review comm of fert	v of the ercial f ilizer a	e source, function, and use of the ma ertilizer ingredients; soil acidity and li nd liming materials.	jor and mi iming mate	nor pla erials; a	nt food e nd the ap	4 lement plicatio
Review comm of fert AGR	v of the ercial f ilizer a 188	e source, function, and use of the ma ertilizer ingredients; soil acidity and li nd liming materials.	jor and mi iming mate	nor pla erials; a 2	nt food e nd the ap 0	4 lement plicatio
Review comm of fert AGR Deals minim timely	v of the ercial f ilizer a 188 with va um tilla applic	e source, function, and use of the ma ertilizer ingredients; soil acidity and li nd liming materials. Cultural and Irrigation Practices arious tillage and cultural practices s age; the economical aspects of labor a ation of supplemental water to obtain	jor and mi iming mate 3 uch as cor nd fuel eff n maximur	nor pla erials; a 2 nventio iciency n outpu	nt food e nd the ap 0 nal, ''no- ; and drai it.	4 lement plicatio 4 till,'' ar nage ar
Review comm of fert AGR Deals minim timely AGR	v of the ercial f ilizer a 188 with va um till: applic 201	e source, function, and use of the ma ertilizer ingredients; soil acidity and li nd liming materials. Cultural and Irrigation Practices arious tillage and cultural practices s age; the economical aspects of labor a ation of supplemental water to obtain Agricultural Chemicals (Pesticides)	jor and mi iming mate 3 uch as cor nd fuel eff n maximur 3	nor pla erials; a 2 nventio iciency n outpu 2	nt food e nd the ap 0 nal, "no- ; and drai it. 0	4 lement plicatio 4 till," ar nage ar 4
Review comm of fert AGR Deals minim timely AGR Study of applica agricu cides,	v of the ercial f ilizer a 188 with va um tilli applic 201 of agric ation of ltural p herbic	e source, function, and use of the ma ertilizer ingredients; soil acidity and li nd liming materials. Cultural and Irrigation Practices arious tillage and cultural practices s age; the economical aspects of labor a ation of supplemental water to obtair Agricultural Chemicals (Pesticides) cultural chemicals and their importance of farm chemicals; and the effective sest control. Major emphasis is placed ides and other commonly used pesticides	jor and mi iming mate 3 uch as cor nd fuel eff n maximur 3 ce; the ingr and safe u on insectio cides.	nor pla erials; a 2 nventio iciency n outpu 2 redients tilizatic ides, fu	nt food e nd the ap 0 nal, "no- ; and drai it. 0 s, formula on of che ngicides,	4 lement plicatio 4 till,'' ar nage ar 4 tion, ar micals nemat
Review comm of fert AGR Deals minim timely AGR Study of applic agricu cides, AGR	v of the ercial f ilizer a 188 with va um tilla applic 201 of agric ation co ltural p herbic 203	e source, function, and use of the ma ertilizer ingredients; soil acidity and li nd liming materials. Cultural and Irrigation Practices arious tillage and cultural practices s age; the economical aspects of labor a ation of supplemental water to obtain Agricultural Chemicals (Pesticides) cultural chemicals and their importance of farm chemicals; and the effective test control. Major emphasis is placed ides and other commonly used pestic	jor and mi iming mate 3 uch as cor nd fuel eff n maximur 3 ce; the ingr and safe u on insectio cides. 3	nor pla erials; a 2 nventio iciency n outpu 2 redients tilizatic ides, fu 2	nt food e nd the ap 0 nal, "no-; ; and drai it. 0 s, formula on of che ngicides, 0	4 lemen plicati 4 till," a nage a 4 tion, a micals nemat

Study of and practical exercise in the correct application of pesticides and fertilizers. Economics of custom application and equipment, precautions, and legal aspects of application are presented.

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AGR 204 Agricultural Economics 3 2 0 4 and Farm Records

Introduction to economics, the functions of the economic system, and agriculture's role in the economy. Economic principles as applied to the decision-making process in the analysis of farm records are also included.

AGR 205 Agricultural Marketing 3 2 0 4

Analysis of the functions of marketing in the economy; a survey of the problems marketing faces; and a review of the market structure and the relationship of local, terminal, wholesale, retail, and foreign markets. Problems in the operations of marketing firms, including buying and selling, processing, standardization and grading, risk-taking and storage, financing, efficiency, and cooperation; and discussions of procedures for marketing commodities such as grain, cotton, livestock, and tobacco are included.

			Class	Lab	Clinical/ Shop	Credit Hours
AGR	207	Poultry Enterprises	3	2	0	4

Review of the growth of the various poultry enterprises including market eggs, hatching eggs, and broiler production; marketing procedures; determining and controlling costs of production; choosing breeds and determining flock size, feeding systems, conversion ratios, labor efficiency, and other management factors.

AGR	215	Farm Machinery Repair	3	2	0	4
		and Maintenance				

Selection, care, and repair of large units of farm equipment and operating principles of self-propelled and tractor-drawn equipment studied in the classroom and in the field. Equipment such as balers, combines, corn pickers, cotton pickers, and peanut harvesters included in the study.

AGR 218 Agricultural Mechanization 3 2 0 4

Study of farm machinery management, laborsaving devices, and the economics of selection and operation of farm machinery. Includes study and evaluation of feed grinders and mixers, storage facilities, materials handling systems, and other laborsaving devices.

AGR 222 Farm Electrification 3 2 0 4

Study of the basic principles and systems of farm electrification and their application to agricultural production, with emphasis on equipment for controlling the utilization of electricity.

AGR 223 Livestock Production 3 2 0

Study of the basic principles of livestock production, including the breeding, feeding, care, and management of farm animals.

AGR 225 Agricultural Pollution Control 3 2 0 4

Study of the relationship between agriculture and environmental pollution. Topics covered include soils, control of animal wastes and feedlot management, pesticide use and misuse, biological control of agricultural pests, fertilizer runoff and control, stream sedimentation, the use of land for disposal of municipal wastewater, and state and federal regulations related to agricultural pollution.

AGR 227 Beef Production 3 2 0 4

Study of beef production including the selection, breeding, feeding, care, and management of a beef herd. The economical aspects of various systems of beef production.

AGR 228 Plant and Animal Diseases 3 2 0 4

Study of the germ theory of disease as applied to plant and animal production. Common plant and animal diseases and their symptoms, prevention, and control measures are included in the study.

AGR 245 Crop Insects	U
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Study of common crop insects, their economic importance, identification, life cycles, and hosts. Field trips to study insect damage to crops in the area.

4

			Class	Lab	Clinical/ Shop	Cr Ho
AGR	247	Pesticides and Their Use In Home and Community	3	2	0	
Study o and er Biolog	of the u ivironn ical and	use of pesticides including their function nental hazards, with major emphasis o d other alternative methods of pest con	n, ingree n safe a trol are	dients, b pplicati studied	oeneficia on and F	l asp nanc
AGR	254	Plant Propagation	3	2	0	
Study o are lea given t	of basic rned tl to those	concepts and principles of sexual and prough practical exercises conducted in e propagation methods widely utilized	asexual n labora in the in	propaga tory ses idustry.	ation. Teo sions. En	chni npha
AGR	272	Tobacco Production	3	2	0	
Reviev certair proces	v of the aspec sing an	e economic importance of tobacco in t ts of the production and marketing o d manufacturing phases.	North Ca f tobacc	arolina, co, and	detailed brief loo	stu ok a
AGR	273	Corn, Peanut, and Soybean Production	3	2	0	
Produc in this weed c	ction, n course control	narketing, and improvement of corn, pe . The latest research information on see , cultural practices, equipment, havestin	eanuts, a ed variet ng, and	ind soyb ties, fert marketi	beans are tilization ng are st	cov , dis ress
AGR	278	Weed Identification and Control	3	2	0	
Study import	of the ance ir	identification and control of annual ar n North Carolina.	nd perer	nnial we	eds of e	con
AGR	279	Farm Forestry	3	2	0	
Deals w thinnir	vith the ng, pro	fundamentals of forestry and farm fores tecting, harvesting, and marketing.	stry prob	olems, ir	ncluding	plar
AGR	285	Soil Fertility	3	2	0	
Deals Carolii	with so na soils	oil fertility principles and the applicati , soil fertility evaluation, and soil conse	on of tl rvation p	hese pri practice	inciples s.	to N
AGR	290	Soil and Water Conservation	3	2	0	
	uction d water	to soil, water, and plant conservation; the conservation measures; and the relation	ne availa nship of	ble reso speciali.	ources to zed knov	carr vlec
Introd soil and agrond	omy, ec	conomics, engineering, soils, forestry, a	na recre	eation.		
Introd soil and agrond AGR	omy, ec 296	Agricultural Programs and Agencies	3	ation. 0	0	
Introd soil an agrond AGR Preview agricul	omy, ec 296 w of p tural p	Agricultural Programs and Agencies bublic agricultural programs and age roducers, including their objectives, org	3 ncies th anizatio	0 nat prov n, functi	0 vide servions, and	vice: serv

and the role of individual and group actions in the development of public programs. Policies and programs are analyzed, including the relationship to demand, supply, income, population, the nature of agricultural production, and social welfare.

AIR CONDITIONING, HEATING, AND REFRIGERATION Clinical/ Credit Class Lab Shop Hours AHR 101 Air Conditioning and Refrigeration 3 3 0 4

Introduction to the air conditioning and refrigeration field and to terminology relating to heating and cooling systems. Topics included are the basic laws of refrigeration, heat and heat transfer methods, servicing tools and equipment, and tubing and fittings. Shop practice will be given in operations such as tube bending, flaring, swaging, and soldering.

AHR 106 Architectural Mechanical Equipment 3 3 0 4

General study of heating, air conditioning, plumbing, and electrical equipment, materials, and symbols, and building code requirements pertaining to residential and commercial structures. Reading and interpretation of working drawings prepared by mechanical engineers and coordination of mechanical and electrical features with structural and architectural designs are included.

AHR 201 Principles of Heating 3 3 0 4

Warm air systems, heat emitter, electric heating, forced hot water and steam heating systems including selection and sizing of equipment such as registers, grills, furnaces, boilers, radiators, baseboards, piping, and ducts. Heating layout and specifications for an existing structure or one on blueprint stage will be prepared.

AHR 1101 Automotive Air Conditioning 3 0 6 5

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

AHR 1102 Introduction to Cooling and 3 0 9 6 Heating Systems

Covers the basic principles of cooling and heating related to industrial systems. Air conditioning, refrigeration, and heating systems are studied as well as fluid flow, air distribution, and control systems. Special industrial cooling and heating systems are included.

AHR 1107 Gas Laws Refrigeration 2 0 3 3

Terminology, laws of refrigeration, absolute pressure and absolute temperature, energy conversion units; specific heat; latent heat, and sensible heat; measurement of heat in quantity and intensity; tone of refrigeration, pressure temperature relationship; transfer of heat by conduction, convection, and radiation.

AHR 1115 Fundamentals of Heating 2 0 6 4

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

						Clinical/	Credit
				Class	Lab	Shop	Hours
AHR	1121	Principles of Refrigeration	x	3	0	12	7

An introduction to the principles of refrigeration. Terminology, the use and care of tools and equipment, and the identification and the function of the component parts of refrigeration systems are covered. Practical work with hand tools, materials, piping, and ductwork is given to develop basic skills in the installation of refrigeration systems. Standard procedures and safety measures are stressed.

AHR1122Domestic and Commercial3065Refrigeration

Prerequisite: AHR 1121

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

AHR1123Principles of Air Conditioning30127

Prerequisite: AHR 1122

Includes a study of the selection of various heating, cooling, and ventilation systems and the investigation and control of factors affecting air cleaning in air movement, temperature and humidity. Psychrometric charts are used in determining optimum temperature, and humidity control. Commercial air conditioning equipment is assembled and tested. Practical sizing and balancing of duct work is performed as needed.

AHR1124Air Conditioning, Heating and3065Refrigeration Servicing

Prerequisite: AHR 1123

Emphasis is placed on the maintenance and servicing of equipment used in the cleaning, changing, humidification and temperature control of air in an air conditioned space. Shop work involves locating and correcting equipment failures and controlling, testing, and adjusting heating and cooling equipment to maximize energy conservation.

AHR1126All Year Comfort Systems3065

Prerequisite: AHR 1123, AHR 1128

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

AHR 1128 Automatic Controls

0 6 5

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Prerequisite: ELC 1102, AHR 1122

Types of automatic controls and their function in heating and cooling systems. Included in the course will be electric, electronic, mechanical, and pneumatic controls for domestic and commercial heating and cooling along with zone controls, unit heater and ventilator controls, commercial fan system controls, commercial refrigeration controls, and radiant panel controls.

BANK	ING	AND FINANCE	Class	Lab	Clinical/	Credit Hours
AIB	111	Business Administration	4	0	0	4

Emphasis placed on the managerial responsibility of coordinating carefully the many facets of a business enterprise. Also stresses the background of administration, financial management, production, labor-management relations, marketing, coordination and control, and public relations problems.

AIB	120	Accounting I	4	0	0	4
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Comprehensive treatment of all up-to-date principles giving the student ample opportunity through examples, illustrations, and correlated activities to learn how the principles are applied. End-of-unit summaries have special sections for both principles and managerial implications.

AIB	121	Accounting II	4	0	0	4
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Prerequisite: AIB 121

Content of this course selected with two major objectives in mind: immediate on-thejob usefulness and contribution to the student's future growth in the banking field. Consists of a detailed study of balance sheet items, covers manufacturing accounting and production costing, and includes an appropriate study of cost analysis for managerial decisions.

AIB	122	Fundamentals of Bank Data	4	0	0	- 4
		Processing				

This course is designed for non-data processing personnel at any level who would like a general understanding of data processing principles and their banking applications. The course presents the concepts of data processing and the basic functions of computers using analogies and illustratons from the banking industry. It discusses present and future bank applications of data processing, including MICR and EFTS.

AIB	123	Financing Business Enterprise	4	0	0	- 4	
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Stress is placed on the difference between lending and investing, and on the fact that investing in a corporation and financing a corporation are different aspects of the same subject. Material is presented from the veiwpoint of the corporate treasurer who must safeguard the financial future of the corporation.

AIB 202 Principles of Bank Operation 4 0 0 4

Fundamentals of bank functions in a descriptive fashion so that the beginning banker may view the profession in a broad (and operational) perspective. The descriptive orientation is intentional. Banking is increasingly dependent upon personnel who have the broad perspective so necessary for career advancement.

AIB 203 Bank Investments 4 0 0 4

Because the bank's needs for primary reserves and loanable funds limit the funds available for investment, this course describes the nature of such funds and how their uses are determined. It also analyzes the primary and secondary reserve needs of commercial banks, the sources of reserves, and their random and cyclical fluctuations, showing the influence of these factors on investment policy. This analysis is followed by a study of yield changes as they affect a bank's long-term holdings.

					Clinical/	Credit	
			Class	Lab	Shop	Hours	
AIB	204	Bank Management By Objectives	0	2	0	1	

Middle management seminar designed to assist bank officers in learning how to translate bank problems into realistic goals for the individual and the bank, through the management-by-objectives system. Cases and outside readings are used in this seminar. It can be presented as a brief, intense workshop or an eight-session seminar.

AIB 205 Bank Management 4 0 0 4

Philosophy and practice of management. The study and application of the principles outlined provide new and experienced bankers with a working knowledge of bank management.

AIB 206 Bank Letters and Reports 4 0 0 4

Designed for those bank officers, supervisors, and employees who dictate or review correspondence. Since bank letters are actually public relations documents, all persons should be familiar not only with the mechanical forms of bank letters, but also with the psychological principles that help the letter writer achieve best results. Reviews letter forms, emphasizes fundamental principles underlying modern correspondence, and examines different kinds of bank letters.

AIB 207 International Banking 4 0 0 4

Introduction to a vast field for those working in international departments, as well as for those involved in the domestic activities of their banks. Presents the basic framework and fundamentals of international banking; how money is transferred from one country to another, how trade is financed, what the international agencies are and how they supplement the work of commercial banks, and how money is changed from one currency to another.

AIB 208 Conference Planning and Leadership 0 2 0 1

Centered on a specific phase of the problem of human understanding. The course is concerned with an important responsibility of management: to communicate and to coordinate ideas in the most effective way possible. Consideration is given to the dynamics of human interaction in groups convened to solve problems and make decisions. The essentials of parliamentary procedure are also stressed, thus presenting an effective technique for achieving consensus and formalizing and recording the decision-making process.

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0

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AIB 209 Installment Credit

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Techniques of installment lending presented concisely. Emphasis is placed on establishing the credit, obtaining and checking information, servicing the loan, and collecting the amounts due. Each phase of a bank's installment credit operation should be carefully scrutinized to be certain that the most efficient methods are employed, for only through an efficient operation can a bank maximize its profits on this particular kind of credit. Other topics discussed are inventory financing, special loan programs, business development and advertising, and the public relations aspect of installment lending.

AIB 210 Money and Banking 4 0

Stresses the practical aspects of money and banking and emphasizes the basic monetary theory needed by the banking student to apply his knowledge to his particular job. Historical treatment kept to a minimum. Emphasis is also placed on such problems as economic stabilization, types of spending, the role of gold, limitations of central bank

Clinical/ Credit Class Lab Shop Hours

control, government fiscal policy, balance of payments, and foreign exchange, showing their repercussions on the banking industry in affecting yield curves and structuring of portfolios.

AIB 212 Planning Management Development 0 2 0 1

Middle management seminar designed to assist bank officers who are responsible for the planning, recruiting, and development of bank management personnel. Cases and outside readings are used. It can be presented as a brief, intense workshop or as a twelve-session seminar.

AIB 213 Trust Functions 4 0 0 4

Presents a complete picture of the services rendered by institutions engaged in trust **business. Providing an introduction** to the services and duties involved in trust operations, the course is intended for all bankers, not just those who are engaged in trust **business.** It endeavors to keep clear the distinction between business and legal aspects of trust functions.

AIB 214 Effective Speaking 4 0 0 4

Students given an opportunity to study all phases of speech situations. Directed primarily to the student seeking to give an account on the public platform. Other speech situations are not neglected. Having studied the basic principles involved in organizing and presenting a speech, students are given suggestions to aid in developing speaking ability in situations such as conferences, panel discussions, radio, and television.

AIB 219 Credit Administration 4 0 0 4

Directed toward the executive level, concerned partly with a statement and a discussion of factors influencing and determining loan policy. Methods of credit investigation and analysis, credit techniques, specific credit problems, and regular as well as unusual types of loans are discussed.

AIB 231 Savings and Time Deposit Banking 4 0 0 4

Reflects recognition of the fact that a knowledge of the historical development of savings institutions and an awareness of the basic economic function of the savings process are necessary to an understanding of the current operations and policies of these institutions. Begins with a review of the economics of the savings process in order to clarify important differences between financial savings by individuals or organizations and real savings that appear as capital formation. Different types of financial savings are reviewed in order to describe the system of financial flows of income to capital investment.

AIB 232 Agricultural Finance 4 0 0 4

Reflecting the rapid growth of the off-farm agribusiness sectors (the suppliers of farm inputs), this course emphasizes general principles associated with the evaluation of management and the use of capital rather than the examination of land and labor resources which are more closely aligned with agricultural production. An understanding of agricultural finance should help the banker in satisfying the credit needs of modern agriculture.

AIB 233 Analyzing Financial Statements 4 0 0 4

Characteristics of financial statements and financial statements analysis. The first section serves as a useful review of basic accounting principles for those students who have

Clinical/ Credit

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Lab Shop Hours

Class

studied accounting. For those who have not, this section provides the minimum accounting background necessary for profitable study of financial statement analysis.

AIB 234 Loss Prevention

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This seminar focuses on check cashing, check swindles, bank holdups, and security procedures.

AIB 235 Loan and Discount 3 0 0

This seminar teaches bank employees the essential facts about promissory notes, including calculating interest and discounting commercial paper; guarantees; general collateral agreements; examining and processing documents accompanying notes secured by stocks, bonds, and savings account passbooks; and the concepts of attachment, perfection, priority, default, and foreclosure.

AIB 236 Home Mortgage Lending 4 0 0 4

Approaches the subject from the viewpoint of the mortgage loan officer who seeks to develop a sound mortgage portfolio. A picture of the mortgage market is presented first; then the acquisition of a mortgage portfolio, mortgage plans and procedures, mortgage loan processing and servicing; and finally the obligations of the mortgage loan officer in overall portfolio management.

AIB 237 Selling Bank Services 0 2 0 1

Teaches tellers and new-accounts personnel how to recognize and meet bank customer needs; checking accounts, savings services, loans to individuals, and safe deposit boxes, travelers' checks, and cross selling.

AIB 239 Bank Public Relations and Marketing 4 0 0 4

Discusses the basis of public relations, both internal and external, and seeks to explain the why, the what, and some of the how of public relations and marketing. Intended as an overview for all bankers in terms of what everyone in banking should know about the essentials of bank public relations and marketing.

AIB 259 Law and Banking 4 0 0 4

Introduction to basic U. S. law, presenting the rules of law which underlie banking. Topics include jurisprudence, the court system and civil procedure, contracts, quasicontracts, property, torts and crimes, agencies, partnerships, corporations, sales of personal property, commercial paper, bank deposits and collections, documents of titles, and secured transactions. Emphasis is on the Uniform Commercial Code.

AIB 272 Supervision and Personnel 4 0 0 4 Administration

Designed to aid first-line supervisors in making a smooth transition from expert in a particular task to the role of a supervisor who must produce results through the efforts of other people. In this role, the first-line supervisor must reflect management attitudes and carry out management policies while at the same time inspiring his group to achieve friendly cooperation and maximum production.

ANTH	IROP	POLOGY	Class	Lab	Clinical/ Shop	Credit Hours
ANT	150	Introduction to Anthropology	5	0	0	5
Genera animal within ments	al intr . Topi and b of cult	oduction to anthropology, the sciences cs considered: physical evolution of between modern human populations cure, cultural dynamics viewed analyt	mankind a mankind a s, prehistor ically and c	and bid ic and ompar	e culture ological v historic c atively.	-bearing ariations develop-
ANT	160	Societies Around the World	5	0	0	5
Prereq Ethnog cultura	uisite: raphic I patte	Specified score on reading placement survey of world culture areas sho erns.	nt test or EN owing simil	NG 100 arities	R4 and varia	ations ir
ARCH	HITEC	TURF				and a factor for the second second

ARC 106 Architectural Drafting 2 6 0 4

Designed to provide fundamental knowledge of the principles of drafting. Basic skills and techniques of drafting included are the use of drafting equipment, lettering, pictorial sketching, geometric construction, and orthographic instrument drawing of principal views. Projection problems dealing with principles of descriptive geometry involving points, lines, planes, and solids, and the principles of isometric, oblique, and perspective drawings are included. Applications of descriptive geometry are used in visualization and analytical solutions of the drafting problems involving auxiliary views, intersections, and developments.

ARC 107 Architectural Drafting

Prerequisite: ARC 106

Includes the development of techniques in architectural lettering, symbols, dimensioning, freehand and instrument drafting, and the development of a complete set of working drawings for a residence, with construction details and the use of appropriate material symbols and connections. Section, scale details, and full-size details will be prepared from preliminary sketches.

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ARC 108 Architectural Drafting

Prerequisites: ARC 107, AHR 106, CIV 105

An indepth approach to the study of architectural drafting. Development of techniques in architectural lettering, dimensioning, freehand sketching and instrument drawing, and drawings of construction details, using appropriate material symbols will be included. A continuation of ARC 107, this course includes an introduction to commercial working drawings. Working drawings, including plans, elevations, sketches, scale details, and wall section details are prepared from preliminary sketches.

ARC 201 Architectural Design I

Prerequisite: ARC 107

Basic design principles; development of design as it relates to the details, structure, and aesthetic functions of buildings; design presentations and architectural models; and group and individual problems in design.

			Class	Lab	Clinical/ Shop	Credit Hours
ARC	202	Environmental Design	2	3	0	3
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Prerequisite: ARC 107

Design principles of regional and city planning, research reports, maps, and problems in environmental design.

ARC 220 Architectural Drafting 2 9 0 5

Prerequisite: ARC 108

Includes commercial working drawings; materials used in commercial buildings; systems of construction; and drawing of structural plans and details as prepared for building construction, including steel, concrete, and timber structural components. Appropriate details and drawings necessary for construction are studied. Reference materials are used to provide the draftsman with skills and knowledge in locating data and in using handbooks.

ARC 221 Architectural Drafting 2 9 0 5

Prerequisite: ARC 220

Individual or group projects which involve the coordination of working drawings for commercial work. Consideration is given to coordination of mechanical and electrical features with structural and architectural components. A two-week problem in model building or architectural presentation work is included.

ARC 222 Architectural Drafting 2 9 0 5

Prerequisites: ARC 221, CIV 101, DFT 235

Preparation of a complete set of working drawings for the architectural structure, coordinating floor plans, elevations, wall sections, and details. Site and landscaping plans are studied and drawn. Final assembly of the complete document for construction purposes made. Plans include environmental and energy considerations.

168ARC233Office Practice Seminar2002

Study of the professional relationship of the architectural firm to clients, contractors, suppliers, consultants, and other architects. Ethics of the profession as applied to the draftsman's role in the architectural firm are emphasized as well as the legal aspects of architectural practice.

ART

ART 160 Art Appreciation 3 0 0 3

Exploratory study of the visual experience; intended to enhance the student's understanding and enjoyment of art.

ART 170 Color and Design 5 0 0 5

Study of principles common to all visual work emphasizing color, line, shape, space, volume, texture, and their psychological and physical effects on the viewer.

BIOLOGY

BIO 101 Basic Life Sciences

Foundation of facts and principles in the normal structure and related functioning of the following body systems: skeletal, muscular, digestive, circulatory, respiratory, uri-

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sents principles a normal body as a	e, endocrine, integumentary, nervo and concepts of physiology and ir basic for understanding variations f	us, and s nmunol rom the	special se ogy. Pre normal	ense org sentatio	ans. Pre- n of the
BIO 101A Bas	ic Life Sciences	4	2	0	5
Basic background nclude skeletal, m basic foundation f BIO 101B Bas	l in normal human anatomy and pl nuscular, nervous, digestive, circula facts as related to health and diseas ic Life Sciences	hysiolog itory, and e. 4	y. Body d special 2	systems senses.	covered Presents
Prerequisite: BIO	101A		-	, in the second se	9
Continuation of E urinary, reproduct	BIO 101A with emphasis on the bo tive, endocrine, and digestive.	ody syst	ems suc	h as res	piratory,
BIO 106 Mie	crobiology	2	2	0	3

Class

Lab

Prerequisite: BIO 101 (minimum grade of "C")

A study of basic microbiology and its relationship to health and disease. Includes basic laboratory practice, microbial physiology, environmental, medical, and applied microbiology.

BIO	107	Anatomy and Physiology I	4	2	0	5
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A study of the structure and normal function of the human body with man identified as a living organism composed of living cells, tissue, organs, and systems. An introduction to radiographic positioning, as well as the anatomy, and positioning of the chest, abdomen, and upper extremities. A laboratory portion for student to position the anatomical parts covered.

BIO Anatomy and Physiology II 2 0 5 108 Δ

Continuation of the study of the structure and normal function of humans as living organisms. Special emphasis is on the circulatory, lymphatic, digestive, nervous, endocrine, reproductive systems, special senses, and fluid and electrolyte balance. Laboratory experiences include study of models and small animal dissection for insight into comparative structure and function of humans.

Human Anatomy and Physiology I 3 2 0 4 BIO 201

Prerequisite: BIO 106, CHM 110

An advanced study of the anatomy and physiology of the human body including study of the cell, skeletal, muscular, nervous, and reproductive systems. Emphasis is placed on body processes as they apply to the normal and disease states.

3 2 0 BIO Human Anatomy and Physiology II 202

Prerequisite: BIO 201 (minimum grade of "C")

A continuation of the study of human anatomy and physiology with consideration of the cardiovascular, digestive, respiratory, urinary, endocrine, and integumentary systems and a study of fluid and electrolyte balance. Emphasis is placed on body processes as they apply to normal and disease states.

BIO 208 Pathology	3	0	0	3
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Prerequisite: BIO 108

Detailed study of various diseases with emphasis on the ones most commonly seen in

169

Clinical/ Credit

Hours rehe

Shop

Clinical/ Credit Class Lab Shop Hours

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3

the radiology department. Radiographic appearance of the disease and the effect on radiographic exposure required for accurate visualization are dealt with in depth.

BIO 250 General Biology I

Prerequisite: Specified score on reading placement test Introduction to basic biological concepts and principles; a study of the chemical and physical properties of the living cell; cell structure-function relationship; and cell reproduction and genetics.

BIO 251 General Biology II 3 2 0 4

Prerequisite: Specified score on reading placement test

A survey of the five kingdoms with emphasis on structure-function relationships and on phylogenetic complexity. In addition, vertebrate nutrition and digestion, gas exchange. blood and transport systems, and animal excretion will be studied.

BIO 252 General Biology III 3 2 0 4

Prerequisite: BIO 251

A continuation of the study of vertebrate systems including skeletal, muscular, reproductive, endocrine, and temperature regulating systems. The structure, growth, transport system, and reproductive system of vascular plants will be studied. Ecosystems, ecology, and evolution are also considered.

BIO 1104 Introduction to Microbiology 3 0 0 3

Presentation of the basic principles of microbiology to aid students in understanding the relationship of microorganisms with the maintenance of health and the cause, control, and prevention of disease.

170 BUSINESS

BUS100Business EducationOO<th

Orientation to the business community; emphasis on employment opportunities in the secretarial and clerical fields, entry level job requirements, services of local employment agencies and personnel departments, and procedures to follow in obtaining employment. Activities will include guest speakers from the business community and the business education department.

BUS 102 Beginning Typewriting 2 3 0 3

Emphasis on study of the keyboard, mechanics of the typewriter necessary for the acquisition of elementary typewriting skills, and development of speed and accuracy.

BUS 103 Intermediate Typewriting 2 3 0 3

Prerequisite: BUS 102 or equivalent

Development of speed and accuracy with further mastery of correct typewriting techniques as-applied to tabulation, manuscript, correspondence, and business forms.

BUS 104 Advanced Typewriting 2 3 0 3

Prerequisite: BUS 103

Emphasis on production typing problems and speed building. Attention to the development of the student's ability to function as a typist, producing mailable copy.

	Class	C Lab	Clinical/ Shop	Credit Hours
BUS 105A Introduction to Shorthand	2	3	0	3
Beginning course in theory and practice of re	eading and w	vriting C	Gregg sh	orthand
BUS 105B Introduction to Shorthand	2	3	0	3
Prerequisite: BUS 105A or equivalent Sequel to BUS 105A; emphasis on phonetics, pe and phrases.	enmanship, w	ord fam	iilies, bri	ef forms
BUS 106 Beginning Shorthand	5	0	0	5
Prerequisite: ENG 1015				
Beginning course in theory and practice of re Emphasis on phonetics, penmanship, word fami	eading and v ilies, brief fo	vriting (rms, and	Gregg sh d phrase	orthand s.
BUS 106A Shorthand Lab	0	5	0	0
Dictation practice in shorthand lab to accompar	ny shorthand	class.		
BUS 107 Intermediate Shorthand	5	0	0	5
Prerequisite: BUS 106 or equivalent Corequisite: BUS 113 Continued study of theory with greater emp transcription.	phasis on di	ctation	and ele	ementary
BUS 107A Shorthand Lab	0	5	0	0
Dictation practice in shorthand lab to accompar	ny shorthand	class.		
BUS 108 Advanced Shorthand	5	0	0	5
Prerequisite: BUS 107 Corerequisite: BUS 114 Review of shorthand principles, daily speed p dictation and transcription speed.	ractice, and	develop	oment o	f greate
BUS 108A Shorthand Lab	0	5	0	0
Dictation practice in shorthand lab to accompar	ny shorthand	class.		
BUS 110 Office Machines	2	2	0	3
Prerequisite: MAT 100R or equivalent Training in techniques, processes, operations, machines, full keyboard adding machines, and e	, and applica electronic an	itions of d rotary	f ten-ke calculat	y adding ors.
BUS 112 Filing	3	0	0	3
Fundamentals of indexing and filing, combinir miniature letters, filing boxes, and guides. Stu modern filing equipment.	ng theory an Idents will al	d practi so becc	ce by th me fam	ne use o iliar witl
RUS 113 Machine Transcription I	5	0	0	5

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Prerequisites: BUS 103, ENG 1015

Introductory course in the correct techniques of operating the dictating and transcribing units, plus fundamentals of transcription such as spelling, punctuation, grammar, letter placement, and the use of reference materials.

				Class	Lab	Shop	Hours
	BUS	114	Machine Transcription II	5	0	0	5
	Prereo	uisite:	BUS 113				
	Contir corres	nuation ponder	of BUS 113 with additional emphace.	asis on proc	ducing r	nailable	business
	BUS	115M	Medical Ethics and Law	3	0	0	3
	Study regard office	of the j to info worker	orinciples of office conduct, ethical ormation acquired, and obligations or transcriber. Laws governing mee	responsibil s and respo dical practic	ity of the nsibilitie e are als	e office s is of the o includ	taff with medical ed.
	BUS	117	Office Machines	3	2	0	4
	Prereq Opera standi oped. machin	juisites: tion of ng of tl An app nes voo	BUS 102, MAT 110 the machines used in duplicating a ne functions of each machine and h preciation for accuracy of machine w rabulary developed.	and calculat now it simpl vork; and du	ing proc ifies offi uplicatin	esses. A ce work g and ca	n under- is devel- lculating
	BUS	123	Business Finance	3	0	0	3
	Financ detaile	ing of ed study	business units, as individuals, parti y of short-term, long-term, and con	nerships, co Isumer finan	orporatio icing is i	ns, and ncluded.	trusts. A
	BUS	128	Basic Accounting I	3	0	0	3
	Study Studer and th for pay	of the nts wor e prepa yrolls, r	basic accounting concepts as appl k problems involving the accountin aration of financial statements. The nerchandise, and notes.	ied to a per g cycle, utili course inclu	rsonal se izing jou udes acce	ervice er rnals and ounting	iterprise. d ledgers methods
170	BUS	129	Basic Accounting II	3	0	0	3
172	Prerect Study of inst long-t merch	quisite: of basic allmen erm as andisir	BUS 128 accounting concepts as applied to a t and consignment sales, accounting sets and owner's equity, and year ig and wholesale businesses.	a merchandi g for purcha r-end proce	sing firm ses and s dures to	. Include ales, inv be foll	es a study entories, owed in
	BUS	134	Personal Grooming	3	0	0	3
	Desigr and er metho	ned to motion ods of p	help students recognize the impor al dimensions of personality. Empha ersonal improvement.	tance of phy asis is placed	ysical, in I on pois	tellectua e, groon	al, social, ning, and
	BUS	150	Ten-Key Adding Machine	0	2	0	1
	Traini adding or elec	ng in t g machi ctive.	he techniques, processes, operatic ne. Offered only for students not tak	ons, and app king BUS 110	plication or BUS 1	s of the 17 for gr	ten-key aduation
	BUS	151	Full-Key Adding Machine	0	2	0	1
	Traini adding or ele	ng in t g machi ctive.	he techniques, processes, operatic ine. Offered only for students not tak	ons, and app king BUS 110	plication or BUS 1	s of the 17 for gr	full-key aduation

					Clinical	/ Credit
			Class	Lab	Shop	Hours
BUS	152	Electronic Printing Calculator	0	2	0	1

Training in the techniques processes, operations, and application of the electronic printing calculator. Offered only for students not taking BUS 110 or BUS 117 for graduation or elective.

BUS 154 Cash Register 0 2 0 1

Training in the techniques. processes, and operation of the cash register to a level of proficiency of ringing up one item every three seconds. Offered only for students not taking BUS 231 for graduation or elective.

BUS 158 Applications in Billing Systems 0 2 0 1

Introduction to the fundamentals of mathematics in business and basic accounting procedures as necessary to the operation of an electronic billing system.

BUS 160 Introduction to Magnetic Tape 0 2 0 1 Selectric Typewriter

Prerequisite: BUS 102

Introduction to the functions and principles of the operation of the IBM MTST, Model VI. Emphasis is placed on the principle of recording material on a magnetic tape. The course covers recording, adjusting, and playing back recorded material.

BUS	161	Applications of Magnetic Tape	0	2	0	1
		Selectric Typewriter				

Prerequisite: BUS 160

Emphasis is placed on recording various business forms on tape and playing back recorded copies of letters, manuscripts, and statistical typing.

BUS	162	Applications of Magnetic Tape	0 2	2	0	1	
		Selectric Typewriter					

Prerequisite: BUS 161

Recording of form letters. Emphasis on revision function of MTST with practice on revising previously recorded material.

BUS 163 Application Selectric Ty	Application of Magnetic Tape	0	2	0	1	
		Selectric Typewriter				

Prerequisite: BUS 104

Corequisite: BUS 164

Introduces legal document formating and the application of legal documentation. Emphasizes the recording of legal forms on magnetic tape and the manual insertion of data on the playback copy.

BUS 164 Magnetic Tape Selectric Typewriter 2 3 0 3

Prerequisite: BUS 102

Introduction to the functions and principles of the operation of the IBM MTST, Model VI. Emphasis is placed on the principle of recording material on a magnetic tape and playing back recorded copies of letters, manuscripts, and statistical typing, and on the revision function of the MTST with practice on revision previously recorded material.

			Class	Lab	Clinical/ Shop	Cr Ho
BUS	165	Introduction to Business	5	0	0	
Surve busin funct	y of the ess org ions of l	business world with particular atten anizations, methods of financing business and relationships in socie	ntion to the str , internal orga ty, and curren	ucture o anizatio t proble	of variou: on, mana ems.	s typ Igen
BUS	166	Business Law I	3	0	0	
Study contr frequ	of the acts, age ently ar	law as it applies to ordinary busir ency and employment, and comme ising in business and social life.	ness transactio ercial paper. Ex	ns, incl posure	luding th to legal p	ne la prob
BUS	167	Business Law II	3	0	0	
Conti insura	inuatior ance, ar	n of BUS 166. Includes the law of p nd torts.	personal prope	erty and	l bailmer	nts,
BUS	181M	1 Administrative Medical Office Assistant Procedures	3	0	0	
Provi sis is mail proce	des ade placed process edures;	quate training for the assistant to be on medical ethics and law; recept ing procedures; records manage and accident insurance.	e efficient in th tionist's duties ment billing,	e medio ; telepł collecti	cal office none tec ing, and	. Em hnic bar
BUS	182N	A Clinical Assistant Procedures	3	0	0	
Cont as mic emer thera	inuatior crobiolo gencies py, min	n of medical office training covering ogy, pharmacology, diagnostic labo , and administration of medications or surgery, etc.	g a vast area of pratory proced s. Further study	clinical ures, fir / in assis	techniq staid and sting with	ues, I me i ph
BUS	183L	Legal Typing Practice	3	0	0	
BUS Prere Train inclu follow respo	183L quisite: ing in th des typi wing est onsibiliti	Legal Typing Practice BUS 103 he functions, operations, and duties ing legal documents, reviewing ger ablished procedures, performing ger es of a legal secretary.	3 s performed in neral informat general office	0 a legal o ion abo routine	0 office. Th out tasks a , and lead	ie co assig
BUS Prere Train inclu follow responses	183L quisite: ing in th des typi wing est onsibiliti 183N	Legal Typing Practice BUS 103 he functions, operations, and duties ing legal documents, reviewing ger tablished procedures, performing g ies of a legal secretary. A Medical Typing Practice	3 s performed in neral informat general office	0 a legal o ion abo routine 3	0 office. Th out tasks a , and lead	ie co assig rnin
BUS Prere Train inclu follow respo BUS Train cal m vocal	183L equisite: ing in th des typi wing est onsibiliti 183N ing in th aterial a oulary a	Legal Typing Practice BUS 103 The functions, operations, and duties ing legal documents, reviewing gen ablished procedures, performing g tes of a legal secretary. A Medical Typing Practice The functions, operations, and duties acquaints the prospective medical nd procedures.	3 s performed in neral informat general office 2 s performed in assistant with	0 a legal o ion abo routine 3 a medio commo	0 office. Th out tasks a , and leas 0 cal office only used	ne co assig rnin . Te l me
BUS Prere Train inclu follow respo BUS Train cal m vocal BUS	183L equisite: ing in th des typi wing est onsibiliti 183N ing in th laterial a bulary a 184N	Legal Typing Practice BUS 103 the functions, operations, and duties ing legal documents, reviewing gen- tablished procedures, performing gen- tes of a legal secretary. A Medical Typing Practice the functions, operations, and duties acquaints the prospective medical nd procedures. A Terminology and Vocabulary: Medical I	3 s performed in neral informat general office 2 s performed in assistant with 3	0 a legal d ion abo routine 3 a medic commo	0 office. The but tasks a , and lead 0 cal office only used 0	ne co assig rnin . Te I me
BUS Prere Train inclu follow response BUS Train cal m vocal BUS Intro place their	183L equisite: ing in th des typi wing est onsibiliti 183N ing in th laterial a bulary a 184N duction d on sp combin	Legal Typing Practice BUS 103 he functions, operations, and duties ing legal documents, reviewing get tablished procedures, performing get ies of a legal secretary. A Medical Typing Practice he functions, operations, and duties acquaints the prospective medical nd procedures. A Terminology and Vocabulary: Medical I to the study of the structure of belling and defining commonly-us ing forms.	3 s performed in neral informat general office 2 s performed in assistant with 3 medical word sed prefixes, s	0 a legal of ion abo routine 3 a medio commo 0 s and to uffixes,	0 office. The out tasks a , and lead 0 cal office only used 0 erms. Em	ne co assig rnin . Te l me apha ords

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Continuation of the study of medical words and terms with emphasis on words as they pertain to anatomy, physiology, diseases, operations, tumors, drugs, and related descriptive terms.

			Class	Lab	Clinical/ Shop	Credit Hours
BUS	186M	Terminology and Vocabulary: Medical III	3	0	0	3

Continuation of BUS 185M with additional study emphasizing the various systems of the body.

BUS	187M	Terminology and Vocabulary:	3	0	0	3
		Medical IV				

Prerequisites: BUS 184M, 185M, 186M

This course is a culmination of the three previous courses of medical terminology. Its value lies in the extensive coverage of surgical instruments, surgical procedures, study of the more common diseases and anomalies, etc., that are such an essential part of medical reports. Spelling and pronunciation are emphasized.

BUS 188 Medical Transcription I 4 2 0 5

Machine transcription from cassette recordings produced by the American Medical Record Association of materials routinely transcribed in a medical office. Units include history and physical and radiology, operation, pathology, and autopsy reports and discharge summaries.

BUS 189 Medical Transcription II 4 2 0	5
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Continuation of BUS 188 with units containing work in the following areas: psychiatry, pediatrics, obstetrics and gynecology, corrective surgery, and the endocrine, respiratory, genitourinary, gastrointestinal, cardiovascular, and neurological systems.

BUS	191	Electronic Keyboarding	2	3	0	3

Corequisite: BUS 104 or permission from instructor This course is designed to give the student intensive training on the IBM Electronic 75 Typewriter through programmed instruction.

BUS 192 Word Processing Applications 2 3 0 3

Prerequisite: BUS 104, 191, or permission from instructor This course is designed to give the student a basic understanding of the operation of the IBM Displaywriter system through programmed instruction and diskettes.

BUS 205 Production Typewriting 2 3 0 3

Prerequisite: BUS 258

Development of individual production rates. Techniques needed in planning and in typing projects that closely approximate the work appropriate to the field of study.

BUS 213 Machine Transcription III 5 0 0 5

Prerequisite: BUS 114

Emphasis on refinement of machine transcription skills and developing proficiency in producing mailable copy.

BUS 214A Clinical Experience 0 18 0 6

Prerequisites: BUS 183M, 185M, 188, 189

Introduction through on-the-job experience to practice of medical transcription, using tapes of actual medical records in a physician's office, clinic, or hospital record room.

			Class	Lab	Clinical/ Shop	Credit Hours
BUS	214B	Medical Transcriber Seminar	2	0	0	2

Study of personal responsibilities as a medical transcriber, including employeeemployer relations and evaluation of clinical experience. Medical transcription experienced by the members of the class in the various medical specialties will also be reviewed.

BUS 215 Office Application 0 10 0 1

Prerequisites: BUS 205, 117

Emphasis on work experience and an opportunity for the practical application of the skills and knowledge previously learned. Student assigned to a commercial firm for general office work as required by the cooperating firm.

BUS 216 Office Procedures 5 0 0 5

Prerequisites: BUS 113 or BUS 107, BUS 258

Designed to acquaint students with the responsibilities encountered by a general office worker during the work day, including receptionist duties, handling the mail, telephone techniques, handling the multi-office switchboard, travel information, telegrams, office records, purchasing supplies, office organization, and scheduling appointments.

BUS 219 Credit Procedures and Problems 3 0 0 3

Prerequisite: ACT 150

Principles and practices in the extension of credit and the collection of accounts. Federal and state laws pertaining to credit extension and to collection are included.

BUS 222	Intermediate Accounting	5	0	0	5
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Prerequisite: ACT 152

Intensive review of the accounting cycle, including study of financial statements and closing procedures. Includes a more detailed study of current assets including cash, temporary investments, receivables, and inventories.

BUS 22	3 Intermediate Accounting	5	0	0	5
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Prerequisite: ACT 152

Advanced study of inventories, investments, and plant and intangible assets. Both current and long-term liabilities are examined. Procedural as well as theoretical studies are made.

BUS	224	Intermediate Accounting	5	0	0	5
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Prerequisite: BUS 223

Study of stockholder's equity accounts. Managerial information provided by earnings and equity per share, statement of changes in financial position, and financial statement analysis.

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BUS 225 Cost Accounting

Prerequisite: ACT 152

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

RUS226Payroll Accounting3204Prerequisite: ACT 151 Nn intensive study of Federal and State income tax requirements. Preparation of forr or social security and income withholding payments and unemployment taxes. Con prerequisite: BUS 227Advanced Accounting5005Prerequisite: BUS 227Advanced Accounting50055005Prerequisite: BUS 227Advanced Accounting50055005Prerequisite: BUS 22832044trevequisite: ACT 1523204reterequisite: ACT 152ederal and state income tax preparation. Includes preparation of income tax forms fo toole proprietorship, recording partnership income on the individual return, calculation facapital gains, accounting for rental property, and calculation of self-employment axes.3003US231Sales and Inventory Procedures300331003tudy of the fundamentals of retail, wholesale, and specialty selling as applied to th ales demonstration.300331003tudy of the application of planning, staffing, controlling, directing, and financing ta lecision making.300331003tudy of the application of planning, staffing, controlling, directing, and financing ta lecision making.300330330330 <th></th> <th></th> <th></th> <th>Class</th> <th>Lab</th> <th>Clinical/</th> <th>Credit</th>				Class	Lab	Clinical/	Credit
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BUS247Business Insurance3003Presentation of the basic principles of various types of insurance.EUS258Speed Typewriting2303Prerequisite: BUS 104	Study testing	of adv the eff	ertising appeals, product and market fectiveness of mass communications.	t researc	h, mec	lia select	ion, and
Presentation of the basic principles of various types of insurance.	BUS	247	Business Insurance	3	0	0	3
US 258 Speed Typewriting 2 3 0 3	Present	tation o	of the basic principles of various types	of insura	nce.		
rerequisite: BUS 104	BUS	258	Speed Typewriting	2	3	0	3
	Prerequ	uisite:	BUS 104				(

Emphasis on improving typing techniques, including stroke control, accuracy, forced speed building, and retained speed for long periods of typing straight copy.

BUS	259	Office Simulation	Class 2	Lab 3	Clinical, Shop 0	/ Credit Hours 3
Prereq Culmir typing purcha of inte and hu	uisite: 1 nation o invoice se orde raction iman re	BUS 216, 258 of typing skills development involving es, insurance forms, statements of accou- ers, and monthly reports. A simulation i with coworkers to enable students to lations skills needed for successful emp	g genera int, form s used th learn firs ploymen	l clerica letters, lat gives thand th t.	al duties reports, realistic ne perso	s such as payrolls, patterns onal traits
BUS	268	Auditing Theory	3	0	0	3
Study introd eviden	of the uction t ice, and	audit profession. Stresses professiona to the audit process, including an over l audit program planning.	l respon view, me	nsibilitie ethods o	s and e f obtain	thics. An ing audit
BUS	269	Auditing	3	0	0	3
More transac auditir	advance ctions a ng is clo	ed study of auditing techniques, inclu nd balances, and evaluation of internal osely examined.	ding sta control.	tistical s The repo	ampling orting fu	g, tests of nction of
BUS	271	Office Management	3	0	0	3
Study center	of basic	c management principles as applied to ,	o the off	ice as a	busines	ss service
BUS	272	Principles of Supervision	3	0	0	3
Study subore	of the l linates,	responsibilities and duties of a superv and associates.	isor as re	elated to	o his sup	pervisors,
BUS	290A	Special Problems in Business	1	0	0	1
BUS	290B	Special Problems in Business	1	0	0	1
BUS	290C	Special Problems in Business	1	0	0	1
Design of bus meet t of the	ned for iness m he spec staff.	students who want to expand their kno nanagement, accounting, or secretarial cific objectives of each student and is sup	wledge a skills. Th pervised	ind abili ne cours by an ap	ty in cer e is stru pointed	tain areas ctured to I member

BUS 1103 Small Business Operations 3 0 0 3

Introduction to the business world; includes problems of small business operations, basic business law, business forms and records, financial problems, ordering and inventorying, layout of equipment and offices, methods of improving business, and employer-employee relations.

BUS 1105 Industrial Organizations 3 0 0 3

Methods, techniques, and practices of modern management in planning, organizing and controlling operations of a manufacturing concern. Introduction to the competitive system and the factors constituting product costs.

CARPENTRY

CAR 1101 Carpentry

Brief history of carpentry and present trends of the construction industry. Involves operation, care, and safe use of carpenters' handtools and power tools in cutting,

3 0 15

8
and joining construction materials used by the carpenter. Major topics of s
theoretical and practical applications involving materials and methods of
n, building layout, preparation of site, footings and foundation wall cons
form construction and erection.

Class

3

Lab

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Clinical/ Credit

Hours

tudy

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3

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Shop

15

CAR 1102 Carpentry: Millwork and Cabinetmaking

Prerequisites: CAR 1101, DFT 1110

shaping,

include

struction

tion, and

Cabinetmaking and millwork as performed by the general carpenter for building construction. Use of shop tools and equipment emphasized in learning methods of construction of millwork and cabinetry. Practical applications include measuring, layout, and construction of base and wall cabinets, built-in desks, door and window frames, stairs, and interior and exterior cornices and trim. Materials and finishes are also studied.

CAR	1103	Carpentry: Framing	3	0	15	8
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Prerequisites: CAR 1101, DFT 1111

Principles and practices of frame construction beginning with the foundation sills and including floor joists, subfloors, wall studs, ceiling joists, rafters, bridging, bracing, sheathing, and interior wall partitions. Roof construction includes the layout and construction methods of common types of roof using standard after construction, truss construction, and post and beam construction. Application and selection of sheathing and roofing is included. Consideration is given to coordination of carpentry work with installation of electrical, air conditioning, heating, plumbing, and mechanical equipment.

CAR	1104	Carpentry: Finishing I			3	0	18	9
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Prerequisites: CAR 1103, DFT 1111

Emphasis on exterior and interior trims and finishes. Included are materials and methods used in finishing carpentry such as exterior cornices, door and window trims, interior flooring, door and window facings, moldings, and cornice construction; installation of hardware; and installation of built-in equipment and cabinets.

CAR 1113 Carpentry: Estimating 3 0 3 4

Prerequisites: DFT 1111, MAT 1112

Practical course in quantity "take off" from prints of jobs performed by the carpenter; figuring the quantities of materials needed and costs of building various components and structures.

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CAR 1114 Building Codes

Prerequisite: CAR 1103

Corequisite: CAR 1104

Study of building codes and the minimum requirements for local, county, and state construction regulations. Attention is given to safety, sanitation, mechanical equipment, and materials, and to a review of the minimum property requirements of the Federal Housing Administration and the North Carolina State Code.

COMMERCIAL ART

САТ	101	Advertising Principles	3	0	0	3

Comprehensive survey of the history and development of advertising including a

discus currer	sion of nt publi	its economic and social vications in the field.	Class values. Introduction	Lab to adve	Shop rtising m	Hours edia and			
CAT	102	Drawing I	1	4	0	3			
Emph these	Emphasis on basic principles and fundamentals of drawing. Includes application of these basic techniques in problems in perspective drawing and drawing from nature.								
CAT	103	Drawing II	1	4	0	3			

Prerequisite: CAT 102 Course consisting of a series of problems in which students explore color and advanced wet and dry media.

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CAT 104 Drawing III

Prerequisite: CAT 103

Course consisting of a series of problems concentrating on graphic interpretation of still-life, landscape, and figure.

CAT 107 Drafting for Art 1 3 0 2

Introduction to the field of drafting. Includes a study of drawing principles and practices for print reading and describing objects in the graphic language. Basic skills and techniques of drafting included are the use of drafting equipment, lettering, freehand orthographic and pictorial sketching, geometric instruction, orthographic instruction, drawing of principal views, and standards and practices of dimensioning. The principles of isometric, oblique, and perspective drawing are introduced.

CAT 108 Drafting for Art

Prerequisite: CAT 107

Application of orthographic projection principles to the more complex drafting problems, primary and secondary auxiliary views, simple and successive revolutions, and sections and conventions will be studied. Introduction of the graphical analysis of space problems. Problems of practical design elements involving points, lines, planes, and a combination of these elements shall be studied. Dimensioning practices approved by the American Standards Association will also be included. Introduction is given to the intersections and developments of various types of geometrical objects.

CAT 109 Drawing IV

4 0

Clinical/ Credit

Course consisting of a series of problems involving expression interpretation of graphic form; and stressing sophistication of concept and execution.

CAT 110 Art History to 1300 3 0 0 3

Brief survey of art and its development in western civilization with emphasis on the development of art forms of expression to thirteen-hundred.

CAT 111 Art History Since 1300 3 0 0 3

A brief survey of art and its development in western civilization with emphasis on the development of art forms in expression from thirteen-hundred to the modern era.

CAT 120 Illustration Techniques 1 4 0 3

Course introducing various media used in creating dynamic visual presentations, the object of which is to stimulate the student's awareness of alternative means of expression.

			Class		Clinical/	Credit
CAT	121	Design I	Class	Lab	Shop	Hours
Introd balanc some o	uction ce, value of the c	to basic design and its elements and co e, line, texture, and shape. Work with ba lesign possibilities of the two-dimension	oncepts. sic tools ial form	Deals and m at inclu	with pro naterials to uded.	blems in explore
CAT	122	Design II	3	6	0	6
Prereq Contir its app	juisite: nuation licatior	CAT 121 or portfolio of Design I with emphasis on the fundar and design potential.	nentals	and the	eories of c	olor and
CAT	123	Layout and Design I	2	6	0	5
Prerec Introd mecha	uction inicals,	CAT 107, 108, 121, 122 to the basic techniques of layout and gr typography, and production.	aphic de	esign ii	ncluding p	baste-up,
CAT	210	Production Techniques	1	4	0	3
and its printin mediu	formating are a m throu	to production techniques. Includes the ion and uses. Airbrush techniques and t lso included. Each student should acqui ugh laboratory exercises provided.	explora he comr re a woi	nercia rking k	f mechan l uses of si nowledge	ical type lkscreen e of each
CAT	212	Advertising Illustration	1	4	0	3
Introd of med	uction dia and	to the use of the illustration in advertisin illustration styles.	g. Stude	ents wi	ll explore	the uses
CAT	213	Advertising Illustration	1	4	0	3
Prereq Advan readin	uisite: ced pro ess of e	CAT 212 oblems in advertising illustration with o ach student to explore assigned tasks ar	emphasi nd probl	is on c lems.	originality	and the
CAT	214	Type and Letter Form Design	1	4	0	3
Includ mecha type ar	es han nical pi nd its u	d exercises with the pencil, pen point ocedures and laboratory exercises to acceage.	, and le quire kn	ttering owled	g brush as ge of avail	s well as ability of
CAT	218	Photomechanical Techniques	2	6	0	5
Advan Studen	ced dar hts expl	kroom techniques concerning both ton ore means of producing finished photo	al and g art worl	raphic < for cl	arts photo ient prese	ography. entation.
CAT	224	Layout and Design II	3	6	0	6
Prereq Introduing the duction	uisite: uction prepa n to the	CAT 123 to intermediate layout and design techn ration of camera-ready art work. Labora e graphic art darkroom procedures nec	iques fo itory pro essary fo	or offse oblems or offse	t printing include a et printing	, includ- an intro- g and an

introduction to the offset press operation.

CAT 225 Graphic Design I 3 6 0 6

Study of advanced problems in layout and design techniques and advanced darkroom procedures necessary for offset production. Laboratory exercises include multicolor offset production problems.

			Class	Lab	Clinical/ Shop 0	Credit Hours
т	226	Graphic Design II	3	6	0	6
lud	es use	of simulated professional work	ing conditions in u	utilizin	g advance	d layout

Includes use of simulated professional working conditions in utilizing advanced layout and design techniques for printing. Students will explore a variety of problems and present solutions for general class critique and discussion.

CAT 235 Portfolio Development 1 4 0 3

Students become familiar with specific areas of interest and prepare personal portfolios for presentation to prospective employers.

CAT 241 Painting: Water Color 0 6 0 3

Introduction to the methods of water-color painting. The fluidity of the medium, dry brush effects, and the use of tools and instruments of painting are included. Emphasis will be placed on the integrity of the medium.

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CAT 242 Drawing: Pastels 1 4 0

Introduction to techniques of pastels, including experimenting with application of chalk to various papers. The use of tools of the craft, methods of applying chalk to the paper surface, and utilizing the paper itself as a moving force in the medium are also included.

CAT 244 Fashion Illustration 1 4 0 3

Study of the clothed figure, with attention to the functional relationship of fashion design to the human form and to the study of draped fabric. Graphic interpretations of a live model in gesture and rendering fabric effects is emphasized.

CAT 245 Painting: Water Color II 0 6 0 3

The field of illustration will be explored using water color as a medium. Special attention will be given to the organization of forms, the many aspects of color, the application of paint as texture and light, and the special effects of various instruments. Work will be done from magazine cutout collages and from actual on-location field trips.

CAT 250 Special Problems in Commercial Art and Graphic Design 1 4 0 3

Designed for students who wish to expand their knowledge and ability in particular areas of interest. Permission to enroll must be obtained from department chairman.

CAT	251	Special Problems in Commercial Art				
		and Graphic Design	3	6	0	6

Course designed for the exceptional student who wishes to develop a particular project in a specific area of interest. Permission to enroll must be obtained from department chairman.

CHEMISTRY

CHM 101 Chemistry

Review of the physical and chemical properties of substances; chemical changes; elements, compounds, and gases; chemical combinations; weights and measurements; theory of metals; acids, bases, salts, solvents, solutions, and emulsions; electrochemistry, electrolytes, and electrolysis; and application of chemistry to industry.

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CA

			Class	Lab	Clinical/ Shop	Credit Hours
СНМ	102	Introduction to General Chemistry	4	2	0	5

An introduction to environmental chemistry. The course will cover the relationship of chemistry to man and his environment. Topcs studied include environmental measurements, atomic theory, the nature of chemical bonds, the structure of matter, molecular motion, and chemical reactions. Practical applications will be emphasized using class demonstrations and labs.

СНМ	103	General Chemistry II	4	2	0	5
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Prerequisite: CHM 102

A continuation of CHM 102 including practical applications to environmental problems. Topics covered include inorganic nomenclature, gas laws and properties, the liquid state, solutions and concentration, chemical equilibrium acids, bases, and heavy metals. Demonstrations and labs will be utilized.

СНМ	104	General Chemistry III	4	2	0	5
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Prerequisites: CHM 102, 103

Continuation of CHM 103 beginning with an introduction to organic and biochemistry. This will be followed by advanced topics in applied chemistry including: water and wastewater chemistry, chemical analysis of air and water samples, instrumental methods of air and water analysis.

CHM 106 **Organic Chemistry** 4 2 0

Study of the general principles and theories of organic chemistry and the preparation, formulas, and properties of the most important organic compounds, with a brief description of synthetic compounds of commercial value; vitamins, antibiotics, hormones, and pesticides are included.

0 CHM 110 **Chemistry for Nurses** 2 2

A survey of general, organic, and biological chemistry with emphasis placed on the aspects of chemistry that apply to physiological and biochemical processes.

CIVIL ENGINEERING

CIV 101 Surveying

Prerequisites: MAT 102, ARC 107

Study of the theory and practice of plane surveying, including taping, differential and profile leveling, cross sections, earthwork computations, transit stadia, and transit tape surveys. Layout of footings, floor levels, site work, and mapping included.

CIV 102 Surveying

Triangulation of ordinary precision, use of plane tablet, calculation of areas of land, land surveying, topographic surveys, and mapping are included in this course.

CIV 103 Surveying

Includes a study of route surveys by ground and aerial methods; simple, compound, reverse, parabolic, and spiral curves; geometric design of highways; and highway surveys and plans, including mass diagrams.

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					Clinical/	Credit
			Class	Lab	Shop	Hours
CIV	105	Architectural Materials and Methods I	3	3	0	4
Mater constr prope includ	ials use uction rties an ed.	d in the construction of architectural s sites and a study of manufacturers' s d standard sizes of structural material	tructures pecificati s and cor	are stur ons for ostructio	died. Fiel r materia on techni	d trips to Is and o iques are
CIV	1 0 6	Architectural Materials and Methods II	3	3	0	4
Prerec Study	juisite: of build	CIV 105 ling materials and construction metho	ds for co	mmerc	ial buildiı	ngs.
CIV	110	Surveyor Practices	1	0	0	1
Study	of the l	egal principles of surveys and resurvey	s, includi	ing bou	ndary co	ntrol and

interpretation of deed descriptions. Legal, judicial, and historical aspects of land surveying also studied.

CIV	114	Statics			5	0	0	5
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Prerequisite: MAT 102

Study of forces, resultants, and types of force systems; moments; equilibrium of coplanar forces for analytical and graphic methods; stresses and reactions in simple structures; equilibrium of forces in space; and center of gravity, centroids, moment of inertia, and hydrostatic load analysis.

CIV 204 Surveying

2 0 6 4 Study of aerial photogrammetry, applications of aerial surveys, building and road construction surveying, lines and grades for foundation layout, building construction bridge layout, and sewer and pipe line surveys.

184 CIV 216 Strength of Materials 3 2 4 0

Prerequisites: CIV 114, MAT 103

Study of fundamental stress and strain relationship; shear and bending moments; stresses and deflections in beams and columns. Design of members also included.

CIV 221 **Reinforced Concrete Construction** 3 2 0 4

Prerequisite: CIV 216

Analysis and design of reinforced concrete beams, floor systems, columns, use of CRSI Design Handbook, introduction to ultimate strength design, and principles of prestressed and precast concrete are studied. Field inspection trips are included.

CIV 223 **Codes, Contracts, and Specifications** 2 0 0

Study of the basic principles and methods significant in contract relationships; legal considerations in construction work; and the National Building Code and local building codes. Interpreting and outlining specifications also included.

CRIMINAL IUSTICE

CIC Introduction to Criminal Justice 101 5 0 0

Designed to provide an overview of the criminal justice system including its philosophy, objectives, and legal limitations in a democratic society.

	Class	Lab	Clinical/ Shop	Credit Hours
CJC 102 Legal Research I	3	0	0	3
Methods of legal research, proper citation of author ties, texts, reports, and the use of Shepard's Citations	ity, acqu s.	uaintar	ice with le	egal trea-
CJC 109 Interviewing	3	0	0	3
Prerequisite: Permission of instructor or coordinator Designed to provide a knowledge of the fundament viewing; introduction to interrogation and overview of to investigators.	tal techr of source	niques es of inf	employed ormation	l in inter- available
CJC 112 Motor Vehicle Laws	3	0	0	3
Study of the traffic enforcement codes with primary	emphas	is on N	lorth Card	olina law.
CIC 113 Corrections Law	3	0	0	3
Study of the laws which deal with the rights, custody, the supervision of the judicial system.	and co	ntrol of	individua	als under
CJC 115 Criminal Law I	3	0	0	3
Study of criminal laws dealing with offenses against the North Carolina law.	he perso	on. Emp	ohasis is p	laced on
CJC 116 Criminal Law II	3	0	0	3
Study of criminal laws dealing with offenses against pro Carolina law.	operty. E	mphas	is placed o	on North
CJC 120 Principles of Organization	3	0	0	3
Introduction to the principles of organization and ad theories and techniques utilized in public agencies.	ministra	tion wi	ith empha	sis upon
CJC 121 Personnel Supervision	3	0	0	3
Prerequisite: CJC 120 or permission of instructor or c Study of the principles and theories employed in mo	oordina dern pe	tor rsonne	l supervis	ion.
CJC 125 Criminal Procedure	3	0	0	3
Designed to provide the student with a knowledge o dures from the initial investigation through the final a	f legal a appeal.	spects	of crimina	al proce-
CJC 151, 152, 153, 154, 155, 156 Readings in Criminal Justice	1	0	0	1
Designed for students who wish to specialize or exp areas of criminal justice. Under the supervision of pol student studies materials relative to concepts in cri analyses. Times for students' independent study and in with the supervising instructor.	oand the ice scier minal ju dividua	eir kno nce fac ustice a I confe	wledge ir ulty mem and write rences are	n certain bers, the s critical allotted
CJC 204 Evidence Photography	3	3	0	4
Study of photographic principles and their applicatio Students develop skills in photographic techniques equipment through lab practice.	n to evi and the	dence use o	photograg f various	ohy. types of

			Class	Lab	Clinical/ Shop	Credit Hours
CIC	205	Evidence	3	0	0	3
Instruc rules ge	tion co overni	overs the legal aspects of the various ki ng the admissibility of evidence in co	nds and deg ourt.	grees o	f evidenc	e and the
CJC	210	Criminal Investigation	4	2	0	5
Prerequ Course	uisites: desig	CJC 204, 211 ned to instruct the student in the fun	damental c	oncep	ts of inve	stigation.
CJC	211	Criminalistics	4	2	0	5
gations CJC Prerequ Survey empha	with e 235 uisite: of the sis on o	Emphasis on evidence which is comp Forensic Science CHM 101 physical sciences and their applicati evidence which is compared chemica	ared by ph 3 on to the f ally.	ysical 1 2 ield of	means. 0 investiga	4 tion with
coo	PERA	TIVE EDUCATION				
COE	100	Student, Career, and Society	3	0	0	3
Prerequintroduction society improvements sized. E	uisite: uction . Atter emen sional o Design	One quarter as a full-time student as Education Program and orientation to experiential educa- ntion is given to responsibilities and o t and to preparation for employme community. Application of theory to ed to help students in vocational, tech	nd accepta ation and to opportuniti ent in the the actual anical, and o	nce int o broac es asso busine work s college	to the Co der partici ociated wi ess, indus ituation i e transfer	operative ipation in th career trial, and s empha- programs

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COE	101 — A, B, C, D*	Cooperative Education Field Experience	0	10-40	0	1-4
COE	102 — A, B, C, D					
COE	103 — A, B, C, D					
COE	104 — A, B, C, D					
COE	105 — A, B, C, D					
COE	106 — A, B, C, D					

Through Cooperative Education, students work in part-time or full-time positions related to their programs of study or career interests and for employers selected and/or approved by the institution. Students are supervised by a faculty member or cooperative education supervisor from the institution. Normal credit hours for the field work of a cooperative program are determined by dividing the average number of hours worked per week by ten and rounding to the nearest whole number. Generally, a student may receive a maximum of four credit hours, during any one quarter and a maximum of nine credit hours toward degree or diploma requirements. Those enrolled in the associate in arts degree programs can earn up to 6 credit hours of add-on credit.

*A (1), B (2), C (3), D (4) indicates credit hours possible.

make the transition from the campus to the world of work.

COSMETOLOGY	Class	Lab	Clinical/ Shop	Credit Hours		
COS 1101 Cosmetology I	0	0	40	12		
Includes a study of professional ethics, grooming and zation, sanitation, first aid, and bacteriology. The prac- ing, pin curling, roller curling, manicuring, marcelli	d persona ctical wor ng, hair c	ality de k is dev cutting,	velopment oted to fin and hair r	t, sterili- gerwav- elaxing.		
COS 1102 Cosmetology II	0	0	40	12		
Study of the theory and practical application of p wave), tinting and bleaching, anatomy, facials, and s	ermanen scalp trea	t wavii tments	ng (cold a	nd heat		
COS 1103 Cosmetology III	0	0	40	12		
Study of the theory and practical application of hair skin, nails, and hair; electricity; chemistry; and oper	styling a rational r	nd wig nanage	care; diso ment.	rders of		
COS 1104 Cosmetology IV	0.	0	40	12		
Study of the theory and practical application of a management, and salesmanship.	dvanced	hair st	yling, ope	rational		
CORRECTIONAL SCIENCE	t omenung diel konnten it its					
CSC 201 Marriage and the Family	3	0	0	3		
Study of courtship, engagement, marriage, parenth porary American society. Emphasis is placed on so aspects of family living and the adjustment of individ family.	ood, and icial, eco uals to th	family nomic, eir resp	living in c sexual, ar ective role	ontem- nd legal es in the		
CSC 203 Survey of Corrections	3	0	0	3		
Introduction and overview of fundamental processe and adult probation, institutional treatment, parole based correctional programs, both public and pri philosophy of corrections, with emphasis on the o included	s, trends, e, and co ivate. Re constituti	and pr ntempo view o onal ri	actices of j prary com f the histo ghts of of	uvenile munity- ory and fenders		

CSC 207 Confinement Facilities Administration 3 0 0 3

Supervision and administration of confinement facilities, involving techniques of inmate supervision, security, medical care of prisoners, food preparation, sanitation and various legal aspects controlling detention facilities, correctional institutions, and jails.

CSC 213 Dynamics of Substance Abuse 3 0 0 3

Introduction to the problem of substance abuse (alcohol, drugs, narcotics) in society. Designed to equip criminal justice, social service, and other human service workers with increased knowledge concerning history and classification of drugs of abuse; social impact and physical and psychological results of their abuse; and the various facilities and treatment modalities being used.

			Class	Lab	Clinical/ Shop	Credit Hours	
CSC	224	Rehabilitation Techniques	3	0	0	3	

Explores the different avenues of rehabilitation; new and innovative techniques of rehabilitation emphasized as they relate to successful methods.

CSC 226 Administration and Interpretation of Tests 3 0 0 3

Study of the rationale for group and individual testing. Includes the administration as well as the uses of tests of intelligence, interest, and achievement in educational and career planning. Practicum experience closely correlated with classroom activities so that students may apply knowledge and skills to actual on-the-job learning situations.

CSC 229 Career Information 3 2 0 4

Study of the career and educational information available to aid students in career decision-making. Includes a study of the world of work; sources of occupational information; and sociological and psychological factors which influence career planning. Practicum experience correlated with classroom activities so that students apply knowledge and skills to actual on-the-job learning situations.

CSC 234 Community-Based Corrections 3 0 0 3

Exploration of philosophy and programs of juvenile and adult probation supervision, aftercare parole, halfway homes, work and educational release-furlough, as well as executive clemency and interstate compact practices. Dilemma of surveillance-custody/control factors vs. supervision-treatment examined. Introduction to classification of offenders, followed by analysis of possible treatments. Citizen-agency relationships investigated, along with potentials of utilizing citizen volunteer programs.

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DRAFTING

DFT 101 Technical Drafting 0 6 0

Introduction to the field of drafting. Includes a study of drawing principles and practices for print reading and describing objects in the graphic language. Basic skills and techniques of drafting included are the use of drafing equipment, lettering, freehand orthographic and pictorial sketching, geometric instruction, orthographic instruction, drawing of principal views, and standards and practices of dimensioning. The principles of isometric, oblique, and perspective drawing are introduced.

DFT 102 Technical Drafting 0 6 0 2

Prerequisite: DFT 101

Application of orthographic projection principles to the more complex drafting problems, primary and secondary auxiliary views, simple and successive revolutions, and sections and conventions. Introduction of the graphical analysis of space problems stressed. Problems of practical design elements involving points, lines, planes, and a combination of these elements are studied. Dimensioning practices approved by the American Standards Association are included. Introduction to intersections and developments of various types of geometrical objects.

DFT 104 Blueprint Reading: Mechanical 3 0 0 3

Interpretation and reading of blueprints. Information on the basic principles of the blueprint, including lines, dimensioning procedures, and notes.

			Class	Lab	Clinical/ Shop	Credit Hours
DFT	105	Blueprint Reading and Sketching	3	0	0	3

Prerequisite: DFT 104

Further practice in interpretation of blueprints as they are used in industry: study of prints supplied by industry, making plans of operation, introduction to drafting room procedures, and sketching as a means of passing on ideas.

DFT	106	Blueprint Reading and Technical				
		Sketching	2	0	0	2

General course in interpreting and reading blueprints. Information includes the basic principles of the blueprint, lines, views, dimensioning procedures, and notes. Emphasis placed on reading of blueprints common to the building systems. Sketching as a means of passing on ideas and information introduced.

DFT	230	Structural Drafting	2	6	0	4
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Prerequisites: ARC 220, CIV 105

Concentrated study and drawing of structural plans with emphasis on details and shop drawings of the structural components of buildings including steel, reinforced concrete, and timber structures. Appropriate symbols, conventions, dimensioning practices, and notes used by the draftsman included. Emphasis also on drafting appropriate drawings for fabrication and erection of the structural components.

DFT	235	Codes, Specifications, and Contract				
		Documents	3	3	0	4

Prerequisite: ARC 220

Study of building codes and their effect on specifications and drawings. Purpose and writing of specifications and their legal and practical application to working drawings are studied. Contract documents analyzed and studied to determine client-architect-contractor responsibilities, duties, and mutual protection.

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DFT	236	Construction Estimating and Field				
		Inspecting	3	3	0	4

Prerequisite: DFT 235

Includes interpretation of working drawings for a project; preparation of material and labor quantity surveys from plans and specifications; and approximate and detailed estimates of costs. Students study material take off, labor take off, subcontractors' estimates, overhead costs, and bid and contract procedures. Detailed inspection of the construction by comparing the finished work to the specifications is also included.

DFT 1104 Blueprint Reading: Mechanical 3 0 0 3

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

DFT 1105 Blueprint Reading: Mechanical 3 0 0 3

Prerequisite: DFT 1104

Further practice on interpretation of blueprints as they are used in industry, study of prints supplied by industry, making plans of operations, introduction to drafting room procedures, and sketching as a means of passing on ideas.

DFT	1106	Blueprint Reading: Mechanical	3	0	0	3
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Prerequisite: DFT 1105

Advanced blueprint reading and sketching as related to detail and assembly drawings

used in machine shops. Interpretation of drawings of complex parts and mechanisms for features of fabrication, construction, and assembly.

DFT 1110 Blueprint Reading: Building Trades 3 0 0 3

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

DFT 1111 Blueprint Reading and Sketching I 3 0 0 3

Prerequisite: DFT 1110

Principles of interpreting blueprints and specifications common to the building trades. Practice in reading details for grades, foundations, walls, elevations, chimneys, fireplaces, arches, and cavity wall construction. Development of proficiency in making threedimensional views and pictorial sketches.

DFT 1112 Blueprint Reading and Sketching II 3 0 0 3

Prerequisite: DFT 1111

Designed to develop abilities in reading complex drawings in the masonry field. Blueprints of residential and commercial buildings studied with emphasis on the plot plan, floor plan, basement and/or foundation plan, walls, and various detailed drawings of masonry work.

DFT 1113 Blueprint Reading and Sketching III 3 0 0 3

Prerequisite: DFT 1110

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Interpretation of schematics, diagrams, and blueprints applicable to electrical installations with emphasis on electrical plans for domestic and commercial buildings. Sketching schematics, diagrams, and electrical plans for electrical installations using appropriate symbols and notes according to the applicable codes included.

DFT	1113M Blueprint Reading and Sket	hing:			
	Masonry	3	0	0	3
Prere	quisite: DFT 1112				

A study of different types of structural designs and details for commercial construction. A study of different construction trades and how each trade relates to the masonry trade.

DFT	1116	Blueprint Reading:	Blueprint Reading:					
		Air Conditioning	1	3	0	2		

Prerequisite: DFT 1104

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

DFT 1117 Blueprint Reading: Welding 3

Prerequisite: DFT 1104

Study of trade drawings in which welding procedures are indicated. Interpretation, use, and application of welding symbols, abbreviations, and specifications.

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			Class	Lab	Clinical/ Shop	Credit Hours
DFT	1118	Pattern Development and Sketching	3	0	0	3

Continued study of welding symbols; methods used in layout of sheet steel; sketching of projects; and jigs and holding devices involved in welding. Special emphasis placed on developing pipe and angle layouts by the use of patterns and templates.

DFT 1120 Drafting: Electronic Servicing 3 0 3 4

Introduction to the field of drafting; includes a study of drawing principles and practices for print reading and describing objects in the graphic language. Basic skills and techniques of drafting included are the use of drafting equipment, lettering, freehand orthographic and pictorial sketching, geometric construction, orthographic instrument drawing of principal views, and standards and practices of dimensioning. Principles of isometric, oblique, and perspective drawing introduced.

DFT 1201 Drafting: Mechanical I 1 3 0 2

Introduction to drafting room procedures; sketching as a means of passing on ideas, information, and processes; and the use of drafting instruments in the practice of lettering, dimensioning, orthographic projections, and working drawings.

DFT 1202 Drafting: Mechanical II 1 3 0 2

Prerequisite: DFT 1201

Additional instruction and practice in orthographic projections, working drawings, lettering, and dimensioning. Also included is an introduction to sectioning, pictorial drawings, and the use of drawing instruments for the graphical solution of geometrical problems. Emphasis placed on interpretation of shop blueprints to better prepare students for DFT 1105.

ECONOMICS

ECO 108 Consumer Economics 3 0 0

Designed to help students use their resources of time, energy, and money. Students given opportunities to build useful skills in buying, managing finances, increasing resources, and understanding the economy.

ECO 150 Economics I

3 0 0

Fundamental principles of microeconomics including the institutions and practices by which people gain a livelihood. Emphasis placed on basic conditions for the market system and how the market process functions in the real world. Supply and demand, price and cost, and current economic problems stressed.

ECO	151	Economics II	3	0	0	3
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Prerequisite: ECO 150

Continuation of a study of the principles of economics, with emphasis on macro-issues such as national output and income, international trade and finance, and current economic problems.

ECO 152 Economics III 3 0 0 3

Prerequisite: ECO 151

Continuation of the study of basic economic principles. Emphasis placed on current macro- and microeconomics problems and application of economic principles to short-range forecasting.

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			Class	Lab	Clinical/ Shop	Credit Hours
ECO	201	Cost-Benefit Analysis	3	0	0	3

Study of methods for project evaluation, including decision criteria, identifying and quantifying cost and benefits, and procedures for performing a cost benefit analysis.

ELECTRONIC DATA PROCESSING

*EDP 111 Basic Programming 2 2 0 3 Introduction to computer programming techniques for beginning students. Introduces the concept of a problem, of a procedure to compute the solution to a problem, and of the BASIC language in which procedures can be implemented.

EDP 114 Introduction to Computer Concepts 3 0 0 3

Introductory course in computers for students pursuing degree in data processing or desiring a general non-technical knowledge of terminology and concepts. No previous knowledge or experience in data processing required.

*EDP 115 FORTRAN 2 4 0 4 Fundamental course in FORTRAN programming. The FORTRAN language structure,

statements, and programming methods and techniques are studied. Students develop program logic and write FORTRAN programs for solving sample problems.

EDP 116 Assembly Language I 2 4 0 4

Study of symbolic computer languages with emphasis on a particular example of such a language. Students develop program logic and write programs using Assembly Language to solve appropriate assigned problems.

EDP 117 Assembly Language II 2 4 0 4

Continuation of Assembly Language to provide students more depth and experience using a symbolic programming language.

*EDP 118 COBOLI

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Designed to provide basic training in structured COBOL programming. The COBOL language programming methods and techniques are studied. Students develop program logic and write structured COBOL programs for solving sample problems.

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*EDP 119 COBOL II

Continuation of training in COBOL programming techniques and methods. Designed to provide students with the opportunity to apply skills learned in COBOL I to typical business applications with emphasis on arrays, tables, control breaks, and disc file organization.

EDP 150 Introduction to Computers 5 0 0 5

Presents the basic concepts of data processing fundamentals, including programming business economics problems for a computer.

			Class	Lab	Clinical/ Shop	Credit Hours
*EDP	211	Applications I	2	4	0	4

Designed to provide students with sufficient knowledge in computer methodology to permit the use of computers in business. Emphasis centers on the development of a typical business computer, including complete documentation, using a team programming approach.

*EDP 212 Applications II 2 4 0

Emphasizes the preparation and utilization of operations data used in a typical business, case problems involving systems established for collecting the data, and generating information for organizational units. Audit trails enabling the tracing of transactions back to the original source or forward to the first report analyzed. Simulated data used to demonstrate programming techniques required in processing management information. Structure of data files receives major emphasis. Students design, program, and test an entire business application with minimum assistance.

*EDP 214 Computer Systems I 2 2 0 3

Study of computer systems involving concepts of architecture and programming such as channels, interrupts, multiprogramming, job scheduling, file devices, and file organization.

*EDP 223 Introduction to RPG II 2 4 0 4

Study of a report generator language appropriate for use with a small computing system. Students develop program logic and write programs to solve appropriately related sample business problems.

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*EDP 224 RPG II

Prerequisite: EDP 223

Continuation of EDP 223 with special emphasis on applications and programming procedures of the smaller business.

EDP 230 Internship I 0 10 0 5

Cooperative endeavor between Pitt Community College and industry to give students on-the-job training experience. Students work in computer operations for a given company, on location, for a minimum of 10 hours per week.

EDP 231 Internship II 0 10 0 5

Continuation of the on-the-job training begun in EDP 230.

*EDP 232 Communications Control Programming 2 2 0 3

Designed to teach the participant how to write telecommunications application programs to run under control of the communications control program (CCP). Also, in order to fully utilize the display format facility of the CCP, students learn the concepts and operation of the information display system.

*Fee of \$2.50 per lab hour

				Class	Lab	Clinical/	Credit
	EDU	CATIC	DN	Clubb		onop	nours
	EDU	102	Child Health and Safety	3	0	0	3
	Study o Empha	of envii asis on	ronmental influences on the physical and first aid practices and available commun	mental ity servi	health ces for	of young o children.	hildren.
	EDU	103	Preschool Orientation	1	0	6	3
	Super- child o	vised le develop	earning activities related to policies and oment center.	proced	ures u	sed in ope	erating a
	EDU	104	Preschool Observation	1	0	6	3
	Prerec Superv activiti	juisite: vised le ies.	EDU 103 earning activities related to observing ch	ildren i	ndividı	ually and i	n group
	EDU	106	Practicum in Elementary School	1	0	15	6
	Progra eight.	im of si	upervised practices as an assistant in the ϵ	educatio	on of ch	nildren age	es five to
	EDU	107	Practicum in Preschool Experiences	1	0	15	6
	Progra	im of si	upervised practice in the care and educa	ation of	presch	ool childr	en.
	EDU	111	Language Arts Techniques I	5	0	0	5
	Study readin particu	of lang g skills ular em	guage acquisition of young children an s. Attention given to the various appro sphasis on the phonic method.	d its rel aches to	ations o teacl	hip to dev ning read	veloping ing with
194	EDU	115	Audiovisual and Media Instruction	3	0	0	3
	Introd the op materi and du cies, p and so	uction portur als, and uplicati lacing ocial stu	to the multi-media approach to teachin nity to explore all phases of the library, d periodicals. Experiences provided in tl ng machines. Experience with a laminat orders for films, and other visual aids pro idies units of work.	g young includin he use o ing proc ovided v	childr ng cata f audic cess, m vhile d	en. Stude aloging, re ovisual eq aking trar eveloping	nts have eference uipment nsparen- g science
	EDU	202	Discipline Strategies in the Classroom	3	0	0	3
	Survey with p	of vari ractica	ous approaches to discipline. Attention g l guides for selecting a positive and pers	given to 1 onal app	the mo proach	re popula	r models
	EDU	203	Exceptional Child	5	0	0	5
	Introd the ch	uctory aracter	course for those who may work with exce istics and problems relating to educating	eptional g typical	childro childr	en. Examir en.	nation of
	EDU	204	Parent Education	3	0	0	3
	Study of hom role o develo	of ways ne visita f the e pment	parents can be involved in child develop ation, and of the techniques for reportin educational associate in aiding parents t is emphasized.	ment, o g child's in the	f the pu progre guidar	urposes an ess to pare nce of the	d values ents. The e-child's

					Clinical/	Credit
			Class	Lab	Shop	Hours
EDU	212	Language Arts Techniques II	5	0	0	5

Designed to introduce and extend fundamental knowledge of the reading process, including an understanding of essential skills and early detection and remediation of possible reading problems.

EDU 224 A, B, C, Seminar-Practicum Elementary School 1 0 15 6

Prerequisite: Student must have completed at least five quarters of twelve credit hours each at Pitt Community College and maintained a cumulative grade point average of 2,0 or better.

The seminar-practicum experience involves students with the learning processes in an elementary school. These experiences enable the students to gain exposure in many facets in education as well as to do specialized study in given areas. Through "learning by doing," the student may correlate his knowledge and skills to an actual teaching situation.

EDU 225A, B, C Seminar-Practicum: Preschool 1 0 15 6

The practicum and seminar experience involves students with the learning process in a variety of educational settings. These experiences enable the students to gain exposure to many facets of education as well as to do specialized study in given areas. Through learning by doing, students correlate knowledge and skills to actual teaching situations.

EDU 229 Infant Care 3 0 0 3

A study of infants, their behavior and development, and the importance of adequate and appropriate care for the newborn and infant.

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EDU 230 Preschool Education

Study of principles and practices of early childhood education including the types of experiences and facilities which promote optimal development of each child. Guidelines for identifying, planning, organizing, and implementing appropriate programs and facilities are derived through group discussion and individual projects. Field experience provides opportunities to observe children and programs in different preschool facilities.

EDU 231 Creative Activities

Individual and group exploration of activities and materials for promoting optimal development of children. Designed to develop an appreciation of the need for play and the activities appropriate at various stages of development.

EDU 232 Preschool Administration and Supervision 3 0 0 3

Designed to assist students in establishing policies and procedures for the operation of a center for the daily group care of young children.

EDU 250 Introduction to Education 4 2

Study of education as an institution in society. Emphasis is on the educational system in the U. S. including historical, philosophical, sociological, and psychological foundations of American education. Additional topics included are local, state, and Federal organization of education, current issues and innovations in the schools, and teaching as a profession. During scheduled laboratory hours, students complete a minimum period of 16 hours as participants in public school classrooms. Not a practice teaching course.

			Class	Lab	Clinical/ Shop	Credit Hours
ENER	GY					
EGY	101	Energy Technology	2	2	0	3
Provid nature energy	les an ir e of ene y conse	ntroduction to energy technology with rgy, energy use patterns and forecasts, s rvation as one rational approach to the	emphasis ources of e energy of	s on the f energ crisis.	e energy o y, and the	crisis, th need fo
EGY	109	Mechanical Devices and Building Systems	2	2	0	3
A gen tures v tions v	eral stu with em will be o	dy of environmental systems and build phasis on energy consumption and los covered as well as applicable codes and	ing mech s. Heat lo l regulati	anical oss and ons.	systems an heat gain	nd struc calcula
EGY	110	Energy Audits and Procedures	2	2	0	3
Introd praction of the	luctory cal appl inform	course in the basics of energy audits a ication of the concepts, the collection ation.	and proc of data, a	edures nd mea	. Emphasi aningful r	is on th eportin
EGY	111	Energy Conservation Techniques	2	2	0.	3
Contir loss ar appro	nuation reas fo priate r	of EGY 110 with emphasis on the techr und during the audit. Weatherizatior naterials covered.	niques for n proced	r corre ures a	cting thos nd applic	e energ ation c
EGY	112	Special Projects: Energy	1	6	0	3
Specia covere EGY 1	al proje ed by EC 12).	cts assigned to provide students with GY 110 and EGY 111. (Cooperative Educa	practical tion and o	experion	ience in t 330 hours	he area in lieu c
EGY	201	Fundamentals of Solar Energy	2	2	0	3
Funda collec covere	mental tors, th ed.	s of solar radiation, transmission, and a ermal storage, and utilization of solar	bsorptior • energy	n. Flat p for he	plate and ating and	focusin coolin
	000	Solar Energy Application	2	3	0	3
EGY	202					
EGY Contir workir device	202 nuation ng sola es cover	of EGY 201 with emphasis on the ap r systems. Information essential for sizi red.	plication ing, insta	of the lling, a	e fundame nd servic	entals t ing sola
EGY Contir workir device EGY	202 nuation ng sola es cover 203	of EGY 201 with emphasis on the ap r systems. Information essential for sizi red. Energy Management and Planning	plication ing, insta 3	of the lling, a 0	e fundame nd servic 0	entals to ing sola 3

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EGY 205 Alternate Energy Sources 2 2 0 3

A study of the advantages, disadvantages, and applications of various alternate energy sources including alcohol, wind, hydrogen, methane, and small scale hydroelectric systems. Emphasis will be on the possible utilization of these alternate sources as replacements for conventional fuels.

ELECTRICITY	Class	Lab	Clinica Shop	l/ Credit Hours
ELC 101 Fundamentals of Electricity I	4	4	0	6
Corequisite: MAT 101 Study of the elementary principles of electricity, Law, Kirchoff's Law, network theorems, magneti ments, inductance, capacitance, sine wave analys tive, and capacitive networks.	including bacs, basic ele is, and non-1	asic ele ctrical resonai	ctric unit measurir nt resistiv	s, Ohm's ng instru- e, induc-
ELC 102 Fundamentals of Electricity II	5	4	0	7

Prerequisite: ELC 101

Study of series and parallel resonant-circuit analysis, resonant and non-resonant transformer analysis, basic diode power analysis, and an introduction to electro-mechanical devices.

ELC 112 Alternating and Direct Current 2 6 0 4

Study of the electrical structure of matter; the electron theory; and the relationship between voltage, current, and resistance in series, parallel, and series-parallel circuits. Ohm's Law and Kirchoff's Law and the relationships and applications of electricity to modern industrial machinery are included.

ELC	113	Alternating Current and Direct	2	6	0	4
		Current, Machines and Controls				

Prerequisite: ELC 112

Study of the fundamental concepts in single and polyphase alternating current circuits, voltages, current, power measurements, transformers, and motors. Instruction given in the use of electrical test instruments in circuit analysis. Includes a study of the basic concepts of AC and DC machines; simple system controls; and an introduction to the types of controls used in small appliances, including thermostats and timers or sequencing switches.

ELC	119	Industrial Electrical Controls and	2	6	0	4
		Systems				

Prerequisite: ELC 113

Fundamental concepts and applications of electrical, pneumatic, and hydraulic control systems. Controls, protecting devices, and industrial applications emphasized.

ELC 121 Electrical Troubl	shooting 2	3	0	3
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Prerequisites: ELC 112, 113

Utilization of all service tools, instruments, and equipment necessary to analyze all aspects of service and repair, using the procedures employed in service and repair in industry. Students expected to demonstrate ability and initiative in the troubleshooting problems presented.

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ELC 210 Rotating Devices

Prerequisite: ELC 102, PHY 102

Introduction to electrical machinery. Includes an analysis of AC and DC motor and generator principles, synchros and servomechanisms, and alternators and dynamotors. Basic theory, operation, and maintenance of these devices and systems emphasized.

			Class	Lab	Clinical/ Shop	Credit Hours
ELC	1102	Applied Electricity	3	3	0	4

The use and care of test instruments and equipment used in servicing electrical apparatus for air conditioning and refrigeration installations. Electrical principles and procedures for troubleshooting of the various electrical devices used in air conditioning, heating, and refrigeration equipment. Included will be transformers, various types of motors and starting devices, switches, electrical heating devices and wiring.

ELC1112Direct and Alternating Current50129

Study of the electrical structure of matter and electron theory, and the relationship between voltage, current, and resistance in series, parallel, and series-parallel circuits. Includes an analysis of direct current circuits by Ohm's Law and Kirchoff's Law and a study of the sources of direct current voltage potentials; fundamental concepts of alternating current flow, reactance, impedence, phase angle, power, and resonance; and an analysis of alternating current circuits.

ELC 1112A Direct Current Theory and Pracitce 5 0 15 10

Study of the structure of matter and the electron theory; the relationship between voltage, current, and resistance in series, parallel, and series-parallel circuits. Includes an analysis of direct current circuits by Ohm's Law and sources of direct current potentials.

ELC 1112B Alternating Current Theory and 5 0 15 10 Practice

Study of the fundamental concepts of alternating current, including the generation of sine waves and other non-sinusoidal waveforms, reactance, impedance, power, resonance, and alternating current circuit analysis.

ELC1113Alternating Current and Direct50129Current, Machines and Controls

Prerequisite: ELC 1112

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Study of the fundamental concepts in single and polyphase alternating current circuits, voltages, currents, power measurements, transformers, and motors. Instruction is given to the use of electrical test instruments in circuit analysis. Includes a study of the basic concepts of AC and DC machines and simple system controls and an introduction to the types of controls used in small appliances, including thermostats and timers or sequencing switches.

ELC 1114 Electrical Safety 3 0 0 3

Emphasis on the use of electrical test equipment to insure job safety and to prevent shock. Appropriate first-aid techniques for treating shock victims also included.

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ELC 1124 Residential Wiring 5 0

Prerequisite: DFT 1113

Study of the fundamentals of residential wiring, including blueprint reading, planning, layout, and installation of wiring in residential applications such as services, switchboards, lighting, fusing, wire sizes, branch circuits, and conduits. Also includes application of National Electric Code Regulations in actual building mockups.

ELC 1125 Commercial and Industrial Wiring 5 0 12 9

Prerequisite: ELN 1118

Layout, planning and installation of wiring systems in commercial and industrial com-

Clinical/ Credit Class Lab Shop Hours

plexes, with emphasis on blueprint reading and symbols, the related National Electrical Codes, and the application of the fundamentals of commercial and industrial wiring through practical experience in wiring, conduit preparation, and installation of simple systems.

ELECTRONICS

ELN 100 Introduction to Electronics 3 2 0 4

Introduction to electronics principles and laboratory techniques. The care and proper use of laboratory equipment is emphasized. Techniques of recording and use of laboratory data are taught.

ELN 101 Electronic Instruments and 1 4 0 3 Measurements

Prerequisite: ELC 102

Study of basic electronic instruments and theories of operation, functions, tolerances, and calibration of both service and laboratory instruments. Laboratory experiences provide opportunities for application of each instrument studied.

ELN 105 Control Devices 5 4 0 7

Prerequisite: ELC 102

Study of the electrical characteristics of vacuum tubes and transistors with basic parameters and applications of each type of device to the three-terminal, two-port system emphasized.

ELN 110 Fundamentals of Electricity and 2 4 0 4 Electronics

Basics of AC and DC circuits, including circuit analysis and the use of electrical components and measuring devices. Introduction to electronic devices also included.

ELN -111 Electronic Components and Systems 2 2 0 3

Introduces the basics of various electromechanical equipment and electronic devices and systems. Provides a working knowledge of selected electromechanical devices, various electronic components, circuits, and control devices.

ELN 201 Microcomputer Concepts 2 2 0 3

Introduction to the programming and operation of microcomputers. Topics include computer concepts, applications and use, operations, software, and the elements of basic programming. Emphasis on microcomputer applications for energy conservation.

ELN 202 Microcomputer Hardware 2 2 0 3

Designed to develop a basic understanding of the microcomputer components and control systems. Emphasis on the use and service of the microcomputer and its applications to energy utilization and conservation.

ELN 205 Application of Vacuum Tubes and 5 6 0 8 Transistors

Prerequisite: ELN 105

Study of the practical applications of vacuum tubes and transistors to basic audio amplifiers, radio frequency amplifiers, detectors, power supplies, and oscillators.

			Class	Lab	Clinical/ Shop	Credit Hours
ELN	210	Semiconductor Circuit Analysis	5	4	0	7

Prerequisite: ELN 205

Study of the analysis and design of transistor circuits. Network theorems and equivalent circuits are used extensively in evaluating total circuit performance. Device peculiarities and limitations pertinent to reliable operations are considered. H.Y.Z. and T. parameters and signal flow graphs are employed.

ELN 211P Communication Circuits 4 4 0 6

Prerequisite: ELN 205

Emphasizes the principles involved in the use of components and devices studied and provides for practice in testing the components and using them in simple relationships in circuits with other units.

ELN 214 Fundamentals of Digital Electronics I 3 3 0 4

Prerequisites: ELN 105, MAT 103

Study of broadband amplifiers, magnetic amplifiers, multivibrators, wave shaping techniques, chopper amplifiers, and clipper and clamper circuits.

ELN 215 Fundamentals of Digital Electronics II 3 3 0 4

Prerequisite: ELN 214

Study of the basic principles of pulse circuitry and nonsinusoidal generators and the application of these principles in the field of electronics. Also includes an introduction to basic logic circuitry as applied in digital computers.

ELN 220 Electronic Systems 5 4 0 7

Corequisite: ELN 215

Block diagram course: includes investigations of numerous electronic systems, using modules or blocks of circuits already studied which have been arranged to produce complex electronic systems. The systems are explained and reduced to functions and then to block diagrams. AM, FM, and Single Sideband transmitters and receivers; multiplexing; TV transmitters and receivers; pulse modulated systems; computers; telemetry; navigational systems; and sonor and radar considered.

ELN 230 Medical Electronics

Study of transductors and electronic circuits used in biomedical systems such as electrocardiographs, heart-rate monitors, blood pressure monitors, and other medical equipment.

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ELN 231 Introduction to Microcomputers 3 3 0 4

Corequisite: ELN 215 or equivalent preparation in digital electronics Introduces the student to the fundamentals and to the hardware and software of microprocessors and microcomputers as they are used to synthesize digital circuits for instrumentation and control.

ELN 235 Industrial Instrumentation 3 3 0

Prerequisites: ELN 205, PHY 104

Introduction to the use of industrial electromechanical and electronic circuits and equipment. Includes methods, techniques, and skills required for installation, service, and operations of industrial control systems. An analysis of sensing devices for detecting changes in pressure, temperature, humidity, sound, light, and electricity; associated circuitry; and indicating and recording devices are included.

					Clinical/	Credit
			Class	Lab	Shop	Hours
ELN	236	Instrumentation and Controls	2	2	0	3

Study of the concepts and applications of various devices to control and monitor energy conversion systems. Special emphasis on applications for energy conservation.

ELN 245 Electronic Design Project 0 4 0 2

Prerequisite: ELN 205

Students are required to design and construct projects approved by the instructor. Includes selection of project and design, construction, and testing of the completed project. Projects may include AM and FM transmitters or receivers, amplifiers, test equipment, control devices, simple counters, lasers, or masers.

ELN 1103 Introduction to Control Devices 5 0 15 10

Introduction to vacuum tubes and semiconductors used to control direct and alternating current. Characteristics of diodes, triodes, tetrodes, pentodes, and transistors in power suppliers, voltage amplifiers, power amplifiers, and oscillators, and the advantages, disadvantages, and uses of each.

ELN 1104 Application of Control Devices 5 0 15 10

Study of vacuum tubes and semiconductor devices with characteristic curves and manufacturers' data used to determine how and why a circuit configuration behaves in a predetermined manner. The applications and uses of the different configurations and simple design characteristics of each are included.

ELN 1	1105	Industrial Electronics and	5	0	15	10
		Instrumentation				

Study of electronic components and circuits used in industrial applications. Included is a study of sensory devices and detectors, the associated circuitry and indicating devices, relays, switching and monitoring circuits, and other devices applicable to the field of industrial electronics.

ELN	1106	Maintenance and Analysis of	5	0	15	10
		Electronic Systems				

Study in the analysis and maintenance of electronic systems. Included are component troubles and their effects on circuit behavior as related to electronic systems used in private entertainment and to equipment used in business and industrial applications.

ELN 1107 Communications

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Study of the history, operating principles, and methods of communication. Telephones, radio, television, telemetry, and other types of communications used in private and industrial applications are included.

ELN 1108 Digital Concepts 5 0 0 5

Introductory study of digital computer fundamentals including binary numbers, logic circuits, arithmetic circuits, bistable circuits, registers, memories, computer operation, microprogramming, and programming.

ELN 1109 Television Broadcasting 5 0 0 5

Study of the operation of a broadcast station. Included in the study are job classifications and the responsibilities of each position. Emphasis on student performance of these jobs and on the problems which evolves within certain departments of a broadcast station.

			Class	Lab	Shop	Hours
FIN	1111	Electronic Trouble-shooting	3	0	0	3
Study (stereo, radio, ments,	of elec , tape i electro , test e	tronic trouble-shooting methods a recorders, television, cameras and onic organs, and digital circuits. In quipment, tools, and auxiliary item	and procedur video tape re cluded is the is.	es for r ecorder use of	radio, hig rs, CB an electror	gh fidel 1d mob 1ic instr
ELN	1118	Industrial Electronics	3	0	6	5
as dioc tion to applica	of basi des, tric o amp ations.	c theory, operating characteristics, odes, tetrodes, pentodes, and gasec lifiers using triodes, power sup	bus control tul plies using o	bes. Inc diodes,	ludes an and ot	introdu her ba
ELN Prereq	1119 uisite:	Industrial Electronics ELN 1118	3 ich as motor	0 contro	6 Is. alarm	5 system
ELN Prereq Study heatin using indust	1119 uisite: of basi g syste thyratr ries.	Industrial Electronics ELN 1118 ic industrial electronic systems sums and controls, magnetic ampli on tubes, and other basic types	3 tich as motor fier controls, of systems co	0 contro weldin ommor	6 Is, alarm g contro Ily found	5 n system of system d in mo
ELN Prereq Study heatin using indust	1119 uisite: of basi g syste thyratr ries. 1125	Industrial Electronics ELN 1118 ic industrial electronic systems su ms and controls, magnetic ampli ion tubes, and other basic types Radio Receiver Servicing	3 ich as motor fier controls, of systems co 5	0 contro weldin ommor	6 Is, alarm g contro Ily found 0	5 n system ol system d in mo 5
ELN Prereq Study heatin using industi ELN Study of diagra ers by metho	1119 uisite: of basi g syste thyratr ries. 1125 of the p m and resistiv	Industrial Electronics ELN 1118 ic industrial electronic systems such mas and controls, magnetic ampli- tion tubes, and other basic types Radio Receiver Servicing principles of radio reception and pri- schematics of radio receivers, service measurements, signal injection and ocating faulty stages and component	3 ach as motor fier controls, of systems co 5 actices of servicing technique and signal trace ents.	0 contro weldin ommor 0 vicing. I ues of A cing, vo	6 Is, alarm g contro Ily found 0 ncluded M and F Iltage and	5 n system ol system d in mo 5 are blo M rece alysis, a
ELN Prereq Study heatin using industr ELN Study of diagra ers by metho ELN	1119 uisite: of basi g syste thyratr ries. 1125 of the p m and resistiv ods of b 1127	Industrial Electronics ELN 1118 ic industrial electronic systems su- ims and controls, magnetic ampli- ion tubes, and other basic types Radio Receiver Servicing principles of radio reception and pri- schematics of radio receivers, serv- ve measurements, signal injection a ocating faulty stages and compone Television Receiver Circuits and Servicing	3 ach as motor fier controls, of systems co 5 actices of servicing technique and signal trace ents. 10	0 contro weldin ommor 0 vicing. I ues of A cing, vo	6 Is, alarm g contro ily found 0 ncluded M and F Iltage and 18	5 n system ol system d in mo 5 are blo M rece alysis, a 16

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ENG	010	Reading	0	5	0	1.1		
Studen	ts worl	k on reading skills according to their ne	eds.					
ENG	011	Speech Communication	0	5	0	1		
Studen use, an	Students work on oral English with emphasis on conversation, discussion, telephone use, and interviewing.							
ENG	012	Written Communication	0	5	0	1		
Studen	its impi	ove their written English through keepi	ng a jou	rnal, wri	iting lett	ers, para-		

graphs, and essays. ENG 013 Media Evaluation 0 5 0 1

Students study a variety of media including books, periodicals, radio, television, and film, and evaluate them in terms of their values and the intended message of each communication.

	Class	Lab	Clinical/ Shop	Credit Hours
ENG 014 Directed Individual Reading	0	5	0	1
Students apply their reading skills by reading a	nd reporting i	nform	ally.	
ENG 015 Fundamentals of English Usage	0	5	0	1
Designed to improve students' written English u writing edited American English.	isage. Focuses	on cor	nmon pro	blems in
ENG 100R-1 Reading Development	10	0	0	10
Individualized course designed to review the restudent.	eading fundar	nental	s as neede	d by the
ENG 100R-2 Reading Development	3	0	0	3
Prerequisite: ENG 100R-1 or equivalent Individualized course designed to improve the s a variety of materials.	student's readi	ing ach	ievement	through
ENG 100R-3 Reading Development	3	0	0	3
Prerequisite: ENG 100R-2 or equivalent Individualized course designed to increase rea reading necessary in the individual's curriculur	ading efficiend n.	cy, witl	n emphasi	s on the
ENG 100R-4 Reading Development	3	0	0	3
Prerequisite: ENG 100R-3 or equivalent Individualized course designed to promote to comprehension.	the student's	readin	g vocabul	ary and
ENG 100G Basic Grammar	3	0	0	3
Prerequisite: ENG 100R-1 or equivalent Designed to offer basic instruction in gramma manner to lay a foundation for improvement in	r. Subject is a n writing skills	pproa	ched in a j	practical
ENG 100G-A Basic Grammar Lab	0	2	0	1
Designed to improve the student's skills in spec For students who score below a specified score of Basic Grammar previous quarter, or upon requ	ifically defined on English Plac est.	d areas ement	of basic g Test, make	rammar. e I or F in
ENG 101 Grammar	3	0	0	3
Prerequisite: ENG 100R-1 or equivalent Designed to aid the student in clarity of expressi on grammar, diction, sentence structure, and p dents to apply the basic principles of English gr	on. Functional ounctuation. Ir rammar in dail	l appro ntende y situa	ach with e d to stimu tions.	mphasis late stu-
ENG 101A Grammar Lab	0	2	0	1
Prerequisite: C or lower on 100G or upon stud Individualized course designed to improve the grammar.	ent request he student's s	kills ir	specific	areas of

								Clinical/ Credit		
						Class	Lab	Shop	Ηοι	ırs
ENG	101S	Secretarial (Grammar			5	0	0	-	5
Prere	quisite:	Satisfactory	evidence	that	admission	require	ements	have	been	me

(Placement tests or ENG 100R-3 and/or ENG 101) Required of all beginning secretarial students as a prerequisite to the shorthand program. Special emphasis is placed on grammar, punctuation, and spelling. Students should earn a grade of 85 or above on this course before entering the shorthand program.

ENG	102	Composition	3	0	0	3
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Prerequisite: ENG 101

Corequisite: ENG 100R-3 or equivalent

Designed to aid the student in the improvement of self expression in business and technical composition. Emphasis is on the sentence, paragraph, and whole composition.

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ENG 102A Composition Lab

Prerequisite: C or lower on ENG 101 or by student request Individualized course designed to improve the student's writing skills.

ENG 103 Report Writing

Prerequisite: ENG 102 and at least two quarters of curriculum work Designed to instruct students in writing for business and industry and tailored to individual curriculums wherever possible. Emphasis is on memos, various types of short reports, graphic communications, proofreading and editing, and the formal report.

ENG 105 Effective Reading

Prerequisite: Permission of instructor or completion of curriculum reading requirements

Individualized course for students wishing to improve their reading efficiency. Areas of concentration will be selected, based on each student's needs, from rate, vocabulary, comprehension, and reading-study skills in specific subject areas.

ENG106Spelling Techniques3003

Designed to improve spelling ability. Participants study the relationship of spoken English to spelling, spelling patterns, and commonly misspelled words. They also study vocabulary in their areas of concentration such as medicine, law, or architecture.

ENG 150 Composition I 3

Prerequisite: Specified scores on English and reading placement tests or ENG 101 and ENG 100R-4

Essential skills of standard written English and the application of those skills in expository and analytical writing. Essays of varying length on subjects drawn from readings in essays and short fiction.

ENG 151 Composition II	3	0	0	3
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Prerequisite: ENG 150

Corequisite: LIB 150

Techniques of library research and the writing of research papers. Subjects for writing assignments are drawn from readings in short fiction and novels.

			Class	Lab	Clinical/ Shop	Credit Hours
ENG	152	Composition III	3	0	0	3
Prereq Readin	uisite: Igs in p	ENG 150 oetry and drama. Papers are written on s	subjects	draw	n from re	adings.
ENG	204	Oral Communications	3	0	0	3
Introdu with ot self-pe several	uction hers ef rceptic speec	to interpersonal communication to enal fectively. Focuses on the nature of the co on, group interaction, and language as a s hes near the end of the course.	ble the s mmunic symbolic	ation proc	nt to com process, i ess. Stude	municate ncluding nts make
ENG	206	Business Communications	3	0	0	3
Prereq Self-pa Busine	uisites: iced co ss repo	ENG 102, BUS 102 burse designed to develop skills in wri rts, letters, and memoranda are included	iting bu d.	siness	commur	nications.
ENG	217	Children's Literature	3	0	0	3
dren's Empha pleasu	literatu sis is or re and	aminarize students with the weil-known ire and to introduce them to the best on the use of these materials with the child learning.	i autnor juality b Iren in o	s and ooks rder to	for young o obtain n	g people.
ENG	250	British Literature I	3	0	0	3
Prereq Study o	uisites: of Britis	ENG 151, 152 h literature from Beowulf to the Roman	itic Perio	od.		
ENG	251	British Literature II	3	0	0	3
Prereq Contin presen	uisites: iuation t.	ENG 151, 152 of ENG 250; study of British literature f	rom the	Roma	antic Peri	od to the
ENG	260	American Literature I	3	0	0	3
Prereq Major	uisites: works	ENG 151, 152 of American literature from the colonial	period	throu	gh World	War I.
ENG	261	American Literature II	3	0	0	3
Prereq Contin presen	uisites: uation t.	ENG 151, 152 of ENG 260; major works of American lit	terature	from	World Wa	ar I to the
ENG	270	Introduction to Theatre	3	2	0	4
Introdu constru theatre	uction uction, e jargor	to theatre, including techniques of produ stage techniques, makeup, lighting, cos n are included.	uction. S tuming,	itage s prop	cenery, d construc	esign, set tion, and
ENG	270A	Introduction to Theatre Lab	0	5	0	0
Durati		6 1 1 2 al 1 and	instion (of took	niques le	arned in

Practical stage craft and scenery design through application of techniques learned in ENG 270.

			Class	Lab	Shop	H
ENG	271	Basic Acting Techniques	3	2	0	4
Prerec Basic c tion. 1 niques	quisite: course in The beg s, proce	ENG 270 n acting techniques as applied to techniq ginning student learns stage terminolo esses, operation, and application of play	cal theat gy and r / produc	re and st eceives tion.	age craft training	proc in te
ENG	271A	Basic Acting Techniques Lab	0	5	0	0
Coreq Basic a	uisite: I acting te	ENG 271 echniques through practical application	٦.			
ENG	272	Problems in Production	3	2	0	4
Advan specia advan manag	iced co I and a ced ligh gement	urse of study in stage scenery and des dvanced technical theatrical problem sting techniques, set construction difficu are emphasized. Publicity and public r	sign with is of pro ulties, sou elations	the ma duction und effe are also	ajor emp a. Special cts, and t included	hasis l effe heati l.
ENG	272A	Problems in Production Lab	0	5	0	0
Coreq Advan	uisite: l ced sta	ENG 272 ge design through practical application	l.			
ENG	273	Acting and Directing Techniques	3	2	0	4
Proroc	wisito	ENIC 271				
Prerec Advan comm motio financ	quisite: iced cou unity in n pictur ial man	ENG 271 urse in acting and directing techniques. nvolvement, publicity, other commur re). In addition, students become fully agement of the theatre.	Major er nicative acquaint	nphasis media (ed with	on play so television all aspec	elect n, ra ts of
Prerec Advan comm motio financ ENG	uisite: iced cou unity in n pictur ial man 273A	ENG 271 urse in acting and directing techniques. nvolvement, publicity, other commun re). In addition, students become fully agement of the theatre. Acting and Directing Techniques Lab	Major er nicative acquaint 0	nphasis media (ed with 5	on play so television all aspec 0	elect n, ra ts of 0
Prerec Advan comm motio financ ENG Coreq Advan	uisite: uced cou unity in pictur ial man 273A uisite: l	ENG 271 urse in acting and directing techniques. nvolvement, publicity, other commun re). In addition, students become fully a agement of the theatre. Acting and Directing Techniques Lab ENG 273	Major er hicative acquaint 0	nphasis media (ed with 5	on play se television all aspec 0	elect n, ra ts of 0
Prerec Advan comm motio financ ENG Coreq Advan	uisite: unity in n pictur ial man 273A uisite: l uced act	ENG 271 urse in acting and directing techniques. nvolvement, publicity, other commun re). In addition, students become fully agement of the theatre. Acting and Directing Techniques Lab ENG 273 ring and directing techniques through p	Major er nicative acquaint 0 practical	nphasis media (ed with 5 applicat	on play so television all aspec 0 tion.	elect n, ra ts of 0
Prerece Advan comm motio finance ENG Coreq Advan	ulisite: unity in n pictur ial man 273A ulisite: l iced act 274	ENG 271 urse in acting and directing techniques. nvolvement, publicity, other commun- re). In addition, students become fully agement of the theatre. Acting and Directing Techniques Lab ENG 273 ing and directing techniques through p Advanced Directing Techniques	Major er nicative i acquaint 0 practical 3	nphasis media (ed with 5 applicat 2	on play so television all aspec 0 tion. 0	elect n, ra ts of 0
Prerece Advan comm motio finance ENG Coreq Advan ENG Prerece Study acts of	iuisite: ceed cou unity in pictur ial man 273A uuisite: f iceed act 274 quisite: of dram f short p	ENG 271 urse in acting and directing techniques. nvolvement, publicity, other commun- re). In addition, students become fully a agement of the theatre. Acting and Directing Techniques Lab ENG 273 ing and directing techniques through p Advanced Directing Techniques ENG 273 and from the director's point of view. Stud- plays and in scene synopsis.	Major er nicative acquaint 0 practical 3 lents assi	nphasis media (ed with 5 applicat 2 st in dire	on play so television all aspec 0 tion. 0 ecting sco	elect n, ra tts of 0 4 enes
Prerece Advan comm motio finance ENG Coreq Advan ENG Prerece Study acts of ENG	uisite: ceed cou unity in n pictur ial man 273A uisite: 1 iceed act 274 quisite: of dram f short p 274A	ENG 271 urse in acting and directing techniques. nvolvement, publicity, other commun- re). In addition, students become fully a agement of the theatre. Acting and Directing Techniques Lab ENG 273 ing and directing techniques through p Advanced Directing Techniques ENG 273 ta from the director's point of view. Stude blays and in scene synopsis. Advanced Directing Techniques Lab	Major er nicative acquaint 0 oractical 3 Jents assi 0	nphasis media (ed with 5 applicat 2 st in dire 5	on play so television all aspec 0 tion. 0 ecting sco 0	elect n, ra ts of 0 4 enes
Prerece Advan comm motio finance ENG Coreq Advan ENG Coreq Advar	uisite: unity in pictur ial man 273A uisite: uisite: of dram f short p 274A uisite: dram f short p	ENG 271 urse in acting and directing techniques. nvolvement, publicity, other commun- re). In addition, students become fully a agement of the theatre. Acting and Directing Techniques Lab ENG 273 ing and directing techniques through p Advanced Directing Techniques ENG 273 ba from the director's point of view. Stud- plays and in scene synopsis. Advanced Directing Techniques Lab ENG 274 recting techniques through practical ap	Major er nicative acquaint 0 practical 3 lents assi 0 plication	nphasis media (ed with 5 applicat 2 st in dire 5	on play so television all aspec 0 tion. 0 ecting sco 0	elect n, ra tts of 0 4 enes
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Rovanced playwriting techniques through practical application.

			Class	Lab	Clinical/ Shop	Credit Hours
ENG	1000	Reading Improvement	10	0	0	10
Individu student	ualized	course designed to review the reading	; fundan	nentals	as needeo	d by the
ENG	1101	Reading Improvement	2	0	0	2
Prerequ Individu various	isite: E ualized materi	NG 1000 or equivalent course designed to improve student als.	's readir	ng skill	s through	use o
ENG	1102	Communication Skills	3	0	0	3

Prerequisite: ENG 1101 or equivalent

Designed to improve students' communication skills in specific work situations. Learning experiences include completing job applications, job interviews, letter writing, telephone communications, technical vocabulary, and customer communications.

ENG 1108 Efficient Reading 2 0

Prerequisite: Permission of instructor or completion of curriculum reading requirements

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Individualized course for students wishing to improve their reading efficiency. Areas of concentration will be selected, based on each student's needs, from rate, vocabulary, comprehension, and reading-study skills in specific areas.

ENVIRONMENT

ENV 101 Environmental Orientation 4 2 0 5

An introduction to environmental education, fields of employment and duties performed. Lectures and field trips designed to introduce the student to methods of disease transmission, municipal and industrial disposal of solid and liquid wastes, protection and treatment of water, industrial hygiene, air and noise pollution, swimming pool sanitation, and insect and rodent control.

ENV 103 General Biology 3 2 0 4

This course will be designed to acquaint students with basic topics of modern biological study. Subjects will include: cell structure and function, tissues, organs and organ systems, energy and living organisms, digestion patterns, transport of materials in living organisms, gas exchange, origin and reproduction of life, theory of evolution, taxonomy, ecology, effects of pollution on living organisms.

ENV 104 Environmental Biology 4 2 0 4

Prerequisites: ENV 103, CHM 102

Study of living conditions in typical ambient, land-based, and aquatic environments as they relate to the pollution problem. Introduction to physical, chemical, biological, and microbiological techniques of environmental monitoring.

ENV 105 Environmental Microbiology 2 4 0 4

Prerequisites: ENV 101, 103

Isolation, identification, and classification of microorganisms (bacteria, fungi, algae, protozoa, viruses) and a study of their relationship to food production and preservation and to air, water, and food borne disease. Collection techniques and laboratory procedures for microbiological analysis of air, water, food, and soil samples.

			Class	Lab	Clinical/ Shop	Credit Hours
ENV	107	Water Resources Management	4	2	0	5

Prerequisites: ENV 104, CHM 103

Present topics concerning drinking water production, including water supply; water needs; present and future protection of surface and ground water supplies; collection, treatment, storage and distribution of water for public use; and introduction to laboratory analysis of raw and treated waters.

ENV	112	Air Resources Management	3	2	0	4
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Prerequisite: ENV 101

An introductory course to the field of air pollution technology. Air resources management is the effort to abate existing pollution and to prevent future pollution. Such a program must define the problem and determine the quality of air that is most desirable. Types of air contaminants, their source of emission, and their ill effects are identified. Source emission inventories, sampling and analysis, control techniques, meterological effects, and facets of an air pollution program are introduced.

ENV 115 Environmental Physics I 3 2 0 4

Prerequisite: MAT 101

Incorporates several topics relating to the study of physical phenomena. Special topics include: Greek alphabet, metric system, plane and solid geometry, conversion between various units, graphical portrayal and interpretation of data, and the use of calculator and algebraic techniques. Physical concepts studied are work, energy, power, behavior of gases, and basic thermodynamics, as they relate to environmental conditions and principles of conservation.

ENV 116 Environmental Physics II 3 2	0 4
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Prerequisite: ENV 115

Continuation of ENV 115. Emphasis on fluid mechanics, electricity, and electronics. Fluid mechanics discussed in detail as related to environmental problems. Includes general electrical principles and various applications of electrical and electronic devices.

ENV	195	Environmental Practicum	0	40	0	13

Cooperative program supported by local industries and city, county, state, and federal agencies engaged in environmental fields to provide summer practical experience in a related area.

ENV	200A	Environmental Projects	0	3	0	1
ENV	200B	Environmental Projects	0	6	0	2
ENV	200C	Environmental Projects	0	9	0	3

Designed for students who wish to specialize or expand their knowledge in certain areas of environmental studies. Hours and course requirements to be arranged with Air and Water Technology department faculty.

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ENV 201 Environmental Laboratory I

Prerequisites: ENV 107, CHM 104

Discussion and performance of several physical, chemical, biological, microbiological, and instrumentative tests performed on "clean" and "polluted" surface and ground waters. Tests performed will include: turbidity, pH, color solids, dissolved oxygen, chlorides, fluorides, hardness, heavy metals, coliform bacteria, bioassay, pesticides, detergents.

			Class	Lab	Clinical/ Shop	Credit Hours
ENV	205	Environmental Laboratory II	2	4	0	4

Prerequisites: ENV 201, CHM 104

Theory and laboratory techniques pertaining to waste water treatment to include sampling and analysis; DO, BOD, COD, phospate, solids, nitrogen compounds sulfate, chloride, fluoride, volatile acids, chlorine residual, and chlorine requirements.

ENV 212 Air Pollution Sources and Control 3 4 0 5

Prerequisites: ENV 101, 112

An introduction to the major industrial processes and energy producing reactions which are potential sources of air pollution, including chemical processing, petroleum and metals production, pulp and paper, foods and feeds, and automobiles. Various types of control equipment are studied. Allows students to achieve an understanding of specific problems relating to the control of air pollution within each industry.

ENV217Waste Water Treatment3204

Prerequisites: ENV 107, CHM 103

A course presenting the liquid waste problem and methods of treatment of liquid waste: sewage composition, sewage types, decomposition, dilution, land disposal, pretreatment, flow measurements, primary treatment, aeration, biological purification, digestion, filtrations, disinfection, agricultural and industrial waste management, plant records, and laws and regulations.

ENV 218 Environmental Instrumentation I 2 4 0 4

Prerequisites: ENV 205, CHM 104

A course covering the theory and practical application of the use of an atomic absorption spectrophotometer and the specific ion analyzer in detection and analysis of water and air pollutants.

ENV 219 Environmental Instrumentation II 2 4 0

Prerequisites: ENV 218, CHM 104

A course in the practical application of the use of a gas chromatograph in detection and analysis of hydrocarbons in air pollution and pesticides in water pollution. Theory and familiarization with continuous monitoring equipment for capture and analysis of air pollutants will be covered. Use of this equipment will be taught when equipment becomes available.

ENV	220A	Environmental Projects	0	3	0	1
ENV	220B	Environmental Projects	0	6	0	2
ENV	220C	Environmental Projects	0	9	0	3

Designed for students who wish to specialize or expand their knowledge in certain areas of environmental studies. Hours and course requirements to be arranged with Air and Water Technology department faculty.

ENV	226	Atmospheric Air Sampling				
		and Analysis	2	6	0	5

Prerequisites: ENV 201, CHM 104

Principles and methodology of atmospheric air sampling and analysis; practical application of gas laws to air movers and air measuring instruments; selection of sampling sites; calibration, operation and maintenance of air sampling equipment; and laboratory 209

		Clinical/	Credit
6	Lab	Shop	Hours

analysis of major air pollutants such as SO_2 , NO_2 , O_3 , aldehydes, and acrolein. Familiarization with continuous monitoring equipment.

Class

ENV	230A	Environmental Projects	0	3	0	1
ENV	230B	Environmental Projects	0	6	0	2
ENV	230C	Environmental Projects	0	9	0	3

Designed for students who wish to specialize or expand their knowledge in certain areas of environmental studies. Hours and course requirements to be arranged with Air and Water Technology department faculty.

ENV	236	Air Pollution Source Sampling				
		and Analysis	2	6	0	5

Prerequisite: ENV 212

Source sampling principles and methodology; gas laws and their practical application to measurement of gas velocities and flow rates; site selection and preparation, calibration, maintenance and operation of stack sampling equipment and mobile source sampling equipment; also, collection, measurement, and analysis of most common air pollutants such as ammonia, NOx, SOx, HC, Co, fluorides, and chlorine.

ENV	240A	Environmental Projects	0	3	0	1
ENV	240B	Environmental Projects	0	6	0	2
ENV	240C	Environmental Projects	0	9	0	3

Designed for students who wish to specialize or expand their knowledge in certain areas of environmental studies. Hours and course requirements to be arranged with Air and Water Technology department faculty.

210 FORESTRY

FOR	208	Forest Surveying	2	0	3	3
Reloca layout.	tion of	old corners and lines and the le	egal aspects of l	and su	rveys. For	est road

GEOGRAPHY

GEO	150	Introduction to Geography	5	. 0	0	5
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Prerequisite: Specified score on reading placement test or ENG 100R4 Major physical and cultural elements of the environment and their influence on human activity.

HEALTH

HEA	110	First Aid and Medical Terminology	2	2	0	3
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Provides students with the basic skills necessary to provide first aid in common emergencies. Instruction also includes an introduction to anatomy and basic medical terminology used in legal matters.

			Class	Lab	Clinical/ Shop	Credit Hours
HEA	150	Personal and Community Health	3	0	0	3

Investigation of mental, social, and physical health problems related to man's internal and external environment in technological and leisure oriented societies. The objective is efficient and effective performance in daily living through maintenance of optimal personal and community health.

HISTORY

HIS	096	Geography and Economics	0	5	0	1
	(1	1.12	(

The areas of geography and economics have played key roles in the evolution of our country's history. The geography and its impact along with the economic circumstances and the interplay between the two will be discussed.

HIS 097 Current Affairs 0 5 0

The importance of current events in the progression of history will be discussed along with the reasons for and/or the history of these major events.

HIS 098 American Biography 0 5 0 1

A study of major figures in American history and the parts they have played in the formation of our American society.

HIS 099	American History	0	15	0	3
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A study of the history of the United States from the colonial period to the present.

HIS 150 American History I 5 0 0 5

Prerequisite: Specified score on reading placement test or ENG 100R-4 History of the United States from its beginning to the end of Reconstruction.

HIS 151 American History II 5 0 0 5

Prerequisite: Specified score on reading placement test or ENG 100R-4 History of the United States from Reconstruction to the present.

HIS160World History to 15005005Prerequisite: Specified score on reading placement test or ENG 100R-4Development of civilization from prehistory to the Reformation.

HIS161History of Europe Since 1500505Prerequisite: Specified score on reading placement test or ENG 100R-4

European civilization from the Renaissance to the present.

HUMAN SERVICES

HSA 100 Basic Health Science 3 0 0 3

Introduction to the normal structure and functioning of the human body, briefly covering all systems. The normal body is studied as the basis for understanding variations from normal and the need to maintain homeostasis. Included within each system is pertinent information concerning hygiene, nutritional requirements, basic first aid, and medical terminology.

				Clinical/C			
			Class	Lab	Shop	Hours	
HSA	102	Orientation Lab I	0	2	0	1	

Designed to promote professional, program, and personal identification and development. Emphasizing verbal and nonverbal interaction in interpersonal communication. Strongly recommended for all first year Human Services Technology students.

HSA 111 Introduction to Human Services 3 3 0 4

Introduction to the history of human services and related theories and systems. Agencies, institutions, and programs which help meet human services needs are studied in broad context of social and political systems. Guest lecturers, representative of human services occupations, and field trips to agencies and institutions delivering human services offer a familiarization with the components of the delivery system.

HSA 112 Group Processes I 1 3 0 2

Introduction to interpersonal concepts and problems of communication in interpersonal transactions. Designed to allow students to become more aware of themselves and their feelings about themselves and other people with whom they come in contact. To facilitate this self-awareness and personal growth, students work in small groups, learning through analyses of their own experiences including feelings, reactions, perceptions and behavior.

HSA 112P Practicum I 1 6 0 3

Prerequisite: Permission of instructor

Students spend six hours per week in clinical laboratory experiences under the supervision of a qualified instructor. Emphasis on the application of concepts and principles from related course content.

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HSA 113 Group Processes II 1 3

Prerequisite: HSA 112 or permission of instructor

Continued study of interpersonal relationships in small group interactions. Students work in small groups during the quarter, learning through analyses of their own experiences, including feelings, reactions, perceptions, and behavior, using the framework of transactional analysis.

HSA	113P	Practicum II	1	6	0	3
Prerequ Continu	iisite: I uation	ermission of instructor of Practicum I				

HSA 114 Interviewing and Counseling 3 2 0 4

Study of purpose, structure, focus, and techniques employed in effective interviewing. Laboratory experiences providing opportunities for observation, practice, recording, and summarizing personal histories under faculty supervision. Importance of interview as client's initial encounter with system is stressed; interviewing to meet need of client rather than of system.

HSA 115 Field Internship

Work in a human services agency, institution, or program under the supervision of agency staff and college personnel. Students have an opportunity to apply and practice what has been learned in the program while learning from the professionals in the field.

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					Clinical/	Credit
			Class	Lab	Shop	Hours
HSA	202	Orientation Lab II	0	2	0	1

Continuation lab of HSA 102 for Human Services Technology students to enhance professional and personal development. Emphasis placed on verbal and nonverbal techniques to facilitate interpersonal communication. Strongly recommended for second year Human Services Technology students.

HSA 220 Activities in Human Services 2 2 0

Overview of the types of activities (occupational, recreational, play, music, drama, nonverbal) utilized as therapeutic techniques with particular emphasis on the purpose of each: ways of creating and holding interest in the activity; and the role of the Human Service Associate in assisting patients to participate.

INSURANCE

INS	214	General Insurance, Part I:	2	0	0	2
		Introduction				

Study of types of risk management concepts; examination of various types of insurance and functions of insurance companies; interpretation of laws and regulations affecting the insurance industry.

INS	215	General Insurance, Part II: Life,	2	0	0	2
		Accident and Health Insurance				

Prerequisite: INS 214

Study of exposures, types, policy provisions and practices of life, accident, and health insurance; interpretation of regulations and laws relating to life, accident, and health agents; examination of various social insurance plans.

INS	216	General Insurance, Part III: Fire,	2	0	0	2
		Property, and Casualty Insurance				

Prerequisite: INS 214

Study of automobile insurance, general liability exposures, and insurance for worker's compensation, commercial fire, home owner's, crime, government, fire and casualty insurance.

INDUSTRIAL SCIENCE

ISC	102	Industrial Safety	3	0	0	3
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Deals with the many elements of an industry-wide safety program. Provides an in-depth treatment of job safety analysis, plant inspection, plant arrangement, housekeeping, and the maintenance and handling of materials. Special emphasis given to compliance with the new Occupational Safety and Health Act, and to paperwork procedures and processes.

ISC 110, 120, 130 Readings in Industrial 1 0 0 1 Management

Designed for students who wish to specialize or expand their knowledge in industrial management under the supervision of the Industrial Management faculty. Structured to enable study of materials related to concepts in industrial management.

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			Class	Lab	Clinical/ Shop	Credit Hours
ISC	201	Industrial Organization and Management	3	0	0	3

Organizational structure for industrial management including operational and financial activities. Accounting, budgeting, credit and industrial risks, forecasting and markets, selection and layout of physical facilities, selection, training, and supervision of personnel as found in typical industrial organizations.

ISC	202	Quality Control	3	0	0	3
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Prerequisite: MAT 101

Provides an overview of quality control activity and its scope throughout the entire business system of a company. Among the topics discussed are the elements of quality control work, the organization required to get the work accomplished, methods of measuring the effectiveness of the function, and the integration of the various qualityrelated activities of the organization into a quality system.

ISC 203 Motion Economy

Provides a systematic, practical, and logical treatment of motion and time study as utilized in today's business and industrial enterprise. Covers direct and indirect work and office activities and looks at the broad range of work measurement techniques. Recently developed concepts and techniques evaluated.

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ISC 204 Value Analysis

Common sense approach to cost reduction. Provides students with an opportunity to review in depth the concept and techniques of value analysis and engineering. Emphasis is placed upon identifying and removing unnecessary production costs.

ISC 205 Maintenance Management 3 0 0 3

Administration, decision making, setup, and inspection of various programs such as preventive maintenance, repair parts, inventory control, and organization and functions of maintenance. Various aspects of management, engineering, resources analysis, and maintenance facilities covered.

ISC 209 Plant Layout

Provides a practical study of factory planning with emphasis on the most efficient arrangement of work areas to achieve lower manufacturing costs. Sample layouts for small and medium sized industries covered. Also, the effective use of personnel, money, machinery, and materials.

ISC 213 Production Planning 4 0 0 4

Introduces the production function of the business or industry in its daily manufacturing process. Functions reviewed are forecasting, product planning, and control, scheduling, dispatching, and routing. Case histories are discussed in the classroom and courses of corrective action are developed. Actual layouts are utilized for planning and control.

ISC 231 Manufacturing Processes 5 0 0 5

Provides a basic understanding of industrial materials, machines, and processes utilized in today's manufacturing and assembling plants. Reviews the rapid development of new materials, mechanization and automation, and the complex process of manufacturing.
			Class	Lab	Clinica Shop	l/ Credit Hours
ISC	232	Labor Relations	4	0	0	4

Covers the history of the labor movement in the United States with its structural and legal framework; examines the negotiation, administration, and major contents of the labor contract itself. Special studies of arbitration cases which illustrate the theories in realistic terms provided.

ISC 1101 Industrial Safety 3 0 0 3

A study of the development of industrial safety: accident occurrence and prevention; analysis of accident causes and costs; basic factors of accident control; safety education and training; accident reporting and records; employer and employee responsibility; safety organizations; first aid; mechanical safeguards; personal protective equipment use; materials handling; fire prevention and fire protection; safety codes; and accident statistics.

JOURNALISM

JOU	150	Introduction to Journalism	3	0	0	3				
Basic familiarization with principles of the newspaper in categories such as basic newswriting, principles of production, layout and design, staff organization, sports writing, feature writing, editorial writing, and the purposes and functions of a newspaper.										
JOU	150A	Introduction to Journalism Lab	0	2	0	0				
Application of skills acquired in Introduction to Journalism.										
JOU	151	Essentials of Newswriting	3.	0	0	3				
Analysis of the newswriting procedure, including fact gathering, style, purpose, principles, editing, and maintenance of objectivity.										
JOU	151A	Essentials of Newswriting Lab	0	2	0	0				
Applica	tion of	skills and knowledge pertaining to news	writing.							
JOU	152	Newspaper Layout and Production	3	0	0	3				
Analysis knowle	s of th dge of	e basic principles of layout and design the process involved in offset and letterp	. Stude press lith	nts attaiı Iography	n a func '.	tional				
JOU	152A	Newspaper Layout and Production Lab	0	2	0	0				
Applica	tion of	skills and knowledge pertaining to news	paper la	ayout and	d produc	tion.				
JOU	250	Feature Writing	3	0	0	3				
Analysis news fe	s of fea atures	ature writing with concentration on colu , and creative journalism.	mns, hu	ıman int	erest fea	tures,				
JOU	250A	Feature Writing Lab	0	2	0	0				
Applica	tion of	skills and knowledge pertaining to featu	re writii	ng.						

			Class	Lab	Clinical/ Shop	Credit Hours
JOU	251	Editorial Writing and Policy	3	0	0	3
Analy: policie	sis of ea es, and	ditorial style and content with concer editorial liability.	ntration on	struct	ure. Point (of view,
JOU	251A	Editorial Writing and Policy Lab	0	2	0	0
Appli	cation o	of skills and knowledge pertaining to	editorial w	riting	and policy	
JOU	252	Special Topics Seminar	3	0	0	3
raphy media	, journa 252A	listic art, advertising, creative journali	sm, and no	n-new 2	spaper jou 0	rnalistic 0
Applie	cation o	of skills and knowledge pertaining to	special top	ics.		
LEGA	L EDU	JCATION				
LEC Contir	203 nuation	Legal Research II of CJC 102 Legal Research I.	3	0	0	3
LEC Prerec	204 uuisite:	Advanced Business Law	3	0	0	3

Analysis of basic concepts of business corporations, partnerships and joint ventures, and sole proprietorships with emphasis on drafting articles of incorporation, by-laws, minutes, resolutions, stock certificates, and partnership and joint venture agreements. Also deals with problems in business finance and acquisitions and in related areas of commercial law, stock transfer and purchase agreements, and employment contracts. Consideration of general tax and the role of the lawyer and paralegal.

LEC	207	Law Office Management	3	0	0	3
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Includes the study of the organization of a law office, office forms and legal forms, filing equipment and systems, accounting systems for a lawyer's time, fees, and billing, silent relations, and office procedure. Also familiarizes students with the operation of office machines and equipment.

LEC	210	Real Property and Title	2	2	0	3
		Abstracting I				

Examination of the applicable statutory and common law principles including the form and adequate execution of documents; the functions of judgments and estates in the determination of whether a title to real estate is marketable; the study and function of various documents, indices and files on public records in various county offices. Forms of abstracting title information from public records and summaries thereof included. Various typical problems and errors which may render a title unmarketable included.

LEC	211	Real Property and Title Abstracting II	2	2	0	3

Continuation of LEC 210.

					Class	Lab	Clinical Shop	/ Credit Hours		
LEC	212	Real Estate	Transactions		2	2	0	3		
Includes the study of the preparation of simple contracts for sale of real estate; ordering title search; examining title searches and preparing simple titles, ordering title insurance, preparation of settlement sheet and holding closing, informing purchasers of needed documents and funds, disbursement of fund and recording documents, preparation of certificate of title for lawyer's signature. Also covers the draftings of mortgages and deeds of trust, the closing procedures of these land financing transactions, and foreclosure upon default.										
LEC	220	Family Law			3	0	0	3		
Study of the rights and obligations of the marriage contract; divorce; annulment; separation by court order and by consent; defenses to divorce; child custody; adop- tion, name change, and bastardy proceedings; alimony, child support, Aid to Depend- ent Children, and welfare; North Carolina juvenile law.										
LEC	224	Torts			3	0	0	3		
Study of sis on l	of the p North (rinciples beh Carolina law.	ind personal inj	ury settlem	entsand	litigatio	on with ar	empha-		

LEC	229	Taxes			3	0	0	3
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Application of federal and state taxes to various businesses and business conditions. Study of the following taxes: income, payroll, intangible, capital gains, sales and use, excise, and inheritance.

LEC 232 Estate Administration 3 0 0 3

Students instructed in the drawing of a will, making arrangements with the probate office for probate of will or issuance of letter of administration, preparing simple transfer of inheritance tax forms, marshaling of assets, payment of debts of estate, preparation of interim and final accounting, and preparation of refunding bonds and releases.

LEC 240 Litigation Preparation 3 0 0 3

Teaches the paralegal how a lawyer prepares briefs prior to entering court proceedings. Students taught how to review a file; prepare subpoenas ready for the lawyer's signature; prepare exhibits for court; file pleadings; and index interrogations, depositions, admissions, and pleadings. Prepares students to interview witnesses and record statements in writing and on tape.

LEC 250 Paralegal Internship 1 9 0 4

Prerequisite: The internship is an add-on elective. Students completing the majority of their work may elect to take this course with the permission of the instructor or coordinator. Students spend nine hours per week in an approved law office under the supervision of an attorney. Emphasis placed on exposing students to a variety of experiences encountered in the legal profession.

LIBRARY SCIENCE

LIB	150	Library Research Skills	2	0	0	2
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Library and its resources, usually taken concurrently with ENG 151.

	MASONRY	Class	Lab	Clinical/ Shop	Credit Hours			
	MAS 1101 Bricklaying	3	0	21	10			
	History of the bricklaying industry. Clay and shel laying bricks in a line, bonding, and tools and th training in the basic manipulative skills.	l brick, mo ieir uses. L	ortar, la aborato	ying foun ory work p	dations, provides			
	MAS 1102 Bricklaying II	3	0	21	10			
	Prerequisite: MAS 1101 Designed to give students practice in selecting th struction of various building elements such as foun- cavity walls. Proper use of bonds, expansion strip stressed.	ne proper r dations, wa ps, wall tie	nortars Ils, chir s, and o	, layout, a nneys, arc caulking 1	nd con- hes, and nethods			
	MAS 1103 Bricklaying III	. 2	0	21	9			
	Layout and erection of reinforced grouted brick m panels, decorative stone, granite, marble, adhesiv construction theory and techniques.	asonry lint ve terra cot	els, fire ta, and	places, gla modular	azed tile, masonry			
	MAS 1104 Bricklaying IV	2	0	21	. 9			
	Continued application of techniques acquired in refining the skills of a mason.	MAS 1103	with er	nphasis o	n further			
	MAS 1113 Masonry Estimating I	1	0	3	2			
218	Figuring the quantities of materials needed and c and structures. Practical course in quantity "take c type of jobs for bricklayers and masons.	osts of buil off" from p 1	ding va rints of 0	the more	nponents commor 2			
210	Continuation of MAS 1113 with some emphasis being given to quantity "take off" from prints of the more complicated kind.							
	MATHEMATICS							
	MAT 099 Developmental Mathematics	5	0	0	5			
	Course designed for students whose background Does not carry credit toward an associate degree	in the area	of matl	hematics i	s limited			
	MAT 100R Computational Skills	5	0	0	5			
	Prerequisite: MAT 099 Whole numbers fractions, decimals, and percent	ts.						
	whole numbers, nactions, decimais, and percent							
	MAT 100 Review of Fundamental Mathematics	5	0	0	5			
	MAT 100 Review of Fundamental Mathematics Prerequisite: MAT 100R Fractions, decimals, percents, ratios, proportions	5 , and an in	0 troduct	0 ion to alg	5 ebra.			
	MAT 100 Review of Fundamental Mathematics Prerequisite: MAT 100R Fractions, decimals, percents, ratios, proportions MAT 101 Algebra I	5 ., and an in 5	0 troduct 0	0 ion to alg 0	5 ebra. 5			

Basic algebraic operations, linear equations, factoring, algebraic fractions, graphing, systems of linear equations, exponents, and radicals.

			c	lass	Lab	Clinical/ Shop	Credit Hours
MAT	102	Trigonometry		5	0	0	5
Prerequ The trig trigono trigono	uisite: gonom ometric ometric	MAT 101 etric functions, acute an functions, trigonometri functions, logarithms, ar	gles, right triang c identities, trig nd oblique triang	les, rac onome les.	lian m etric e	easure, gr quations,	aphs of inverse
мат	103	Algebra II		5	0	0	5
Prerequent Exponent relation and log	uisite: entials, ns and garithm	MAT 101 roots, quadratic equatior functions, second degree ic functions.	ns, and inequaliti e relations and fu	es of o inction	ne var Is, syste	iable, first ems of eq	degree uations,
MAT	104	Calculus I		5	0	0	5
Prereq Equatic applica	uisites: ons of ition.	MAT 102, 103 higher degree, the deri	vative with appl	licatior	n, and	integratio	on with
MAT	110	Business Mathematics		5	0	0	5
covere pertine MAT Course unders	d inclu ent uses 111 e studie tand th	de payrolls, price market s of mathematics in the fi Computer Mathematics es those mathematical co e function of a computer	ing, interest, disc eld of business. ncepts that will and operations w	5 help E	0 DP pe	onission, tax 0 rsonnel to er. Topics	s better include
numbe tific no	tation,	ns and arithmetic operation and matrix algebra.	ons, sets, logic, Bo	oolean	algebr	a, statistic	s, scien-
мат	114 B	asic Math for Health Prof	essions	3	0	0	3
This con (additic and dec calculat	urse in on, sub cimals. ting do	cludes a review of some ba traction, multiplication, a Includes a study of perce sages.	asic concepts of a nd division) are st ents, systems of r	rithme tudied neasur	tic. The with re ement	e basic ope espect to f t, and met	erations ractions hods of
MAT	150	College Algebra		5	0	0	5
Prereq Course	uisite:	MAT 101 and either spectrum 100R-4 sets: linear, guadratic, pe	cified score on r olynomial, and ex	eading	place	ment test nctions; ir	or ENG nequali-
ties; pe	ermuta	tions; and combinations.	,				
MAT	180	Statistical Analysis I		5	0	0	5
Prereq Sampli hypoth	uisite: ng of _I nesis te	MAT 150 probability distributions, sting, Chi-square, and reg	measures of cen gression.	ntral te	ndenc	y and dis	persion,
MAT	201	Calculus II		5	0	0	5

Prerequisite: MAT 104

Continuation of MAT 104. More advanced concepts of differentiation and integration. Introduction to solutions of differential equations and to Fourier series.

				Class	Lab	Clinical/ Shop	Credit Hours
MAT	210	Concepts of Elen	nentary Math	5	0	0	5
Prereq Introd	uisite: uction	MAT 100R to elementary scho	ool mathematics. Set	ts, number	systems	, prime ni	umbers,
the for	ur basi	c operations of arit	hmetic, equations,	and an int	roducti	on to geo	ometry.
MAT	0099	Developmental N	Aathematics	5	0	0	5
Design not car	ned for rry crea	students whose bad dit toward a diplon	ckgrounds in the are na.	ea of mathe	ematics	are limite	d. Does
MAT	1000	Computational S	kills	5	0	0	5
Prereq Whole	uisite: numb	MAT 0099 ers, fractions, deci	mals, and percents.				
MAT	1101	Fundamentals of	Mathematics	5	0	0	5
Prereq	uisite:	MAT 1000					
Fractio tion of	ns, dec formu	cimals, percents, ra las.	tios, proportions, e	xponents, s	quare r	oots, and	evalua-
MAT	1102	Algebra		5	0	0	5
Prereq Basic al and rac	uisite: Igebrai dicals.	MAT 1101 c operations, linear	equations, expone	nts, graphii	ng, syste	ems of equ	uations,
MAT	1103	Basic Geometry a	nd Trigonometry	·5	0	0	5
Prereque Basic d figures triangle	uisite: lefinitio , volun es.	MAT 1101 ons and properties nes of solids, trigor	of plane and solid	l geometric of any ang	figure le, and	s, areas o solution	of plane of right
MAT	1112	Building Trade M	athematics	3	0	0	3
Prereq Practic mating	uisite: al prob practio	MAT 1101 dems dealing with ces for building ma	volumes, weights, 1 aterials.	ratios, men	suratio	n, and ba	sic esti-
MAT	11128	A Building Trade Masonry	Mathematics:	3	0	0	3
Practic. square	al prot roots a	olems dealing with as it relates to masc	n whole numbers, onry materials.	fractions,	decima	ls, percei	nts and
MAT	1113	Building Trade M Masonry	athematics:	3	0	0	3
Prereq	uisite:	MAT 1112M				-	-
Practica masoni	al prob ry.	lems dealing with	linear, square, and	volume m	ensurat	ion as rel	ated to
MAT	1123	Machinist Mather	matics	3	0	0	3
Prereg	uisites:	MAT 1102, 1103					

Introduces gear ratio, lead screw, and indexing problems with emphasis on application to the machine shop. Practical applications and problems furnish the trainee with

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experience in geometric propositions and trigonometric relations to shop problems. Concludes with an introduction to compound angle problems.

MECHANICS

MEC 101 **Machine Processes** 3

Introductory course designed to acquaint students with basic hand tools, safety procedures, and machine processes of modern industry. Includes a study of measuring instruments, characteristics of metals, and cutting tools. Students become familiar with the lathe family of machine tools by performing selected operations such as turning, facing, threading, drilling, boring, and reaming.

MEC 102 Machine Processes	3	3	0	4
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Prerequisite: MEC 101

Advanced operations on lathe, drilling, boring, and reaming machines. Milling machine theory and practice. Study of the types of milling machines, cutters, jug and fixture devices, and the accessories used in a modern industrial plant. Safety in the operational shop is stressed.

MEC **Machine Shop Processes** 1 3 Û 2 112

Acquaints students 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 setup work applied to the trade.

MEC 114 **Shop Practice**

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Prerequisite: MEC 112

Designed to acquaint students with basic fundamentals of installation, maintenance, and repair of machine tools. Machine maintenance and accuracy emphasized. Slip and press fits produced to include bearing assembly. Miscellaneous hydraulic, pneumatic, and lubrication devices studied. Machine location, leveling and fastening discussed. Integration of machining and fabrication developed by related shop projects. Implementation and operation of preventive maintenance systems studied.

MEC **Physical Metallurgy** 210

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Introductory course in metallurgy; basic study of the properties of metals and alloys. Analysis of the structure of metals and alloys, atomic structure, nuclear structure, and nuclear reactions. Solid (crystalline) structures, methods of designating crystal planes, liquid and vapor phases, phase diagrams, and alloy systems.

0 3 MEC 3 222 **Rigging and Material Handling** 2

Transporting, conveying, transferring, self-loading and bulk-handling equipment introduced. Use of wire rope, slings, chains, scaffolds, and ladders investigated. Proper storage of materials covered.

0 3 3 MEC 235 **Hydraulics and Pneumatics**

Basic theories of hydraulic and pneumatic systems. Combinations of systems in various circuits. Basic designs and functions of circuits and motors, controls, electrohydraulic servomechanisms, plumbing, filtration, accumulators, and reservoirs.

					Clinical/	Credit
			Class	Lab	Shop	Hours
MEC	298	Maintenance Problems I	2	3	0	3

Broadens the experiences of students in the areas of mechanics. Problems involving various types of equipment given to demonstrate the check list method of maintenance and preventive maintenance. The use of precision measuring tools and checking for accuracy, squareness, and correct center line distances stressed for prestart inspection. Study in everyday manufacturing problems and solutions. Includes a major part of emphasis on live projects. Projects include selection by the student of the proept feeds, speeds, linkage, and controls of power transmissions, as well as bearings and gears, installation, and repair. Special emphasis on interpretation of catalog information and reference material.

MEC 299 Maintenance Problems II 2 3 0 3

Continuation and in-depth study of MEC 298.

MEC 1101 Machine Shop Theory and Practice 3 0 12 7

Introduction to the machinist trade and the potential it holds for craftsmen. Deals primarily with the identification, care, and use of basic hand tools and precision measuring instruments. Elementary layout procedures of lathe, drill press, grinding (off-hand), and milling machines introduced both in theory and practice.

MEC 1102 Machine Shop Theory and Practice 3 0 12 7

Prerequisite: MEC 1101

Advanced operations in layout tools and procedures, power sawing, drill press, surface grinder, and milling machine shaper. Students introduced to the basic operations on the cylindrical grinder; projects selected encompassing all the operations, tools, and procedures thus far used and those to be stressed throughout the course.

MEC 1103 Machine Shop Theory and Practice 3 0 12 7

Prerequisite: MEC 1102

Advanced work on the engine lathe; turning, boring and threading machines; grinder; milling machines; and shapers. Introduction to basic indexing and terminology with additional processes on calculating, cutting, and measuring of spur, helical, and worm gears and wheels. Trainees use precision tools and measuring instruments such as vernier height gauges, protractors, and comparators. Basic exercises given on the turret lathe and on the tool and cutter grinder.

MEC 1104 Machine Shop Theory and Practice 3 0 12 7

Prerequisite: MEC 1103

Development of class projects using previously learned procedures in planning, blueprint reading, machine operations, final assembly inspection. Additional processes on the turret lathe, tool and cutter grinder, cylindrical and surface grinder, and advanced milling machine operations. Special procedures and operations, processes, and equipment; observing safety procedures faithfully; and establishing good work habits and attitudes acceptable to the industry.

MEC 1105 Machine Shop Theory and Practice 3 0 15

Prerequisite: MEC 1104

Stresses the development of skills and understanding of machine precision parts. Advanced machine processes are taught using the standard machine tools as well as specialized or production equipment as applicable. Methods and procedures of checking and inspecting precision parts. Good housekeeping and safe working habits stressed at all times.

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			Class	Lab	Clinical/ Shop	Credit Hours
MEC	1106	Machine Shop Theory and Practice	3	0	12	7

Prerequisite: MEC 1105

Empahsis placed on production methods and on machines, including setup and operation for mass production. Instruction given on the turret lathe, milling machines, cylindrical grinders, and other production machines. Considerable attention also given to specialized equipment, such as N/C machinery, electrical discharge machines, gear hob or shaper, or others as available.

MEC	1107	Jigs and Fixtures	2	0	6	4
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Develops understanding of principles and uses of jigs and fixtures. Instructions in designing and drawing simple jigs and fixtures, as well as practice in their manufacture for use on course projects. Development of confidence and pride in producing high quality parts with the use of jigs and fixtures.

MEC 1112 Machine Shop Processes 1 0 3 2

Acquaints students 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 setup work applied to the trade.

MEC 1115 Metallurgy: Ferrous Metals 2 3 0 3

Investigates the properties of ferrous metals and tests to determine their uses. Instruction includes some chemical metallurgy to provide background for the understanding of the physical changes and causes of these changes in metals. Physical metallurgy of ferrous metals, producing iron and steel, theory of alloys, shaping and forming, heat treatments for steel, surface treatments, alloy of special steel, classification of steels, and cast iron are the topics for study.

MEC 1116 Metallurgy: Non-Ferrous Metals 2 3 0 3

Prerequisite: MEC 1115

Continuation of the study of physical metallurgy. Study of the non-ferrous metals: bearing metals (brass, bronze, lead), light metals (aluminum and magnesium), and copper and its alloys. Power metallurgy, titanium, zirconium, indium, and vandium included.

MEC 1120 Duct Construction and Installation 3 0 6 5

Study of the fabrication, installation, and maintenance of ducts using various materials and fittings to achieve correct air flow. Course covers safety, fabrication, tools and equipment, cutting and shaping, fasteners and fabrication practices, fans, insulation, ventilating hoods, layout methods, and development of duct systems. The student will study the installation of various duct systems and perform on-the-site modifications.

MEC	1133	Electrical and Mechanical				
		Maintenance	3	0	6	5

To acquaint the student with the basic fundamentals of installation, maintenance, and repair of machines. Miscellaneous electrical, mechanical, hydraulic, pneumatic and lubrication devices are installed and maintained. Methods of rigging and machine installation including location, leveling, and fastening are covered. The use of precision measuring tools and checking for accuracy, squareness and correct center line distances is stressed for pre-start inspection.

					Clinica	/ Credit
			Class	Lab	Shop	Hours
MEC	1134	Electrical and Mechanical				
		Maintenance	3	0	6	5

Prerequisite: MEC 1133

A study is made of those parts of the electrical code which affect the work of the industrial maintenance electrician. Practical experience is provided in wiring, installing, and connecting the various types of services for lighting, heating, and power installations. Training is provided in troubleshooting in the identification and testing of circuits and in making mechanical adjustments and related maintenance operations of various machines. Schematic diagrams showing the plan of operation for each system, electrical or mechanical, are used.

MEC 1140 Hydraulics and Pneumatics Fundamentals 3 0 3 4

Basic theories and uses of hydraulic and pneumatic systems and also the combination of systems. Basic designs and functions of circuits and motors, controls, electro-hydraulic servo-mechanisms, filtration, accumulators, and reservoirs. Installation and maintenance of the components will be made by the students.

MEC 1147 Systems of Measurement and Measuring Tools 2 0 0 2

Study of measurement and the various systems. How to use and read the various rules, scales, calipers, micrometers, and other precision measuring tools used in mechanical work. Included is the reading of the basic electrical meters used in testing.

MEC 1221 Machine Maintenance 2 0 3 3

Fundamentals of repairing machine tools and related equipment or accessories. Emphasis on manufacture of replacement parts; alignment or adjustment of pulleys, gears, gibs, and clutches; and modification or restoration of older equipment.

MEDICAL

MED 1100 Hospital Ward Clerk Theory and Practice

Designed to prepare qualified students to perform a variety of clerical duties such as maintaining the patient's charts, requesting equipment and services for the patient, requesting supplies and equipment for the nursing unit, and completing all forms correctly. Emphasis placed on communication techniques including communication with the patient via the nurse-patient intercom, communication with the hospital staff, physicians, and visitors, as well as telephone communications. Clinical experiences provide opportunities for applying classroom learning in the hospital setting.

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MENTAL HEALTH

MHA 116 Group Processes III

Final formal group experience. Attention given to the development of the students' abilities to communicate with others as well as to facilitate communication between others.

			Class	Lab	Clinical/ Shop	Credit Hours
мна	131, 132, 133	Readings in Mental Health	0	2	0	1

Designed for students who wish to specialize or expand their knowledge in certain areas of mental health. Under the supervision of mental health faculty members, students study materials relative to concepts in mental health and write critical analyses. Time for independent study allotted, and individual conferences with the supervising instructor arranged.

MHA 201 Mental Health Care 4 3 0 5

Prerequisite: HSA 100

Orientation to the policies, procedures, and practices commonly accepted in mental health institutions; an introduction to basic patient care principles and techniques in meeting the needs of patients during observation, ambulation, and mildly mentally ill stages. Lab experiences present practice in basic patient care under the direction of a faculty member.

MHA 208 Change Agentry Lab I 0 3 0 1

A four-day human relations training lab in a retreat setting off campus. Lab staffed by qualified trainers. Students are offered practice in the interpersonal and group skills they have learned in courses in Group Processes.

MHA 209 Treatment Modalities 2 4 0

Analysis and application of the major approaches to psychotherapy and counseling, involving theory, characteristics, and techniques.

MHA 210 Change Agentry Lab II 0 3 0

Prerequisite: HSA 112 or HSA 113 or HSA 116 or permission of the instructor. A four-day human relations training lab which occurs in a retreat setting off-campus. The lab is staffed by qualified group leaders and the students are afforded an experience to practice the interpersonal and group skills they have learned in HSA 112, HSA 113, or HSA 116.

MHA 210P Practicum III

Students placed six hours per week in an agency to obtain job experience related to course work; supervised by qualified agency personnel.

MHA 211P Practicum IV

Students assigned six hours per week in a faculty-supervised clinical situation for application of knowledge and skills from related course work.

MHA 215 Mental Health Seminar 2 2 0

In-depth review of current issues and trends within the field of mental health. Students expected to demonstrate the knowledge and experience gained in previous study and training in group conferences and oral reports.

MHA 215P Practicum V

A continuation of MHA 211P.

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			Class	Lab	Clinical/	Credit Hours
мна	216	Advanced Helping Skills:	Class	Lab	Shop	nours
		Training and Practice	2	2	0	3

Prerequisite: Group Process courses, permission of instructor An intense experience for professional helpers in learning and mastering specific and effective interpersonal skills required by the helper-helpee model. The skills of attending, responding, personalizing, initiating, and communicating are included. After this base is built, the trainees practice the skills of problem definition, goal setting, value clarification, alternative selection, and evaluation. Trainees will receive immediate and ongoing feedback from role-playing exercises via videotapes, peers' observation, and trainer's comments. Size of class limited to 20 to insure maximum learning.

MHA 225 Crisis Intervention 3 0 0

Designed to introduce students to basic theories and principles of crisis intervention from a historical as well as practical orientation. Provides students with necessary skills in crisis intervention since practical application is correlated with theory. Allows students to prepare themselves emotionally and psychologically to handle emergency crisis situations.

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MHA 231, 232, 233 Research in Mental Health 0 2 0 1

Designed for students who wish to specialize or expand their knowledge in certain areas of mental health. Under the supervision of mental health faculty members, students investigate and study materials and data from primary and secondary sources relative to concepts in mental health and prepare reports in the style appropriate to the discipline.

MUSIC

MUS150Music Appreciation3003Introducesmusic:Its elements, forms, and stylistic features.The music of majorcomposers is studied, with emphasis on development of aural awareness.

NURSING

NUR 101 Fundamentals of Nursing 6 6

Fundamentals of Nursing being the foundation of all subsequent courses introduces the student of nursing to the concept of wellness and to the patient and his environment. The course focuses on principles and techniques in the performance of skills by the nurse in meeting the needs common to all patients, stressing body mechanics, medical and surgical aspesis, and other supplementary nursing functions. Nursing care plans, recording, and observational skills are introduced. The learning center and nursing laboratory are used for practice and development of skills, as well as the local hospital.

NUR 102 Medical-Surgical Nursing I 8 0 15

Prerequisites: NUR 101, BIO 101, NUT 101, MAT 114

Introduces the student to the area of medical-surgical nursing. Symptoms of illness, classification of diseases, pre- and post- operative care, long term illness, and rehabilitation are included. Nursing the patient with circulatory and respiratory disorders, cancer, and the dying patient are covered. Clinical time is spent in the medical-surgical departments of the hospital with additional learning experiences provided in the emergency room, operating room, and recovery room.

					Clinical/	Credit
			Class	Lab	Shop	Hours
NUR	103	Medical-Surgical Nursing II	9	0	15	14

Prerequisites: NUR 102, 110

Continuation of study of disorders by body systems; covers causes, diagnosis, treatment, and nursing care of these disorders. Communicable diseases of the adult and disaster and emergency nursing are included. Clinical assignment will be on medicalsurgical units of local hospitals, with additional learning experiences provided in the emergency room, operating room, and recovery room.

NUR 104 Maternal-Child Health Nursing 8 0 15 13

Prerequisites: NUR 102, 110

The maternity component of Maternal-Child Health Nursing focuses on modern aspects of maternity care and understanding of fundamental physiology of human reproduction. There is a thorough presentation of prenatal, labor and delivery, and postnatal care. Emphasis is on normal pregnancy and delivery. Complications affecting the normal process are presented. The pediatric component introduces the student to the etiology, treatment, and nursing care of common and acute disorders and illnesses that affect the infant, child, and adolescent.

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NUR 110 Pharmacology

Prerequsites: NUR 101, MAT 114

Corequisite: NUR 102

Presents students with facts concerning sources, effects, legalities, and usage of therapeutic agents. Conversion between systems, prescriptions of medications, drug classifications, and nursing implications are covered. Prepares the student to administer medications and compute dosages.

NUR 131 Nursing Seminar 3 0 0 3

Corequisite: NUR 103 or NUR 104

Comprehensive presentations of the practical nurse's ethical and legal responsibilities, professional organizations, and the history of nursing. Job opportunities are explored in depth. Continuing education after graduation is stressed; preparation for licensing examination is included.

NUR 201 Advanced Maternity Nursing 3 0 8 6

Prerequisite: Graduation from the Practical Nurse Education Program Family-centered experience designed to prepare students to incorporate into nursing practice the psychological concepts and family relationships that affect the quality of nursing care. Encompasses the normal and important abnormal aspects of the maternity cycle with special emphasis placed on the abnormal pregnancy and intensive care of the premature infant. Clinical experiences are planned to meet clinical objectives and to guide each student toward developing abilities in identifying nursing problems, implementing care, and evaluating results. Experiences are provided in the general hospital, doctors' offices, and in selected community agencies.

NUR 202 Psychiatric Nursing 6 0 15 11

Prerequisites: Graduation from the Practical Nurse Education Program, PSY 150 Conceptual and developmental approach to the nurse's role in the care of patients, both mentally and physically healthy and ill. Emphasis placed on cognizance and utilization of self as a therapeutic tool and development of verbal and nonverbal communication skills. Also emphasizes knowledge and identification of personality and behavior deviation experienced by the mentally ill patient, including etiology, treatment, prevention, and rehabilitation of mental illness. Learning experiences are derived in a state mental hospital and other community mental health related facilities.

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					Clinical/	Credit
			Class	Lab	Shop	Hours
NUR	203	Clinical Nursing I	2	0	8	5

Prerequisite: Graduation from the Practical Nurse Education Program Corequisite: BIO 201

Focuses on planned nursing care as a basis for nursing practice. Emphasis placed on planning care that is individualized and concerned with the total needs of the patient. Emphasis also placed on increasing the nursing student's ability to plan, coordinate, and implement nursing care. Continuing emphasis placed on the conceptual study of the biological, social, emotional, and rehabilitative components of illness as they relate to the ages and stages of development of the adult and child. Clinical learning experiences designed to meet clinical objectives. Experiences are provided in the general hospital.

NUR 204 Clinical Nursing II

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Prerequisite: NUR 203

Conceptual study of the biological and the emotional components frequently occurring in illnesses of adults and children. Implementation of the management of patient care within the role of the Associate Degree Nurse is stressed. Opportunity is provided for using previous knowledge as well as that acquired concurrently in planning and implementing nursing care. Nutrition, pharmacology, history, and legal aspects of nursing are integrated in course content and clinical experiences. Planned clinical learning experiences are selected on the basis of meeting clinical objectives in accordance with the students' needs. Experiences are provided in the general hospital, doctors' offices, and in selected community health agencies.

NUR 205 Clinical Nursing III 5

Prerequisites: NUR 204, BIO 202

Continuation of conceptual study of the biological and the emotional components frequently occurring in illnesses of adults and children. Concentrates on increasing the nursing student's ability to use cognitive, affective, and psychomotor skills in meeting the needs of the adults and children exposed to the stress of more complex medicalsurgical problems. Special emphasis is placed upon the concepts of rehabilitative and adaptive processes. Students given the opportunity to plan, direct, and evaluate total patient care of individuals and groups. Continuing emphasis is also placed on providing an opportunity for application and reinforcement of previously acquired knowledge as well as that acquired concurrently in planning and implementing nursing care. Clinical learning experiences are selected on the basis of meeting clinical objectives and in accordance with the students' needs. Experiences are provided in the general hospital, doctors' offices, and in selected community agencies.

NUR 231 Nursing Seminar

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Corequisite: NUR 205

Introduces some of the problems encountered by the nurses as they make the change from student to staff nurse. Reviews legal and ethical responsibilities and points out current trends in the nursing profession. Students expected to present problems for discussions and do special research on problems encountered and approaches for use as problem solving techniques. Stresses avenues for continued learning after graduation.

NUR	235	Special Problems in Nursing	0	4	0	2
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Adapted to meet the special problems of individual students. Program of guided activities in the library, learning center, or nursing laboratory to improve or enhance students' nursing skills and knowledge.

			Class	Lab	Clinical/ Shop	Credit Hours
NUR	1100	Nurse Assistant Theory and Clinical				
		Practice	9	0	21	16

Designed to prepare qualified men and women to give effective bedside nursing care to selected patients. Students are taught the role of the nurse assistant, concepts of health and illness, functional relationships within the nursing care facility, fundamentals of effective interpersonal relationships, basic nursing procedures related to the daily needs of patients, and selected special procedures. Clinical experiences in hospitals and nursing homes provide students with the opportunity to apply the techniques learned in the classroom.

NUTRITION

NUT 101 Basic Nutrition

Prerequisite or Corequisite: BIO 101 or by permission of department chairperson Science of normal nutrition. Includes the study of nutrients, how they are used by the body, sources and types of food necessary for the balanced diet in developmental and ethnic variations, and physiological processes of digestion, absorption, and metabolism. Introduction to special diets.

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NUT 102 Food for Children 3 2 0 4

Study of nutritional needs and food habits of young children through application of research findings. Practical experience in food service management for feeding children is included as group and individual projects.

ORIENTATION

ORI 100 Freshman Seminar	2	0	0	2
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Includes an orientation of the policies and philosophy of Pitt Community College and stresses study techniques, decision-making, educational and career planning, and student services. Designed to provide students with sufficient information to successfully complete a program of study.

ORI 101 Interpersonal Relations Seminar 1 0 0 1

Designed to promote personal growth and develop a positive self-concept. Emphasizes verbal and nonverbal interaction in interpersonal communications. Social, cultural, and moral norms are discussed as experienced.

ORI 150 Orientation and Study Skills 1 0 0 1

Provides information about the community college and its resources and assists in decision making and in developing sound study habits. Objective is to provide students with sufficient information to succeed in college.

PHYSICAL EDUCATION

PED 150 Foundations in Physical Education 2 0 0 2

Investigation of efficiency of human performance through study of variables related to total fitness, physical fitness, diet, weight control, degenerative diseases, physiological effects of exercise, and motor skills development. Oriented toward physical activity as a

Clinical/ Credit Class Lab Shop Hours

way of life with emphasis upon the role that physical activity should play in leisure oriented societies; includes participation in physical activities.

PED	160	Adapted Activities	0	2	0	1
Prereq	uisite:	Permission of instructor.				
PED	161	Archery	0	2	0	1
PED	162	Badminton	0	2	0	1
PED	163	Basketball—Elementary	0	2	0	1
PED	164	Bowling	0	2	0	1
PED	165	Conditioning	0	2	0	1
PED	166	Modern Dance—Elementary	0	2	0	1
PED	167	Modern Dance—Intermediate	0	2	0	1
PED	168	Social Dance	0	2	0	1
PED	169	Square Dance	0	2	0	1
PED	170	Field Hockey	0	2	0	1
PED	171	Golf	0	2	0	1
PED	172	Ice Skating	0	2	0	1
PED	173	Jui-Jitsu and Karate	0	2	0	1
PED	174	Lacrosse	0	2	0	1
PED	175	Recreational Activities	0	2	0	1
PED	176	SoccerElementary	0	2	0	1
PED	177	Softball—Elementary	0	2	0	1
PED	178	Swimming—Elementary	0	2	0	1
PED	179	Swimming—Intermediate	0	2	0	1
PED	180	Tennis—Elementary	0	2	0	1
PED	181	Tennis—Advanced	0	2	0	1
PED	182	Track and Field	0	2	0	1
PED	183	Volleyball	0	2	0	1
PED	184	Wrestling	0	2	0	1

					Clinical/	Credit
рнис	SOP	HV	Class	Lab	Shop	Hours
THL	5501					
PHI	150	Introduction to Philosophy	5	0	0	5
Prereq Introdu cal pro	uisite: uction blems.	ENG 100R-4 or equivalent to the study of philosophy through the	e examin	ation of	f major p	hilosophi-
рно	TOGR	ХАРНҮ				
РНО	116	Photography	2	4	0	4
Introd Study relatic darkro	luction of the on to th oom pr	to the field of photography, photog fundamental techniques of the came e field of design and visual communi- ocedures, and equipment.	graphic ra and it ications.	equipm s expre Assigne	ent, and ssive pos ed camer	materials. sibilities in a projects,
РНО	217	Photography	2	.4	0	4
Advar tory pr raphy	iced ph ocedur in adve	notographic techniques and materials. res illustrating the various applications ertising.	. Particip and crea	ation ir tive pos	studio a sibilities	nd labora- of photog-
PHO	218	Special Problems in Photography	2	4	0	4
Stude sion o	nts pur f the in	sue approved special interest problen structor.	ns under	the gui	idance ar	ıd supervi-
рно	219	Special Problems in Photography	2	4	0	4
Stude sion o	nts pur f the in	sue approved special interest problem structor.	ns under	the gui	idance ar	nd supervi-
PHO	220	Special Problems in Photography	2	4	0	4
Stude sion o	nts pur f the in	sue approved special interest problen structor.	ns under	the gui	dance ar	nd supervi-
PHYS	ICS					
РНҮ	101	Technical Physics	4	2	0	5
Coreq Funda system and sta	uisite: mental as of m atics.	MAT 102 course covering several basic principl easurement, Newton's laws of motion	es of phy n, energ	vsics. Ty y, equil	pical topi ibrium c	cs include onditions,
РНҮ	102	Technical Physics	4	2	0	5

Prerequisites: MAT 102, PHY 101

Continuation of PHY 101. Typical topics include heat and thermodynamics of heat engines, wave motion, and sound.

			Class	Lah	Clinical/	Credit
рну	103	Technical Physics	4	2	0	5
	105	reenneur r trystes				

Prerequisites: MAT 102, PHY 101

Continuation of PHY 102 with specific attention given to topics related to architecture. Acoustics, light and illumination, and electricity are typical topics covered.

PHY 104 Technical Physics 4 2 0 5

Prerequisite: MAT 102, PHY 101

Continuation of PHY 102 with specific attention given to topics related to electronics. Rotary motion, simple harmonic motion, sound, and circuits are typical topics covered. Electricity and magnetism covered in detail.

PHY 107 Radiologic Physics 3 3 0 4

Prerequisite: MAT 101

Basic fundamentals: covers such areas as structure of matter, electric current, electrostatics, units of measurement, electro-dynamics, magnetism and electromagnetism, electric generators and motors, production and control of high voltage and rectification, x-ray circuits, x-ray tubes and rectifiers, and an introduction to therapy and nuclear medicine.

PHY 108 Radiologic Physics 3 0 0 3

Prerequisite: PHY 107

Complete application and review of radiologic physics. Focus on the multiple energy transformations required for radiation production, what radiation is, how radiation transports energy, mechanics of interaction with matter, and how radiation is measured.

PHY 120 Introduction to the Metric System 3 0 0

Involves familiarization with metric units and usage, conversions to and from the British Engineering System of units, and basic algebraic solutions for the unknown as applied to problems involving units.

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PHY 260 Physics and the Environment I 3 2 0 4

Prerequisites: ENG 100R-4 or equivalent

A conceptual physics course that relates some of the basic principles of physics to their uses and consequences in our world and lives. Major topics include motion, properties of matter, heat, and sound. This is a science course designed primarily for nonscience majors, hence the use of mathematics is deemphasized, being used occasionally to avoid wordiness in communicating a concept. Laboratory experiences are designed to reinforce the concepts discussed in class.

PHY 261 Physics and the Environment II 3 2 0 4

Prerequisite: PHY 260

A continuation of PHY 260 dealing with electricity and magnetism, light, atomic physics, and nuclear physics. Concepts are again emphasized, and mathematical computations used only occasionally.

PHY 262 Solar Influences and Applications

Prerequisite: MAT 101

A non-calculus, introductory course to the basic physics of how the sun physically influences the earth, and how this solar energy can be converted to other useful forms of energy.

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			Cliniant	Carl				
	Class	Lab	Shop	Hours				
PHY 1101 Applied Science	3	2	0	4				
Prerequisite: MAT 1101 Introduction to physical principles. Core topics properties of matter, solids and their characteristi machines. Additional specialized topics for the var liquids, gases, heating and refrigeration, and elect	include cs, work, ious curri tricity.	system energy cula ar	ns of mea 7, power, a e basic pro	surement, and simple operties of				
PHY 1101A Applied Science	2	0	0	2				
Prerequisite: MAT 1101 Introduction to systems of measurement and the	propertie	s of ma	itter.					
PHY 1101B Applied Science	1	2	0	2				
Prerequisite: PHY 1101A Work, energy, power, simple machines, and specialized topics are the areas covered. PHY 1101A and PHY 1101B together are equivalent to PHY 1101.								
PHY 1103 Principles of Electricity	3	2	0	4				
Prerequisite: MAT 1101 Study of the electron theory, Ohm's Law, series and parallel circuits, AC and DC circuits, magnetism, and batteries as applied to the automobile ignition system.								
PLUMBING								
PLU 1110 Plumbing Pipework	3	0	9	6				
This course will introduce students to the tools, fittings, and small equipment used by plumbers. Most of the time will be spent in the shop where the student can learn how to handle these materials correctly. The student will perform operations such as threading, cutting, caulking, and sweating of the various kinds of pipe and tubing used in the trade.								
POWER MECHANICS								
PME 1010 Air Conditioning	2	0	3	3				
Basic principles of air conditioning and the speci farm equipment. Maintenance, troubleshooting, a	al applica and repair	tion of stress	these pri ed.	nciples to				

PME	1030	Electrical Systems in Farm				
		Equipment	3	0	3	4

Basic study of the electrical systems found in farm equipment. Special emphasis given to batteries, starters, generators, alternators, and ignition and lighting systems. Identification of trouble, servicing, and repair as applicable to electrical systems stressed.

PME 1040 Farm Harvesting Equipment 3 0 6 5

General maintenance and repair of harvesting equipment. Self-propelled grain combines and automatic tobacco harvestors given special attention in the classroom and in the field.

PME 1050 New Tractor and Equipment Setup 1 0 3 2

Initial preparation of new tractors and equipment for customer delivery; unloading, assembling, and delivery of the tractor or equipment.

			Class	Lab	Clinical/ Shop	Credit Hours
РМЕ	1100	Engine Shop Practice	0	0	3	1
Preregi	uisite:	PME 1101				

Designed for students who need additional shop time in order to achieve the objectives of PME 1101.

PME	1101	Internal Combustion Engine:				
		Gasoline and Diesel	5	0	12	9

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

PME 1102 Electrical Systems 5 0 12 9

Theory and operation of ignition, cranking, charging, lights, and accessories systems. The laboratory used to demonstrate various test equipment and electrical checks; students spend much lab time learning to use various pieces of auto electrical test equipment.

PME 1104 Fuel Systems: Gasoline and Diesel 5 0 9 8

Designed to give students a solid background in the theory and operation of carburetors, fuel pumps, and the newer emission control devices; a working knowledge of the auto and diesel fuel systems. In laboratory training periods students disassemble various carburetors, perform tests, and adjust to specifications. All test equipment demonstrated to and used by students.

PME 1105A Fundamentals of Diesel Engines 5 0 6 7

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

PME 1105B Fundamentals of Diesel Engines 1 0 6 3

Prerequisite: PME 1105A

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Continuation of practical application of principles introduced in PME 1105A.

PME 1112 Foreign Car Fuel Systems 2 0 0 2

Thorough study of the fuel systems of foreign cars, including the carburetor, fuel pump, and fuel accessories.

PME 1123 Brakes, Chassis, and Suspension 3 0 9 6

Complete study of various braking systems employed on automobiles and lightweight trucks; emphasis on operation, proper adjustment, and repair. Servicing of power brakes emphasized. Principles and functions of the components of the automotive chassis. Practical job instruction in adjusting and repairing of suspension systems.

			Class	Lab	Clinical/ Shop	Credit Hours
PME	1124	Power Trains	3	0	9	6

Comprehensive study of the principles of functions of the automotive power train. Includes study of the clutch, conventional transmission, drive shaft, and the rear axle assembly. Identification of trouble, servicing problems, and repair of the power train system covered.

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PME 1125 Auto Servicing 3

Prerequisites: PME 1102, PME 1123, and AHR 1101

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

PME1126Small Engine Repair1032

Four-cycle air-cooled engines, ignition, fueling, cooling, and lubrication systems. Maintenance and repair emphasized both in theory and practice.

PME	1135	Basic Fuel Systems: Gasoline and				
		Diesel	3	0	3	4

Thorough study of the fundamentals of gasoline and diesel fuel systems. Lectures on carburetors and diesel principles and functions of components. Laboratory practice in application of service, repair, and diagnosis procedures. Assembly removal and replacement.

PME 1136 Fundamental Hydraulics 2 0 6 4

Fundamental hydraulics and its use to transmit power. Study of components and their function; pumps, lines, cylinders, valves, gauges, and controls. Systems servicing, test points, testing, and adjusting. Proper care, use, installation, and storage of test equipment. Minor repairs, assembly removal, and replacement.

PME 1137 Basic Power Transmission 4 0 6 6

Basic fundamentals, function, and operation of major components used to transmit power on heavy equipment. Clutches, transmissions, planetary gearing, torque converters, final drives, differentials, and brakes. Servicing, testing, minor adjustment, assembly removal, and replacement.

PME 1184 Practicum 0 0 39 13

Shop experiences under the supervision of a qualified shop foreman. Emphasis on the application of automotive servicing concepts and principles related to course content.

PME 1202 Electricity/Electronics 3 0 9 6

Thorough study of theory and operation of individual automotive electrical units. Analysis and repair of all automotive electrical components. To supplement the engine electrical course for first year students and help them develop a knowledge of transistor circuits and their application to conventional electrical components and circuitry.

PME 1204 Emission Controls 5 0 6

In-depth coverage of the operation of the P.C.V. System, exhaust emission control systems, evaporative emission control systems, and scheduled maintenance operations. All test equipment involved in diagnosing emission control problems is used by students.

			Class	Lab	Clinical/ Shop	Credit Hours
PME	1224	Automatic Transmissions	5	0	12	9
		DI 45 1104				

Prerequisite: PME 1124

Automatic transmissions; instruction includes classroom study, demonstrations, and student participation in disassembly, reassembly, and testing of selected transmissions. Special emphasis is placed on principles, function, construction, operation, servicing, and trouble-shooting procedures and repair of various types of automatic transmissions.

PME 1227 Power Accessories 2 0 6 4

Designed to acquaint students with the operation, service, and repair of power operated seats, windows, tops, windshield wipers, and radio antennas. Course should insure the development of students' abilities to understand and trace out the circuits of the electrical accessories and enhance skills in diagnosing trouble and repairing damaged circuits. Application of knowledge in drawing and reading schematic diagrams of electrical circuits.

PME	1230	Auto Service Excellence Test				
		Review	5	0	0	5

Complete review of all the eight tests given to auto mechanics for certification by the National Institute for Automotive Service Excellence. Particular attention given to test taking techniques.

POLITICAL SCIENCE

236

POL 102 National Government

English and colonial background, the Articles of Confederation, and the framing of the Federal Constitution. The nature of the Federal union, state rights, Federal power, political parties. The general organization and functioning of the national government.

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POL103State and Local Government3003

A study of state and local government, state-Federal interrelationships, and the functions and prerogatives of the branches. Problems of administration, legal procedures, law enforcement, police power, taxation, and revenues and appropriations. Special attention given to North Carolina.

POL 150 Introduction to U.S. Government 5 0 0 5

Prerequisite: Specified score on reading placement test or ENG 100R-4 American national government with emphasis on its origins, development, structure, and functions.

POLICE SCIENCE

PSC 102 Criminology

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Survey of the historical and contemporary theories associated with the underlying causes of criminal behavior.

			Class	Lab	Clinical/ Shop	Credit Hours
PSC	103	Penology	3	0	0	3
Study rary m Parole	of the h nethods Board,	istorical development of the U.S. priso employed by the North Carolina Probation Commission and the Corre	n system Youth D ections D	ns and s Vevelop Departr	urvey of coment Coment.	contempo ommission
PSC	110	Juvenile Delinquency	5	0	0	5
Study o emplo agenci	of the fa yed in ies and	ctors contributing to juvenile delinque delinquency control. Special attent to the legal procedures utilized in de	ency and ion give aling wit	l evalua en to ti h offer	ition of th he role c nders.	e method of juvenile
PSC	201	Patrol Procedures	4	2	0	5
Overv	iew of t	echniques and procedures employed i	n routin	e patro	and traf	fic control
PSC	202	Police-Community Relations	2	0	0	2
Study achiev	of the r ing the	need for good community relations a se objectives by criminal justice agend	nd the r cies.	nethod	lology en	nployed ir
PSC	213	Identification Techniques	3	2	0	4

Survey of contemporary identification techniques with primary emphasis on fingerprinting. Students develop skills in taking and classifying rolled impressions and in developing latent lifts through lab practice.

PSC 240 Firearms and Defensive Tactics 2 2 0 3

Prerequisite: Admission to a Criminal Justice program and permission of instructor or coordinator

Designed to develop respect for the needs, use, and legal liabilities associated with all firearms. Range practice provided with emphasis on the service revolver. Instruction also given in use of non-lethal weapons and in defensive tactics as used in handling arrested persons.

PSYCHOLOGY

PSY 101 Introduction to Psychology 5 0 0 5

Overview of the general characteristics of human behavior, including motivation, learning, perception, emotion, and intelligence, with emphasis on the application of scientific methods of psychological investigation and on the biological basis of behavior and experience. Special emphasis placed on behavior disorders and mental retardation in an attempt to help students apply the content of this course to job responsibilities.

PSY 102 General Psychology 3 0 0 3

A general survey of psychology: The scientific method, learning development, psychopathology, social psychology, mental health, intelligence, and personality will be topics for discussion. Practical application of information to self and others will be stressed.

PSY	102H	General Psychology (Health Related				
		Professions)	3	0	0	3

A general survey of psychology: The scientific method, learning development, psychopathology, social psychology, mental health, intelligence, and personality will be topics

Clinical/ Credit Class Lab Shop Hours

for discussion. Practical application of information to self and others will be stressed. Emphasis will be towards applying information to the health services professions.

PSY 103 Adolescent Psychology 3 0 0 3

Prerequisite: PSY 102

Study of the nature and source of the problems of adolescents in western culture. The physical, emotional, social, intellectual, and personality development of adolescents.

PSY 104 Human Relations 3 0 0 3

A study of methods of communication and the practitioners' understanding of themselves and others. The practitioner-patient relationship is stressed. Topics include therapeutic communication, death and dying, suicide, assertiveness training, and reduction of stress in ones own life.

PSY 115 Child Growth and Development: Prenatal-Early Childhood 3 0 0 3

Study of the developmental sequence of the prenatal, infant, and early childhood periods. Emphasis given to the factors influencing development and the importance of experiences in establishing patterns of behavior, attitudes, and interpersonal skills.

PSY	116	Child Growth and Development:				
		Middle Childhood-Adolescence	3	0	0	3

Detailed study of the developmental sequences during middle childhood and adolescence; including the environmental and social factors which influence developmental rates, the formulation of behavior, and establishment of value systems and interests.

PSY 120 Human Growth and Development 3 0 0 3

Prerequisites: PSY 102 H or PSY 150 or permission of department chairperson Basic principles of physical, cognitive, and psychosocial development of the individual from conception to death—the human life span. Emphasis also placed on the detection of abnormal developmental patterns from observations and on conveying this information to significant others.

PSY 150 General Psychology I 3 0 0 3

Prerequisite: Specified score on reading placement test or ENG 100R-4 Survey of fundamental principles of human behavior. Includes personality, learning, development, motivation, intelligence, scientific method, psychopathology, and social psychology.

PSY 151 General Psychology II 3 0 0 3

Prerequisite: Specified score on reading placement test or ENG 100R-4 Second half of survey of psychology. Includes physiological psychology, sensation, perception, and altered states of consciousness: sleep, thinking, memory, motivation, emotion, stress, and sexuality.

PSY 160 Psychology of Memory and Learning 5 0 0 5

Prerequisites: PSY 150, PSY 151 or permission of instructor A survey of the basic research and methods, beginning theory, and general principles of learning. This will include the topics of forgetting and memory storage and retrieval.

					Clinical/	Credit
			Class	Lab	Shop	Hours
PSY	170	Child Psychology	5	0	0	5

Prerequisites: PSY 150, PSY 151 or permission of instructor The study of the growth and development of children from conception through adolescence with emphasis on the pre-pubescent child.

PSY 206 Applied Psychology 3 0 0 3

Study of the psychological principles that help in understanding interpersonal relations in daily life. Attention given to personal and group dynamics so that students may apply the principles of mental hygiene to adjustment problems as students, workers, and members of the general community. Applications of psychological principles studied in relation to handling crisis situations dealing with stress, changing habits, and functioning in family life.

PSY 211 Behavior Disorders 5 0 0 5

Prerequisite: PSY 101 or PSY 150

Study of general patterns of abnormal behavior with emphasis on biological and environmental causal factors and human coping mechanisms.

PSY 220 Psychology of Learning 5 0 0 5

Study of the teaching-learning process with introduction of major theories and scientific findings relative to how children learn.

PSY 221 Learning and Behavior 3 4 0 5

Prerequisite: PSY 150

Introduction to the basic learning principles and concepts required to explain the acquisition and maintenance of behavior. Emphasis placed on positive and negative reinforcement, punishment, extinction, shaping, fading, chaining, recording, and charting behavior. Self-modification conducted by each student.

PSY 222 Exceptionality 5 0 0 5

General concepts of intellectual, sensorial, motor, speech, and social variability among individuals.

PSY 225 Tests and Measurements 3 0 0 3

Prerequisite: PSY 150

Study of the principles of psychological testing, general intelligence tests, differential testing of abilities, and measurement of personality traits.

PSY 228 Abnormal Psychology 3 0 0 3

Provides instruction in mental hygiene, in the underlying causes of drug addiction and alcoholism, and in recognizing and dealing with abnormal individuals.

PSY 230 Psychology and Physiology of Aging 3 0 0 3

Survey course intended to develop awareness of the inevitability of aging as part of the normal life cycle. Surveys the physical, psychological, and social changes occurring in late middle age and old age with emphasis on the care and treatment of the aged in our society.

PSY 1101 Human Relations 3 0 0 3

Study of basic principles of human behavior. Problems of the individual studied in relation to society, group membership, and relationships within the work situation.

		Clinical/	Credit
Class	Lab	Shop	Hours

RADIOLOGIC TECHNOLOGY

RDT 101 Radiologic Technology I 4 2 0 5

Orientation to the field of radiologic technology, including darkroom chemistry and film processing, the basic principles of radiologic exposure, elementary patient care procedures, introduction to medical terminology, and introduction to radiographic positioning as applied to those systems covered under BIO 107.

RDT 102 Radiologic Technology II 4 3 0 5

Prerequisites: RDT 101, BIO 107

Radiographic principles and basic radiographic positioning necessary to perform diagnostic studies of the systems studied under BIO 108. Further patient care procedures and medical terminology included.

RDT 103 Radiologic Technology III 4 2 0 5

Prerequisites: RDT 102, BIO 108

Techniques for basic views of the system taught under BIO 108, such as soft tissue radiography and fluoroscopy, and preparation of the patient and contrast media for these studies.

RDT 111 Clinical Education 2 0 6 4

Education in a clinical setting including processing of radiographs, and practice in ethical and attitudinal situations during patient contact. Covers patient care, basic positioning for studies of upper and lower extremities, shoulder and pelvic girdles, introduction to thoracic and abdominal viscera, preparation of the patient for studies, and performance of examinations of the urinary system. Students also apply some of the simpler principles of radiographic exposure. Regular sessions of film critique.

RDT 112 Clinical Education 1 0 15 6

Prerequisite: RDT 111

Education in a clinical setting; students continue to improve basic skills in darkroom technique and patient positioning for routine studies taught under BIO 107 and RDT 101. Practice of techniques for roentgenographic studies of the systems studied under BIO 108. Regular sessions of film critiques.

RDT 113 Clinical Education 1 0 24

Prerequisite: RDT 112

Education in a clinical setting with emphasis on the preparation and use of contrast media, preparation of the patient for such studies, and the performance of examination of the digestive tract, biliary tract, and urinary tract using contrast media. Students gain experience in fluoroscopic procedure and also make radiographs of the abdominal and thoracic viscera without the use of contrast media. Soft tissue radiography (exclusive of mammography) and location of foreign bodies touched upon. Regular film critique sessions.

RDT 114 Clinical Education

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Prerequisites: RDT 103, 113

Student spends entire quarter gaining clinical education and developing skill in the techniques of those procedures covered during the first three quarters. Regular film critique sessions.

			Class	Lab	Clinical/ Shop	Credit Hours
RDT	201	Topographic Anatomy	2	0	0	2

Prerequisites: BIO 107, 108

Review of anatomy from the standpoint of topographic anatomy and the relationship of organs to each other. Stress is upon the location of each organ using surface landmarks and relation of the organ to other organs within the same anatomic regions.

RDT204Radiologic Technology IV4305

Prerequisite: RDT 103

Continuation of the radiologic technology series; radiation protection, equipment maintenance and trouble-shooting. More advanced work in the radiography of the skeleton and in the art of pediatric radiology included. Special views and techniques for diagnostic radiology of the skeleton emphasized.

RDT	205	Radiologic Technology V	4	3	0 !	5
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Prerequisite: RDT 204

Special radiographic procedures. Areas to be covered include photo fluorography; bronchography, mammography, sialography, pelvimetry, and vascular procedures. Emphasis directed toward all requirements necessary for performing these procedures, including equipment and methodology utilized.

RDT 206 Radiologic Technology VI 4 0 0 4

Prerequisite: RDT 205

Study of radiobiology with emphasis on the effects of ionizing radiation in the human body. The use of radiation and radioactive materials in nuclear medicine and radiation therapy considered along with protective measures.

RDT 208 Radiologic Technology VII 6 0 0 6

Prerequisite: RDT 206

Devoted to a complete review of all subject matter covered during program. Emphasis on discussion of knowledge obtained during rotation through minor affiliates.

RDT 215 Clinical Education 1 0 39 14

Prerequisite: RDT 114

Education in clinical area; radiography of the skeleton, the thoracic and abdominal viscera, and examination of the abdominal viscera using contrast media and fluoroscopy. Emphasis placed on ability to do pediatric radiography and views for radiography of the skeleton.

RDT 216 Clinical Education 1 0 24 9

Prerequisite: RDT 215

Emphasis placed on ability to assist and perform procedures studied in RDT 205. Students required to show proficiency in all of these areas.

RDT 217 Clinical Education 1 0 36 13

Prerequisite: RDT 216

Students rotate for a two-week period through each minor affiliate, the Nuclear Medicine Department at the major affiliate, and the special procedures area at the major affiliate to gain knowledge in specialized procedures, nuclear medicine, radiation therapy, and advance imaging modalities.

			Class	Lab	Clinical/ Shop	Credit Hours
RDT	218	Clinical Education	1	0	33	12

Prerequisite: RDT 217

Students complete rotation through minor affiliates and specialized areas in major affiliates.

RDT 219 Review of Radiologic Technology 3 0 0 3

Systematic approach to the review of fundamental radiologic technology theory designed to facilitate the preparation of the graduate radiologic technologist for the written examination. Students encouraged to participate in group discussions, and thus share knowledge, information, and clinical experiences, thereby broadening their base of knowledge.

RELIGION

REL150Introduction to Religion5005

Prerequisite: Specified score on reading placement test or ENG 100R-4 Survey of the major religions of the world: Judaism, Zoroastrian religion, Christianity, Islam, Hinduism, Buddhism, Sikkhism, Jainism, Confucianism, Taoism, and Shinto.

REL160Introduction to Old TestamentLiterature505

Study of the Old Testament, with consideration of relevant cultures, history, and major personalities.

REL 161 Introduction to New Testament 5 0 0 5

Study of the New Testament, focusing on the major teachings of Jesus, the major teachings of the apostle Paul, and the later writings. Special attention paid to the various books' similarities and dissimilarities; to the historical, cultural and religious background; and to the compilation of the New Testament.

REAL ESTATE

RLS 101 Fundamentals of Real Estate 2 4 0

Survey course designed to provide both the beginner and the practitioner with a basic knowledge of real estate. Includes the basic aspects of real estate ownership, contracts, financing, closing, licensing, mathematics, brokerage, land use, property management, and law of agency. Successful completion and meeting attendance requirements of this course qualifies students to take the North Carolina Real Estate Broker's Examination.

SOCIOLOGY

SOC 101 Introduction to Sociology 5 0 0 5

Presents the scientific study of human behavior in relation with others, the general principles affecting the organization of such relationships, and the effects of social life on human personality and behavior. Emphasis is placed on the principles of sociology relating to societies in general and particularly American society, cultures, social institutions, groups, and organizations, the class system, social change, and social processes.

			Class	Lab	Clinical/ Shop	Credit Hours
SOC	102	Principles of Sociology	3	0	0	3

Study of the principles of sociology; attempts to provide an understanding of culture, collective behavior, community life, social institutions, and social change. Presents the scientific study of human behavior in relation with others, the general principles affecting the organization of such relationships, and the effects of social life on human personality and behavior.

SOC102HPrinciples of Sociology
(Health Professions)303

A study in the principles of sociology, attempting to provide an understanding of culture, collective behavior, community life, social institutions, and social change. Presents the scientific study of human behavior in relation with others, the general principles affecting the organization of such relationships, and the effects of social life on human personality and behavior. Throughout the course, principles and concepts are related to the health professions.

SOC 103 Social Problems 3 0 0 3

A study of the social problems prevalent in contemporary society with emphasis on the nature of, origins of, and solutions to these problems.

SOC 150 Sociology I 5 0 0 5

Prerequisite: Specified score on reading placement test or ENG 100R4 Nature, concepts, and principles of sociology. Presents the scientific study of human behavior in relation to others, the general principles affecting the organization of such relationships, and the effects of social life on human personality and behavior. Special attention paid to modern industrial societies in general and American society in particular. Includes society, culture, socialization, groups, institutions and organizations, the class system, social change, and social processes.

SOC 160 Courtship and Marriage 5

A course which introduces students to critical thinking and empirical knowledge relative to affectional involvement, the family, and the roles and relationships associated with each.

SOC170Modern Social Problems500

Prerequisite: SOC 150 or permission of instructor

An in-depth study of current social problems in American society. Emphasis to be placed not only on the nature, extent, causes, and consequences of these problems but also the proposed solutions or means of limiting these problems.

SOC	221	Family	3		0	0	3
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Study of the origin and development of the family as a social institution with emphasis on courtship, marriage, parenthood, family relationships, and problems of the contemporary American family.

SPEECH

SPH 150 Voice and Diction

Improvement of articulation and pronunciation through drills, readings, and the delivery of simple speeches.

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		Class	Lab	Clinical/ Shop	Credit Hours
SPH 16) Public Speaking	3	0	0	3
Compositi	on, preparation, and presentation of s	peeches f	or all o	ccasions.	
SOCIAL	SCIENCE				
SSC 10	Introduction to Social Sciences	3	0	0	3
Integrated ogy, econo science an	course in the social sciences, drawing mics, and political science, introducin d to the basic concepts used by social s	from the f g the stud	fields o ent to t o expla	f sociolog he methc in the fun	y, psychol ds of socia

SURGICAL

the human world.

SUR1102Surgical Safety and Orientation5407

Presents purpose of the program, its content, and its function. Importance of operating room organization, interdepartmental relations, and interrelations with other departments in the hospital. Includes medical terminology and symbols; transportation, positioning, and care of the patient in surgery; and ethical and legal responsibilities. Provides an introduction to other coordinated activities, including vital signs, respiratory maintenance, drainage tubes and catheters, and urethral catheterization. Prepares students for experience in emergency, recovery, and delivery room.

SUR 1104 Introduction to Microbiology 3 0 0 3

Presentation of the basic principles of microbiology to aid students in understanding the relationship of microorganisms with the maintenance of health and the cause, control, and prevention of disease.

SUR1114Principles and Practices of
Operating Room Techniques41009

Introduction to the method of the preoperative surgical hand scrub, historical development of the surgical scrub, gowning, and gloving; aseptic techniques and the development of a "sterile consciousness"; types of drapes, proper handling of drapes, and the importance of proper draping. Various types, sizes, and uses of sutures; and different types, parts, and uses of needles used for suturing tissue. Types and uses of drains; types of basic instruments; and the classifications, uses, manufacture, and care of instruments. Study of specific responsibilities of the circulating and scrubbed personnel in routine and special procedures. Provides experience in both laboratory and hospital settings.

SUR 1115 Pharmacology for Operating Room 2 0 0 2

Familiarizes students with the drugs and agents used in surgery and during surgical procedures. Also deals with the basic mathematics and measurements needed to handle drugs in a surgical situation.

SUR 1116 Surgical Procedures and Clinical Practice I 9 0

Introduction to the various types of incisions used in performing surgery. Relationship between supplies and equipment in the preparation for surgery. Regional anatomy of the operative site. Introduction to surgical procedures including instruments; general

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		Clinical/	Credit
Class	Lab	Shop	Hours

surgery; and general abdominal, gynecological, obstetrical, thoracic, genitourinary, and orthopedic surgery. Provides hospital clinical experience applying all principles with rotations in set-up areas, work rooms and delivery and emergency rooms. Beginning scrub experience.

SUR1127Surgical Procedures and Clinical
Practice II902417

Relationship between supplies and equipment in the preparation for surgery. Regional anatomy of the operative site. Introduction to surgical procedures including eye, ear, nose, throat, plastic, neurosurgery, and cardiovascular. Pediatric and geriatric surgery; diagnostic procedures; radiation therapy; plaster casts; treatment of burns; and special instruments and equipment. Clinical rotation with more advanced scrubbing experience.

SUR	1128	Surgical Specialties and Clinical				
		Practice III	4	0	33	15

Continuation of SUR 1127 with emphasis on advanced surgical procedures. Also includes case studies and seminars. Provides mostly clinical applications with operating room call experience.

SUR 1130 Review of Surgical Technology 3 0 0 3

Complete review of all subject matter covered in the Surgical Technology program in preparation for taking the national certifying exam.

WELDING

WLD 120 Oxyacetylene Welding 2 0 3 3

Introduction to the history of oxyacetylene welding, the principles of welding and cutting, nomenclature of the equipment, and assembly of units. Welding procedures such as practice in puddling and carrying the puddle; running flat beads; butt welding in the flat, vertical, and overhead position; brazing; and hard and soft soldering. Safety procedures are stressed throughout the program of instruction in the use of tools and equipment. Students perform mechanical testing and inspection to determine quality of the welds.

WLD 121 Arc Welding

Operation of AC transformers and DC motor generator arc welding units. Studies made of welding heats, polarities, and electrodes for use in joining various metal alloys by the arc welding process. After students are capable of running beads, they make butt and fillet welds in all positions, and test them in order to detect weaknesses in welding. Safety procedures are emphasized through the course in the use of tools and equipment.

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WLD 122 Commercial and Industrial Practice 2 0 3 3

Prerequisites: WLD 120, 121

Designed to build skills through practices in simulated and actual industrial processes and techniques. Sketching and layout on paper of the size and shape description, listing the steps necessary to build the product, estimating time and material, and then actually following these directions to build the product. Emphasis is placed on maintenance, repairing worn or broken parts by special welding applications, field welding, and nondestructive tests and inspection.

			Class	Lab	Clinical/ Shop	Credit Hours
WLD	1102	Basic Gas Welding	0	0	3	1

Welding demonstrations by the instructor and practice by students in the welding shop. Safe and correct methods of assembling and operating the welding equipment. Practice will be given for surface welding, bronze welding, silver soldering, and flame cutting methods applicable to mechanical repair work.

WLD 1103 Basic Arc Welding 0 0 3 1

Welding demonstrations by the instructor and practice by students in the use of the arc welding process to fabricate steel. Welded joints are discussed and welded in various positions. Care and maintenance of the arc welder are applied in this course.

WLD 1112 Mechanical Testing and Inspection 1 0 3 2

Prerequisites: WLD 1141, WLD 1142 or WLD 1120, WLD 1121 Standard methods for mechanical testing of welds. Students are introduced to the various types of tests and testing procedures and perform the details of the test which give adequate information as to the quality of the weld. Types of tests covered are destructive and nondestructive.

WLD 1120 Oxyacetylene Welding and Cutting 3 0 12 7

Introduction to the history of oxyacetylene welding, the principles of welding and cutting, nomenclature of the equipment, and assembly of units. Welding procedures such as practice of puddling and carrying the puddle; running flat beads; butt welding in the flat, vertical, and overhead position; brazing; and hard and soft soldering. Safety procedures are stressed throughout the program of instruction in the use of tools and equipment. Students perform mechanical testing and inspection to determine quality of the welds.

WLD 1121 Arc Welding 3 0 12 7

Operation of AC transformers and DC motor generator arc welding units. Studies made of welding heats, polarities, and electrodes for use in joining various metal alloys by the arc welding process. After students are capable of running beads, they make butt and fillet welds in all positions, and test them in order to detect weaknesses in welding. Safety procedures are emphasized through the course in the use of tools and equipment.

WLD 1122 Commercial and Industrial Practices 3 0 9 6

Prerequisites: WLD 1141, WLD 1142 or WLD 1120, WLD 1121

Designed to build skills through practices in simulated industrial processes and techniques; and sketching and laying out on paper the size and shape, description, listing the steps necessary to build the product, and then actually following these directions to build the product. Emphasis is placed on maintenance, repairing worn or broken parts by special welding applications, field welding, and nondestructive tests and inspection.

WLD 1123 Inert Gas Welding

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Prerequisites: WLD 1141, WLD 1142 or WLD 1120, WLD 1121 Introduction to and practical operations in inert-gas-shield arc welding. Study made of

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Clinical/ Credit Lab Shop Hours

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equipment, operation, safety, and practice in the various positions. Thorough study of such topics as principles of operation, shielding gases, filler rods, process variations and applications, and manual and automatic welding.

Class

WLD 1124 Pipe Welding

3 0 12

Prerequisite: WLD 1121 or WLD 1142

Designed to provide practice in the welding of pressure piping in the horizontal, vertical, and horizontal fixed position using shielded metal arc welding processes according to Sections VIII and IX of the ASME code.

WLD1125Certification Practices3065

Prerequisites: WLD 1123, WLD 1124; WLD 1141, WLD 1142; or WLD 1120, WLD 1121 Practice in welding the various materials to meet certification standards. Students use various tests including the guided bend and the tensile strength tests to check the quality of work. Emphasis placed on attaining skill in producing quality welds.

WLD 1129 Basic Gas and Electric Welding 2 0 6

Various processes used for joining materials by welding discussed. Lecture, demonstrations, and practice cover the oxyacetylene and arc welding processes, filler metals used, gases, currents, and weldability of metals. Instruction is given in the setup and safe operation of oxyacetylene and arc welding apparatus. Students prepare joints both by hand and by machine cutting with the oxyacetylene torch.

WLD 1141 Beginning Welding 5 0 15

Introduction to the history of oxyacetylene and arc welding, the principles of welding and cutting, nomenclature of the equipment, and assembly of unit. Operation of various AC transformers, AC and DC rectifiers, and DC motor generator arc welding units. Welding procedures such as practice of puddling and carrying the puddle; running flat beads; butt welding in the flat, vertical and overhead positions; and the cutting of straight lines with the torch. Safety procedures are stressed throughout the program of instruction.

WLD 1142 Intermediate Welding 5

Review of basic oxyacetylene cutting and welding, preparation of metals, types of joints, welding procedures, and testing of the welds. Operation of AC transformers and DC motor generator arc welding machines. Studies are made of welding heats, polarities, and electrodes for use in joining various metal alloys by the arc welding process. After students are capable of running beads, they make butt and fillet welds in all positions and test them to detect weaknesses in welding. Safety procedures are emphasized throughout the course.

1. WHITE BLDG.

- a. all administrative offices
- b. student personnel
- c. cooperative education
- d. electronics
- e. architectural drafting
- f. learning center
- g. bookstore
- h. lounge
- i. nursing
- j. elc. data proc.
- k. machinist
- I. auto mechanics
- m. radiology
- n. surgical



- a. air & water
- b. business
- c. police science
 - d. paralegal
 - e. agriculture
 - f. related
 - g. college trans.
 - h. library
 - i. continuing education

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3. WHICHARD BLDG.



- b. human services
- c. teacher assistant
- d. carpentry
- e. electrical inst.
- f. heating, ref., air
- g. auto mech.











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